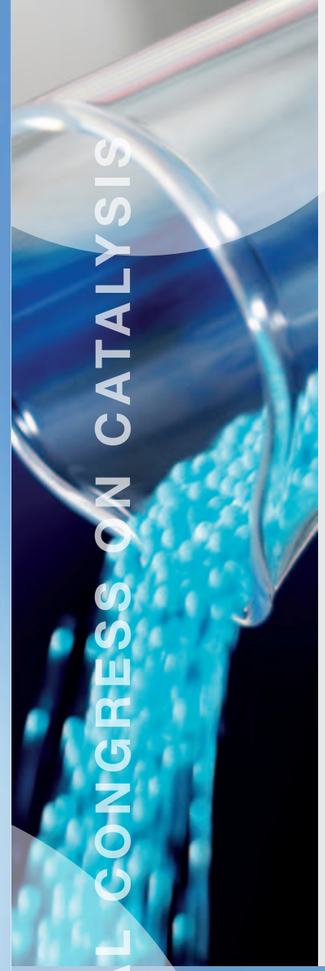

15th ICC 2012
MUNICH · JULY 1 – 6

15th International Congress on Catalysis

in Munich, Germany
July 1 – 6, 2012

POSTER PROGRAM

Updated program and poster program available at

www.icc2012.org

LIST OF POSTER PRESENTATIONS

POSTER PROGRAM

Total is proud to sponsor the Poster Sessions at the 15th ICC in Munich, bringing together prominent researchers from the industry and the university communities to focus on the current developments and challenges in catalysis.

TOTAL

POSTER SESSIONS

The opportunities for poster authors to present their posters and to discuss with colleagues are

- **Poster Session on Tuesday,** July 3, 2012, for posters with even numbers from 3 p.m. till 5:20 p.m.

and

- **Poster Session on Wednesday,** July 4, 2012, for posters with odd numbers from 3 p.m. till 5:20 p.m.

ICC 2012 – POSTER SYMPOSIA

At the 15th International Congress on Catalysis (ICC 2012) we explore a new form of communication for more specialized topics.

Approximately 10 contributions selected as posters have been grouped to a thematic cluster in which participants interested in the topic can exchange and can share this with other participants. Selected posters are marked with the number of the poster symposia, e.g. PS.07 in the list of poster presentations.

No	Symposia title	Day	Time	Room
PS.01 Chairs:	**Structure activity relations in FT processes** E. Van Steen, University of Cape Town/ZA; A. Holmen, Norwegian Institute of Technology, Trondheim/N	Monday, July 2	10:50 – 12:30	11a
PS.02 Chairs:	**Oxidative de-hydrogenation** A. Lemonidou, Aristotle University of Thessaloniki/GR; V. Cortes Corberan, C.S.I.C., Madrid/E	Monday, July 2	10:50 – 12:30	11b
PS.03 Chairs:	**Friedel crafts and alkane alkylation** S.E. Park, Inha University, Incheon/KR; G. Mul, University of Twente, Enschede/NL	Monday, July 2	10:50 – 12:30	12a
PS.04 Chairs:	**Epoxidation with Ti silicates** F. Bonino, University of Turin/I F.S. Xiao, Zhengjiang University, Hangzhou/PRC	Monday, July 2	10:50 – 12:30	12b
PS.05 Chairs:	**Hydrotreating catalysts: new solutions to old challenges** K. Smith, University of British Columbia, Vancouver/CA; A. Kuperman, Chevron Energy Research and Technology Company, Richmond, CA/USA	Monday, July 2	15:50 – 17:30	11a
PS.06 Chairs:	**Methanol and direct DME synthesis** M. Behrens, Fritz-Haber-Institut der MPG, Berlin/D; D. Jackson, University of Glasgow/UK	Monday, July 2	15:50 – 17:30	11b
PS.07 Chairs:	**Selective alcohol oxidation** I. Hermans, ETH Zurich/CH; Y. Wang, Pacific Northwest National Laboratory, Richland, WA/USA	Monday, July 2	15:50 – 17:30	12a
PS.08 Chairs:	**Novel aspects of NO_x reduction (with NH_3)** G. Fuentes, Universidad Autonoma Metroplitana – Iztapalapa, Mexico D.F./MX; E. Tronconi, Politecnico di Milano/I	Monday, July 2	15:50 – 17:30	12b
PS.09 Chairs:	**Refoming of hydrocarbons to syngas** V. Sadykov, Boreskov Institute of Catalysis, Novosibirsk/RUS; F. Ribeiro, Purdue University, West Lafayette, IN/USA	Monday, July 2	17:50 – 19:30	11a
PS.10 Chairs:	**BTX selective oxidation** R. Gläser, Universität Leipzig/D; M. Stockenhuber, University of Newcastle, Callaghan/AUS	Monday, July 2	17:50 – 19:30	11b

No	Symposia title	Day	Time	Room
PS.11 Chairs:	**Versatil TiO_2-based photocatalysts** J. Strunk, Ruhr-Universität Bochum/D; J. Schwank, University of Michigan, Ann Arbor, MI/USA	Monday, July 2	17:50 – 19:30	12a
PS.12 Chairs:	**Towards understanding sulfide catalysts** R. Prins, ETH Zürich/CH; E. Payen, University of Sciences and Technologies of Lille/F	Monday, July 2	17:50 – 19:30	12b
PS.13 Chairs:	**Manipulating product distribution in FT processes** M. Schmal, Federal University of Rio de Janeiro/BR; J.W. Niemantsverdriet, Eindhoven University/NL	Tuesday, July 3	10:20 – 12:00	11a
PS.14 Chairs:	**Methanol to olefins** U. Olsbye, University of Oslo/N; E. Hensen, Eindhoven University of Technology/NL	Tuesday, July 3	10:20 – 12:00	11b
PS.15 Chairs:	**Imaging/local probes for catalyst characterization** U. Heiz, TU München/D; M.J. Bowker, Cardiff University/UK	Tuesday, July 3	10:20 – 12:00	12a
PS.16 Chairs:	**Heteropolyacids** I. Kozhevnikov, University of Liverpool/UK; M. Landau, Ben-Gurion University of the Negev, Beer-Sheva/IL	Tuesday, July 3	10:20 – 12:00	12b
PS.17 Chairs:	**Catalyst immobilization and flow systems** D.J. Cole- Hamilton, University of St. Andrews/UK; W. Leitner, RWTH Aachen/D	Tuesday, July 3	17:20 – 19:00	11a
PS.18 Chairs:	**Mechanistic aspects of the water-gas shift reaction** L. Lefferts, University of Twente, Enschede/NL; E. Lombardo, Universidad Nacional del Litoral, Santa Fe/AR	Tuesday, July 3	17:20 – 19:00	11b
PS.19 Chairs:	**CC-coupling/cleavage** A. Jacobi von Wangelin, Universität Regensburg/D; T. Zhang, Chinese Academy of Sciences, Dalian/PRC	Tuesday, July 3	17:20 – 19:00	12a
PS.20 Chairs:	**Catalysis in fuel cells** C. Pak, Samsung Advanced Insitute of Technology, Yongin/KR; K. Eguchi, Kyoto University/J	Tuesday, July 3	17:20 – 19:00	12b
PS.21 Chairs:	**Physicochemical effects influencing cracking** R.F. Lobo, University of Delaware, Newark, DE/USA; M. Niwa, Tottori University, Nagakute/J	Wednesday, July 4	10:20 – 12:00	11a
PS.22 Chairs:	**Metathesis reactions** A. Trunschke, Fritz-Haber-Institut der MPG, Berlin/D; NN	Wednesday, July 4	10:20 – 12:00	11b
PS.23 Chairs:	**Chemoselective hydrogenation** A. Kogelbauer, Imperial College London/UK; G.-K. Chuah, National University Singapore/SGP	Wednesday, July 4	10:20 – 12:00	12a
PS.24 Chairs:	**Degradation of pollutans through photocatalysis** V. Keller, University of Strasbourg/F; P. Sermon, Brunel University, Uxbridge/UK	Wednesday, July 4	10:20 – 12:00	12b

POSTER SYMPOSIA

No	Symposia title	Day	Time	Room
PS.25 Chairs:	**Hydrocracking and hydroisomerization** A. Borgna, Institute of Chemical and Engineering Sciences, Singapore/SGP; Z. Sobalik, J. Heyrovsky Institute of Physical Chemistry of ASCR, Prague/CZ	Wednesday, July 4	13:20 – 15:00	11a
PS.26 Chairs:	**Hydroformylation and other reactions involving CO addition** P. Wasserscheid, Universität Erlangen-Nürnberg/D; M. Cokoja, TU München/D	Wednesday, July 4	13:20 – 15:00	11b
PS.27 Chairs:	**Enantioselective catalysis** E. Pires, Universidad de Zaragoza/E S. Jaenicke, National University of Singapore/SGP	Wednesday, July 4	13:20 – 15:00	12a
PS.28 Chairs:	**Novel photocatalysts for hydrogen generation** M. Wark, Ruhr Universität Bochum/D; S. Perathoner, University of Messina/I	Wednesday, July 4	13:20 – 15:00	12b
PS.29 Chairs:	**Ruthenium Dioxide, a versatile oxidation catalyst in heterogeneous and electro-catalysis** H. Over, Universität Gießen/D; M. Muhler, Ruhr-Universität Bochum/D	Wednesday, July 4	17:20 – 19:00	11a
PS.30 Chairs:	**Chemistry of alcohols** R. Davis, University of Virginia, Charlottesville, VA/USA; C. Sievers, Georgia Institute of Technology, Atlanta, GA/USA	Wednesday, July 4	17:20 – 19:00	11b
PS.31 Chairs:	**Synchroton methods for catalyst characterization** S. Bare, UOP LLC a Honeywell Company, Des Plaines, IL/USA; B.M. Weckhuysen, University Utrecht/NL	Wednesday, July 4	17:20 – 19:00	12a
PS.32 Chairs:	**Tailored Au and Au alloy particles** C. Louis, Université Pierre et Marie Curie – UPMC, Paris/F NN	Wednesday, July 4	17:20 – 19:00	12b
PS.33 Chairs:	**Metal organic frameworks** M. Hartmann, Universität Erlangen-Nürnberg/D; D. Farrusseng, IRCELYON-CNRS, Villeurbanne/F	Thursday, July 5	10:20 – 12:00	11a
PS.34 Chairs:	**Conversion of triglyceride and fatty acids to fuels** V. Teixeira da Silva, Federal University of Rio de Janeiro/BR; D.E. Resasco, University of Oklahoma, Norman, OK/USA	Thursday, July 5	10:20 – 12:00	11b
PS.35 Chairs:	**First principles based modeling** K. Reuter, TU München/D; S. Linic, University of Michigan, Ann Arbor, MI/USA	Thursday, July 5	10:20 – 12:00	12a
PS.36 Chairs:	**Advanced characterization using NMR** J. Dedecek, Jaroslav Heyrovsky Institute of Physical Chemistry, Prague/CZ; L.F. Gladden, University of Cambridge/UK	Thursday, July 5	10:20 – 12:00	12b
PS.37 Chairs:	**Conversion of lignocellulosic biomass to fuels and chemicals** H. Liu, Peking University/PRC; F. Jentoft, University of Oklahoma, Norman, OK/USA	Thursday, July 5	15:20 – 17:00	11a

No	Symposia title	Day	Time	Room
PS.38	**Lignin depolymerization and conversion of lignin model compounds**	Thursday, July 5	15:20 – 17:00	11b
Chairs:	R. Palkovits, RWTH Aachen/D; D. Murzin, Åbo Akademi University, Turku/FIN			
PS.39	**Selective hydrogenation of CO_2**	Thursday, July 5	15:20 – 17:00	12a
Chairs:	M. Landau, Ben-Gurion University of the Negev, Beer-Sheva/IL; K. Köhler, TU München, Garching/D			
PS.40	***In situ* methods for characterizing catalyst and reactions**	Thursday, July 5	15:20 – 17:00	12b
Chairs:	E.E. Wolf, University of Notre Dame, IN/USA; C. Peden, Pacific Northwest National Laboratory, Richland, WA/USA			
PS.41	**Steam reforming of alcohols**	Thursday, July 5	17:20 – 19:00	11a
Chairs:	C. Chin, University of Toronto/CDN; K. Seshan, University Twente, Enschede/NL			
PS.42	**Synthesis of organic carbonates**	Thursday, July 5	17:20 – 19:00	11b
Chairs:	T.E. Müller, RWTH Aachen/D; B. Rieger, TU München/D			
PS.43	**Advances in electron-microscopy**	Thursday, July 5	17:20 – 19:00	12a
Chairs:	I. Arslan, Pacific Northwest National Laboratory, Richland, WA/USA; A. Datye, University of New Mexico, Albuquerque, NM/USA			
PS.44	**Selective methane oxidation**	Thursday, July 5	17:20 – 19:00	12b
Chairs:	H.H. Kung, Northwestern University, Evanston, IL/USA; NN			

Poster number	Poster symposia number (see page 3-6)	
		Catalytic processes in petroleum refining – general
1.01_1002		**The butane to BTX- fraction conversion on the zirconium-zink-zeolite catalysts** D. Tagiyev, S. Agayeva, S. Abasov, R. Starikov, Institute of Petrochemical Processes, Baku/AZ
1.01_1014	PS.23	**Periodic trends in the selective hydrogenation of styrene by model metallic catalysts** F. Corvaisier, IFP Energies Nouvelles, Solaize and Ircelyon, Villeurbanne/F; T. Serres, D. Farrusseng, Y. Schuurman, Ircelyon, Villeurbanne/F; A. Fecant, C. Thomazeau, P. Raybaud, IFP Energies Nouvelles, Solaize/F
1.01_1032	PS.02	**Oxidative dehydrogenation of ethane to ethylene over V_2O_5/SnO_2 catalysts** A. Sri Hari Kumar, P.S. Sai Prasad, N. Lingaiah, Indian Institute of Chemical Technology, Hyderabad/IND; A. Qiao, V.N. Kalevaru, A. Martin, Leibniz-Institut für Katalyse e.V., Rostock/D; A. Alshammari, King Abdulaziz City for Science and Technology, Riyadh/SAR; Ch. Sailu, Osmania University, Hyderabad/IND
1.01_1042		***Operando* characterisation by DRX-DRIFT-GC of cobalt catalysts during the Fischer Tropsch synthesis** L. Braconnier, IFPEN, Lyon and Ircelyon, Villeurbanne/F; L. Dreibine, Ircelyon, Villeurbanne/F; C. Legens, I. Clemençon, F. Diehl, IFPEN, Lyon/F; Y. Schuurman, Ircelyon, Villeurbanne/F
1.01_1081		**An innovative ex-situ presulfurization technology for hydrotreating catalyst and process** Y. Gao, X. Fang, Fushun Research Institute of Petroleum and Petrochemicals/PRC
1.01_1106		**Driving force and switching mechanism of oscillatory coke movement in the deactivated HZSM-5 during the aging** K.I. Patrylak, L.K. Patrylak, S.V. Konovalov, M.V. Okhrimenko, V.V. Ivanenko, Yu.G. Voloshyna, Institute of Bioorganic Chemistry and Petrochemistry of the NAS, Kyiv/UA
1.01_1116		**How organic additives affect preparation and properties of Ni/Al_2O_3 catalysts for selective hydrogenation of dienes** F. Bentaleb, E. Marceau, M. Che, CNRS-Université P. et M. Curie, Paris/F; F. Bentaleb, A.C. Dubreuil, C. Thomazeau, IFP Energies Nouvelles, Solaize/F
1.01_1127	PS.43	**The order-in-disorder in catalyst: an atomic-scale study** Y. Zhu, Q. Wang, L. Zhao, Y. Han, King Abdullah University of Science and Technology (KAUST), Thuwal/SAR
1.01_1182		**Direct oxidation ethane to ethylene oxide over AgNiYO catalysts** G. Jing, H. Yiming, W. Ying, W. Tinghua, Zhejiang Normal University, Jinhua/PRC
1.01_1209	PS.44	**Spectroscopic investigation of methane activation over Co-ZSM-5 and Co-ZSM-5/ZrO_2** M.C. Kung, H.H. Kung, S.S. Lin, D. Haag, N. Mashayekhi, Northwestern University, Evanston, IL/USA
1.01_1228		**The study on the modification of the silver catalyst carriers by adding barium** Q. Lin, X.F. Li, J.B. Li, J.S. Chen, Z.X. Zhang, D.M. Ren, Beijing Research Institute of Chemical Industry Yanshan Branch-SINOPEC/PRC
1.01_1251	PS.22	**Metathesis reaction of 1-butene and isobutene over Mo-based heterogeneous catalysts: a novel route to produce propene and isopentene** D. Zhang, X. Li, S. Liu, X. Zhu, L. Xu, Dalian Institute of Chemical Physics/PRC

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Poster number	Poster symposia number (see page 3-6)	
1.01_1280		**Synthesis and application of novel micro-mesoporous composites in gasoline hydrotreatment** A. Duan, H. Fan, H. Li, H. Wu, Z. Zhao, Z. Wang, China University of Petroleum, Beijing/PRC
1.01_1351		**A rejuvenated chromatographic method for zeolite diffusivity** J. Guo, Y. Li, Y. Huang, D. Wang, Y. Wang, Tsinghua University, Beijing/PRC
1.01_1446		**Preparation of $Mg(Zn)AlO_x/Al_2O_3$ as a support for Pt-containing catalysts of propane dehydrogenation** O.B. Belskaya, M.O. Kazakov, N.N. Leont'eva, T.I. Gulyaeva, L.N. Stepanova, Institute of Hydrocarbons Processing of SB of RAS, Omsk/RUS; V.I. Zaikovskii, A.N. Salanov, Boreskov Institute of Catalysis of SB of RAS, Novosibirsk/RUS; V.A. Likholobov, Institute of Hydrocarbons Processing of SB of RAS, Omsk/RUS
1.01_1462		**Oxidative conversion of methane into acetylene over Ca, Mg and Li cations containing clinoptilolite catalyst** F.V. Aliyev, A.M. Aliyev, K.I. Matiyev, M.F. Nagiyev Institute of Chemical Problems of the NAS of Azerbaijan, Baku/AZ; M. Al-Dosari, King Abdul Aziz City of Sciences and Technology, Riyadh/SAR
1.01_1475		**Hydroconversion of alkanes over sulphated zirconia supported Mo_2C catalysts** A. Galadima, R.P.K. Wells, J.A. Anderson, University of Aberdeen/UK
1.01_1508		**Selective oxidative dehydrogenation of cyclohexane into 1,3-cyclohexadiene over CuZnCoCr-clinoptilolite catalyst** A. Aliyev, Z.A. Shabanova, U.M. Nadjaf-Guliyev, U.A. Mamedova, R.Yu. Agayeva, M.F. Nagiyev Institute of Chemical Problems of the NAS of Azerbaijan, Baku/AZ
1.01_1573		**Synthesis and characterization of zeolites embedded in mesoporous molecular sieves** H. Österholm, Neste Oil, Porvoo/FIN; N. Kumar, Åbo Akademi University, Turku/FIN; M. Lindblad, M. Tiitta, Neste Oil, Porvoo/FIN; D. Murzin, Åbo Akademi University, Turku/FIN
1.01_1602		**Direct methane reforming: activity of iron-alumina based catalyst with city gas** K. Kawai, H. Ogasawara, N. Okazaki, Kitami Institute of Technology/J
1.01_1603		**Direct methane reforming: investigation of pilot reaction conditions with a focus on generating high-quality CNT** Y. Abe, N. Okazaki, Kitami Institute of Technology/J
1.01_1678		**A novel Zn/HY(USY) FCC catalyst for dehydroaromatization of LPG and reduced CO_x effluent** A. Bazyari, A.A. Khodadadi, Y. Mortazavi, M.H. Malekian, S.M. Hosseini Davarani, Sh. Meshkat Alsadat, University of Tehran/IR
1.01_1704	PS.01	**Adding ammonia during Fischer-Tropsch synthesis: pathway to product formation** C. de Vries, University of Cape Town/ZA; M. Petersen, Sasol Technology (Pty) Ltd., Sasolburg/ZA; M. Claeys, University of Cape Town/ZA
1.01_1782		**Magnetic composites based on Ni and NiMo – carbon nanostructures** R.V. Mambrini, M.H. Araujo, F.C.C. Moura, Universidade Federal de Minas Gerais, Belo Horizonte/BR

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Poster number	Poster symposia number (see page 3-6)	
1.01_1824		**Newest evolution of the temporal analysis of products reactor system: TAP-3E combining catalyst synthesis with kinetic characterization** J. Gleaves, Washington University, Saint Louis, MO/USA; R. Fushimi, The Langmuir Research Institute, Saint Louis, MO/USA; G. Yablonsky, Saint Louis University, MO/USA; E. Redekop, V. Galvita, G. Marin, University of Ghent/B; M. Harold, University of Houston, TX/USA
1.01_1882		***Ab initio* investigation of the anion exchange and thermal decomposition intermediates of hydrotalcites** D.G. Costa, Universidade Federal de Juiz de Fora/BR; A.B. Rocha, Universidade Federal do Rio de Janeiro/BR; S.S.X. Chiaro, W.F. Souza, CENPES/Petrobras, Rio de Janeiro/BR; A.A. Leitão, Universidade Federal de Juiz de Fora/BR
1.01_2016		**Ethylene oxychlorination catalysis: role of promoters and supports on the functioning of copper chloride catalyst** N.B. Muddada, U. Olsbye, University of Oslo/N; C. Lamberti, University of Turin/I; T. Fugleurd, INEOS Technologies, Porsgrunn/N
1.01_2085		**Engineering technology: recovery, purification, and regeneration of metal catalysts via hydrazine** T. Hemben, University of Phoenix, Detroit, MI/USA
1.01_6613		**Modification of the bifunctional (metal-acid) properties of $MoO_{2-x}(OH)y$ by the alkali metals addition. Catalytic – Xps-Ups and Iss correlation study** H. Al-Kandari, Public Authority of Applied Education and Training, Kuwait City/KWT; A.M. Mohamed, F. Al-Kharafi, A. Katrib, Kuwait University/KWT
1.01_6621		**Role of tin on catalytic properties of Pt-Re-S/Al_2O_3-Cl for naphtha reforming process; activity, selectivity and RON** F. Elfghi, Libyan Petroleum Institute, LPI, Trpoli/LAR; N.A.S. Amin, Universiti Technologi Malaysia, Johor Bahru/MAL
1.01_6625	PS.12	**Concept of interlayer dynamics of the active sites of the TMS catalysts under HDS conditions** V. Kogan, Zelinsky Institute of Organic Chemistry, Moscow/RUS; P. Nikulshin, Samara State Technical University/RUS
1.01_6644		**Preparation of Sn-Pt/Al2O3 dehydrogenation catalyst: an equilibrium and kinetic study on platinum adsorption** M. Takht Ravanchi, S. Sahebdelfar, Sh. Mehrazma, A. Abedini, Petrochemical Research and Technology Co., Tehran/IR
1.01_6655		**Hydroisomerization of n-heptane on the bifunctional $MoO_{2-x}(OH)_y$ catalyst** S. Al-Kandari, Kuwait University, Kuwait City/KWT; H. Al-Kandari, Public Authority of Applied Education and Training, Kuwait City/KWT; F. Al-Kharafi, A. Katrib, Kuwait University, Kuwait City/KWT
1.01_6676		**Ultrastable pyrolysis gasoline hydrorefining nanocatalyst via controlling active components on proper nanosubstrates** J. Zhu, Y. Cheng, K. Tang, L. Wang, S. Li, W. Yang, Shanghai Research Institute of Petrochemical Technology-SINOPEC/PRC
1.01_6741		**Direct ethylene epoxidation by silver oxide** M.O. Ozbek, Technische Universiteit Eindhoven/NL; I. Onal, Middle East Technica University, Ankara/TR; R.A. van Santen, Technische Universiteit Eindhoven/NL
1.01_6754	PS.31	**Thermal and composition effects on the structure and dynamics of Pt_nSn_m/g-Al_2O_3 from *ab initio* molecular dynamics and X-ray absorption spectra** S. Bare, S. Kelly, UOP – A Honeywell Company, Des Plaines, IL/USA; F. Vila, J. Rehr, University of Washington, Seattle, WA/USA

Poster number	Poster symposia number (see page 3-6)	
1.01_6832		**γ-alumina surface on the formation and properties of platinum sites in Pt/Al_2O_3 catalysts** R.M. Mironenko, O.B. Belskaya, V.A. Likholobov, Institute of Hydrocarbons Processing of SB of RAS, Omsk/RUS
1.01_6875		**Detection of coke loading on fixed bed catalyst by a contactless microwave-based method** P. Fremerey, D. Rauch, R. Moos, A. Jess, University of Bayreuth/D
1.01_6928		**The selective heterogeneous hydrogenation of an alkene/aldehyde mixture** T. Chetty, H.B. Friedrich, University of Kwazulu Natal, Durban/ZA
1.01_6930		**Oxidative dehydrogenation of *n*-octane using V_2O_5 supported hydroxyapatite** V.D.B.C. Dasireddy, S. Singh, H.B. Friedrich, University of Kwa-Zulu Natal, Durban/ZA
1.01_6965		**Surface science of vinyl acetate synthesis on Au-Pd** M. Bowker, J. Counsell, C. Morgan, L. Gilbert, C. Morton, Cardiff University/UK
1.01_6969		**Oxidative dehydrogenation of 4-vinilcyclohexene and ethyl benzene in the presence of metal-containing zeolite catalysts modified by carbonaceous material in the moment of formation** K.M. Alimardanov, A.A. Aliyeva, S.I. Abasov, Institute of Petrochemical Processes of the NAS of Azerbaijan, Baku/AZ
1.01_7043		**Improvement of the initial selectivity of a silver catalyst by leaching the carrier with alkali and acid** X.F. Li, J.B. Li, J.S. Chen, Z.X. Zhang, Beijing Research Institute of Chemical Industry Yanshan Branch-SINOPEC/PRC
1.01_7069		**Synthesis, characterization and evaluation of SOx removal catalysis for reduction at low temperature** Z.P. Huo, X.Y. Xu, J.C. Kong, J.Q. Song, Beijing University of Chemical Technology/PRC; M.Y. He, East China Normal University, Shanghai/PRC; Q. Wang, L.J. Yan, Y. Li, Petrochemical Research Institute of Petrochina, Beijing/PRC
1.01_7107		**New approaches to the synthesis of platinum catalysts for transformation of hydrocarbons** V.A. Likholobov, O.B. Belskaya, Institute of Hydrocarbons Processing of SB of RAS, Omsk/RUS
1.01_7121		**The catalytic behaviour of M1, M2 and M1/M2 phases derived from MoVTeNb oxide in propane and propene oxidation to acrolein** H. Atia, U. Armbruster, Leibniz Institute for Catalysis, Rostock/D; J. Thomas, H. Kosslick, A. Schulz, University of Rostock/D; A. Fischer, Evonik Industries AG, Hanau/D; A. Martin, Leibniz Institute for Catalysis, Rostock/D
1.01_7178		**Pd/carbon-based catalysts for the Suzuki reaction: influence of the textural and acido-basic properties** M.J. Jacquemin, D. Hauwaert, E.M. Gaigneaux, Université catholique de Louvain (UCL), Louvain-la-Neuve/B
1.01_7310		**Structured catalysts for hydrogenation and ring opening** A. Chhabra, J.E. Samad, E. Cheng, J.A. Nychka, N.V. Semagina, University of Alberta, Edmonton/CDN
1.01_7334		**Characterization of trimetallic catalysts Sn- or Ge- PtIr prepared by grafting – catalytic performance in MCP transformation** C. Poupin, L. Pirault-Roy, University of Poitiers/F; M. Chamam, A. Wootsch, Z. Paal, Institute of Isotope and Surface Chemistry, Budapest/H

Poster number	Poster symposia number (see page 3-6)	
1.01_7354		**Direct effect of ceria morphology on styrene production from ethylbenzene** M. Kovacevic, B.L. Mojet, L. Lefferts, University of Twente, Enschede/NL
1.01_7478		**Ionothermal synthesis of hierarchical aluminophosphate molecular sieves** H. Liu, L. Wang, H.J. Ma, B.C. Wang, R.S. Xu, X.W. Xie, D.W. Li, K.D. Li, Y.P. Xu, Z.J. Tian, L.W. Lin, Dalian Institute of Chemical Physics/PRC
1.01_7484		**Dual Function of CeZr in propane dehydrogenation: enhancement of catalytic stability and decease in oxidation temperature of coke** B.K. Vu, E.W. Shin, University of Ulsan/ROK
1.01_7538	PS.02	**Oxidative activation of *n*-octane over carbon nanotube supported nickel molybdate catalysts** H.B. Friedrich, S. Sewsunker, University of KwaZulu-Natal, Durban/ZA
1.01_7571	PS.21	**The unique structure of ITQ-39 zeolite and its exceptional catalytic properties for converting naphta into diesel fuel** M. Moliner, J. Gonzalez, C. Martinez, F. Rey, A. Corma, Instituto de Tecnologia Quimica (UPV-CSIC), Valencia/E; T. Willhammar, J. Sun, W. Wan, P. Oleynikov, D. Zhang, X. Zou, Berzelii Centre EXSELENT, Stockholm/S
1.01_7577		**Dehydrogenation of propane in the presence of carbon dioxide over supported chromium and gallium oxides** Y.A. Agafonov, N.A. Gaidai, N.D.Zelinsky Institute of Organic Chemistry RAS, Moscow/RUS; M.A. Botavina, University of Turin/I; N.V. Nekrasov, A.L. Lapidus, N.D.Zelinsky Institute of Organic Chemistry RAS, Moscow/RUS; G. Martra, University of Turin/I
1.01_7612	PS.14	**H-SAPO-5 as model catalyst for methanol conversion: does a lower acid strength shift the alkene formation mechanism?** M. Westgård Erichsen, U. Olsbye, University of Oslo/N
1.01_7645		**Clay matrix coated by carbon filaments produced by chemical vapor deposition with ethanol** R.V. Mambrini, A.L. Masseo, M.H. Araujo, F.C.C. Moura, Universidade Federal de Minas Gerais, Belo Horizonte/BR
1.01_7680		**Catalytic reforming of associated petroleum gas for power plant feeding applications** P. Snytnikov, Boreskov Institute of Catalysis, Novosibirsk/RUS; M. Zyryanova, UNICAT Ltd., Novosibirsk/RUS; Yu. Amosov, V. Belyaev, V. Kireenkov, N. Kuzin, Boreskov Institute of Catalysis, Novosibirsk/RUS; V. Kirillov, UNICAT Ltd., Novosibirsk/RUS; V. Sobyanin, Novosibirsk State University, Novosibirsk/RUS
1.01_7687		**Transformation of liquid hydrocarbons under highly selective microwave heating of heterogeneous catalysts and sorbents** Y. Tanashev, E. Udalov, V. Bolotov, P. Dick, V. Parmon, Boreskov Institute of Catalysis SB RAS, Novosibirsk/RUS; Y. Chernousov, Institute of Chemical Kinetics and Combustion SB RAS, Novosibirsk/RUS
1.01_7698		**MoVTeNbO containing mixed metal oxide catalysts for the activation of *n*-octane** T. Makatini, H. Friedrich, University of KwaZulu-Natal, Durban/ZA
1.01_7766	PS.04	**Highly stable and reusable multimodal zeolite TS-1 based aatalysts** L.H. Chen, X.Y. Li, X.Y. Yang, B.L. Su, University of Namur/B
1.01_7854		**The generation of Brønsted acid sites on Ta_2O_5/Al_2O_3 calcined at high temperature** T. Kitano, S. Okazaki, T. Shishido, K. Teramura, T. Tanaka, Kyoto University/J

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1.01_7873		**Unprecedented formation of stable atomic zinc species in MFI-type zeolite through the reaction with H_2 and recovery of the original state: completion of reversible redox cycle** H.T. Torigoe, A.O. Oda, A.I. Itadani, T.O. Ohkubo, Y.K. Kuroda, Okayama University/J; T.Y. Yumura, H.K. Kobayashi, Kyoto Institute of Technology/J
1.01_7938		**On the apparent and intrinsic structure sensitivities of hydrogenolytic C-C bond cleavages of C_6-naphthenics over supported Ir clusters** H. Shi, O.Y. Gutiérrez, J.A. Lercher, TU München/D
1.01_8007		**Controlling Fischer-Tropsch product distribution by shape selectivity: Co/SBA-15 catalysts** M. Bartolini, J. Alvarez, M. Goldwasser, Central University of Venezuela, Caracas/YV; P. Pereira-Almao, University of Calgary/CDN; C.M. Lopez, Central University of Venezuela, Caracas/YV; M.J. Perez-Zurita, University of Calgary/CDN
1.01_8029		**Accessibility studies of hierarchic zeolites with different probe molecules** K. Góra-Marek, K. Sadowska, P. Kustrowski, J. Datka, Jagiellonian Univeristy, Cracow/PL
1.01_8038	PS.36	**Stability of Al in the framework of ZSM-5. Multi-spectroscopic study of the formation of framework Lewis acid sites** J. Dedecek, B. Wichterlova, Z. Tvaruzkova, Z. Sobalik, H. Jirglova, M. Urbanova, J. Heyrovsky Institute of Physical Chemistry of ASCR, Prague/CZ
1.01_8054		**C-C bond cleavage in hydrocarbons: mechanism, selectivity and site requirements** D.W. Flaherty, E. Iglesia, University of California at Berkeley, CA/USA
1.01_8095		**Consequence of the revers reaction in HDS** T. Ollar, T. Szarvas, P. Tétényi, Institute of Isotopes, Budapest/H
1.01_8134		**Effect of the reduction step on the performance of Ge-Pt-Re/Al_2O_3 catalysts in n-octane reforming** K.C.S. Conceição, M.C. Rangel, Universidade Federal da Bahia, Salvador/BR; L.S. Carvalho, Instituto Federal da Bahia, Salvador/BR; V.A. Mazzieri, J.M. Grau, C.L. Pieck, Instituto de Investigaciones en Catálisis y Petroquímica, Santa Fe/RA; J.L.G. Fierro, Instituto de Catálisis y Petroleoquímica, Madird/E
1.01_8139	PS.21	**Crucial role of volume of zeolite cavity for selective production of propylene from lower olefins** Y. Iwase, T. Koyama, H. Munakata, A. Miyaji, K. Motokura, T. Baba, Tokyo Institute of Technology, Yokohama/J

Catalytic cracking, hydrocracking and isomerization

1.02_1133		**Isomerization of 1-butene on Ni/MCM-41 and Ni/AlMCM-41: synthesis and characterization** L. Alvarado Perea, T. Wolff, MPI for Dynamics of Complex Technical Systems, Magdeburg/D; C. Hamel, University of Magdeburg/D; A. Seidel-Morgenstern, MPI for Dynamics of Complex Technical Systems, Magdeburg/D
1.02_1238		**Synthesis of SAPO-11 with enhanced acidity using a two-step crystallization method** L. Guo, Y. Fan, X. Bao, China University of Petroleum, Beijing/PRC
1.02_1240		**Zeolite-based composite materials with hirarchical micro-meso-macro-porous structure prepared without using aluminum- and silicon-containing** T. Li, H. Liu, X. Bao, China University of Petroleum, Beijing/PRC

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1.02_1299		**Effects of metal precursor and loading on hydroconversion of n-dodecane over sulfided NiMo/Al_2O_3-Y zeolite catalysts** H.F. Fan, X.C. Fang, X.Y. Sun, Fushun Research Institute of Petroleum and Petrochemicals/PRC; C. Liang, T. Cai, Dalian University of Technology/PRC
1.02_1344		**Butanol dehydration over tungsten oxide/MCM-41 catalysts** J. Jeon, Kongju National University, Cheonan/ROK; S. Jeong, D.H. Kim, Seoul National University/ROK; Y.K. Park, University of Seoul/ROK
1.02_1481		**High catalytic stability of nanosized ZSM-5 zeolite with intracrystalline mesopore** Z. Xue, J. Ma, H. Miao, T. Zhang, R. Li, Taiyuan University of Technology/PRC
1.02_1485		**Synthesis of nanostructured catalysts by metal vapor – method to convert alkenes under mild conditions** V. Akhmedov, A. Aliyev, Institute of Chemical Problems, Baku/AZ; A. Bagabas, S. Al-Khowaiter, King Abdulaziz City for Science and Technology, Riyadh/SAR
1.02_1509	PS.21	**Investigating the role of acidity and carbon deposition in catalytic hydrocarbon transformations** W. Wang, L. McMillan, S.G. Sanz, J. McGregor, L.F. Gladden, University of Cambridge/UK
1.02_1516		**Understanding the nature and role of carbonaceous overlayers in the conversion of hydrocarbons through chemical and microscopic techniques** L. McMillan, S. Gomez-Sanz, M. Mediero-Munoyerro, P.A. Midgley, L.F. Gladden, University of Cambridge/UK; S. Al-Khattaf, King Fahd University of Petroleum and Minerals, Dhahran/SAR; J. McGregor, University of Cambridge/UK
1.02_1538	PS.13	**Mechanism of alkane transformation over zeolite containing Fischer-Tropsch catalysts** O.N. Protasov, D.A. Grigoryev, M.N. Mikhailov, United Research and Development Centre, Moscow/RUS
1.02_1576		**An experimental and computational study of the partial oxidation of alkanes over palladium** M. Bonanni, R.P. Lindstedt, Imperial College London/UK
1.02_1671		**Hydrocracking of vacuum residue with mesoporous NiMo catalysts** H. Puron, A. Sivena, J.L. Pinilla, Imperial College London/UK; A. Montoya, Instituto Mexicano del Petroleo, Mexico City/MEX; M. Millan, Imperial College London/UK
1.02_1673		**Catalytic steam cracking of anthracene using nickel based catalysts** J.L. Pinilla, A.R. Mohamad Daud, H. Puron, P. Arcelus-Arrillaga, M. Millan, K. Hellgardt, Imperial College London/UK
1.02_1683		**Improvement of the low temperature behaviour of diesel fuel components – a kinetic study of n-hexadecane hydroisomerisation** M. Endisch, K. Ficht, T. Kuchling, S. Kureti, TU Bergakademie Freiberg/D
1.02_1703		**Switching between hydrogenolysis and bifunctional hydrocracking on an unsulfided Co/MoO_3/SiO_2-Al_2O_3 catalyst** H. Robota, J. Alger, University of Dayton Research Institute, OH/USA
1.02_1760	PS.21	**Effect of high temperature pre-treatments on hydrocarbon reactions over acid zeolites** J.H. Yun, R.F. Lobo, University of Delaware, Newark, DE/USA
1.02_1763		**Characterization of Ga-WO_x/CeO_2 catalysts and their reactivity in hexane isomerization** M. Florea, F. Neatu, V.I. Parvulescu, University of Bucharest/RO

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1.02_1875		**The effect of bimetallic promoters on the activity and regeneration ability of zeolites during JP-8 cracking** K. Yang, J. Bedenbaugh, H. Li, M. Peralta, K. Bunn, J. Lauterbach, J. Hattrick-Simpers, University of South Carolina, Columbia, SC/USA
1.02_1975	PS.25	**Effect of Al contents on hydrocracking of *n*-paraffin over Pt/SiO_2-Al_2O_3** Y.-A. Kim, M.Y. Kim, Ajou University, Suwon/ROK; K.-E. Jeong, H.-J. Chae, C.-U. Kim, S.-Y. Jeong, Korea Research Institute of Chemical Technology, Daejeon/ROK; J. Han, Agency for Defense Development, Daejeon/ROK; E.D. Park, Ajou University, Suwon/ROK
1.02_2037		**Cumene cracking activity and regeneration of nanostructured $LaMO_3$ perovskite-HY zeolite FCC catalysts** N. Hosseinpour, A.A. Khodadadi, Y. Mortazavi, University of Tehran/IR
1.02_2094	PS.22	**Mechanism of the isomerisation and metathesis of alkanes over mixed binuclear complexes of aluminum and cobalt halides** M.I. Shilina, I.P. Gloriozov, G.M. Zhidomirov, M.V. Lomonosov Moscow State University/RUS
1.02_2110		**Skeletal isomerization of 1-pentene on ZSM-22/23 intergrowth zeolite** H. Ma, B. Wang, W. Qu, L. Wang, Z. Tian, Dalian Institute of Chemical Physics/PRC
1.02_6604		**Synthesis, characterisation and activity of hydroisomerisation catalyst** U. Ray Chaudhuri, A. Dhar, D. Ghosh, University of Calcutta/IND
1.02_6611		**Efficient hydroisomerization of C5-C7 alkanes and dehydrogenation of methyl-cyclohexane to toluene using $MO_{2-x}(OH)_y$ (M=Mo,W) deposited on TiO_2 bifunctional catalysts** H. Al-Kandari, Public Authority of Applied Education and Training, Kuwait City/KWT; F. Al-Kharafi, A. Katrib, Kuwait University/KWT
1.02_6626		**Catalytic and adsorption properties of mordenite-zirconia catalysts for low temperature n-butane conversion** D. Tagiyev, Azerbaijan Medical University, Baku/AZ; S. Abasov, R. Starikov, Institute of Petrochemical Processes, Baku/AZ
1.02_6833	PS.43	**3D-imaging and quantification study of Pt/zeolite Y catalyst using electron tomography and image analysis** J. Zecevic, H. Friedrich, P.E. de Jongh, K.P. de Jong, Utrecht University/NL
1.02_6896		**C-C bond cleavage in alkanes catalyzed by a tantalum hydride supported on MCM-41** V. Polshettiwar, F.A. Pasha, J.-M. Basset, KAUST, Thuwal/SAR; J. Thivolle-Cazat, CNRS, Villeurbanne/F
1.02_6939		**Activation of alkanes by gold modified lanthanum oxide** J. Sa, M. Ace, Queen's University Belfast/UK; J.J. Delgado, Universidad de Cadiz/E; A. Goguet, C. Hardacre, K. Morgan, Queen's University Belfast/UK
1.02_6982		**High-temperature synthesis of ordered mesoporous materials assembled from pre-formed ZSM-5 precursors by pH control** H. Vu, U. Armbruster, A. Martin, Leibniz-Institut für Katalyse e.V. an der Universität Rostock (LIKAT)/D
1.02_6995	PS.13	**Production of middle distillates by low temperature Fischer Tropsch process: potential impact of oxygenate compounds on a hydrocracking catalyst** A.S. Guedes, C. Fontaine, University of Poitiers/F; C. Bouchy, IFP Energy nouvelles, Lyon/F; S. Brunet, University of Poitiers/F

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1.02_7045		**Factors influencing the initial selectivity of n-butenes skeletal isomerization into isobutene over ferrierite zeolites** F. Zhou, M. Chen, S. Zhang, K. Qiao, Fushun Research Institute of Petroleum and Petrochemicals-SINOPEC/PRC
1.02_7112		**Isomerization of *n*-decane on mesoporous catalyst systems – A parameter study using design of experiments** A. Rüfer, W. Reschetilowski, TU Dresden/D
1.02_7156		**Catalysts based on mesoporous aluminosilicates for the hydroisodeparaffinization of diesel fractions** A.L. Maximov, S.V. Lysenko, V.A. Ostroumova, S.V. Baranova, Lomonosov Moscow State University and Topchiev Institute of Petrochemical Synthesis/RUS; A.B. Kulikov, Topchiev Institute of Petrochemical Synthesis, Moscow/RUS; S.V. Kardashev, S.I. Shirokopoyas, E.A. Karakhanov, Lomonosov Moscow State University/RUS
1.02_7170		**Influence of reactant components on their catalytic cracking** Y. Ji, Beijing Research Institute of Chemical Industry-SINOPEC/PRC
1.02_7253		**Ionic liquid thin film technologies for catalysis** P. Wasserscheid, Universität Erlangen-Nürnberg/D; M. Haumann, University of Erlangen-Nürnberg – Campus Busan/ROK
1.02_7279	PS.21	**Impact of entropic contributions on the selectivity of alkane cracking** L. Lin, E. Ember, J.A. Lercher, TU München, Garching/D
1.02_7286	PS.15	**Atomic-scale characterization of single-layer nanoclusters in a WS_2 model catalyst** H.G. Füchtbauer, A.K. Tuxen, J.V. Lauritsen, F. Besenbacher, Aarhus University/DK; M. Grubb, K.G. Knudsen, H. Topsøe, Haldor Topsøe A/S, Kongens Lyngby/DK
1.02_7299	PS.40	**Applying terahertz spectroscopy techniques for the characterisation of coke deposits on catalysts** S. Gomez Sanz, J.A. Zeitler, L. McMillan, L.F. Gladden, University of Cambridge/UK; S. Al-Khattaf, King Fahd University of Petroleum and Minerals, Dhahran/SAR; J. McGregor, University of Cambridge/UK
1.02_7360	PS.21	**Effects of Si/Al ratio and product concentrations on monomolecular cracking and dehydrogenation reactions of n-butane on H-MFI** A. Janda, A.T. Bell, University of California, Berkeley, CA/USA
1.02_7368		**Optimization of chemical composition of Pt/B_2O_3-Al_2O_3 catalyst for benzene-heptane hydroisomerization** E.D. Fedorova, M.O. Kazakov, A.V. Lavrenov, K.S. Buyalskaya, Institute of Hydrocarbons Processing SB RAS, Omsk/RUS
1.02_7418		**High throughput investigation of zeolite based catalytic materials for JP-8 fuel cracking reaction** J.E. Bedenbaugh, University of Delaware, Newark, DE/USA; S. Kim, S. Salim, A. Jangam, J. Lauterbach, University of South Carolina, Columbia, SC/USA
1.02_7500	PS.25	**Hydrocracking under Fischer-Tropsch conditions** R. Brosius, C. Ndimande, S. Roberts, W. Boehringer, J. Fletcher, University of Cape Town, Rondebosch/ZA
1.02_7535		**The effection of different cotent of AL-SBA-15/Y composite zeolite to hydrocrackong performance of sulfided catalysts** J.F. Wang, X.Y. Sun, J.J. Zhu, X.M. Li, J.J. Yang, H.F. Fan, Fushun Research Institute of Petroleum and Petrochemicals-SINOPEC/PRC

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1.02_7627	PS.21	**Production of light olefins from n-hexane cracking over MFI zeolites with nano- and macro-crystal sizes** T. Tago, H. Konno, T. Okamura, Y. Nakasaka, T. Masuda, Hokkaido University, Sapporo/J
1.02_7667		**Solvent effects on the slurry phase hydrocracking of vacuum residue** S.H. Kim, Dankook University, Yongin/ROK; H.R. Seo, J.H. Koh, D.W. Kim, S.H. Oh, SK Innovation, Daejeon/ROK; Y.K. Lee, Dankook University, Yongin/ROK
1.02_7902		**Comparsion of three strategies of mediation mesopore into MFI zeolite in n-hexane catalytic cracking** X.L. Liu, Y. Wang, S. Hu, Y.S. Liu, Y.J. Gong, T. Dou, China University of Petroleum, Beijing/PRC
1.02_7933		**Investigation of performance of the FCC catalyst under periodic operation** Sh. Najafi, M.S. Aghakhani, A.A. Khodadadi, Y. Mortazavi, University of Tehran/IR
1.02_7935	PS.21	**Influence of the Aluminum-content of acid zeolites on the propene yields from catalytic cracking of *n*-octane** F. Bager, N. Salas, S. Ernst, University of Kaiserslautern (TU)/D
1.02_7972		**Hydrocracking of Polyaromatic Hydrocarbon into BTX over Ni_2P/Zeolite Catalyst** K.N Yun, Y.K Lee, Dankook University, Yongin/ROK
1.02_7984	PS.25	**New insights into the hydroisomerisation reaction mechanism** N. Batalha, F. Lemos, TU Lisbon/P; L. Pinard, A. Le Valant, J.-L. Lemberton, Y. Pouilloux, University of Poitiers/F
1.02_8152	PS.25	**Effects of zeolite crystal thickness and platinum location for *n*-heptane hydroisomerization over Pt/MFI zeolite nanosheet** J. Kim, W. Kim, R. Ryoo, Korea Advanced Institute of Science and Technology, Daejeon/ROK
1.02_8158		**Engineering principles applied to hydrocracking catalyst evaluation** P. Imhof, N. van der Puil, R. Moonen, Avantium, Amsterdam/NL

Clean fuels, hydrotreating, hydrodesulfurization, hydrodenitrogenation

1.03_1031	PS.34	**Mo_2C/Al_2O_3 as catalyst for the hydrotreating of sunflower oil** V. Teixeira da Silva, L. Sousa, Federal University of Rio de Janeiro/BR
1.03_1082	PS.05	**Nickel silicides: an alternative and high sulfur resistant catalyst for hydrodesulfurisation** X. Chen, M. Li, C. Liang, Dalian University of Technology/PRC
1.03_1201	PS.12	**Deep hydrodesulfurization of gasoline and gas oils cuts: reactivity modification due to the presence of oxygenated compounds in the feed** F. Pelardy, M. Philippe, C. Fontaine, F. Richard, Poitiers University/F; A. Daudin, E. Devers, D. Hudebine, P. Raybaud, IFPEN, Solaize/F; S. Brunet, Poitiers University/F
1.03_1204		**Octane enhancer for reformulated gasoline produced from light olefin over supported sulphuric acid catalyst on zeolite-Y** M.C. Al-Kinany, H.A. Al -Megren, S.A. Aldrees, F.A. Al-Shihri, A.S. Al-Shammari, E.A. Alghilan, A.S. Al-Hamdan, S.A. Al-Fantoukh, King Abdulaziz City for Science and Technology (KACST), Riyadh/SAR

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1.03_1222	PS.05	**Hydrodesulfurization and hydrodenitrogenation of Coker light gas oil over SBA-15 supported nickel phosphide catalysts** K. Soni, P. Boahene, A. Dalai, University of Saskatchewan, Saskatoon/CDN; J. Adjaye, Syncrude Edmonton Research Centre/CDN
1.03_1239		**A novel strategy to fabricate alumina-supported Mo-based catalysts with enhanced hydrodesulfurization performance** W. Han, P. Yuan, X. Bao, China University of Petroleum, Beijing/PRC
1.03_1243	PS.05	**Catalytic study of iron-molybdenum phosphide supported on alumina for the hydrodesulphurization of thiophene** A. Chirinos Perez, J.D. Araujo Rivas, Francisco of Miranda University, Punto Fijo/YV; J. Brito, Venezuelan Institute for Scientific Research, Caracas/YV
1.03_1286		**Preparation and characterization of $NiMoO_4$, $NiWO_4$ and NiMoW compounds** L. Zhang, H. Nie, Y.F. Bi, M.F. Li, D.D. Li, Research Institute of Petroleum Processing, Beijing/PRC
1.03_1294		**Catalytic performance and diffusion research of modified L zeolite for FCC gasoline hydrodesulfurization** T. Li, A. Duan, Z. Zhao, G. Jiang, J. Liu, B. Liu, China University of Petroleum, Beijing/PRC
1.03_1314		**Synthesis of beta/KIT-6 composite zeolites and catalytic hydrodesulfurization of Diesel** A. Duan, Z. Zhao, G. Jiang, J. Liu, China University of Petroleum, Beijing/PRC
1.03_1322		**Recycling of waste alumina and catalyst fines produced in the catalyst manufacturing unit** K. Al-Dalama, R. Navvamani, H. Al-Sheeha, A. Stanislaus, Kuwait Institute for Scientific Research/KWT
1.03_1337		**Relation between alumina raw materials and the properties of extrudates used as support for hydroprocessing catalysts** K. Al-Dalama, R. Navvamani, H. Al-Sheeha, A. Stanislaus, Kuwait Institute for Scientific Research/KWT
1.03_1424		**Relationship between the electronic properties of sulfide phase and the surface properties of support** W. Chen, H. Nie, X. Long, D. Li, Research Institute of Petroleum Processing, Beijing/PRC; F. Maugé, J. van Gestel, J.-P. Gilson, Université de Caen/F
1.03_1457		**Reliability of HDS test trickle-bed reactor by CFD verification** V. Tukac, A. Prokesova, J. Hanika, Institute of Chemical Technology, Prague/CZ
1.03_1474		**Unsupported nickel-tungsten sulfides as catalysts for the hydrodearomatization processes** A.S. Vilesov, I.A. Sizova, A.L. Maximov, A.V. Topchiev Institute of Petrochemical Synthesis of the RAS, Moscow/RUS
1.03_1493		**In situ investigation of the thermal decomposition of ammonium tetra thiomolybdate in HVC micro reactor: a DRIFT study** G.E. Luckachan, N.D. Banu, M. Katsiotis, I. Banu, J. Whelan, A. Tharalekshmy, S. Stephen, S. Al Hassan, R. Vladea, The Petroleum Institute, Abu Dhabi/UAE

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1.03_1682		**A new preparation method of NiW/Al_2O_3 and CoW/Al_2O_3 HDS catalysts from ammonium paratungstate with the use of chelating agents** V. Pereyma, O. Klimov, Yu. Chesalov, I. Prosvirin, D. Kochubey, V. Zaikovskii, A. Noskov, Boreskov Institute of Catalysis SB RAS, Novosibirsk/RUS
1.03_1687		**Support-metal interaction effect on HDS activity for NiW catalyst supported on Al_2O_3/TiO_2 mixed oxides** V.A. Suarez-Toriello, J.A. De los Reyes, Autonomous Metropolitan University, Iztapalapa, Mexico DF/MEX; M. Vrinat, C. Geantet, IRCELyon, Villeurbanne/F; A. Guevara-Lara, University A E Hidalgo, Pachuca/MEX; B. Garcia-Pawelec, J.L.G. Fierro, ICP-CISC, Madrid/E
1.03_1751	PS.34	**Structure of Ni and Mo and their role in hydrotreating catalysts for deoxygenation of rapeseed oil** P. Priecel, L. Capek, University of Pardubice/CZ; D. Kubicka, Research Institute of Inorganic Chemistry, Litvínov/CZ
1.03_1789		**Optimisation of synthesis parameters for $NiW/GaAl_2O_3$ highly active hydrotreating catalysts** J.N. Diaz de Leon, Center for Nanoscience and Nanotechnology UNAM, Ensenada BC/MEX; L. Massin, M. Vrinat, IRCELyon, Villeurbanne/F; J.A. De los Reyes, Autonomous Metropolitan University, Iztapalapa, Mexico DF/MEX
1.03_1794		**Selective methanation of CO in CO_2-rich H_2 feeds: effect of calcination temperature on the catalyst selectivity** A.M. Abdel-Mageed, S. Eckle, University of Ulm/D; H.-G. Anfang, Süd-Chemie AG, Bruckmühl/D; R.J. Behm, University of Ulm/D
1.03_1802		**Key issues of selective adsorptive desulfurisation of fuel oils: adsorption mechanisms and catalytic reactions** Y. Qin, China University of Petroleum (East China), Dongying/PRC; X. Shao, W. Yu, S. Dong, Y. Wang, L. Song, Liaoning Shihua University, Fushun/PRC
1.03_1823		**Investigation of gas phase sulfidation of Co(Ni)Mo catalysts prepared with the use of Co_2Mo_{10}-heteropolyacid and Co (Ni) citrate** A.V. Mozhaev, P.A. Nikulshin, A.A. Pimerzin, Samara State Technical University/RUS
1.03_1834	PS.05	**Relationships between composition, morphology and catalytic properties in HDS, HYD, HDN and HDO of supported transition metal sulfides** P. Nikulshin, V. Salnikov, D. Ishutenko, Al. Pimerzin, V. Konovalov, A. Mozhaev, A. Pimerzin, Samara State Technical University/RUS
1.03_1856		**Simultaneous tetralin HDA and dibenzothiophene HDS reactions on unsupported Ni(Co)-$Mo_xW_{1-x}S_2$ catalysts obtained from mixed-oxides** Y.L. Fonseca, B. Fonseca, J.G. Eon, A.C. Faro Jr., Federal University of Rio de Janeiro – UFRJ/BR; L.A. Palacio, State University of Rio de Janeiro – UERJ/BR
1.03_1876		**Hydroconversion of tetralin on NiMoS supported on alumina, silica-alumina and alumina-USY zeolite: reaction scheme and kinetics** S.A.G. Ferraz, B.M. Santos, J.L. Zotin, Petrobras S.A., Rio de Janeiro/BR; F.M.Z. Zotin, L.R.R. Araujo, UERJ, Rio de Janeiro/BR

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1.03_2092	PS.05	**Hydrodesulfurisation of dibenzothiophene and its hydrogenated intermediates over bulk MoP** J. Bai, X. Li, A. Wang, Dalian University of Technology/PRC; R. Prins, The Swiss Federal Institute of Technology, Zurich/CH; Y. Wang, Dalian University of Technology/PRC
1.03_2101	PS.07	**Preparation of CoMo/ZrO_2 hydrodesulfurisation catalysts with assistance of complexing agent** L. Kaluza, M. Zdrazil, Z. Vit, D. Gulkova, Institute of Chemical Process Fundamentals of the ASCR, v.v.i., Prague/CZ
1.03_6622		**Polyoxometalates encapsulation into mesoporous materials – Application in ultra-clean fuels production** S. Silva, V. Dufaud, ENS, Lyon/F; F. Lefebvre, CPE, Lyon/F; A. Bonduelle, A. Chaumonnot, IFPEn, Lyon/F
1.03_6670		**Effect of iron precursors and supports to catalytic performance on iron-based Fischer-Tropsch catalysts** J.W. Bae, Sungkyunkwan University, Suwon/ROK; S.H. Kang, Institute for Advanced Engineering (IAE), Suwon/ROK; A.R. Kim, Sungkyunkwan University, Suwon/ROK; Y.D. Yoo, Institute for Advanced Engineering (IAE), Suwon/ROK
1.03_6674		**Study of tungsten carbide (W_2C) synthesis by guanidine route** L.F. Feitosa, V. Teixeira da Silva, Federal University of Rio de Janeiro/BR
1.03_6678		**The mechanism of formation of nickel phosphide from the thermal decomposition of sodium hypophosphite and nickel oxide** Q. Guan, W. Li, Nankai University, Tianjin/PRC
1.03_6680		**Atomically dispersed Co-O-Si complex oxide for the skeletal isomerization of 1-hexene and hydrodesulfurization of thiophene** Y. Zhao, Y.P. Zhao, G.X. Song, X.Y. Zhang, J.Y. Shen, Nanjing University/PRC
1.03_6771	PS.05	**Niobium carbide as catalyst for HDS** C.A. Chagas, V. Teixeira da Silva, Federal University of Rio de Janeiro/BR
1.03_6841		**Titanium dioxide with novel structures – New possibilities for catalytic applications** S. Grothe, M. Kretschmer, M. Schulte, Sachtleben Chemie GmbH, Duisburg/D
1.03_7066	PS.12	**Preparation of highly active gas oil HDS catalyst by modification of conventional oxidic precursor with 1,5-pentanediol** O. Chassard, Total Petrochemicals Research, Feluy/B; P. Blanchard, P. Baranek, C. Lancelot, E. Payen, UCCS, Villeneuve d'Ascq/F; S. Van Donk, J.P. Dath, M. Rebeilleau, Total Petrochemicals Research, Feluy/B
1.03_7074	PS.30	**Hydrodemetallation (HDM) of Ni-TPP over NiMo/γ-Al_2O_3 catalyst prepared by one-pot method with controlled precipitation of the components** J.J. Li, Z.Q. Xia, W.K. Lai, J.B. Zheng, X.D. Yi, W.P. Fang, Xiamen University/PRC
1.03_7140		**Refining virgin benzene gas condensate into high-octane gasoline through zeolite-containing catalysts** V.I. Erofeev, A.S. Medvedev, I.S. Khomjakov, Tomsk Polytechnic University/RUS; V.I. Snegirev, LLC „Tomskneftegasrefining" Ltd., Tomsk/RUS; V. Reshetilovski, Technical University, Dresden/D
1.03_7193	PS.43	**Industrial-style MoS_2-based hydrotreating catalysts studied by single-atom sensitive electron microscopy** L.P. Hansen, M. Brorson, H. Topsoe, S. Helveg, Haldor Topsoe A/S, Kgs. Lyngby/DK; B. Barton, C. Kisielowski, Lawrence Berkeley National Laboratory, CA/USA; Q.M. Ramasse, SuperSTEM Laboratory, Daresbury/UK; E. Johnson, Niels Bohr Institute, Copenhagen/DK

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1.03_7342		**On the deactivation of CoMo/γ-alumina-AgY sulphided catalyst during hydrodesulfurisation of thiophene** Y. Boukoberine, Ecole Military Polytechnic, Algiers/DZ; B. Hamada, University of Boumerdes/DZ
1.03_7373	PS.12	**HDS of DBT and HDA of tetralin on NiMo sulfides prepared from hydrotalcite-like layered double hydroxides** A.C. Faro, S. Arias, Y.L. Fonseca, Federal University of Rio de Janeiro – UFRJ/BR; L.A. Palacio, State University of Rio de Janeiro – UERJ/BR
1.03_7385		**Molybdenum/alumina-aluminium sponges manufactured by SDP and their use on thiophene hydrodesulfurisation** F.J. Méndez, S. Rivero-Prince, Venezuelan Institute for Scientific Research I.V.I.C., Caracas/YV; A. García, Central University of Venezuela U.C.V., Caracas/YV; Y. Villasana, Venezuelan Institute for Scientific Research I.V.I.C., Caracas/YV; C. Olivera, University Simón Bolívar U.S.B., Caracas/YV; J.L. Brito, Venezuelan Institute for Scientific Research I.V.I.C., Caracas/YV
1.03_7391	PS.12	**Novel trimetallic NiMoW/SBA-15 catalysts for deep hydrodesulfurisation** A. Mendoza Nieto, O. Vera Vallejo, T. Klimova, National Autonomous University of Mexico UNAM, Mexico City/MEX
1.03_7435		**Catalytic performances of alumina-supported FeW carbides and nitrides on thiophene hydrodesulfurisation** Y. Villasana, Venezuelan Institute for Scientific Research IVIC, Caracas/YV; F. Ruscio-Vanalesti, C. Pfaff, Central University of Venezuela, Caracas/YV; F.J. Mendez, Venezuelan Institute for Scientific Research IVIC, Caracas/YV; M.A. Luis-Luis, University of Carabobo, Valencia/YV; J.L. Brito, Venezuelan Institute for Scientific Research IVIC, Caracas/YV
1.03_7449		**Removal of gas-phase sulfur compounds by copper-impregnated activated carbons** H.P. Ho, S.Y. Lee, S.H. Lee, H.C. Woo, Pukyong National University, Busan/ROK
1.03_7490		**Design of carbon-supported NiMo catalysts for hydroprocessing of petroleum residues** A. V Vasilevich, O. N. Baklanova, E. A. Buluchevskii, O. A. Knyazheva, A. V. Lavrenov, V. A. Likholobov, Institute of Hydrocarbons Processing SB RAS, Omsk/RUS
1.03_7546	PS.12	**$CoMo/Al_2O_3$ catalysts for deep hydrotreating of diesel fuel modified by TiO_2 и B** O.V. Klimov, K.A. Leonova, G.I. Koryakina, V.I. Zaikovskii, I.P. Prosvirin, S.V. Budukva, V.Yu. Pereyma, P.P. Dik, Boreskov Institute of Catalysis, Novosibirsk/RUS; O.A. Parakhin, JSC „NPK Sintez", Barnaul/RUS; A.S. Noskov, Boreskov Institute of Catalysis, Novosibirsk/RUS
1.03_7560		**Mesoporous Ti-SBA-15 catalysts for oxidative desulfurisation of refractory aromatic sulfur compounds in Transport Fuel** T.-W Kim, M.-J Kim, Korea Research institute of Chemical Technology, Daejeon/ROK; F. Kleitz, M.M. Nair, R. Guillet-Nicolas, University Laval, Quebec/CDN; K.-E. Jeong, H.-J. Chae, C.-U. Kim, S.-Y. Jeong, Korea Research institute of Chemical Technology, Daejeon/ROK
1.03_7643		**Effect of TiO_2 on the hydrodesulfurisation performance of bulk Ni_2P** X. Li, Zh. Sun, A. Wang, Y. Wang, TU Dalian/PRC

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1.03_7648		**Hydrodesulfurisation of dibenzothiophene over Pd and Pt supported on MCM-41** W. Duan, X. Li, A. Wang, Y. Wang, TU Dalian/PRC
1.03_7682	PS.05	**Structure and Activity of Ni_2P/Al_2O_3 catalyst for deep HDS** Y.K. Lee, K.S. Cho, Dankook University, Yongin/ROK
1.03_7733	PS.05	**Pyridine hydrodenitrogenation on WP/SiO_2 and $NiWP/SiO_2$ catalysts – catalyst characterization and kinetic study** J. Kopyscinski, J. Choi, S. Zhang, J.M. Hill, University of Calgary/CDN
1.03_7825		**Fischer-Tropsch synthesis on metallic monolith-structured catalyst** M. Bartolini, J. Alvarez, M. Goldwasser, Universidad Central de Venezuela, Caracas/YV; M. Montes, Universidad del Pais Vasco, San Sebastian/E; J. Perez, University of Calgary/CDN
1.03_7917		**Oxidative Desulfurization(ODS) of Light Cycle Oil(LCO) over Ti-SBA-15 catalysts** K. Cho, Y. Lee, Dankook University, Yong-in/ROK
1.03_7973	PS.12	**Surface chemistry and catalysis of unsupported Mo-W-Ni sulfides** J. Hein, A. Hrabar, O.Y. Gutiérrez, J.A. Lercher, TU München, Garching/D
1.03_8025		**Effect of Mo and Co incorporation method into the alumina-zirconia supports – evaluation in the thiophene hydrodesulfurisation** E. Baston, Federal University of São João del-Rei, Ouro Branco/BR; E. Urquieta-González, Federal University of São Carlos, São Carlos/BR
1.03_8030	PS.12	**In situ synthesis of highly disperse and active MoS_2 on TiO_2-P25** S. Bordiga, F. Bonino, F. Casano, E. Groppo, G. Agostini, S. Bertarione, L. Mino, C. Lamberti, D. Scarano, G. Spoto, A. Zecchina, University of Turin/I
1.03_8070		**Carbon-based materials with potential as Superclaus catalysts: a comparative characterization study** J.L. Davila-Rodriguez, J.J. Cordova-Medrano, I.A. Santos-Lopez, M.G. Cardenas-Galindo, B.E. Handy, UASLP, San Luis Potosi/MEX; R. Quintana-Solorzano, R. Garcia de Leon, IMP, Mexico City/MEX
1.03_8092		**Reuse of commercial immobilized lipases in transesterification reactions of soybean oil for biodiesel production** S.L. de Souza, M.A.P. Langone, State University of Rio de Janeiro/BR; E.C.G. Aguieiras, Federal University of Rio de Janeiro/BR
1.03_8132		**Catalytic conversion of chloromethane to methanol and dimethyl ether over mesoporous γ-alumina** A. Khaleel, United Arab Emirates University, Al-Ain/UAE; I. Shehadi, University of Sharjah/UAE; A. Al-Marzouqi, United Arab Emirates University, Al-Ain/UAE
		Carbon-Carbon coupling reactions, alkylation, oligomerization
1.04_1085		**Chemical vapor deposition of $[Pd(C_3H_5)(C_5H_5)]$ to synthesise MOF-5 supported Pd catalysts for Suzuki coupling reaction** M. Zhang, J. Guan, C. Liang, Dalian University of Technology/PRC
1.04_1110		**Simultaneous benzene alkylation and alkanes isomerisation on Ni- and Ni-Re-promoted sulfated zirconia catalysts** M.O. Kazakov, A.V. Lavrenov, V.A. Likholobov, Institute of Hydrocarbons Processing SB RAS, Omsk/RUS

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1.04_1213	PS.21	**Hydrocarbon transformations in zeolites: product selectivities from molecular dynamics** P. Zimmerman, S. Sharada, M. Head-Gordon, A. Bell, University of California at Berkeley, CA/USA
1.04_1264		**Catalytic oxidative coupling of methane using carbon dioxide assisted by an electric field** K. Oshima, K. Tanaka, E. Kikuchi, Y. Sekine, Waseda University, Tokyo/J
1.04_1369		**The activation of Mo based catalyst for methane aromatisation** K.S. Wong, J.W. Thybaut, Ghent University/B; E. Tangstad, M.W. Stöcker, SINTEF, Oslo/N; G.B. Marin, Ghent University/B
1.04_1387	PS.19	**Leaching of Pd from nanoparticles as prerequisite for high activity of supported Pd catalysts in CC coupling reactions** A.S. Wirth, K. Wussow, K. Köhler, TU München, Garching/D; A. Genest, Tsinghua University, Beijing/PRC; C.-R. Chang, N. Rösch, TU München, Garching/D; J. Li, Tsinghua University, Beijing/PRC
1.04_1431		**Ethylene oligomerization on PdO/SO_4^{2-}-ZrO_2** L.F. Sayfulina, E.A. Buluchevskii, A.V. Lavrenov, Institute of Hydrocarbons Processing of SB of RAS, Omsk/RUS
1.04_1463	PS.19	**A highly efficient ion-exchange resin supported Au-Pd alloy catalyst for Suzuki cross-coupling and Ullmann reactions in water** L. Zhang, A. Wang, Y. Huang, T. Zhang, Dalian Institute of Chemical Physics/PRC
1.04_1501		**Kinetic of ethylene oligomerization in gas and liquid phases on NiO/B_2O_3-Al_2O_3 catalyst** A. Volkov, Institute of Hydrocarbons Processing SB RAS, Omsk/RUS; E. Buluchevskii, A. Lavrenov, Institute of Hydrocarbons Processing SB, Omsk/RUS
1.04_1503		**Selectivity enhancement in acetylene hydrogenation over ligand modified Pd/TiO_2** F.M. McKenna, R.P.K. Wells, J.A. Anderson, University of Aberdeen/UK
1.04_1505		**Palladium supported on Mg-Al mixed oxides: a study on the localization of the Pd** M.J. Jacquemin, M. André, E.M. Gaigneaux, Université Catholique de Louvain (UCL)/B
1.04_1521		**One-step synthesis of propylene from ethylene on NiO-Re_2O_7/B_2O_3-Al_2O_3** E.A. Buluchevskiy, M.S. Mikhailova, A.V. Lavrenov, Institut of Hydrocarbons Processing, Omsk/RUS
1.04_1747		**Tuning the relative spatial positioning of amines and silanols for cooperative catalysis in the aldol condensation** N.A. Brunelli, S.A. Didas, K. Venkatasubbaiah, C.W. Jones, Georgia Institute of Technology, Atlanta, GA/USA
1.04_6733	PS.03	**Defect-rich spinel type oxides for Friedel-Crafts alkylation** B. Jäger, P. Scholz, B. Ondruschka, University of Jena/D
1.04_6820		**Mo-supported MFI-type zeolite with core-shell structure for the enhancement of benzene selectivity during methane dehydroaromatization** Z. Jin, S. Liu, Q. Song, Z. Liu, Y. Wang, Z. Xie, Shanghai Research Institute of Petro-chemical Technology-SINOPEC/PRC; X. Wang, Research Institute of Industrial Catalysis-ECUST, Shanghai/PRC
1.04_6871		**Methane aromatization in the presence of higher alkane** A.A. Gabrienko, M.V. Luzgin, A.G. Stepanov, V.N. Parmon, Boreskov Institute of Catalysis, Novosibirsk/RUS

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1.04_6895	PS.22	**Hydro-metathesis of olefins: a new highly efficient reaction catalyzed by a bifunctional single-site system Ta-H/KCC1** V. Polshettiwwar, KAUST, Thuwal/SAR; M. Taoufik, F. Stoffelbach, CNRS, Villeurbanne/F; J.-M. Basset, KAUST, Thuwal/SAR; J. Thivolle-Cazat, CNRS, Villeurbanne/F
1.04_6983		**Claisen-Schmidt condensation catalyzed by zeolites** S. Becharova, E. Vyskocilová, L. Cerveny, Institute of Chemical Technology Prague/CZ
1.04_7088		**Palladium catalyzed heck reaction of water soluble acrylates in a aqueous-biphasic catalytic system for easy catalyst-product separation** S.V. Jagtap, Pune University/IND; R.M. Deshpande, National Chemical Laboratory, Pune/IND
1.04_7103	PS.26	**Oxidative carbonylation of ethene catalyzed by Pd(II)-PPh_3 complexes in MeOH using benzoquinone as stoichiometric oxidant** G. Cavinato, University of Padua/I; S. Facchetti, L. Toniolo, University of Venice/I
1.04_7227		**Catalyst activation and reaction intermediates during propane aromatisation reactions in Ga/HZSM5 catalysts** A.C. Faro Jr., Federal University of Rio de Janeiro – UFRJ/BR; V.O. Rodrigues, Federal University of Rio e Janeiro – UFRJ/BR
1.04_7303		**Propylene as probe to identify support and porosity effects of $Ni(MeCN)_6(BF_4)2$/SiO_2 or /[Si]-MCM-41 in oligomerization** M. Oberson de Souza, R.F. de Souza, L. R. Rodrigues, UFRGS, Porto Alegre/BR; H. O. Pastore, J.M. R. Gallo, UNICAMP, Campinas/BR
1.04_7336		**Mechanism of propene oligomerisation over Ni-Na-X zeolites** A.N. Mlinar, P.M. Zimmerman, A.T. Bell, University of California, Berkeley, CA/USA
1.04_7431		**Oxidative coupling of methane over Na_2WO_4/Mn/$Mg_xTi_{1-x}O_y$: effect of Mg-to-Ti ratio on the catalytic activity** W. Jeon, J.-W. Choi, J.-M. Ha, D.J. Suh, Korea Institute of Science and Technology, Seoul/ROK
1.04_7459	PS.26	**Structure and kinetics of supported ionic liquid phase (SILP) rhodium catalysts in gas phase propene hydroformylation** D. Hanna, S. Shylesh, S. Werner, A. Bell, University of California, Berkeley, CA/USA
1.04_7513	PS.14	**Production of hydrocarbons in conversion of methanol over CHA-type zeolite** H. Imai, T. Yokoi, J.N. Kondo, T. Tatsumi, Tokyo Institute of Technology, Yokohama/J
1.04_7593		**Direct templating of alkaline-earth metal oxide: first micelle-templated mesoporous magnesium oxide** B. Eckhardt, E. Ortel, J. Polte, D. Bernsmeier, O. Görke, P. Strasser, R. Kraehnert, TU Berlin/D
1.04_7608		**A combined approach to kinetic description of oxidative coupling of methane** V.I. Lomonosov, Yu.A. Gordienko, ZAO SCHAG, Moscow/RUS; M.Yu Sinev, Semenov Institute of Chemical Physics, R.A.S., Moscow/RUS
1.04_8053		**Non oxidative aromatization of methane: influence of activation and MoO_3 dispersion on catalytic performance of Mo/H-ZSM-5** A. Corma, C. Martínez, M.T. Portilla, Instituto de Tecnología Química-UPV-CSIC, Valencia/E

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1.05_1007		**Identification of the active Au species in the low temperature Water Gas Shift Au/$CeZrO_4$ catalysts using in situ spectroscopy** H. Daly, R. Pilsamobat, Queen's University, Belfast/UK; F.C. Meunier, LCS, Univ. Caen, CNRS/F; A. Goguet, P. Hu, C. Hardacre, R. Burch, Queen's University, Belfast/UK
1.05_1013		**Hydrogen production from bio-ethanol over cerium and nickel based nano-oxyhydride catalysts** L. Jalowiecki-Duhamel, UCCS, CNRS UMR 8181, University Lille, Villeneuve d'Ascq Cedex/F; C. Pirez, M. Capron, UCCS, Villeneuve d'Ascq Cedex/F; H. Jobic, IRCELyon, Villeurbanne Cedex/F; F. Dumeignil, UCCS, Villeneuve d'Ascq Cedex/F
1.05_1025	PS.41	**Reaction pathways of glycerol steam reforming on CoRh/mixed oxide catalysts** M. Araque, L.M. Martinez, A.C. Roger, University of Strasbourg/F; J.C. Vargas, National University of Colombia, Bogota/CO
1.05_1030		**Mechanistic approach of hydrocarbon reforming for on-board hydrogen production** E. Ambroise, K. Parkhomenko, C. Courson, A. Kiennemann, A.C. Roger, University of Strasbourg/F; E. Gibson, M. Daturi, University of Caen/F; N. Bion, University of Poitiers/F
1.05_1037		**Evaluation of an iron oxide catalyst for decomposition of sulphuric acid in thermochemical cycles for production of hydrogen** D. Thomey, L. de Oliveira, M. Roeb, C. Sattler, German Aerospace Center (DLR), Köln/D; G. Karagiannakis, C. Agrafiotis, A.G. Konstandopoulos, Aerosol & Particle Techn. Lab./ Centre for Res. & Techn. Hellas, Thessaloniki/GR; A. Giaconia, S. Sau, „Casaccia" Research Center, Rome/I
1.05_1043		**Routes to unsupported nanoparticulate ZnPd** Y. Luo, M. Armbrüster, Max Planck Institute for Chemical Physics of Solids, Dresden/D
1.05_1047	PS.18	**High-performance supported Pt catalyst for the water gas shift reaction in a membrane reactor** C. Cornaglia, J. Múnera, E. Lombardo, National University of the Littoral, Santa Fe/RA
1.05_1069	PS.18	**Counting Au and Pt catalytic sites for the water-gas shift reaction** M. Shekhar, W.D. Williams, J. Pazmino, J. Wang, W.S. Lee, K. Sabnis, W.N. Delgass, F.H. Ribeiro, M.C. Akatay, E.A. Stach, Purdue University, West Lafayette, IN/USA; J.T. Miller, Argonne National Laboratory, IL/USA
1.05_1074		**Steam reforming of acetic acid for hydrogen generation in mild temperature region over Nickel-Iron bimetallic catalyst** X. Hu, G. Lu, Lanzhou Institute of Chemical Physics, CAS, Lanzhou/PRC
1.05_1076		**Structure and surface properties of Pt/PrO_2-Al_2O_3 catalysts** I. Tankov, K. Arishtirova, Institute of Catalysis, Sofia/BG; W. Cassinelli, J.M. Bueno, Federal University of São Carlos/BR; S. Damyanova, Institute of Catalysis, Sofia/BG
1.05_1138		**Effect of ytria addition to alumina supported rhodium catalysts on the partial oxidation of methane** M. Cunha, A.C. Coutinho, F. Passos, Fluminense Federal University, Niterói/BR
1.05_1146	PS.28	**Synthesis of Tantalum Nitride photocatalyst with core shell structures** D. Wang, T. Takata, Y. Li, J. Kubota, K. Domen, University of Tokyo/J
1.05_1154		**An effective medium of CO_2 and surfactant for H_2 production by photocatalytic splitting of H_2O over TiO_2** R. Liu, S. Fujita, M. Arai, Hokkaido University, Sapporo/J

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1.05_1206	PS.40	**Relevance of *operando* quantitative methods and case study of the role of formates observable by FT-IR on water-gas shift catalysts** F. Meunier, University of Caen/F; A. Goguet, R. Burch, Queen's University, Belfast/UK
1.05_1231		**Ammonia decomposition over nickel catalysts for hydrogen production** K. Eguchi, C. Saburi, H. Muroyama, T. Matsui, Kyoto University/J
1.05_1237		**Ta_3N_5 nanorod photoelectrodes for solar water splitting** Y.B. Li, T. Takata, D.A. Wang, T. Minegishi, J. Kubota, K. Domen, The University of Tokyo/J
1.05_1268		**Catalytically enhanced hydrogen storage in complex nanocomposite catalysts** J. Beltramini, M. Konarova, G.Q. Lu, University of Queensland, Brisbane/AUS
1.05_1272	PS.09	**Hydrogen production by steam reforming of toluene on $Ni/La_{0.7}Sr_{0.3}AlO_{3-x}$ catalysts** D. Mukai, Y. Murai, S. Tochiya, E. Kikuchi, Y. Sekine, Waseda University, Tokyo/J
1.05_1360		**A mechanistic study of aqueous-phase reforming of ethylene glycol over supported-Pt catalysts** X.H. Liu, Y.L. Guo, Y. Guo, G.Z. Lu, Y.Q. Wang, East China University of Science and Technology, Shanghai/PRC
1.05_1372		**Effect of substrate alloy on methanol steam reforming over structured systems** F.J. Echave, I. Velasco, O. Sanz, M. Mario, University of Basque Country, San Sebastian/E
1.05_1394		**Catalytic dehydrogenation of $Mg(NH_2)_2$-2LiH composite material** P. Chen, J.H. Wang, T. He, Z.T. Xiong, G.T. Wu, Dalian Institute of Chemical Physics, Dalian/PRC
1.05_1413		**Methanol steam reforming catalyst for hydrogen production in the temperature range of HT-PEM fuel cells** A. Machocki, W. Zawadzki, W. Grzegorczyk, W. Gac, University of Maria Curie-Sklodowska, Lublin/PL
1.05_1415	PS.33	**Covalent organic framework COF-1 and COF-5 : microwave synthesis and catalytic application** S.T. Yang, J.E. Park, W.S. Ahn, Inha University, Incheon/ROK
1.05_1440		**Synergic effects on Ni-Co/ZrO_2 methane reforming catalysts studied by in situ XAS** V.M. Gonzalez-Delacruz, CSIC, Sevilla/E; R. Pereñiguez, University of Seville/E; F. Ternero, J.P. Holgado, CSIC, Sevilla/E; A. Caballero, University of Seville/E
1.05_1444	PS.09	***In situ* characterization of $LaNi_{1-x}Co_xO_3$ perovskite active for CH_4 reforming reactions** R. Pereñiguez, University of Seville/E; V.M. Gonzalez-Delacruz, F. Ternero, J.P. Holgado, CSIC, Sevilla/E; A. Caballero, University of Seville/E
1.05_1448		**On the nature of high selectivity of Ni-Al hydrotalcite derived catalyst for the H_2 generation from $N_2H_4 \cdot H_2O$ decomposition** Y. Huang, L. He, X. Wang, A. Wang, Dalian Institute of Chemical Physics/PRC; Y. Liu, Liaoning Normal University, Dalian/PRC; T. Zhang, Dalian Institute of Chemical Physics/PRC
1.05_1487		**Ni or Ru catalysts supported on alumina coated monoliths for ammonia decomposition** S. Armenise, E. Garcia-Bordeje, Instituto de Carboquímica (ICB-CSIC), Zaragoza/E; A. Monzon, Insitute of Nanoscience of Aragon, Zaragoza/E
1.05_1518		**Desulfurization of natural gas and LPG at ambient temperature: applications for small stationary and portable fuel cells** C. Ratnasamy, J.P. Wagner, S. Spivey, Süd-Chemie Inc., Louisville, KY/USA; G. Anfang, A. De Toni, Süd-Chemie AG, Heufeld/D

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1.05_1530		**Effect of ultrosonic condition on the morphology of palladium membranes on porous stainless steel** L. Xie, Y. Tian, Y. Li, Tianjin University/PRC
1.05_1541		**Analysis of selective CO oxidation kinetics over gold catalysts using artificial neural networks** M.E. Gunay, R. Yildirim, Bogazici University, Istanbul/TR
1.05_1547		**Catalyst coking as a crucial problem in the steam reforming of ethanol** A. Machocki, P. Rybak, A. Denis, W. Grzegorczyk, University of Maria Curie-Sklodowska, Lublin/PL
1.05_1558		**Preferential CO oxidation on nanosized gold catalysts supported on ceria and ceria-alumina** J. Fonseca, Federal University of Bahia, Salvador/BR; S. Royer, N. Bion, S. Pronier, L. Pirault-Roy, University of Poitiers/F; M.C. Rangel Varela, Federal University of Bahia, Salvador/F; D. Duprez, F. Epron, University of Poitiers/F
1.05_1570		**Where synchrotron meets solution chemistry – a beneficial symbiosis for new insights into homogeneous reactions** M. Bauer, TU Kaiserslautern/D
1.05_1581		**Advances about Pt catalysts for CH_4 reactions using in situ XAS** A.P. Ferreira, Universidade Federal de São Carlos/BR; D. Zanchet, Universidade Estadual de Campinas/BR; J.M.C. Bueno, Universidade Federal de São Carlos/BR
1.05_1620		**Heterogeneous catalysts for effective hydrogen production from biomass derived formic acid** D. Bulushev, L. Jia, S. Beloshapkin, J. Ross, University of Limerick/IRL
1.05_1630	PS.28	**Influence of carbon content in molybdenum sulfides MoSxCy obtained by thermal decomposition on photocatalytical hydrogen generation** J. Djamil, W. Bensch, A. Lotnyk, L. Kienle, Universität Kiel/D; S. Hansen, T. Beweries, U. Rosenthal, Leibniz Institut für Katalyse/D
1.05_1635		**High temperature water gas shift reaction over Ni-Cu bimetallic catalyst: effect of nano-sphere CeO_2 supports** E. Saw, X.L.A. Tan, K. Hidajat, S. Kawi, National University of Singapore/SGP
1.05_1638		**Role of potassium for high-temperature water-gas shift over K-doped $LaNiO_3$ perovskite catalyst precursor** T. Maneerung, E.T. Saw, K. Hidajat, S. Kawi, National University of Singapore/SGP
1.05_1645		**Optimation of the reduction temperature of ceria-zirconia supported Au-Pd catalysts for CO oxidation** C. Olmos, L.E. Chinchilla, J.J. Delgado, A.B. Hungría, J.J. Calvino, X. Chen, University of Cadiz, Puerto Real/E
1.05_1674	PS.41	**Catalyst development for steam reforming of ethanol: the enhancement of H_2 selectivity via CrO_x or MnO_x doping in CeO_2.SiO_2 catalysts** M.C. Ribeiro, Instituto Nacional de Tecnologia, Rio de Janeiro/BR; G. Jacobs, B.H. Davis, University of Kentucky, Lexington, KY/USA; F.B. Noronha, Instituto Nacional de Tecnologia, Rio de Janeiro/BR
1.05_1684		**Performance of plant biomass resources as catalytic supports** H. Kim, N.J. Jeong, S.O. Han, Korea Institute of Energy Research (KIER), Daejeon/ROK

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1.05_1711		**Cu oxide dispersed on ceria nanoparticles with controlled shape: improved catalysts for preferential CO oxidation** A. López-Cámara, M. Monte, A. Martínez-Arias, D. Gamarra, S. Rasmussen, J.C. Conesa, CSIC, Madrid/E; G. Munuera, CSIC-Universidad de Sevilla/E
1.05_1724	PS.41	**Steam reforming of ethanol: Co-Ni bimetallic catalyst highly resistant to oxidation and coking** A.H. Braga, A.P. Ferreira, C.M.P. Marques, J.M.C. Bueno, J.B.O. Santos, Federal University of São Carlos/BR
1.05_1728	PS.41	**Deactivation of cobalt supported catalysts during ethanol reforming as addressed by *in situ* XAFS analysis** C.N. de Ávila, C.S. Shiroma, Universidade Federal de São Carlos/BR; C.E. Hori, Universidade Federal de Uberlândia/BR; F.B. Noronha, Instituto Nacional de Tecnologia, Rio de Janeiro/BR; D. Zanchet, Universidade Estadual de Campinas/BR; J.M.C. Bueno, Universidade Federal de São Carlos/BR
1.05_1742	PS.41	**Cu particles with different sizes and different degree of order supported on SBA-15 as active methanol steam reforming catalysts** G. Koch, T. Ressler, TU Berlin/D
1.05_1766	PS.18	***In situ* XANES and DRIFTS studies on platinum nanoparticles supported in ceria-alumina under water gas shift reaction** R.U. Ribeiro, D.M. Meira, Federal University of São Carlos/BR; D. Zanchet, State University of Campinas/BR; J.M.C. Bueno, Federal University of São Carlos/BR
1.05_1772		**Mechanism and selectivity of the selective methanation of CO in CO_2-rich reformates over Ru supported catalysts** S. Eckle, R.J. Behm, Ulm University/D
1.05_1775		**CO induced reconstruction of PdZn surface alloys?** C. Weilach, Vienna University of Technology/A; S.M. Kozlov, Universitat de Barcelona/E; H.H. Holzapfel, Vienna University of Technology/A; K.M. Neyman, ICREA and Universitat de Barcelona/E; G. Rupprechter, Vienna University of Technology/A
1.05_1795		**Methanol steam reforming reaction on highly stable, ceria supported Pd/Zn-based catalysts** C. Barrios, CONICET, Santa Fe/RA; M. Baltanás, A. Bonivardi, Universidad Naional del Litoral and CONICET, Santa Fe/RA
1.05_1826		**Active sites in Ni/$MgAl_2O_4$ based catalysts designed for steam reforming of ethanol** G. Szijjarto, A. Tompos, Z. Paszti, E.G. Szabo, I. Sajo, Chemical Research Center HAS, Budapest/H; A. Erdohelyi, Institute of Physical Chemistry and Material Science, Szeged/H; G. Radnoczi, Institute for Technical Physics and Materials Science HAS, Budapest/H; J.L. Margitfalvi, Combitech-Nanotech Kft., Budapest/H
1.05_1849	PS.06	**Microkinetics of methanol synthesis under industrial conditions** M. Peter, M. Fichtl, O. Hinrichsen, TU München, Garching/D; H. Ruland, S. Kaluza, M. Muhler, Ruhr-Universität Bochum/D
1.05_1859		**Hydrogen storage by organic liquids: structure sensitivity of the dehydrogenation reaction on Pd** F. Sotoodeh, K.J. Smith, University of British Columbia, Vancouver/CDN

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1.05_1886		**CO_2 inhibition of the CO oxidation in Au/ceria catalysts** E. del Rio, University of Cadiz, Puerto Real/E; J. Vecchietti, CONICET, Santa Fe/RA; S. Bernal, University of Cadiz, Puerto Real/E; S. Collins, CONICET, Santa Fe/RA
1.05_1896		**In situ structure-reactivity studies over high surface area Ru/lanthanum oxycarbonate for the combined methane reforming** B. Faroldi, J.F. Múnera, L.M. Cornaglia, INCAPE, Santa Fe/RA
1.05_1910		**Rh supported on CaO-SiO_2, a stable catalyst for hydrogen production on membrane reactors** S. González Carrazán, Universidad de Salamanca/E; E. Frutis, E. Lombardo, J. Múnera, L.M. Cornaglia, INCAPE, Santa Fe/RA
1.05_1922		**Co-Ni catalysts for high party hydrogen production from biomass derived oxygenates** J. Fermoso, J. Zhu, D. Chen, Norwegian University of Science and Technology, Trondheim/N
1.05_1965	PS.40	**Combustion synthesis as a novel method for preparation of NiFeCu catalysts for hydrogen production from ethanol: activity and in-situ EXAFS and FTIR studies** A. Kumar, A.S. Mukasyan, E.E. Wolf, University of Notre Dame, South Bend, IN/USA; J. Miller, Argonne National Laboratory, IL/USA
1.05_1973		**Glycerol steam reforming on Ce-substituted $LaNiO_3$ perovskites** C.A. Franchini, Instituto Nacional de Tecnologia, Rio de Janeiro/BR; W. Aranzaez, Universidad de Concepcion/RCH; A.M. Duarte de Farias, Instituto Nacional de Tecnologia, Rio de Janeiro/BR; G. Pecchi, Universidad de Concepcion/RCH; M.A. Fraga, Instituto Nacional de Tecnologia, Rio de Janeiro/BR
1.05_2027	PS.33	**Photocatalytic hydrogen production on titanium-based metal-organic framework under visible-light irradiation** T. Toyao, M. Saito, Y. Horiuchi, Osaka Prefecture University, Sakai/J; M. Iwata, H. Higashimura, Sumitomo-Chemical Co., Tsukuba/J; M. Matsuoka, Osaka Prefecture University, Sakai/J
1.05_2049		**Correlation between chemical and nanostructural changes induced on the Au/$Ce_{0.50}Tb_{0.12}Zr_{0.38}O_2$ interface upon reduction-oxidation cycles** M. López-Haro, J.M. Cies, J.J. Delgado, S. Trasobares, J.A. Pérez-Omil, J.M. Rodríguez-Izquierdo, S. Bernal, Universidad de Cádiz, Puerto Real (Cádiz)/E; P. Bayle-Guillemaud, CEA, Grenoble/F; O. Stéphan, Universite Paris Sud, Orsay/F; K. Yoshida, E. Boyes, P.L. Gai, University of York/UK; J.J. Calvino, Universidad de Cádiz, Puerto Real (Cádiz)/E
1.05_2074		**Hydrogen production from fuel by catalytic partial oxidation on rhodium** T. Kaltschmitt, S. Lichtenberg, O. Deutschmann, Karlsruhe Institute of Technology/D
1.05_2076		**Enhanced hydrogen solubility in n-nonane and ethanol confined in mesoporous silica aerogel: opportunities for catalysis** S. Clauzier, A. El-Bahraoui, M. Pera-Titus, CNRS-Université de Lyon, Villeurbanne/F
1.05_2100		**Hydrogen production from dimethyl ether and the catalysts development** K. Takeishi, Shizuoka University, Hamamatsu-shi/J
1.05_2113		**Ethanol steam reforming over $MnFe_2O_4$ spinel** L. Dolgykh, I. Stolyarchuk, I. Vasylenko, Y. Pyatnitsky, P. Strizhak, L.V.Pisarzhevsky Institute of Physical Chemistry, Kiev/UA

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1.05_6634		**Hydrogen production by steam reforminh of methane over nickel catalysts prepared by successive impregnation method** N. Salhi, Usthb University, Algiers/DZ; A. Boulahouache, Blida University/DZ; M. Belacel, S. Benadji, C. Rabia, Usthb University, Algiers/DZ
1.05_6748		**The role of water activation in steam reforming reactions on selected group 8-12 catalysts and the influence of the activated water to the catalyst surface** C. Rameshan, H. Bluhm, Lawrence Berkeley National Laboratory, CA/USA; B. Klötzer, University of Innsbruck/A
1.05_6772		**Hydrogen-rich syngas production from catalytic steam pyrolysis-gasification of biomass on Ni/MCM-41** L. Wang, The University of Sydney/AUS; C. Wu, The University of Leeds/UK; Z. Wang, The University of Sydney/AUS; P.T. Williams, The University of Leeds/UK; J. Shi, J. Huang, The University of Sydney/AUS
1.05_6778		**Marked effect of Re addition upon aqueous phase reforming of ethanol over TiO_2 supported Ir and Rh catalysts** T. Nozawa, Y. Mizukoshi, A. Yoshida, S. Naito, Kanagawa University, Yokohama/J
1.05_6803		**Experimental investigation of the influence of Mn and La on the activity of CeO_2-ZrO_2-supported catalysts for autothermal diesel reforming** M. Ziethén Granlund, KTH Royal Institute of Technology, Stockholm/S; M. Nilsson, Scania CV AB, Södertälje/S; J. Dawody, M. Abul-Milh, Volvo Technology AB, Göteborg/S; L.J. Pettersson, KTH Royal Institute of Technology, Stockolm/S
1.05_6805		**Hydrogen production by reforming of diesel over catalysts derived from $LaCo_{1-x}Ru_xO_3$ perovskites: a study of the carbon deposited on used catalysts** N. Mota, M.C. Álvarez-Galván, R.M. Navarro, Spanish National Research Council (CSIC), Madrid/E; S.M. Al-Zahrani, King Saud University, Riyadh/SAR; J.L.G. Fierro, Spanish National Research Council (CSIC), Madrid/E
1.05_6807		**Hydrogen production by reforming of diesel over catalysts derived from $LaCo_{1-x}Ru_xO_3$ perovskites: reducibility study of perovskite by synchrotron XRD** N. Mota, L. Barrio, M.C. Álvarez-Galván, R.M. Navarro, Spanish National Research Council (CSIC), Madrid/E; S.M. Al-Zahrani, King Saud University, Riyadh/SAR; J.L.G. Fierro, Spanish National Research Council (CSIC), Madrid/E
1.05_6811		**Steam reforming of glycerol using Ni-Cu catalysts prepared from hydrotalcite-like precursors for hydrogen production** R.L. Manfro, N.F.P. Ribeiro, M.M.V.M. Souza, Federal University of Rio de Janeiro/BR
1.05_6825		**Noble hydrogen storage systems composed of lithium and conjugated carbonaceous materials** A. Yoshida, T. Okuyama, N. Saito, T. Terada, S. Naito, Kanagawa University, Yokohama/J
1.05_6828		**Understanding structure and function of Ni/CeO_2 catalysts – A theoretical perspective** J. Carrasco, L. Barrio, M.V. Ganduglia-Pirovano, CSIC, Madrid/E; P. Liu, J.A. Rodriguez, Brookhaven National Laboratory, Upton, NY/USA
1.05_6840		**Ink-jet synthesis, printing and wavelet screening for fast catalyst exploration** X. Liu, Zhejiang University, Hangzhou/PRC; Y. Shen, Zhejiang Sci-Tech University, Hangzhou/PRC; R. Yang, University of California, Santa Barbara, CA/USA; S. Zou, J. Fan, Zhejiang University, Hangzhou/PRC; X. Ji, G. Stucky, University of California, Santa Barbara, CA/USA

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1.05_6862		**Steam reforming of bio-ethanol over Ni-based catalysts for hydrogen production** C. Zhang, S. Li, G. Wu, J. Gong, Tianjin University/PRC
1.05_6867		**Preparation of alkoxide-stabilized Ni nanocluster catalyst on oxide support and its catalysis for WGSR** N. Ichikuni, J. Naganuma, Chiba University/J; H. Tsunoyama, Hokkaido University, Sapporo/J; T. Tsukuda, The University of Tokyo/J; T. Hara, S. Shimazu, Chiba University/J
1.05_6881		**Setting up a volumetric method to test H_2 storage materials** I. Rossetti, E. Cavo, L. Forni, Università degli Studi di Milano/I
1.05_6883		**Ni/SiO_2 and Ni/ZrO_2 catalysts for the steam reforming of ethanol and glycerol** I. Rossetti, C. Biffi, C.L. Bianchi, Università degli Studi di Milano/I; A. Gallo, V. Dal Santo, CNR – ISTM, Milano/I; V. Nichele, M. Signoretto, Università degli Studi di Venezia/I; E. Finocchio, G. Ramis, G. Garbarino, Università degli Studi di Genova/I; A. Di Michele, Università degli Studi di Perugia/I
1.05_6921	PS.02	**Oxidative and non-oxidative propane dehydrogenation: effect of potassium promotion on Mo-Ni/Al_2O_3 catalyst** A. Siahvashi, A.A. Adesina, The University of New South Wales, Sydney/AUS
1.05_6927		**Oxygen-vacancy-controlled surface reactivity of monolayer FeO(111) islands and thin film grown on a Pt(111) substrate** L.S. Xu, Y.S. Ma, W.H. Zhang, J.L. Yang, W.X. Huang, University of Science and Technology of China, Hefei/PRC
1.05_6973		***In situ* EDXRD study of the chemistry of aging of co-precipitated mixed Cu,Zn hydroxycarbonates – Consequences for the preparation of Cu/ZnO catalysts** S. Zander, Fritz Haber Institute, Berlin/D; B. Seidlhofer, Universität Kiel/D; M. Behrens, Fritz Haber Institute, Berlin/D
1.05_6976		**Support effects on the structure and performance of Co and Ni catalysts for the hydrogen synthesis from ethanol partial oxidation** E. Kraleva, H. Ehrich, University of Rostock/D
1.05_6987		**Nano-catalysis with cerium oxide: water activation** S. Agarwal, B.L. Mojet, L. Lefferts, University of Twente, Enschede/NL
1.05_6997		**Hydrogen production by gasoline reforming in the exhaust gas recirculation loop of automobiles** S. Rijo Gomes, N. Bion, University of Poitiers/F; G. Blanchard, S. Rousseau, PSA Peugeot Citroën, Vélizy Villacoublay/F; D. Duprez, F. Epron, University of Poitiers/F
1.05_7001		**Dehydrogenation of dodecahydro-*N*-ethylcarbazole on Pd/Al_2O_3 model catalysts** M. Amende, M. Sobota, I. Nikiforidis, B. Sanmartín Zanón, T. Staudt, O. Höfert, Y. Lykhach, C. Papp, W. Hieringer, M. Laurin, D. Assenbaum, P. Wasserscheid, H.-P. Steinrück, A. Görling, J. Libuda, University of Erlangen-Nürnberg/D
1.05_7003	PS.18	**Efficient bimetallic Pt-Re catalyst for single stage water gas shift conversion** K.G. Azzam, B.L. Mojet, L. Lefferts, K. Seshan, University of Twente, Enschede/NL
1.05_7057		**Transition metal promoters in CuO/CeO_2 catalysts for CO removal from hydrogen streams** J. Ayastuy, E. Fernandez, M.P. González-Marcos, M.A. Gutiérrez-Ortiz, University of the Basque Country, Bilbao/E

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1.05_7070	PS.11	**The effect of Pt incorporation on photocatalytic hydrogen production from ethanol over Pt/TiO_2** J. Arenales, I.D. Gonzalez, Instituto de Catalisis y Petroleoquímica, Madrid/E; J.L.G. Fierro, R.M. Navarro, Instituto de Catalisis y Petroleoquimica, Madrid/E
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1.05_7089		**Fabrication of CdS sensitized TiO_2 nanotubes array for highly efficiency solar water splitting** S. Chien, W. Tu, J. Chen, C. Lin, Academia Sinica, Taipei/TW
1.05_7117		**Water-gas shift and formaldehyde reforming activity determined by defect chemistry of polycrystalline In_2O_3** T. Bielz, H. Lorenz, P. Amann, B. Klötzer, S. Penner, University of Innsbruck/A
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1.05_7132		**Ni/TiO_2 for ethanol steam reforming: which is the best synthetic approach?** V. Nichele, M. Signoretto, F. Menegazzo, F. Pinna, Ca' Foscari University, Venice/I; I. Rossetti, C. Biffi, University of Milan/I; G. Cruciani, University of Ferrara/I; G. Cerrato, University of Turin/I
1.05_7133		**Production of hydrogen via partial oxidation and steam reforming of ethanol over Au/TiO_2** E. López, N. Moreno, N.J. Divins, J. Llorca, Technical University of Catalonia, Barcelona/E; F. Gonzàlez de Rivera, I. Angurell, M. Seco, O. Rossell, University of Barcelona/E
1.05_7146		**Hydrogen production with supported molten salt catalysts** S. Bajus, M. Kusche, F. Enzenberger, A. Bösmann, P. Wasserscheid, University of Erlangen-Nürnberg/D
1.05_7147		**Reforming of ethanol on different supported Co catalyst** Zs. Ferencz, K. Marko, K. Baan, A. Erdohelyi, University of Szeged/H
1.05_7162		**Photocatalytic water reduction on $NaNb_{1-x}Ta_xO_3$ (x = 0, 0.5, 1.0) nanoparticles** T. Meyer, S. Wohlrab, Leibniz Institute for Catalysis (LIKAT), Rostock/D
1.05_7165		**Nickel-based composite catalysts containing titanium for methane steam reforming** S.Y. Lee, S.H. Lee, H.C. Woo, Pukyong National University, Busan/ROK
1.05_7213		**Catalyst for multi-alcohol-fuelled hydrogen generator for fuel cells applications** A. Machocki, B. Banach, A. Denis, University of Maria Curie-Sklodowska, Lublin/PL; T. Ioannides, E. Papadopoulou, FORTH/ICE-HT, Patras/GR
1.05_7223		**Sustainable hydrogen production via steam reforming of dimethyl ether over ZnO-Cr_2O_3/TiO_2-Al_2O_3 bi-functional catalyst** M. Yang, Y. Men, S.L. Li, G.W. Chen, Dalian Institute of Chemical Physics/PRC

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1.05_7241	PS.41	**Influence of the morphology of $CuNi/SiO_2$ catalysts on ethanol steam reforming: effect of pretreatment** L. Chen, S.D. Lin, National Taiwan University of Science and Technology, Taipei/TW
1.05_7248		**Advanced catalytic technologies for loading and unloading Liquid Organic Hydrogen Carriers (LOHCs)** P. Wasserscheid, W. Schwieger, W. Peters, A. Inayat, D. Assenbaum, C. Körner, J. Schwerdtfeger, R. Singer, University of Erlangen-Nürnberg/D
1.05_7266		**Sol-gel derived porous carbon nitrides and inorganic-carbon nitride composites – photocatalytic water splitting** K. Kailasam, A. Thomas, TU Berlin/D; S. Losse, H. Junge, Leibniz-Institut für Katalyse e.V., Rostock/D; J. Zhang, X. Wang, M. Antonietti, MPI of Colloids and Interfaces, Potsdam/D
1.05_7269		**Hydrogen production from oxidative steam reforming of bio-butanol over Co-Ir/$Ce_{0.75}Zr_{0.25}O_2$ catalyst** W. Cai, P. Ramirez de la Piscina, N. Homs, University of Barcelona/E
1.05_7290		**Hydrogen production by steam reforming of ethanol over Zn-Al supported metal catalysts** C. Anjaneyulu, Indian Institute of Chemical Technology, Hyderabad/IND; L. da Costa, A. da Silva, National Institute of Technology, Rio de Janeiro/BR; S. de Lima, Federal University of Sao Paulo, Diadema/BR; L. Mattos, Fluminense Federal University, Niteroi/BR; A. Venugopal, Indian Institute of Chemical Technology, Hyderabad/IND; F. Noronha, National Institute of Technology, Rio de Janeiro/BR
1.05_7294		**Alcohol reforming on cobalt catalysts derived from organic salt precursors** E. Papadopoulou, D. Delimaris, T. Ioannides, FORTH/ICE-HT, Patras/GR; D.L. Carvalho, P. Ramirez de la Piscina, N. Homs, University of Barcelona/E; A. Denis, W. Gac, A. Machocki, University of Maria Curie-Sklodowska, Lublin/PL
1.05_7304		**Catalytic coatings on microchannels for aqueous phase reforming of biofeedstocks** M.F. Neira Dangelo, V. Ordomskiy, V. Paunovic, J.C. Schouten, J. van der Schaaf, T.A. Nijhuis, Eindhoven University of Technology/NL
1.05_7386		**Structure and catalytic performance of Ni/CaO.$Ca_{12}Al_{14}O_{33}$ for hydrogen production by sorption enhanced reforming of methane** M.R. Cesário, University of Strasbourg/F and Federal University of Rio Grande do Norte, Natal/BR; C. Courson, University of Strasbourg/F; B.S. Barros, D.M.A. Melo, Federal University of Rio Grande do Norte, Natal/BR; A. Kiennemann, University of Strasbourg/F
1.05_7387	PS.41	**Active sites of Co catalysts for ethanol steam reforming** Y. Wang, Pacific Northwest National Laboratory, Richland, WA and Washington State University, Pullman, WA/USA; J. Sun, Washington State University, Pullman, WA/USA; V. Lebarbier, A. Karim, D. Mei, C.H.F. Peden, Pacific Northwest National Laboratory, Richland, WA/USA; A. Datye, University of New Mexico, Albuquerque, NM/USA; J. Vohs, University of Pennsylvania, Philadelphia, PA/USA
1.05_7439		**Catalytic effects of Ti and Zr oxides and chlorides on the hydrogen desorption of MgH_2** P. Rangsunvigit, P. Sridechprasat, B. Kitiyanan, Chulalongkorn University, Bangkok/THA; S. Kulprathipanja, UOP – A Honeywell Company, Des Plaines, IL/USA
1.05_7458		**Hyrogen production from sub-quality natural gas over $BaTiO_3$-based catalyst** T. Haneda, Y. Yokoi, Tokyo Gas Co., Ltd., Yokohama-city/J

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1.05_7472		**Ni coated metal monolith catalyst in natural gas steam reforming for hydrogen production** K.Y. Koo, H.J. Eom, U.H. Jung, W.L. Yoon, Korea Institute of Energy Research, Daejeon/ROK
1.05_7485		**Methane partial oxidation over NiO-MgO/$Ce_{0.75}Zr_{0.25}O_2$ mixed oxide catalysts** V. Meeyoo, Mahanakorn University of Technology, Bangkok/THA; P. Pue-on, T. Rirksomboon, Chulalongkorn University, Bangkok/THA; S. Pengpanich, Mahanakorn University of Technology, Bangkok/THA
1.05_7493		**Methane steam reforming using Mn-promoted Ni/Ce-Zr mixed oxide catalysts** T. Rirksomboon, Chulalongkorn University, Bangkok/THA; V. Meeyoo, Mahanakorn University of Technology, Bangkok/THA; S. Thongkhong, Chulalongkorn University, Bangkok/THA
1.05_7507		**Designed Au/CuO/SBA-15 catalyst for PROX reaction of CO in H_2-rich gas: does the alloying of Au and Cu lead to deactivation of the catalyst?** X. Li, S. .S.S. Fang, J. Teo, Institute of Chemical and Engineering Sciences – A*Star, Singapore/SGP; M. Lin, Institute of Materials Research and Engineering – A*Star, Singapore/SGP; Z. Zhong, Institute of Chemical and Engineering Sciences – A*Star, Singapore/SGP
1.05_7511		**A novel hydrogen production system in which compactly combined reforming and CO removing catalysts** C. Fukuhara, T. Suzuki, K. Sugimoto, Y. Makiyama, R. Watanabe, Shizuoka University, Hamamatsu/J
1.05_7539	PS.41	**Promotion effect of iron on the exclusive elimination of CO for ethanol steam reforming** C. Choong, L. Chen, J. Chang, Y. Du, A. Borgna, Institute of Chemical and Engineering Sciences, Singapore/SGP; L. Hong, National University of Singapore/SGP; J. Lin, Institute of Chemical and Engineering Sciences, Singapore/SGP
1.05_7558		**Investigations on In-Pd intermetallic compounds for the hydrogen production by methanol steam reforming** M. Neumann, K. Räuchle, Dresden University of Technology/D; A. Zhang, M. Armbrüster, MPI for Chemical Physics of Solids, Dresden/D; W. Reschetilowski, Dresden University of Technology/D
1.05_7607		**Magnesia-modified HZSM-5 as an efficient solid acid for stream reforming of dimethyl ether** X. Long, R. Guo, Z.-T. Liu, Z.-W. Liu, Shaanxi Normal University, Xi'an/PRC
1.05_7653		**Economically viable highly active gold based catalyst for WGSR** T.R. Reina, S. Ivanova, Instituto de Ciencia de Materiales US-CSIS, Sevilla/E; V. Idakiev, I. Ivanov, T. Tabakova, Institute of Catalysis of the BAS, Sofia/BG; M.A. Centeno, J.A. Odriozola, Instituto de Ciencia de Materiales US-CSIS, Sevilla/E
1.05_7662		**Structure evolution of Pd/ZnO under different treatments** H.K. Cheng, S.D. Lin, L.C. Chen, C.H. Wang, National Taiwan University of Science and Technology, Taipei/TW
1.05_7686		**Understanding the stability of nickel supported catalysts for reforming of ethanol as addressed by []in situ temperature and spatial resolved XANES analysis** C. Hori, S.C. Dantas, K.A. Resende, Federal University of Uberlandia/BR; C.N. Avila Neto, J.M.C. Bueno, Federal University of Sao Carlos/BR

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1.05_7688		**Bimetallic Ni-Co supported on ZnO single crystal: metal- support interaction studied in UHV and ambient pressure conditions** Y.T. Law, S. Zafeiratos, Universite de Strasbourg/F; T. Skala, Sinctrotrone Trieste ScpA/I; M. Vondracek, Institute of Physics of the AS of the Czech Republic, Praha/CZ; M. Hävecker, D. Teschner, A. Knop-Gericke, R. Schlögl, Fritz-Haber-Institute, Berlin/D
1.05_7715		**$LaNiO_3$ and $LaCoO_3$ perovskites as catalysts in oxidative reforming of ethanol for hydrogen production** S.R. Garcia, J.M. Assaf, Universidade Federal de São Carlos/BR
1.05_7727		**The effect of Cu on PrOx reaction over ceria supported Au catalysts** X. Liao, Université de Strasbourg/F; W. Chu, X. Dai, Sichuan University, Chengdu/PRC; V. Pitchon, Université de Strasbourg/F
1.05_7742		**Improved de-/re-hydrogenation features of $NaAlH_4$ through space-confined in mesoporous carbon** Y. Li, F. Fang, Y. Song, D. Sun, Fudan University, Shanghai/PRC
1.05_7777		**Au and Ag modified alumina supported Ni catalysts for H_2 production by ethanol steam reforming** M. Lazar, M. Dan, M. Mihet, V. Almasan, National Institute for R&D on Isotopic and Molecular Technology, Cluj Napoca/RO; A.S. Biris, F. Watanabe, University of Arkansas at Little Rock, AR/USA
1.05_7789		**Supported ionic liquid phase (SILP) catalysts for ambient pressure and ultra-low temperature water-gas-shift reaction** M. Haumann, University of Erlangen-Nürnberg-Campus Busan/ROK; S. Werner, University of Erlangen-Nürnberg/D; M. Kaiser, R.W. Fischer, N. Szesni, Süd-Chemie AG, Bruckmühl/D; P. Wasserscheid, University of Erlangen-Nürnberg/D
1.05_7807		**Steam reforming of glycerol on Ni/$Ce_{0.5}Zr_{0.5}O_2$ catalysts: effect of nickel content** T.A. Maia, Universidade de São Paulo/BR; M.C. Álvarez-Galván, R.M. Navarro, J.L.G. Fierro, Instituto de Catálisis y Petroleoquímica-CSIC, Madrid/E; E.M. Assaf, Universidade de São Paulo/BR
1.05_7812		**Influence of addition of La on Co-CeO_2 catalysts for SRE** F.L.S. Carvalho, Universidade de São Paulo/BR; A.F. Lucredio, Universidade Federal de São Carlos/BR; E.M. Assaf, Universidade de São Paulo/BR
1.05_7830		**Carbon formation from ethanol decomposition on Ni-CeO_2 based nanomaterials** G. Salazar, A. Gómez-Cortés, G. Díaz, Universidad Nacional Autónoma de México/MEX
1.05_7836		**Visible light driven H_2 production by biotemplated Pt/PdS/CdS** J. He, Z. Yan, A. Li, F. Wang, J. Xie, L. Jiang, J. Shao, J. Wang, Yunnan University, Kunming/PRC
1.05_7843		**Tungsten effect over Co-hydrotalcite catalysts to produce hydrogen from bio-ethanol** J. Contreras, M.A. Ortiz, G.A. Fuentes, Universidad Autónoma Metropolitana, Mexico City/MEX; J. Salmones, B. Zeifert, Instituto Politécnico Nacional, Mexico City/MEX; L. Nuño, Universidad Autónoma Metropolitana, Mexico City/MEX; T. Vázquez, Insituto Mexicano del Petróleo, Mexico City/MEX
1.05_7870	PS.28	**A novel gas-phase photo-catalytic approach for H_2 production from water and biowastes** C. Ampelli, C. Genovese, S. Perathoner, G. Centi, University of Messina/I
1.05_7892		**Effect of the support in catalytic properties of copper for water gas shift reaction** C. Maciel, T. Freitas, J. Assaf, Federal University of São Carlos/BR

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1.05_7894		**Copper catalysts supported on CeO_2-La_2O_3 for WSGR** T. Freitas, C. Maciel, J. Assaf, Federal University of São Carlos/BR
1.05_7899		**Study on reaction process of hydrogen production by partial oxidation and reforming of dimethyl ether (DME)** Q. Zhang, P. Qi, H. Ci, Y. Zhou, H. Wang, Liaoning University of Technology, Jinzhou/PRC
1.05_7911		**Nanocarbon-metal oxide hybrids for photocatalytic hydrogen production** A. Cherevan, D. Eder, Universität Muenster/D
1.05_7919		**Catalytic dissociation of CO_x at the surface of Pd-Ag membranes for H_2 separation and influence on their performances** S. Abate, M.G. Salvaggio, S. Perathoner, G. Centi, University of Messina/I; A. Knop-Gericke, Fritz Haber Institute, Berlin/D
1.05_7924		**PROX reaction on PtCu intermetallic compound catalysts supported on alumina** T. Komatsu, M. Takasaki, K. Ozawa, Tokyo Institute of Technology/J; A. Muramatsu, Tohoku University, Sendai/J
1.05_7925		**Rhodium nanoparticle reactivity in ethanol steam reforming** F. Basile, I. Bersani, G. Fornasari, A. Vaccari, Università di Bologna/I; P. Del Gallo, D. Gary, Air Liquide, Paris/F; B. Onida, Politecnico di Torino/I
1.05_7927		**Low temperature preferential CO oxidation (PROX) in hydrogen-rich gases over Ag and Ag-Ce catalysts** S. Todorova, H. Kolev, Bulgarian Academy of Sciences, Sofia/BG; J.P. Holgado, R. Pereñíguez, University of Sevilla/E; G. Kadinov, Bulgarian Academy of Sciences, Sofia/BG; A. Caballero, University of Sevilla/E
1.05_7931		**Effect of the preparation method on the performance of Au/Fe_2O_3-CeO_2 catalysts in PROX and WGS reactions** L. Ilieva, T. Tabakova, I. Ivanov, Bulgarian Academy of Sciences, Sofia/BG; G. Pantaleo, A.M. Venezia, CNR, Palermo/I; J.W. Sobczak, Polish Academy of Sciences, Warsaw/PL; W. Lisowski, Poland Academy of Sciences, Warsaw/PL; N. Velinov, I. Mitov, Bulgarian Academy of Sciences, Sofia/BG
1.05_7965		**Production of H_2 by fuel dehydrogenation: study of reaction and deactivation mechanisms.** C. Lucarelli, University of Insubria/I; S. Albonetti, D. Di Domenico, G. Pavarelli, A. Vaccari, University of Bologna/I; D. Wails, I. Gabellini, Jhonson and Matthey, Reading/UK
1.05_7995		**Water splitting on single crystalline surfaces** C. Ranjan, R. Schlögl, M. Eiswirth, B. Johnson, R. Arrigo, J. Tornow, A. Knop-Gericke, G. Weinberg, Fritz Haber Institute, Berlin/D
1.05_8010		**Production of hydrogen by glycerol steam reforming using Ni catalysts in fluidised bed reactor** M. Yus Montanel, J. Soler Herrero, J. Herguido Huerta, M. Menéndez Sastre, University of Zaragoza/E
1.05_8011		**Ni/SrO-CeO_2 catalysts for production of hydrogen by methane steam reforming** E.Y. Tanabe, IQSC/USP, São Carlos, SP/BR; A.F. Lucredio, J.M. Assaf, UFSCar, São Carlos, SP/BR; E.M. Assaf, IQSC/USP, São Carlos, SP/BR
1.05_8020		**Hydrogen production by Ethanol steam reforming on modified Zirconia supported Nickel catalysts** V. Almasan, M. Dan, M. Mihet, M. Lazar, National Institute for R&D on Isotopic and Molecular Technologies, Cluj Napoca/RO

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1.05_8042		**Stabilization of Ni-hydrotalcite catalysts by addition of WOx to Produce H_2 from Ethanol** J.L. Contreras, M.A. Ortiz, Universidad Autónoma Metropolitana-Azcapozalco, Mexico City/MEX; G.A. Fuentes, Universidad Autónoma Metropolitana-Iztapalapa, Mexico City/MEX; J. Salmones, B. Zeifert, Instituto Politécnico Nacional, Mexico City/MEX; L. Nuño, Universidad Autónoma Metropolitana-Azcapozalco, Mexico City/MEX; T. Vázquez, Instituto Mexicano del Petróleo, Mexico City/MEX
1.05_8058	PS.31	**Application of TPR-XANES to the investigation of Pt containing ceria catalysts doped with cations** G. Jacobs, B.H. Davis, University of Kentucky, Lexington, KY/USA; D.C. Cronauer, A.J. Kropf, C.L. Marshall, Argonne National Laboratory, IL/USA
1.05_8065		**Generation and simultaneous removal of hydrogen from ethanol dry reforming in catalytic carbon membrane reactor** J.S. Nascimento, F.B.S. Segundo, C.P. Borges, V.M.M. Salim, Universidade Federal do Rio de Janeiro/BR
1.05_8066		**Study of the preparation and stability of the $LaCoO_3$ perovskite supported on monolith for the partial oxidation of methane** R. Brackmann, V.M.M. Salim, M. Schmal, Federal University of Rio de Janeiro/BR
1.05_8094		**CoO-TiO_2 as photocatalyst for hydrogen generation using UV-vis light** A. Pérez Larios, Universidad Nacional Autónoma de México, México D.F./MEX; A. Barrera, Universidad de Guadalajara, Ocotlan/MEX; R. Gomez, Universidad Autónoma Metropolitana-Iztapalapa, México D.F./MEX
1.05_8096		**Hydrogen generation from formic acid decomposition over atomically-dispersed precious metal (Pt and Au) catalysts** N. Yi, Y. Zhai, H. Saltsburg, M. Flytzani-Stephanopoulos, Tufts University, Medford, MA/USA
1.05_8097		**WO_3-TiO_2 mixed oxide as photocatalyst for hydrogen generation** A. Pérez Larios, Universidad Nacional Autónoma de México, México D.F./MEX; A. Barrera, Universidad de Guadalajara, Ocotlan/MEX; R. Gomez, Universidad Autónoma Metropolitana-Iztapalapa, México D.F./MEX
1.05_8125		**Perovskite-type catalysts for the water gas shift reaction** H.C. Fonseca, L.A. Silva, J.S. Moura, Universidade Federal da Bahia, Salvador/BR; A.M. Duarte, M.A. Fraga, Instituto Nacional de Tecnologia, Rio de Janeiro/BR; M.C. Rangel, Universidade Federal da Bahia, Salvador/BR

Conversion of carbon rich unconventional fossil resources

1.06_1010		**The influence of the different type of SiO_2 supports on the activity of Na_2WO_4/Mn/SiO_2 catalyst** M. Yildiz, S. Arndt, U. Simon, Y. Aksu, A. Thomas, H. Schubert, R. Schomäcker, TU Berlin/D
1.06_1140		**Ordered mesoporous SiO_2 with isolated VO_x and TeO_x moieties – a multifunctional catalyst for selective oxidation of propane to acrolein** L. Shi, W.Z. Weng, G. Fu, H.L. Wan, University of Xiamen/PRC; H. Feng, Montclair State University/PRC
1.06_1279		**Catalytic cracking of heavy oil with iron oxide-based catalyst using steam as hydrogen and oxygen sources** E. Fumoto, Y. Sugimoto, S. Sato, T. Takanohashi, National Institute of Advanced Industrial Science and Technology, Tsukuba/J

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1.06_1326	PS.13	**A remarkable confinement effect of mesoporous carbon supported cobalt catalysts for Fischer-Tropsch synthesis** Y. Yang, L. Jia, B. Hou, D. Li, Y. Sun, Institute of Coal Chemistry, Taiyuan/PRC
1.06_1406		**Highly efficient epoxidation catalyzed by a bio-inspired hydrophobic catalyst based on layered double hydroxides** J. He, Y. Liu, Beijing University of Chemical Technology/PRC
1.06_1412		**Pressure effect on upgrading of oil sand bitumen over FeOx-based catalyst under sub/supercritical water conditions** T. Kitaguchi, Y. Sato, T. Tago, T. Masuda, Hokkaido University, Sapporo/J
1.06_1430	PS.14	**MTO conversion over cage type SAPO molecular sieves: reaction intermediates and evidences of transition-state shape selectivity** J.Z. Li, Y.X. Wei, J.R. Chen, S.T. Xu, P. Tian, X. Su, B. Li, Q.Y. Wang, Y. Zhou, Z.M. Liu, Dalian National Laboratory for Clean Energy/PRC
1.06_1592	PS.44	**Cyclic conversion of methane to methanol on Cu-mordenite** E.M. Alayon, M. Nachtegaal, M. Ranocchiari, J.A. van Bokhoven, Paul Scherrer Institute, Villigen/CH
1.06_1877		**Heavy oil conversion with zeolite catalysts** L.J. France, T. Xiao, V.L. Kuznetsov, University of Oxford/UK; H. Al-Megren, M. AlKinany, King Abdulaziz City for Science and Technology, Riyadh/SAR; P.P. Edwards, University of Oxford/UK
1.06_1881		**Oxidation of C-H bonds in alkanes with novel iron(II) complexes bearing multidentate N-heterocyclic-carbene ligands** A. Raba, M. Cokoja, S. Ewald, K. Riener, E. Herdtweck, A. Pöthig, W.A. Herrmann, F.E. Kühn, TU München, Garching/D
1.06_2053	PS.34	**Catalytic cracking of vegetable oil over γ-Al_2O_3 supported metal oxides (V_2O_5, NiO, MoO_3, Fe_3O_4, Co_3O_4)** P.E. Strizhak, A.I. Trypolskyi, M.M. Goncharenko, L.V. Pisarzhevsky Institute of Physical Chemistry of the NAS of Ukraine, Kyiv/UA
1.06_6688	PS.14	**Superior performance in methanol-to-olefins over ZSM-34 zeolite synthesised from organotemplate-free and seed-directed route** C. Yang, Jilin University, Changchun/PRC; X. Meng, F.-S. Xiao, Zhejiang University, Hangzhou/PRC
1.06_6781	PS.32	**Synergistic combination of tight-coupled Pd-Au bimetallic nanoparticles for methane combustion** X.N. Guo, X.Y. Guo, Institute of Coal Chemistry, Taiyuan/PRC
1.06_7075		**Structure and activity of Au-Rh bimetallic clusters supported on titanate nanowire and nanotube** M. Toth, J. Klss, G. Potari, A. Oszko, B. Laszlo, A. Erdohelyi, University of Szeged/H
1.06_7276	PS.44	**Novel solid single-site catalysts for direct oxidation of methane** M. Soorholtz, MPI for Coal Research, Mülheim an der Ruhr/D; R.J. White, M.-M. Titirici, M. Antonietti, MPI of Colloids and Interfaces, Potsdam/D; R. Palkovits, RWTH Aachen/D; F. Schüth, MPI for Coal Research, Mülheim an der Ruhr/D
1.06_7773		**Comparisons of physicochemical and catalytic properties of MFI-based micro-meso composite catalysts templated from different surfactants** Q.Y. Wang, Dalian Institute of Chemical Physics/PRC and University of Namur/B; Y.X. Wei, J.Z. Li, Y. Qi, S.H. Meng, F.X. Chang, S.T. Xu, Dalian Institute of Chemical Physics/PRC; B.L. Su, University of Namur/B; Z.M. Liu, Dalian Institute of Chemical Physics/PRC

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		Biomass conversion to fuels
1.07_1001		**Transformation of sugar into biomass fuel compounds** K. Pupovac, F. Richter, F. Schüth, MPI for Coal Research, Mülheim an der Ruhr/D; R. Palkovits, RWTH Aachen/D
1.07_1052		**Deoxygenation of biomass-derived molecules over multifunctional polyoxometalate catalysts in the gas phase** M. Alotaibi, E.F. Kozhevnikova, I.V. Kozhevnikov, University of Liverpool/UK
1.07_1053	PS.34	**Gas-phase deoxygenation and hydrogenation of propionic acid on heteropoly acid catalysts** M. Alotaibi, E.F. Kozhevnikova, I.V. Kozhevnikov, University of Liverpool/UK
1.07_1075		**Effects of reaction environment on the etherification of furanyl alcohols for diesel fuel additives** E.R. Sacia, A.T. Bell, University of California, Berkeley, CA/USA
1.07_1104		**Homogeneous and heterogeneous catalytic obtaining and power-ecological characteristics of ethanol rape seed oil transesterification products** L.K. Patrylak, K.I. Patrylak, S.V. Konovalov, M.V. Okhrimenko, V.V. Ivanenko, Institute of Bioorganic Chemistry and Petrochemistry of the NAS, Kyiv/UA; A.M. Levterov, V.P. Marakhovskyi, V.D. Savytskyi, A.M. Podgorny Institute for Mechanical Engineering Problems of the NAS, Kharkiv/UA; Yu.G. Voloshyna, Institute of Bioorganic Chemistry and Petrochemistry of the NAS, Kyiv/UA
1.07_1119	PS.38	**Improved stability of Ru/TiO_2 catalysts for the conversion of phenolics from bio-oil** S. Boonyasuwat, S. Wan, S.P. Crossley, R.G. Mallinson, D.E. Resasco, University of Oklahoma, Norman, OK/USA
1.07_1137		**Epoxidation of methyl oleate with H_2O_2 catalysed by $[Mn_2\ L_2O_3]_{2+}$ (L = 1,4,7-trimethyl-1,4,7-triazacyclononane)-oxalic acid'** D. Mandelli, W.A. Carvalho, D.C. Silva, University Federal of ABC, Santo André/BR; Y.N. Kozlov, G.B. Shul"pin, Semenov Institute of Chemical Physics, Moscow/RUS
1.07_1145		**Heteropoly acids as catalysts for biodiesel production** A. Alsalme, King Saud University, Riyadh/SAR; E. Kozhevnikova, I. Kozhevnikov, University of Liverpool/UK
1.07_1281		**Synthesis of renewable diesel or jet fuel with the lignocellulose-derived platform chemicals** G. Li, N. Li, T. Zhang, Dalian Institute of Chemical Physics/PRC
1.07_1323		**Direct conversion of cellulose into sorbitol using dual-functionalized catalysts in neutral aqueous solution** J.W. Han, C. Kim, S. Yang, H. Lee, Yonsei University, Seoul/ROK
1.07_1434		**Reactivity of methanol over Nb_2O_5-CeO_2 multifunctional catalysts: microcalorimetry, FT-IR, TPR and TPD-MS studies** D. Stosic, S. Bennici, IRCELYON, Villeurbanne/F; V. Rakic, Belgrade University/YU; A. Auroux, IRCELYON, Villeurbanne/F
1.07_1450	PS.37	**A highly active and durable catalyst for the production of EG from cellulose** Z. Tai, A. Wang, M. Zheng, T. Zhang, Dalian Institute of Chemical Physics/PRC
1.07_1456		**Kinetics study and synthesis of biodiesel production by heterogeneous catalyst** A. Gupta, G. Deo, S. Panjwani, S. Garg, Indian Institute of Technology Kanpur/IND

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1.07_1495		**Deactivation of sulfonated hydrothermal carbons in the presence of alcohols: evidences for sulfonic esters formation** J.M. Fraile, L. Roldán, Instituto de Sintesis Quimica y Catalisis Homogenea (ISQCH), Zaragoza/E; E. Garcia-Bordejé, Insituto de Carboquímica (ICB-CSIC), Zaragoza/E
1.07_1514	PS.38	**Selective conversion of lignin to chemicals via catalytic fast pyrolysis** Z. Ma, E. Troussard, J.A. van Bokhoven, ETH Zurich/CH
1.07_1522		**Screening of catalysts for bio-oil hydrodeoxygenation** P.M. Mortensen, A.D. Jensen, P.A. Jensen, Technical University of Denmark, Kgs. Lyngby/DK; J.-D. Grunwaldt, Karlsruhe Institute of Technology/D
1.07_1542		**Hydrodeoxygenation of acetophenone over precious metal catalysts** C. Rebollar, P. Marin, S. Ordoñez, F. Diez, Universidad de Oviedo/E
1.07_1561		**Efficient direct conversion of cellulose to 5-hydroxymethylfurfural in ionic liquid catalysed by metal chlorides and solid acid catalyst** Y.B. Park, J.H. Choi, S.H. Lee, H.C. Woo, Pukyong National University, Busan/ROK
1.07_1564		**Covalently bonded ZrO_2 nanoparticles on multi-walled carbon nanotubes as catalysts and catalyst supports** C. Liu, G. Haller, Yale University, New Haven, CT/USA; S. Lee, Samsung SDI Co., Ltd, Yongin-si, Gyeonggi-do/ROK; D. Su, Brookhaven National Laboratory, Upton, NY/USA
1.07_1606		**Mg/Al mixed oxides: the analysis of basic species and its activity/stability in the transesterification of rapeseed oil** L. Smolakova, L. Capek, University of Pardubice/CZ; D. Kubicka, I. Kubickova, Research Institute of Inorganic Chemistry, Litvinov/CZ; P. Kutalek, M. Hajek, P. Priecel, E. Frydova, R. Bulanek, University of Pardubice/CZ; F. Kovanda, Institute of Chemical Technology, Praha/CZ; J. Kocik, University of Pardubice/CZ
1.07_1610	PS.11	**H_2 production via photocatalytic reforming of methanol and biomass on TiO_2 with tuned phase structure** Y. Ma, Q. Xu, X. Zong, D.E. Wang, X. Wang, C. Li, Dalian Institute of Chemical Physics/PRC
1.07_1659		**Partial hydrogenation of biodiesel for improvement of its oxidation stability** M. Toba, Y. Abe, National Institute of Advanced Industrial Science and Technology (AIST), Tsukuba/J; T. Sonthisawate, C. Asasutjarit, Thailand Institute of Scientific and Technological Research (TISTR), Klong Luang/THA; T. Mochizuki, Y. Yoshimura, National Institute of Advanced Industrial Science and Technology (AIST), Tsukuba/J
1.07_1662	PS.34	**Ultrasound assisted catalytic transesterification of rape oil to biodiesel – development and design of a pilot plant** J. Hofmann, M. Wecks, R. Gläser, Institut für Nichtklassische Chemie, Leipzig/D; J. Schenk, Leipzig University of Applied Science/D; J. Wartenberg, Energietechnik Leipzig GmbH/D
1.07_1668		**Selective catalytic hydrogenolysis of biomass derived polyols** C. Wu, K.M. Yu, S.C.E. Tsang, University of Oxford/UK
1.07_1707	PS.37	**Catalytic liquefaction of lignocellulosic biomass in hot compressed water** P. Patil, U. Armbruster, A. Martin, Leibniz Institute for Catalysis at the University of Rostock/D
1.07_1722		**Screening of metal oxides in ketonisation of valeric acid to develop promising way for green diesel synthesis** I.L. Simakova, M.N. Simonov, Yu.A. Zaiceva, A.A. Shutilov, G.A. Zenkovets, V.N. Parmon, Boreskov Institute of Catalysis, Novosibirsk/RUS

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1.07_1744		**Support effects in the liquid phase reforming of propanol** C. Marshall, R. Lobo, J. Miller, A. Mane, J. Elam, Argonne National Laboratory, IL/USA; P. Stair, Northwestern University, Evanston, IL/USA
1.07_1748		**The synergy of hydrogenation and acid functions in the hydrodeoxygenation of m-Cresol** A.J. Foster, University of Delaware, Newark, DE/USA; P.T.M. Do, Univeristy of Delaware, Newark, DE/USA; J.G. Chen, R.F. Lobo, University of Delaware, Newark, DE/USA
1.07_1780		**Catalytic properties and structure of PdZn/Pd(111) surface alloys** H.H. Holzapfel, C. Weilach, G. Rupprechter, TU Vienna/A
1.07_1785		**Activity of Zn carboxylic salts as catalysts for the production of fatty acid methyl esters** D. Reinoso, D. Damiani, G. Tonetto, National Southern University, Bahía Blanca/RA
1.07_1825		**Effect of preparation method on the activity of MgO to biodiesel production** D.R. Araújo, J.M.C. Campos, A.A. Costa, P.R.S. Braga, G.F. Ghesti, J.L. Macedo, S.C.L Dias, J.A. Dias, University of Brasília, Brasília/BR
1.07_1842		**Structure sensitive transesterification of soybean oil to biodiesel over Sr-Al mixed oxides nanoparticles as a solid base catalyst** E. Rashtizadeh, F. Farzaneh, Alzahra University, Tehran/IR
1.07_1845		**Investigation of reaction pathways in deoxygenation of fatty acids and their derivatives over Pd/C catalyst** B. Rozmyslowicz, P. Mäki-Arvela, D. Murzin, Åbo Akademi, Turku/FIN
1.07_1865		**Syntheses of vanadosilicates using of organic chiral molecules as templates and their utilisation on catalytic oxidation reactions of glycer** A.S. Paula, J.G. Nery, University Estadual Paulista UNESP, São José do Rio Preto/BR; M. Giotto, University of Connecticut, Storrs, CT/USA; R.R. Soares, Federal University of Uberlândia-UFU/BR
1.07_1891		**Acid-base properties of carbonated hydroxyapatites modulated by morphology, Ca/P ratio and carbonate/sodium content** L. Silvester, C. Lamonier, University Lille 1, Villeneuve d'Ascq/F; R.N. Vannier, C. Pirovano, ENSCL, Villeneuve d'Ascq/F; F. Dumeignil, J.-F. Lamonier, University Lille 1, Villeneuve d'Ascq/F
1.07_1923		**Biodiesel production from vegetable oil using biocatalysts prepared through immobilisation of lipase on nanozeolites** A. De Vasconcellos, J.G. Nery, São Paulo State University, São José do Rio Preto/BR
1.07_1941	PS.40	**IR spectroscopic and pulse thermal analysis of adsorption and reaction of hydroxyacetone on oxide supports** C. Vaddepalli, F.C. Jentoft, University of Oklahoma, Norman, OK/USA
1.07_1961		**Effect of pretreatment conditions on formation of nickel nanoparticles supported on γ-alumina for cellulose hydrolysis** Q. Ma, J.N. Beltramini, A. Shortri, University of Queensland, Brisbane/AUS
1.07_1974		**Effect of acetic acid on aldol condensation on metal oxides for liquid phase upgrading of bio-oil** Z. Liu, N.R. Luedtke, F.C. Jentoft, University of Oklahoma, Norman, OK/USA
1.07_1981		**Aqueous-phase reforming of sorbitol with Pt-Re/C: effect of the feed solution pH** R. Soares, W. Carvalho, J. Santos, F. Portela, Federal University of Uberlandia/BR
1.07_1994		**Vapour phase hydrogenolysis of glycerol over Ru/TiO_2 catalysts** K. Chary, V. Pavankumar, Indian Institute of Chemical Technology, Hyderabad/IND

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1.07_2046		**Highlighting of ethanol transformation into hydrocarbons over HZSM-5 by radical carbonaceous species** I. Pinard, S. Hamieth, C. Canaff, P. Magnoux, University of Poitiers/F; H. Vézin, K. Ben Tayed, University of Lille, Villeneuve d'Ascq/F; S. Maury, N. Cadran, IFPEN, Lyon/F
1.07_2077		**Correlations between synthesis methods, structure and reactivity of different cobalt based catalysts for higher alcohol synthesis** A. Bordoloi, H. Noei, H. Ruland, S. Heikens, S. Kaluza, M. Muhler, Ruhr-Universität Bochum/D
1.07_6638		**Value added products from lignocellulose based biochar** R. Feiner, H. Pucher, N. Schwaiger, S. Lux, M. Siebenhofer, TU Graz/A
1.07_6639		**Hydrogenation of biomass: reaction technology** H. Pucher, R. Feiner, N. Schwaiger, S. Lux, M. Siebenhofer, TU Graz/A
1.07_6721	PS.35	**Theoretical aspects of Ni/Al_2O_3 catalyst deactivation by carbon and sulphur** I. Czekaj, J. Wambach, R. Struis, Paul Scherrer Institute, Villigen/CH
1.07_6724		**Dissolution and regeneration of cellulose in ionic liquid** F. Tao, H. Song, L. Chou, Lanzhou Institute of Chemical Physics/PRC
1.07_6767		**Analyses of liquid products from catalytic pyrolysis of jatropha wastes** K. Murata, M. Inaba, I. Takahara, Y. Ryu, National Institute of Advanced Industrial Science and Technology (AIST), Tsukuba, Ibaraki/J
1.07_6780		**Biodiesel production with microcapsules encapsulated CaO/active carbon powders under the irradiation of xenon lamp** T. Furusawa, H. Handa, F. Kurayama, M. Sato, N. Suzuki, Utsunomiya University/J
1.07_6794		**Synthesis of sulfated ZrO_2/TiO_2 nanorod composite for bio-oil upgrading** Z. Li, W. Kwapinski, J.J. Leahy, University of Limerick/IRL
1.07_6836	PS.34	**Influence of support oxygen groups of Pd/CNF on the decarboxylation of stearic acid** R.W. Gosselink, K.P. de Jong, J.H. Bitter, Utrecht University/NL
1.07_6901	PS.38	**Catalytic cleavage of ether bonds in lignin model compounds using Ni based catalysts in water** J. He, C. Zhao, J.A. Lercher, TU München, Garching/D
1.07_6916		**Effect of support's basic properties on hydrogen production in aqueous-phase reforming of glycerol and correlation between WGS and APR** Y. Guo, M.U. Azmat, X.H. Liu, L. Wang, Y.Q. Wang, Huazhong University of Science and Technology, Shanghai/PRC
1.07_6948		**Steam reforming of bio-oil model compounds** R. Trane, A. Jensen, S. Dahl, Technical University of Denmark, Kgs. Lyngby/DK
1.07_6955		**New acid catalysts for sorbitol transformation** L. Vilcocq, R. Koerin, A. Cabiac, IFPEN, Solaize/F; C. Especel, LACCO, Poitiers/F; S. Lacombe, IFPEN, Solaize/F; D. Duprez, LACCO, Poitiers/F
1.07_6968		**The structure change of sulfided catalysts during hydrodeoxygenation process** H. Li, C. Xu, H. Nie, M. Li, Research Institute of Petroleum Processing-SINOPEC, Beijing/PRC
1.07_7012		**Effect of water on the activity of ion-exchange resins as catalysts of the reaction between ethanol and 1-octanol at high temperature** J. Guilera, E. Ramírez, C. Fité, M. Iborra, J. Tejero, University of Barcelona/E

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1.07_7047	PS.35	**A DFT study of the reaction networks of biomass reformation** D. Basaran, C.-C. Chiu, A. Genest, N. Rösch, TU München/D
1.07_7048		**Biomass upgrading by aqueous phase processes. A computational study** A. Genest, D. Basaran, C.-C. Chiu, N. Rösch, TU München/D
1.07_7085		**Selective hydrogenolysis of glycerol over supported metallic catalysts** S. Noe Delgado, L. Vivier, C. Especel, University of Poitiers/F
1.07_7108	PS.37	**Solvent-free, mechanocatalytic depolymerization of cellulose** N. Meine, R. Rinaldi, F. Schüth, Max-Planck-Institut für Kohlenforschung, Mülheim an der Ruhr/D
1.07_7110		**Design of the oxygenate additives synthesis catalysts** A.L. Maximov, A.I. Nekhaev, D.N. Ramazanov, V.O. Samoylov, A.V. Topchiev Institute of petrochemical synthesis, Moscow/RUS
1.07_7120		**Hydroxyapatites, a high selective system in Guerbet reaction: morphology effect and identification of surface acid base pairs** S. Diallo-Garcia, J.M. Krafft, G. Costentin, Université Pierre et Marie Curie, Ivry sur Seine/F
1.07_7143		**Transesterification of vegetable oils with methanol over spinels** T.M. Sankaranarayanan, B. Viswanathan, S. Sivasanker, A. Pandurangan, I.I.T.-Madras, Chennai/IND
1.07_7152		**Esterification of levulinic acid with ethanol to ethyl levulinate production over solid acid catalysts** D.R. Fernandes, A.S. Rocha, T.F. Rocha, E.F. Mai, V. Teixeira da Silva, Federal University of Rio de Janeiro/BR
1.07_7194		**Gasification of model biomass in super-critical water over Ru/C catalysts: *in-situ* and deactivation studies** J. Wambach, Paul Scherrer Institut, Villigen PSI/CH; M. Schubert, Karlsruher Institute for Technology (KIT)/D; M. Dreher, F. Vogel, Paul Scherrer Institut, Villigen PSI/CH
1.07_7204		**Lagrangian observer approach to investigate catalyst deactivation within the production of Synthetic Natural Gas from wood.** M. D. Kaufman Rechulski, T. J. Schildhauer, J. Zarfl, J. Wambach, S.M.A. Biollaz, Paul Scherrer Institut, Villigen PSI/CH
1.07_7228		**Tailoring pore architectures to improve catalyst activity in biodiesel synthesis** C. Pirez, A. Lee, K. Wilson, University of Cardiff/UK; J.P. Dacquin, UCCS Lille/F
1.07_7255	PS.30	**Mg-Al mixed oxides and synthesis of n-butanol from ethanol** D.L. Carvalho, Military Institute of Engineering – IME, Rio de Janeiro/BR; M.T. Rodrigues, National Institute of Technology, Rio de Janeiro/BR; R.R. Avillez, Pontifical Catholic University, Rio de Janeiro/BR; P.R. de la Piscina, N. Homs, University of Barcelona/E; L.E.P. Borges, Military Institute of Engineering – IME, Rio de Janeiro/BR; L.G. Appel, National Institute of Technology, Rio de Janeiro/BR
1.07_7260		**On the positive effect of ionic liquids on the hydrolysis of cellulose in organic electrolyte solutions** H.F. Nunes de Oliveira, N. Meine, R. Rinaldi, MPI for Coal Research, Mülheim/D
1.07_7272	PS.34	**Selective transformation of microalgae oil to diesel range alkanes with Ni/ZrO_2 catalysts** B. Peng, C. Zhao, J.A. Lercher, TU München/D

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1.07_7288	PS.38	**The influence of citric acid on the synthesis and activity of MoP and Ni_2P catalysts for hydrodeoxygenation** V.M.L. Whiffen, K.J. Smith, University of British Columbia, Vancouver/CDN
1.07_7292		**Increasing the stability of alumina based catalysts for aqueous phase conversion of biomass** R.M. Ravenelle, M.W. Hahn, J.R. Copeland, J. McGrath, A.H. Van Pelt, C. Sievers, Georgia Institute of Technology, Atlanta, GA/USA
1.07_7293		**Catalytic conversion of fatty acids into nitriles in liquid and gas phase: bifunctional catalysts evaluated by microcalorimetry** A. Mekki-Berrada, S. Bennici, IRCELYON, Villeurbanne/F; J.-P. Gillet, J.-L. Couturier, ARKEMA, Pierre-Bénite/F; J.-L. Dubois, ARKEMA, Colombes/F; A. Auroux, IRCELYON, Villeurbanne/F
1.07_7317	PS.30	**Surface chemistry of biomass-derived oxygenates in aqueous phase and vacuum** J.R. Copeland, C. Sievers, Georgia Institute of Technology, Atlanta, GA/USA
1.07_7351		**Aqueous phase reforming of biomass feedstocks: an approach to sustainable hydrogen and liquid fuels** A. Kirilin, A. Tokarev, T. Salmi, J.-P. Mikkola, D. Murzin, Åbo Akademi University, Turku/FIN
1.07_7362		**Catalytic protected metal nanoparticles grown using atomic layer deposition** N. Ray, R. Van Duyne, Northwestern University, Evanston, IL/USA; P. Stair, Argonne National Laboratory, IL/USA; P. Stair, Northwestern University, Evanston, IL/USA
1.07_7377		**Preparation of tube wall type catalyst for biomass gasification by oxidation pretreatment of nickel containing alloys** T. Tagawa, S.R. De La Rama, S. Kawai, H. Yamada, University of Nagoya/J
1.07_7378	PS.37	**Low-pressure hydrolytic hydrogenation of cellulose to sugar alcohols by supported ruthenium catalysts** H. Kobayashi, T. Komanoya, K. Hara, A. Fukuoka, Hokkaido University, Sapporo/J
1.07_7382		**Transesterfication of bio-oils with methanol with immobilised *Burkholderia* lipase for biodiesel production in solvent-containing systems** D. Tran, National Cheng Kung University, Tainan/TW
1.07_7400		**Catalytic conversion of cellulose to glucose by carbon** M. Yabushita, H. Kobayashi, K. Hara, A. Fukuoka, Hokkaido University, Sapporo/J
1.07_7450	PS.38	**Hydrodeoxygenation of biomass-derived lignin monomer guaiacol over bifunctional catalysts** J. Yoon, J.-W. Choi, J.-M. Ha, D. J. Suh, Korea Institute of Science and Technology, Seoul/ROK; H. Lee, Yonsei University, Seoul/ROK
1.07_7465		**Hydrogen production via aqueous phase reforming of polyols over mesoporous carbon supported Pt catalysts** K. Jeong, H. Park, T. Kim, H. Chae, C. Kim, S. Jeong, Korea Research Institute of Chemical Technology, Daejeon/ROK; Y. Chung, SK innovation, Daejeon/ROK
1.07_7516		**Hydrogenation of 5-hydroxymethylfurfural over polyethylene glycol-modified Cu/SiO_2 catalysts** M. Okamoto, F. Kawamura, Tokyo Institute of Technology/J
1.07_7536		**Effect of co-solvent on biodiesel production from palm fatty acid via heterogeneous catalyst process** V. Nawin, NSTDA, Pathumthani/THA; T. Tanapon, King Mongkut's University of Technology Thonburi, Bangkok/THA; F. Kajornsak, NSTDA, Pathumthani/THA; L. Navadol, King Mongkut's University of Technology Thonburi, Bangkok/THA

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1.07_7582		**Manganese for sulfur removal in biomass gasification: an in situ XAS study** C.F.J. Koenig, T.J. Schildhauer, Paul Scherrer Institute, Villigen/CH; M. Seemann, Chalmers University of Technology, Gothenburg/S; M. Nachtegaal, Paul Scherrer Institute, Villigen/CH
1.07_7590		**Heterogeneous catalysis in the aqueous phase: effect of pH and alloy formation on Pt/C electronic structure** A. Karim, L. Zhang, D. King, Y. Wang, Pacific Northwest National Laboratory, Richland, WA/USA
1.07_7630	PS.37	**In-situ spectroscopic determination of catalytic cellulose depolymerisation** A. Kunov-Kruse, R. Fehrmann, A. Riisager, TU Denmark, Lyngby/DK
1.07_7638	PS.41	**Activation and poisoning of a Ru/C catalyst used in hydrothermal biomass reforming – an in-situ EXAFS and isotope scrambling study -** M. Dreher, M. Nachtegaal, Paul Scherrer Institute, Villigen PSI/CH; A. Peterson, University of Stanford, CA/USA; J. Wambach, F. Vogel, Paul Scherrer Institute, Villigen PSI/CH
1.07_7660		**Zn,La-mixed oxides as catalysts for biodiesel production from model acid feedstocks** P.M. Veiga, C.O. Veloso, C.A. Henriques, Rio de Janeiro State University/BR
1.07_7670	PS.34	**Alkane production as high quality fuel components from vegetable oil** T. Kuchling, M. Endisch, H. Wollmerstädt, S. Kureti, TU Bergakademie Freiberg/D
1.07_7673		**DeTar catalytic filter with integrated catalytic ceramic foam: activity under model and real bio syngas conditions** M. Nacken, S. Heidenreich, Pall Filtersystems GmbH Werk Schumacher, Crailsheim/D; L. Ma, G.V. Baron, Free University of Brussels/B; S. Rapagna, M. Di Marcello, University of Teramo, Mosciano/I; K. Gallucci, P.U. Foscolo, University of L'Aquila/I
1.07_7696		**Acidic carbon nanofibers as catalysts for transesterification** D. Stellwagen, K.P. de Jong, J.H. Bitter, University of Utrecht/NL
1.07_7700		**Catalytic transformation of biomass platform molecules** M. Leicht, J. Reimer, L. Gharnati, W. Kleist, J.-D. Grunwaldt, Karlsruher Institute for Technology KIT)/D
1.07_7701		**Transesterification of palm oil catalysed by Strontium-Magnesium mixed oxides** K. Faungnawakij, S. Namuangruk, N. Viriya-empikul, B. Yoosuk, National Science and Technology Development Agency, Pathumtani/THA
1.07_7709		**Facile immobilization of recombinant *Clostridium thermocellum* endoglucanase CelA by artificial oil bodies** C.J. Chiang, China Medical University, Taichung/TW; Y.P. Chao, Feng Chia University, Taichung/TW
1.07_7710		**Fabrication and overproduction of the cellulosome-like complex in *Escherichia coli*** Y.P. Chao, Feng Chia University, Taichung/TW; C.J. Chiang, China Medical University, Taichung/TW
1.07_7794		**Lithium zirconate catalyst for triglyceride transesterification** E. Andrijanto, J. Attwood, R. Brown, University of Huddersfield/UK; E. Dvininov, H. Stephenson, MEL Chemicals, Manchester/UK
1.07_7795		**Transesterification reaction promoted by Li-supported catalysts** C. Castro, J.M. Assaf, Federal University of São Carlos/BR

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1.07_7848	PS.31	**Understanding the electronic and chemical properties in bimetallic nano-particles for H_2 production by X-ray spectroscopy and DFT** T. Wu, Argonne National Laboratory, Chicago, IL/USA; C. Gomez, R. Todorovic, University of Illinois at Chicago, IL/USA; N. Schweitzer, R. Logo, A.J. Kropf, Argonne National Laboratory, Chicago, IL/USA; H. Wang, University of Saskatchewan, Saskatoon/CDN; T. Bolin, Advanced Photon Source, Chicago, IL/USA; Y. Hu, Canadian Light Source, Saskatoon/CDN; R. Meyer, University of Illinois at Chicago, IL/USA; J. Miller, Argonne National Laboratory, Chicago, IL/USA
1.07_7851		**Catalytic fast pyrolysis of furan to aromatics by co-feeding with ethanol** W.-L. Fanchiang, Y.-C. Lin, Yuan Ze University, Taoyuan/TW
1.07_7885		**Pretreatment process for dissolving cellulose in water and single step catalytic hydrolysis-hydrogenation to produce sorbitol** A. Shrotri, University of Queensland, St Lucia/AUS; A. Tanksale, Monash University, Clayton/AUS; J. Beltramini, University of Queensland, St Lucia/AUS
1.07_7929		**Design of hierarchical zeolite catalysts: from powder to technical shapes** N. Michels, S. Mitchell, M. Milina, J. Perez-Ramirez, ETH Zurich/CH
1.07_7996		**Immobilisation of lipase-containing liposome as stable catalyst for biodiesel production** A. Macario, F. Verri, University of Calabria, Rende/I; U. Diaz, A. Corma, Polytechnic University of Valencia/I; G. Giordano, University of Calabria, Rende/I
1.07_8006		**Kinetic modeling of the H_2SO_4-catalysed soybean oil hydrolysis** L.D. Silva, I.G. Nascimento, R.L. Pagano, A.L.D. Ramos, Federal University of Sergipe, Sao Cristovao-SE/BR
1.07_8009		**Hydrolysis of soybean oil over solid acid catalysts** A.R. Almeida, W.A. Maia, T.L.C. Gomes, J.B. Severo Jr, A.L.D. Ramos, Federal University of Sergipe, Sao Cristovao-SE/BR
1.07_8052		**Effect of Pt, Pd and Rh in the hydrodeoxygenation of phenol** J.R. Lima, Fluminense Federal University, Niterói/BR; P.M. Souza, Military Institute of Engineering, Rio de Janeiro/BR; R.C.R. Neto, National Institute of Technology, Rio de Janeiro/BR; L.E.P. Borges, Military Institute of Engineering, Rio de Janeiro/BR; F.B. Noronha, National Institute of Technology, Rio de Janeiro/BR; L.V. Mattos, Fluminense Federal University, Niterói/BR
1.07_8075		**Discovery and evaluation of alternative pathways for isobutanol synthesis and its application towards novel biomimetic catalyst design** D. Wu, S. Goel, L. Broadbelt, Northwestern University, Evanston, IL/USA
1.07_8080		**Acid and alkaline modifiers in supported ionic liquid catalysts (SILCA) for the synthesis of 5-hydroxymethyl furfural (HMF)** E. Salminen, P. Virtanen, P. Mäki-Arvela, N. Kumar, J.-P. Mikkola, Åbo Akademi University/FIN
1.07_8107		**Enhanced xylose dehydration to furfural in the presence of metal halides** K.R. Enslow, A.T. Bell, University of California at Berkeley, CA/USA
1.07_8170		**Selective homogeneous hydrogenation of biogenic esters** T. vom Stein, M. Meuresch, J. Klankermayer, W. Leitner, RWTH Aachen University/D

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		Catalysis in energy storage and conversion (batteries, chemical storage)
1.08_1193	PS.35	**Towards realistic models of nanostructures in catalysis described from first principles** K. Neyman, ICREA, Barcelona and Universitat de Barcelona/E
1.08_1732		**Dry reforming of biogas for renewable energy capture** M. Perez-Camacho, J. Abu-Dahrieh, D. Rooney, A. Goguet, Queen's University, Belfast/UK
1.08_1758		**Modelling the dynamic morphology changes of a ternary Cu/ZnO/Al_2O_3 catalyst under ambient pressure** M. Peter, J. Fendt, S. Pleintinger, O. Hinrichsen, TU München/D
1.08_1793		**Catalytic properties of CCC-Pincer-Biscarbene ligated complexes** Z. Bai, S.Y.T. Lee, A.A. Ghani, A. Monassier, M. Cokoja, W.A. Herrmann, F.E. Kühn, TU München/D
1.08_1885	PS.33	**Interaction of CO with mixed-valence Ru(II)-Ru(III)-Metal-Organic Frameworks** H. Noei, O. Kozachuk, R. Fischer, M. Muhler, Y. Wang, Ruhr-Universität Bochum/D
1.08_2030		**Thermal and catalytic decomposition of ammonium nitrate and ammonium dinitramide-based energetic ionic liquids** Y. Batonneau, University of Poitiers/F; R. Brahmi, University Chouaib Doukkali, El Jadida/MA; S. Keav, K. Farhat, M. Saouabé, University of Poitiers/F; C. Kappenstein, University of Poitiers, Poitiers/F; N. Wingorg, Swedish Defence Research Agency, Tumba/S; A. Woschnak, Fotec, Wiener Neustadt/A; C. Scharlemann, University of Applied Sciences, Wiener Neustadt/A
1.08_2035		**Catalytic ignition of cold oxygen/hydrogen mixtures for propulsion applications: from pellets to cellular ceramics** R. Amrousse, Japan Aerospace Exploration Agency, Kanagawa/J; S. Keav, Y. Batonneau, C. Kappenstein, University of Poitiers/F; M. Théron, CNES, Evry/F; P. Bravais, Air-Liquide, Sassenage/F
1.08_2111		**Novel Cu/ZnO-based catalyst systems for the synthesis of methanol by CO_2 hydrogenation** M. Artamonova, E. Frei, I. Krossing, Freiburg University/D
1.08_6635		**Catalyzing energy research** M. Schneider, A. Schnyder, Chemspeed Technologies AG, Augst/CH
1.08_7125		**Characterisation of Pt/Al_2O_3 coatings for dehydrogenation of cycloalkanes in a microstructured reactor** H. Kreuder, P. Pfeifer, R. Dittmeyer, Karlsruhe Institute of Technology (KIT)/D
1.08_7232		**N-CNTs effect in activity promotion of C_2H_2 hydrochlorination as Au catalyst support** K. Zhou, J.C. Jia, W. Wang, J.Q. Huang, Q. Zhang, G.H. Luo, F. Wei, Tsinghua University, Beijing/PRC
1.08_7531		**Purification of CO_2 in the recovery of hydrogen station using catalyst for CO oxidation at room temperature** F. Hoshi, H. Kameda, Y. Yokoi, TOKYO GAS Co., Ltd., Yokohama/J; T. Masui, N. Imanaka, Osaka University, Suita/J
1.08_7574		**Hydrothermal etching assisted crystallisation: a facile route to functional Yolk-Shell titanate microspheres** W. Li, Fudan University, Shanghai/PRC
1.08_7619		**Electrocatalytic water oxidation on noble metal oxides** T. Reier, TU Berlin/D; B. Johnson, D. Rosenthal, R. Schlögl, Fritz-Haber-Institute, Berlin/D; P. Strasser, TU Berlin/D

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1.08_7750		**Comparative study of $Ni_aMg_bAl_cO_x$ catalysts for production of solarized fuel from carbon dioxide** Y. Sun, M. Collins, S. McMcoy, D. French, CSIRO Energy Technology, Newcastle/AUS
		Photo/electro catalysis
1.09_1011		**Synthesis of titania photocatalysts for organic compounds abatement** V. Trevisan, M. Signoretto, F. Pinna, E. Ghedini, Ca'Foscari University, Venice/I; G. Cruciani, Ferrara University/I
1.09_1034	PS.24	**Enhanced photocatalytic activity for the degradation of Rhodamine B by TiO_2 modified with Gd_2O_3 calcined at high temperature** J. Zhang, S. Yan, G. Chu, Liaoning Shihua University, Fushun/PRC; Q. Xu, X. Wang, C. Li, Dalian Institute of Chemical Physics/PRC
1.09_1088	PS.33	**Metal-organic frameworks as water splitting photocatalysts** S. Vankova, Politecnico di Torino/I; C. Pagliano, Politecnico di Torino, Alessandria/I; E. Celasco, M. Thalluri, Politecnico di Torino/I; S. Hernandez, D. Hidalgo, Italian Institute of Technology, Torino/I; G. Saracco, B. Onida, Politecnico di Torino/I; J. Barber, Politecnico di Torino, Alessandria/I
1.09_1101		**Decomposition of H_2O_2 on monolithic MnO_x/ZrO_2 catalysts** L. Micoli, M. Turco, G. Bagnasco, A. Russo, University of Naples Federico II, Napoli/I
1.09_1132		**Photocatalytic reforming of methanol over transition metal modified TiO_2 semiconductors** K. Szijjartone Majrik, A. Tompos, I. Sajo, Chemical Research Center HAS, Budapest/H
1.09_1143		**A family of visible-light responsive photocatalysts by dispersing CrO_6 octahedron into hydrotalcite matrix** Y. Zhao, S. Zhang, M. Wei, D.G. Evans, X. Duan, Beijing University of Chemical Technology/PRC
1.09_1152		**Electrochemical investigation on shell materials of core-shell structure cocatalysts for photocatalytic overall water splitting** X. Peng, King Abdullah University of Science and Technology, Thuwal/SAR; J. Kubota, K. Domen, The University of Tokyo/J; K. Takanabe, King Abdullah University of Science and Technology, Thuwal/SAR
1.09_1245		**Activity and stability of Pt-Au catalyst using chitosan modified carbon black as support for methanol electrocatalytic oxidation** Z. Suo, W. Chen, W. Liao, M. Jin, Yantai University/PRC
1.09_1253		**Study of photocatalysts pasted on a flat glass plate** A. Xiong, K. Maeda, J. Kubota, K. Domen, The University of Tokyo/J
1.09_1267		**Photo-Induced transformation of O_2 to metal-peroxide linkages on the surface of lanthanide sesquioxides** W.Z. Weng, X.L. Jing, Q.C. Chen, C. He, X.Q. Zhu, W.S. Xia, H.L. Wan, Xiamen University/PRC
1.09_1269		**Modified Ta_3N_5 as an O_2 evolution photocatalyst in two-step water splitting system without redox mediator** S. Ma, K. Maeda, M. Tabata, The University of Tokyo/J; A. Kudo, Tokyo University of Science/J; K. Domen, The University of Tokyo/J
1.09_1276		**Monomorphic platinum octapod and tripod nanocrystals synthesized by an iron nitrate modified polyol process** J. Yin, J. Wang, T. Zhang, Dalian Institute of Chemical Physics/PRC

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1.09_1310		**Infrared study on the potential cahnge at the hydrogen evolution cocatalysts on the photocatalysts for water splitting** J. Kubota, X. Lu, A. Bandara, M. Katayama, K. Domen, The University of Tokyo/J; A. Yamakata, Toyota Technological Institute, Nagoya/J
1.09_1311		**A distinct growth mode of platinum on shaped gold nanocrystals** S. Yang, Yonsei University, Seoul/ROK; N.Y. Park, KIST, Seoul/ROK; C. Kim, J.W. Han, Yonsei University, Seoul/ROK; S.C. Lee, KIST, Seoul/ROK; H. Lee, Yonsei University, Seoul/ROK
1.09_1313		**Improvement of photocatalytic activity of $SrTiO_3$ by flux treatment** H. Kato, M. Kakihana, Tohoku University, Sendai/J
1.09_1316		**In-situ shaping of Pt nanoparticles directly overgrown on carbon supports** C. Kim, S. Yang, J.W. Han, H. Lee, Yonsei University, Seoul/ROK
1.09_1347		**Photocatalytic property of $Bi_{1-x}Ca_xV_{1-x}W_xO_4$ solid solution** A. Takeda, R. Yanagisawa, H. Kato, M. Kakihana, Tohoku University, Sendai/J
1.09_1375	PS.24	**Synthesis of pseudo-cube shaped brookite nanocrystals with amphiphilic property and their photocatalytic activities** K. Katsumata, Tokyo Institute of Technology, Yokohama/J; Y. Ohno, K. Tomita, Tokai University, Kanagawa/J; Y. Komatsubara, Tokyo Institute of Technology, Yokohama/J; T. Taniguchi, Kumamoto University/J; N. Matsushita, Tokyo Institute of Technology, Yokohama/J; T. Kogure, The University of Tokyo/J; K. Okada, Tokyo Institute of Technology, Yokohama/J
1.09_1385		**Core/shell nanoparticles (Ni/NiO) as a cocatalyst over N-TiO_2 powder for photocatalytic overall water splitting** Z. Selcuk, I. Boz, M.S. Boroglu, Istanbul University/TR
1.09_1389		**Photoelectrochemical water splitting over CdS doped TiO_2 nanotubes** I. Boz, I. Kutukcu, M.S. Boroglu, Istanbul University/TR
1.09_1451		**Comparison between catalytic and catalytic photo-assisted propene hydration by using supported polyoxometalate** G. Marcì, E. García-López, L. Palmisano, Palermo University/I
1.09_1466		**Photocatalytic activity of ZnO micro-hollow spheres prepared by solvothermal approach** T. Ihara, H. Wagata, Tokyo Institute of Technology, Yokohama/J; T. Kogure, The University of Tokyo/J; K. Katsumata, K. Okada, N. Matsushita, Tokyo Institute of Technology, Yokohama/J
1.09_1482		**Photocatalytic property of metal ion modified Ga_2O_3 toward the overall splitting of H_2O** Y. Sakata, R. Yasunaga, Y. Nagamatsu, T. Hayashi, H. Imamura, Yamaguchi University, Ube/J; K. Teramura, Kyoto University/J
1.09_1563		**Formation of transition-metal sulfides (NiS_2, CoS_2 and MoS_2) via different routes for H_2 production** I. Firtina Ertis, Bahçesehir University, Istanbul/TR; I. Boz, Istanbul University/TR

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1.09_1726	PS.11	**Plasmonic metal/semiconductor composite as an efficient visible light photocatalyst: water splitting on composite of plasmonic Ag and N-TiO_2** D.B. Ingram, S. Linic, University of Michigan, Ann Arbor, MI/USA
1.09_1878		**Interaction of ammonia with ZnO surfaces: from ideal to real systems** H. Noei, Ruhr-Universität Bochum/D; F. Gallino, Università di Milano-Bicocca/I; L. Jin, J. Zhao, Ruhr-Universität Bochum/D; C. Di Valentin, Università di Milano-Bicocca/I; Y. Wang, Ruhr-Universität Bochum/D
1.09_1930	PS.11	**Photoactivity of TiO_2 rutile and anatase surfaces** M. Xu, H. Noei, Y. Gao, Ruhr-Universität Bochum/D; M. Kunat, Hahn-Meitner-Institut, Berlin/D; H. Idriss, University of Aberdeen/UK; Ch. Wöll, Karlsruhe Institute of Technology/D; M. Muhler, Y. Wang, Ruhr-Universität Bochum/D
1.09_1982		**How microwaves enhance catalytic reactions?** W.C. Conner, G. Tompsett, S. Auerbach, University of Massachusetts, Amherst, MA/USA; H. Jobic, Université Lyon 1/F
1.09_1989		**Preparation and photocatalytic cctivity of TiO_2/C** C. Zhang, L. Sun, S. Liu, Nankai University, Tianjin/PRC
1.09_6614	PS.11	**Photodecomposition of formic acid on N-doped and metal promoted TiO_2; Production of CO-free H_2** G. Halasi, G. Schubert, F. Solymosi, University of Szeged/H
1.09_6632		**Cobaltphthalocyanine encapsulated into mcm-41 as solid photocatalyst for the degradation of chlorophenols** A. Ebrahimian Pirbazari, University of Tehran, Fuman/IR; M. Zanjanchi, University of Guilan, Rasht/IR
1.09_6731		**Hybrid materials for photoelectrocatalytic solar energy conversion** L. Wang, M. Bledowski, A. Ramakrishnan, R. Beranek, Ruhr-Universität Bochum/D
1.09_6746		**A kinetics analysis of Ag-, Cu- and Zn-based promoters of TiO_2 photocatalytic disinfection capability in powders and polymer-based films** A. Kubacka, M. Ferrer, M. Fernández-García, CSIC, Madrid/E
1.09_6777	PS.11	**Nano Au-N TiO_2 composites: visible light photocatalyst for hydrogen generation and oxidation reactions** K. Sivaranjani, C.S. Gopinath, National Chemical Laboratory, Pune/IND
1.09_6790		**Effect of Nb doping on TiO_2 and TiO_2-polyheptazine hybrid materials in wavelength and potential-dependent photocurrent measurements** B. Mei, H. Byford, M. Bledowski, R. Beranek, J. Strunk, M. Muhler, Ruhr-Universität Bochum/D
1.09_6791	PS.11	**Improvement of TiO_x/SBA-15 for photocatalytic applications by the addition of ZnO and Au** B. Mei, A. Becerikli, A. Pougin, D. Heeskens, I. Sinev, F. Oropeza, M. Muhler, J. Strunk, Ruhr-Universität Bochum/D
1.09_6808		**The radical nature of intermediates and mechanisms in photocatalytic reactions** J. Herrmann, E. Puzenat, Université Lyon 1, Villeurbanne/F

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1.09_6861		**Alternative photocatalysts to TiO_2 for catalytic reactions by UV-vis light** R. Ullah, H.Q. Sun, H.M. Ang, M.O. Tade, S.B. Wang, Curtin University, Perth/AUS
1.09_6864		**Visible-light-induced hydrogen production driven by Pt(II) pyridyl complex anchored onto mesoporous silica** K. Mori, K. Watanabe, H. Yamashita, Osaka University/J
1.09_6879		**Photocatalytic splitting of water over TiO_2 modified by boron and magnesium under UV and visible irradiations** A. Sirisuk, C. Orak, Chulalongkorn University, Bangkok/THA
1.09_6889	PS.28	**Band gap engineering of layered perovskite photocatalysts for visible-light induced water splitting** R. Marschall, J. Soldat, M. Wark, Ruhr-Universität Bochum/D
1.09_6893		**Gold modified N-doped TiO_2 and N-doped WO_3/TiO_2 semiconductors – Photo-catalysts for UV-visible light destruction of 2, 4, 6-trinitrotoluene in aqueous solution** D. Tomova, V. Iliev, S. Rakovsky, A. Eliyas, M. Anachkov, Institute of Catalysis of the BAS, Sofia/BG
1.09_6899		**Synthesis and photocatalytic activity of Ti-based oxides with various sizes and shapes** T. Kimijima, M. Nakaya, K. Kanie, A. Muramatsu, Tohoku University, Sendai/J
1.09_6932		**Low-temperature conversion of biomass to high-value chemicals by means of photocatalysis** J.C. Colmenares Quintero, A. Magdziarz, Institute of Physical Chemistry of the PAS, Warsaw/PL
1.09_6967		**Preferential oxidation of CO in hydrogen using nanosynthesized ZnO photocatalysts promoted and tuned by adsorbed Cu ions** Y. Yoshida, Y. Izumi, T. Itoi, Chiba University/J
1.09_7037		**Graphene and carbon nanotube as Co-catalysts for photocatalytic H_2 production and organic dye degradation** Y. Wang, W. Fan, A. Ye, Q. Lai, Q. Zhang, Xiamen University/PRC
1.09_7056		**Improved photocatalytic hydrogen production by structure optimized non-stoichiometric $Y_2Ti_2O_7$** M. Wark, Ruhr-Universität Bochum/D; O. Merka, University Hannover/D
1.09_7124		**Sprayed layer-by-layer assembly of modified titanium dioxide for self-contaminating textiles under uva irradiation** J. Möller-Siegert, A. Roemer, N. Keller, V. Keller, LMSPC, Strasbourg/F
1.09_7231	PS.28	**Photoelectrochemical water splitting on ordered layers of TiO_2 nanotubes for clean „solar“ H_2 production** T. Cottineau, P.A. Gross, S.R. Pronkin, A. Albrecht, M. Gallart, P. Gilliot, N. Keller, V. Keller, E.R. Savinova, CNRS/University of Strasbourg/F
1.09_7275		**Influence of microwave band irradiation on catalytic reforming systems operating under deleterious conditions** S. Edmund, J. Schwank, University of Michigan, Ann Arbor, MI/USA
1.09_7370		**Density functional theory studies of alkyl adsorption and solvation on Cu(111)** M.M. Montemore, J.W. Medlin, University of Colorado, Boulder, CO/USA

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1.09_7425		**Synthesis of crystalline carbon nitride and its photocatalytic activity** Y. Ham, The University of Tokyo/J; K. Maeda, The University of Tokyo, PRESTO/JST/J; K. Takanabe, KAUST, Thuwal/SAR; K. Domen, The University of Tokyo/J
1.09_7470		**Helium plasma irradiated tungsten oxide as a new visible-light response photocatalyst** T. Yoshida, S. Kajita, R. Etoh, H. Yoshida, N. Ohno, Nagoya University/J
1.09_7480		**Role of Sn doping in the photocatalytic performance of TiO_2/reduced graphene oxide composite** T.-D. Nguyen-Phan, V.H. Pham, J.S. Chung, E.W. Shin, University of Ulsan/ROK
1.09_7502		**TiO_2 coated ZnO nanorod thin films on ITO: preparation, characterization and photocatalytic water splitting activity** M. Safak Boroglu, I. Boz, Istanbul University/TR
1.09_7510		**Mesoporous IrO_2 films templated by PEO-PB-PEO block-copolymers: self-assembly, crystallization behaviour and electro-catalytic performance** E. Ortel, T. Reier, P. Strasser, R. Kraehnert, TU Berlin/D
1.09_7520		**Photocatalytic water oxidation on $BiVO_4$ sheets with different exposures of crystal facet and the electrocatalyst as an oxidation Co-catalyst under visible light irradiation** D.E. Wang, R.G. Li, J. Zhu, J.Y. Shi, J.F. Han, C. Li, Dalian Institute of Chemical Physics/PRC
1.09_7537	PS.24	**Advances in photocatalysis at the frontier of microbiology. From fundamental insights to the design of LED-based photocatalytic air purifier** G. Carré, Strasbourg UniversityStrasbourg University/F; N. Doss, S. Josset, P. Bernhardt, T. Romero, M.J. Ledoux, N. Keller, V. Keller, P. André, F. Goulhen-Chollet, M.-C. Lett, Strasbourg University/F
1.09_7548		**Photocatalytic activity of the overall H_2O splitting on Ga_2O_3 enhanced by surface-phase junction** X. Wang, Q. Xu, M. Li, Y. Wang, Z. Feng, C. Li, Dalian Institute of Chemical Physics/PRC
1.09_7553		**Copper(II) oxide-modified indium oxide: a photocatalyst for mineralization of organic compounds utilizing visible light in the whole range** Y. Sasaki, K. Hashimoto, H. Kominami, Kinki University, Higashiosaka/J
1.09_7554		**Selective photocatalytic oxidation of aromatic alcohols in aqueous suspension of Rh^{3+} modified TiO_2 under visible light irradiation** S. Kitano, A. Tanaka, K. Hashimoto, H. Kominami, Kinki University, Higashiosaka/J
1.09_7586		**Stoichiometric dechlorination of chlorobenzene in aqueous alcohol suspensions of palladium-loaded titanium(IV) oxide photocatalyst** H. Kominami, T. Nishi, K. Fuku, K. Hashimoto, Kinki University, Higashiosaka/J
1.09_7635	PS.28	**Photocatalytic H_2 production on Pt-PdS/CdS with quantum efficiency exceeding 90% under visible light irradiation** J. Yang, H. Yan, X. Wang, F. Wen, J. Shi, C. Li, Dalian Institute of Chemical Physics/PRC
1.09_7661	PS.28	**Cu-Ga selenide photocathodes for water splitting** T. Minegishi, J. Kim, M. Moriya, J. Kubota, K. Domen, The University of Tokyo/J
1.09_7666		**Hydrogen generation by photoelectrocatalytic water splitting** A. Hartmann, T. Schilling, S. Schimpf, M. Bron, University of Halle-Wittenberg/D

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1.09_7757		**Thermo-photocatalytic isomerization of 1-butene over palladium-loaded titanium(IV) oxide particles** Y. Masuda, K. Hashimoto, H. Kominami, Kinki University, Higashiosaka/J
1.09_7783		**Enhancement of visible response in water photo-electrolysis by using size-controlled Au NPs/TiO_2 electrodes** P. Lanzafame, C. Genovese, C. Ampelli, S. Perathoner, G. Centi, University of Messina/I
1.09_7906		**Photocatalytic activities of Fe-modified N- and P-co-doped titanias under visible-light irradiation** T. Tokutome, S. Funatogawa, S. Iwamoto, Gunma University, Kiryu/J
1.09_7908	PS.24	**Photocatalytic removal of organic pollutants on mesoporous carbon nitride under visible light irradiation** L. Yuliati, S.C. Lee, H.O. Lintang, Universiti Teknologi Malaysia, Johor/MAL
1.09_7944	PS.24	**Hybridisation of zeolites with nanocarbons for photocatalytic water purification** P. Gebhardt, University of Münster/D; Z. Ren, University of Cambridge/UK; K.S. Subrahmanyam, C.N.R. Rao, Jawaharlal Nehru Centre for Advanced Scientific Research, Bangalore/IND; D. Eder, University of Münster/D
1.09_7963		**Effect of underlayers on hematite photoanodes for water splitting** T. Hisatomi, Ecole Polytechnique Fédérale de Lausanne, Lausanne/CH; N. Mathews, Nanyang Technological University, Singapore/SGP; H. Dotan, Israel Institute of Technology, Haifa/IL; M.M. Stefik, F. Le Formal, K. Sivula, M. Grätzel, Ecole Polytechnique Fédérale de Lausanne, Lausanne/CH
1.09_7971	PS.11	**CO_2 photoreduction to production of fuels: effect of ZnO on titania photocatalyst** P.N Paulino, V.M.M. Salim, N.S. Resende, Federal University of Rio de Janeiro/BR
1.09_7985		**Synthesis and photocatalytic study of high-surface-area mesoporous $ZnIn_2S_4$ using biotemplated strategy** M. Mao, F. Yu, Z. Yan, W. Wang, A. Li, K. Zheng, J. Wang, Yunnan University, Kunming/PRC
1.09_8012		**Solid-state syntheses of Cu(I)-based group V (V, Nb, Ta) mulitmetal oxides** D. Masih, K. Takanabe, King Abdullah University of Science and Technology, Thuwal/SAR
1.09_8045		**Kinetics of photocatalytic reduction of nitrate in synthetic and real effluent using TiO_2 doped with ZnO as catalyst** D. Luiz, Federal University of Santa Catarina, Florianopolis/BR; H. José, R. Moreira, Federal University of Santa Catarina, Florianópolis/BR
1.09_8057		**Investigation on the electrolysis of water by AP-XPS** R. Arrigo, M. Haevecker, E. Stotz, A. Knop-Gericke, R. Schloegl, Fritz-Haber-Institute, Berlin/D
1.09_8062		**Synergetic interaction between nanostructured manganese oxide and carbon nanotubes for the electrocatalytic splitting of water** K. Mette, Fritz-Haber-Institute, Berlin/D; A. Bergmann, TU Berlin/D; J.P. Tessonnier, University of Delaware, Newark, DE/USA; M. Hävecker, Fritz-Haber-Institute, Berlin/D; T. Ressler, TU Berlin/D; R. Schlögl, Fritz-Haber-Institute, Berlin/D; P. Strasser, TU Berlin/D; M. Behrens, Fritz-Haber-Institute, Berlin/D

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1.09_8101		**Using Uv-vis in the photodegradation of 4-chlorophenol using TiO_2-ZrO_2 as catalysts** A. Pérez Larios, Universidad Nacional Autónoma de México, México D.F./MEX; A. Barrera, Universidad de Guadalajara, Ocotlan/MEX; R. Gomez, Universidad Autónoma Metropolitana-Iztapalapa, México D.F./MEX
1.09_8102		**4-chlorophenol degradation using dioxide titanium nanotubes** A. Pérez Larios, Universidad Nacional Autónoma de México, México D.F./MEX; A. Barrera, Universidad de Guadalajara, Ocotlan/MEX; S.A. Lozano Morales, Instituto Politécnico Nacional-Legaría, México D.F./MEX; R. Gomez, Universidad Autónoma Metropolitana-Iztapalapa, México D.F./MEX
1.09_8118		**Photodegradation of 2,4-D and phenol over PdO photocatalysts supported on Al_2O_3-Nd_2O_3 binary oxides** A. Barrera, Centro Universitario de la Ciénega, Universidad de Guadalajara, Ocotlán, Jalisco/MEX; F. Tzompantzi, G. Jácome-Acatitla, Universidad Autónoma Metropolitana Iztapalapa, México D.F./MEX; M.E. Cano, F. Bonilla, Centro Universitario de la Ciénega, Universidad de Guadalajara, Ocotlán, Jalisco/MEX; R. Gómez, Universidad Autónoma Metropolitana Iztapalapa, México D.F./MEX
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1.10_1072		**In-situ surface enhanced Raman studies of the oxygen electrode** S. Klaus, N.H. Chou, A.T. Bell, University of California, Berkeley, CA/USA
1.10_1089	PS.20	**Excellent catalytic activity of Pt-TiO_2/CNTs with much lower Pt content and smaller size by modified immersion route for direct methanol ele** H. Zhang, X.X. Li, Beijing University of Chemical Technology/PRC
1.10_1115	PS.20	**Methanol electrooxidation on Pt/Mn_3O_4-MWNT** A. Nouralishahi, Y. Mortazavi, A.A. Khodadadi, University of Tehran/IR; A.M. Rashidi, Research Institute of Petroleum Industry, Tehran/IR
1.10_1129	PS.20	**Tin modified Pt electrocatalysts for methanol electrooxidation designed for use in direct methanol fuel cells** D. Guban, Chemical Research Center HAS, Budapest/H; A. Beck, Institute of Isotopes HAS, Budapest/H; I. Borbath, Chemical Research Center HAS, Budapest/H; L. Guczi, Institute of Isotopes HAS, Budapest/H; A. Tompos, Z. Paszti, I. Sajo, Chemical Research Center HAS, Budapest/H
1.10_1186		**Nanostructured catalyst for decomposition of water based on activated alumina, iron, nickel oxides** U. Kerimova, A. Gasimov, E. Ismailov, Y. Yusifov, S. Hajizadeh, N. Aliyev, Institute of Petrochemical Processes of the NAS of Azerbaijan, Baku/AZ
1.10_1208		**Nanostructured $La_{(1-x)}Sr_xFeyCo_{(1-y)})O_3$-delta cathodes for IT-SOFCs: comparison between different synthetic routes and investigation of electrochemical properties** L. Liotta, G. Pantaleo, CNR, Palermo/I; F. Puleo, A. Martorana, University of Palermo/I

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1.10_1271		**Physico-chemical and catalyst properties of high-silica zeolites, MFI-type during propane-butane fraction conversion into arene** V.I. Erofeev, Tomsk Polytechnic University/RUS; G.S. Bozhenkova, Tomsk State University/RUS; R.A. Tregubkin, Tomsk Polytechnic University/RUS; V. Reshetilovski, TU Dresden/D
1.10_1296		**Carbon-supported PtPb intermetallic compounds for electrooxidation of methyl formate** D. Youn, S. Han, G. Bae, J. Lee, Pohang University of Science and Technology (POSTECH)/ROK
1.10_1460		**One-dimensional titanium carbide PEM fuel cell catalyst support** G. Bae, S. Han, D. Youn, J. Lee, POSTECH, Pohang, Kyungbuk/ROK
1.10_1540		**Preparation and catalytic characterization of SOFC-relevant anode materials** R. Thalinger, S. Penner, B. Klötzer, T. Bielz, University of Innsbruck/A
1.10_1598		**Improved hard templating synthesis of high-surface-area mixed metal oxides: tailored catalysts for preferential CO oxidation in excess of H_2** H. Yen, S. Kaliaguine, F. Kleitz, University Laval, Quebec City/CDN
1.10_1737		**New highly active electrocatalysts for PEM fuel cells** M. Özaslan, TU Berlin/D; M. Heggen, Forschungszentrum Jülich/D; F. Hasché, P. Strasser, TU Berlin/D
1.10_1745		**Catalytic and electrochemical properties of ceria materials for low temperature SOFC with direct oxidation of hydrocarbons** N. Cioatera, University of Craiova/RO; S. Somacescu, V. Pârvulescu, „Ilie Murgulescu" Institute of Physical Chemistry of Romanian Academy, Bucharest/RO
1.10_1804	PS.40	**In situ spectroscopy of copper and nickel promoted zirconia based mixed oxides** A. Kitla, K. Foettinger, G. Rupprechter, TU Vienna/A
1.10_1836		**New insights in alloy dynamics of PtNi fuel cell electrocatalyst probed in situ with ASAXS** X. Tuaev, S. Rudi, TU Berlin/D; A. Hoell, Helmholtz Zentrum Berlin/D; P. Strasser, TU Berlin/D
1.10_1844		**Influence of the synthesis method on the formation of vacancies in the structure of $La_{0.8}Sr_{0.2}MnO_3$ used as cathode of SOFC** L. Conceição, N.F.P. Ribeiro, M.M.V.M. Souza, UFRJ, Rio de Janeiro/BR
1.10_1921		**Synthesis and electrochemical analysis of different composition dealloyed bimetallic PtxNiy-nanoparticles for PEMFC** S. Rudi, X. Tuaev, P. Strasser, TU Berlin/D
1.10_1995	PS.20	**Cobalt porphyrin-tungsten polyoxometalate anion as non-noble metal cathode catalyst in a fuel cell** M. Nagai, M. Shirakura, K. Suzaki, H. Tominaga, Tokyo University of Agriculture and Technology, Koganei/J
1.10_2071		**Correlation study between microstructure and catalytic activity of transition metal catalysts for ammonia decomposition** V. Tagliazucca, K. Schlichte, MPI für Kohlenforschung, Mülheim an der Ruhr/D; R. Palkovits, RWTH Aachen/D; F. Schüth, C. Weidenthaler, MPI für Kohlenforschung, Mülheim an der Ruhr/D

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1.10_2088		**Single-cell performances based acid catalyst for H_2/O_2 fuel cells** U. Thanganathan, Okayama University/J; M. Nogami, Nagoya Institute of Technology/J
1.10_6713		**Preferential oxidation of CO over Pt/NiO/Al_2O_3 catalysts** Z. Mohamed, S. Singh, H.B. Friedrich, University of Kwa-Zulu Natal Westville, Durban/ZA
1.10_6716	PS.27	**Nanocatalysts emerging from organometallic chemistry** H. Bönnemann, MPI for Coal Research, Mülheim/Ruhr/D; G. Khelashvili, Strem Chemicals, Inc., Newburyport, MA/USA
1.10_6730		**Electrochemical promotion of catalytic reactions: thermodynamic analysis and calculation of the limits in faradaic efficiency** V. Kyriakou, I. Garagounis, M. Stoukides, Aristotle University and CPERI, Thessaloniki/GR
1.10_6751		**The preferential oxidation of CO to CO_2 using Pt-CuO/Al_2O_3 catalysts** L. Chetty, H.B Friedrich, S. Singh, University of Kwa-Zulu Natal, Durban/ZA
1.10_6793		**Nitrogen-modified carbon nanomaterials as electrocatalysts in the oxygen eduction reaction** W. Xia, J. Masa, A. Zhao, W. Schuhmann, M. Muhler, Ruhr-Universität Bochum/D
1.10_6891		**Steam methane reforming in the presence of H_2S over ceria-based catalysts for IT-SOFC applications** G. Postole, K. Girona, J. Toyir, P. Gelin, University of Lyon, Villeurbanne/F
1.10_6962	PS.31	**Leaching in steady-state operation of Pt-Co PEM fuel cell cathodes. A XAFS study on working polymer-membrane assemblies** I. Sinev, O. Petrova, Ruhr-Universität Bochum/D; C. Kulp, University of Halle-Wittenberg/D; M. Lopez, Umicore AG & Co. KG, Hanau/D; M. Bron, University of Halle-Wittenberg/D; W. Grünert, Ruhr-Universität Bochum/D
1.10_7119		**Preparation and characterisation of component-controlled core-shell nanoparticle for PEMFC cathode** W.-D. Lee, I.-H. Ko, J.Y. Baek, H.-I. Lee, Seoul National University/ROK
1.10_7153		**Surface characterisations and parametric studies on CO-PROX over Cu/Ti-SBA15; effect of CO_2 and H_2O** J.H. Lee, J.S Lee, J.W. Kim, S.J Choung, Kyung Hee University, Gyeonggi-do/ROK
1.10_7235		**Bio-oil internal reforming in a solid oxide fuel cell reactor** N. Kaklidis, University of Western Macedonia, Kozani/GR; V. Besikiotis, University of Oslo/N; G. Marnellos, University of Western Macedonia, Kozani/GR
1.10_7268		**Ceria-gadolinia Supported Ni-Cu Catalyst Suitable to Produce Syngas by Biogas Reforming at LT-SOFC Anode** G. Bonura, A. Mezzapica, C. Cannilla, F. Frusteri, CNR-ITAE, Messina/I
1.10_7388	PS.20	**Nano-sized nitrides for oxygen reduction reaction catalysts** R. Ohnishi, M. Katayama, J. Kubota, K. Domen, University of Tokyo/J; K. Takanabe, KAUST Catalysis Center, Jeddah/SAR
1.10_7394	PS.11	**Photocatalytic enhancement of thermally-driven reactions: photothermal CO-oxidation over Au/TiO_2** T. Westrich, K. Dahlberg, J. Schwank, University of Michigan, Ann Arbor, MI/USA
1.10_7398		**Core-shell structure Ru@Pt/C catalyst with ultra high performance prepared by pulse electro deposition approach** Y.X. Li, S.J. Liao, School of Chemistry and Chemical Engineering, South China University of Technology, Guangzhou/PRC

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1.10_7408	PS.29	**Binary oxide-doped Pt/RuO_2-SiO_x/C catalyst with high performance and self-humidification capability: the promotion of ruthenium oxide** Q. Zeng, S.J. Liao, School of Chemistry and Chemical Engineering, South China University of Technology, Guangzhou/PRC
1.10_7410		**Tungsten oxide-promoted hydrogen oxidation in the development of non-Pt anode catalyst in PEMFCs** K. Kwon, Sejong University, Seoul/ROK; S.-A. Jin, K.H. Lee, D.J. You, C. Pak, Samsung Advanced Institute of Technology, Yongin/ROK
1.10_7534	PS.20	**The characteristics of tantalum-based catalysts prepared by electrodeposition on carbon supports for A cathode of polymer electrolyte fuel cells** J. Seo, University of Tokyo/J; K. Takanabe, KAUST, Thuwal/SAR; J. Kubota, K. Domen, University of Tokyo/J
1.10_7573		**Manganese-promoted cobalt oxide with high catalytic activity in different reactions** K. Frey, A. Beck, Institute of Isotopes, Budapest/H; I. Sajó, Chemical Research Center, Budapest/H; J. Osán, Atomic Energy Research Institute, Budapest/H; G. Sáfrán, Research Institute for Technical Physics and Materials Science, Budapest/H; M. Veres, Research Institute for Solid State Physics and Optics, Budapest/H; N. Kruse, Free University of Brussels/B; Z. Schay, Institute of Isotopes, Budapest/H
1.10_7642		**CO-PROX reaction catalysed by $CuO/Cu_2(OH)_3NO_3(Co^{2+}/Fe^{3+})$ composite oxide catalyst** V.L. Veselovskyi, E.V. Ischenko, S.V. Gayday, V.V. Lisnyak, Kyiv National Taras Shevchenko University/UA
1.10_7651		**Alumina-supported $LaCoO_3$ perovskite: preparation, characterisation and catalytic potentiality for the selective CO oxidation** F. Toniolo, C.A. Chagas, R.N. Magalhães, M. Schmal, Federal University of Rio de Janeiro/BR
1.10_7712		**Ceria composite nano-rod for PEM fuel cells** N.A. Tapan, E. Gokkaya, Gazi University, Ankara/TR
1.10_7738		**Products analysis of glycerol electrooxidation over Pt-based alloy catalysts for energy and chemicals generation** S. Lee, H.J. Kim, Y. Kim, W.B. Kim, Gwangju Institute of Science and Technology (GIST)/ROK
1.10_7745		**Microwave modified AuPt nanoparticles with enhanced catalytic activity for methanol oxidation** X.K. Yang, L.Y. Chen, H.I. Wen, M.G. Xu, Kunming University of Science and Technology/PRC; J.Q. Wang, Yunnan University, Kunming/PRC; L.L. Ma, Kunming Yanan Hospital/PRC
1.10_7868		**Silica-coated Pt cathode catalysts with high durability for polymer electrolyte fuel cells** S. Takenaka, H. Matsumori, T. Tsukamoto, H. Matsune, M. Kishida, Kyushu University, Fukuoka/J
1.10_7879		**Self-assembly of Au core @ Ag shell nanoparticles synthetized by photochemical on the surface of functional MWCNTs** M.L. Xu, Kunming University of Science and Technology/PRC; Y.N. Dong, Shenyang College of Engineering/PRC; X.K. Yang, Kunming University of Science and Technology/PRC
1.10_7881		**Preparation of highly dispersed Ir/C catalysts and catalytic activity for methanol electro-oxidation** L.Q. Yang, J.J. Duan, Z.F. Zhang, K.J. Jiang, L.Y. Chen, M.L. Xu, X.K. Yang, Kunming University of Science and Technology/PRC

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1.10_7883		**Methanol oxidation on multiwalled carbon nanotubes supported Pd-decorated Au and Au@Pd core-shell catalysts** Y.Y. Xu, Y.N. Dong, J.H. Wang, M.L. Xu, X.K. Yang, Kunming University of Science and Technology/PRC
1.10_7901	PS.18	**Influence of basicity of Cu-based mixed oxide catalysts on the catalytic activity of water-gas-shift reaction** K. Sagata, N. Imazu, H. Yahiro, Ehime University, Matsuyama/J
1.10_8060		**The role of copper on the properties of Au/TiO_2 catalysts for PROX** H. Ferreira, University Federal da Bahia, Salvador/BR; S. Pronier, Université de Poitiers/F; M.C. Rangel, Universidade Federal da Bahia, Salvador/BR; D. Duprez, N. Bion, F. Epron, Université de Poitiers/F
1.10_8109		**Catalytic oxidation of methane over Ni-Cu/$Ce_{0.9}Zr_{0.1}O_2$ nanopowders** L.M. Toscani, M.G. Zimicz, CINSO-UNIDEF-MINDEF-CONICET, Villa Martelli/RA; D.G. Lamas, Universidad Nacional del Comahue, Neuquén/RA; S.A. Larrondo, CINSO-UNIDEF-MINDEF-CONICET, Villa Martelli/RA
		Synthesis gas generation and catalytic conversion
1.11_1046		**Fumed silica-templated silicon carbide as catalyst support** C. Hoffmann, S. Kaskel, Dresden University of Technology/D
1.11_1065		**Sn addition to CuCo/SiO_2: effect on dispersion and CO adsorption** M.L. Smith, J.J. Spivey, Louisiana State University, Baton Rouge, LA/USA
1.11_1067	PS.06	**Novel highly active and selective Cu-Ni based methanol synthesis catalyst** Q. Wu, J.M. Christensen, A.D. Jensen, Technical University of Denmark, Lyngby/DK; F. Studt, F. Abild-Pedersen, SLAC National Accelerator Laboratory, Menlo Park, CA/USA; J.K. Nørskov, SLAC National Accelerator Laboratory, Menlo Park and Standford University, CA/USA; B. Temel, Haldor Topsøe A/S, Lyngby/DK; G.L. Chiarello, J. Grunwaldt, Karlsruhe Institute of Technology/D
1.11_1077		**Nickel catalysts derived from hydrotalcite-like compounds for steam reforming of biomass tar** F.M. Josuinkas, Federal University of Rio de Janeiro/BR; C.P.B. Quitete, Petrobras-CENPES, Rio de Janeiro/BR; N.F.P. Ribeiro, M.M.V.M. Souza, Federal University of Rio de Janeiro/BR
1.11_1095		**Enhancing performance of supported Cu catalysts with gold for selective hydrogenation of dimethyl oxalate to ethylene glycol** Y.N. Wang, X.P. Duan, J.W. Zheng, H.Q. Lin, Y.Z. Yuan, Xiamen University/PRC
1.11_1111	PS.41	**Oxidative steam reforming of ethanol over Ir/CeO_2 catalysts: a structure sensitivity analysis** W. Cai, IRCELYON, Lyon/PRC; C. Daniel, Y. Schuurman, C. Descorme, H. Provendier, A.C. van Veen, IRCELYON, Lyon/F; W. Shen, Dalian University of Technology/PRC; C. Mirodatos, IRCELYON, Lyon/F
1.11_1113		**CO_2 reforming of methane to syngas over Ru/Y_2O_3 catalysts** H.M. Liu, D.H. He, Tsinghua University, Beijing/PRC
1.11_1118		**A time-resolved *in-situ* Quick-XAS investigation of the preparation of Fischer-Tropsch silica-supported cobalt catalysts** J. Hong, E. Marceau, L. Gaberová, UPMC/CNRS, Paris/F; J. Hong, A.Y. Khodakov, A. Griboval-Constant, J.S. Girardon, Université Lille 1/CNRS, Villeneuve d'Ascq/F; C. La Fontaine, V. Briois, Soleil, Gif-sur Yvette/F

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1.11_1150		**A carbide catalyst effective for the dry reforming of methane at atmospheric pressure** C. Shi, A. Zhang, S. Zhang, Dalian University of Technology/PRC
1.11_1153		**Oscillations in oxidation of light alkanes over nickel: an experimental and theoretical study** V.V. Kaichev, E.A. Lashina, V.V. Ustugov, N.A. Chumakova, A.A. Saraev, A.Yu. Gladky, I.P. Prosvirin, V.I. Bukhtiyarov, Boreskov Institute of Catalysis, Novosibirsk/RUS; G.A. Chumakov, Sobolev Institute of Mathematics, Novosibirsk/RUS; A. Knop-Gericke, R. Schlogl, Fritz-Haber-Institute, Berlin/D
1.11_1168		**One-pot synthesis of mesoporous Ni-Ln (Ln = Ce, La, Sm, Pr)-Al-O composite oxides and their catalytic properties in CO_2 reforming of CH_4** L.L. Xu, H. Song, L. Chou, Lanzhou Institute of Chemical Physics/PRC
1.11_1179		**Methane dry-reforming over Ni zeolite supported catalysts** P. Frontera, Mediterranea University, Reggio Calabria/I; A. Macario, University of Calabria, Rende/I; P.L. Antonucci, Mediterranea University, Reggio Calabria/I; G. Giordano, University of Calabria, Rende/I
1.11_1185	PS.07	**Controlled synthesis of β-MoO_3/ α-Fe_2O_3 thin film catalysts for methanol oxidation to formaldehyde** G. Shi, Yangzhou University/PRC; M. Muhler, Ruhr-Universität Bochum/D
1.11_1187		**Partial oxidation of methane over effective high dispersed Ni/SiO_2 catalysts synthesized by a sol-gel method** W.S. Xia, G. Chang, W.Z. Weng, Y.H. Hou, G.B. Han, H.L. Wan, Xiamen University/PRC
1.11_1219	PS.01	**Unusual particle size dependence in Fischer-Tropsch synthesis** X.Y. Quek, R.A. van Santen, E.J.M. Hensen, Eindhoven University of Technology/NL
1.11_1249		**DME carbonylation over ZSM-35 zeolite: selection of optimal Si/Al ratio and modification conditions** X. Li, S. Xie, S. Liu, W. Xin, D. Zhang, L. Xu, Dalian Institute of Chemical Physics/PRC
1.11_1265		**Low temperature ignition of partial oxidation of methane on Pd/Ni/$LaAlO_3$ catalyst** K. Tanaka, D. Mukai, E. Kikuchi, Y. Sekine, Waseda University, Tokyo/J
1.11_1332		**Catalyst modification for enhanced Fischer-Tropsch selectivity** V. Sage, CSIRO, Kensington/AUS; N. Burke, K. Chiang, CSIRO, Clayton/AUS; H. Jani, P. Hazewinkel, CSIRO, Kensington/AUS
1.11_1335		**Influence of the carbon on catalytic activity of noble metal perovskite-type mixed oxide for CO_2 reforming of methane** H.R. Arandiyan, C.X. Liu, L. Ma, J.H. Chen, J.H. Li, Tsinghua University, Beijing/PRC
1.11_1339		**Catalytic ignition of light hydrocarbons on Rh-Al_2O_3 catalyst by using a stagnation point flow reactor** J.N. Bär, C. Karakaya, O. Deutschmann, Karlsruhe Institute of Technology/D
1.11_1355		**Cation-oligomer interaction in solvent: an effective method to improve the promotional efficiency of Ru for supported Co-based catalyst** Q. Han, N. Yao, Y.M. Shi, X.N. Li, Zhejiang University of Technology, Hangzhou/PRC
1.11_1422	PS.06	**The role of manganese in Cu-Zn-Mn/zeolite-Y catalyst for syngas to dimethyl ether** J. Fei, Q. Yang, X. Tang, Z. Hou, X. Zheng, Zhejiang University, Hangzhou/PRC
1.11_1454		**The P-modified Fischer-Tropsch Co catalyst for slurry phase reactor** K.-S. Ha, G.-I. Jung, S.-J. Park, G. Kwak, D.-E. Kim, J.-H. Jung, K.-W. Jun, Korea Research Institute of Chemical Technology, Daejeon/ROK

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1.11_1469	PS.09	**Mechanism of CH_4 dry reforming on oxides with high oxygen mobility promoted by Pt, Ru, Ni and Ni-Ru** V. Sadykov, N. Mezentseva, V. Rogov, A. Bobin, G. Alikina, E. Sadovskaya, S. Veniaminov, L. Kapokova, S. Pavlova, Novosibirsk State University/RUS; Y. Schuurman, C. Mirodatos, Institut de Recherches sur la Catalyse et l'Environnement de Lyon/F
1.11_1480		**Insights into polymeric carbon formation during Fischer-Tropsch synthesis** C.J. Weststrate, I.M. Ciobica, Sasol Technology Netherlands BV, Eindhoven/NL; A.M. Saib, Sasol Technology (Pty) Ltd, Sasolburg/ZA; J.W. Niemantsverdriet, Eindhoven University of Technology, Eindhoven/NL
1.11_1489		**Nanospatial distribution of supported Cu particles: consequences on catalytic stability under methanol synthesis conditions** G. Prieto, J. Zecevic, H. Friedrich, K.P. de Jong, P.E. de Jongh, Utrecht University/NL
1.11_1497	PS.39	**Liquid transportation fuel by direct hydrogenation of CO_2 with iron-based catalyst** M. Landau, R. Vidruk, G. Guendelman, M. Herskowitz, Ben-Gurion University of the Negev, Beer-Sheva/IL
1.11_1539		**Preparation of Co/SiO_2 Fischer-Tropsch catalysts by freeze drying** P. Munnik, T.M. Eggenhuisen, P.E. de Jongh, K.P. de Jong, Utrecht University/NL
1.11_1546		**Effect of preparation method of ZrO_2 on catalytic performance in CO hydrogenation to isobutene** R.J. Zhang, D.H. He, Tsinghua University, Beijing/PRC
1.11_1548		**Oxidation and reforming of light hydrocarbons over platinum catalysts: development of a unified surface reaction mechanism** L. Burger, L. Maier, O. Deutschmann, Karlsruhe Institute of Technology/D
1.11_1553		**Adsorption of H_2 and CO on cobalt supported catalysts for the FT synthesis studied by microcalorimetry – Effect of cobalt particle size** E. Patanou, D. Chen, E.A. Blekkan, Norwegian University of Science and Technology (NTNU), Trondheim/N
1.11_1582		**Iron-based Fischer Tropsch catalyst: effect of different metal loadings and operating conditions on product distribution** Ö. Atac, Tübitak Marmara Research Center, Kocaeli/TR; S. Aydinoglu, Beykent University, Istanbul/TR; S. Kinayyigit, Ö.F. Gül, S. Sal, M. Baranak, Tübitak Marmara Research Center, Kocaeli/TR; I. Boz, Istanbul University/TR
1.11_1595		**Kinetic and process study of ethanol steam reforming over hydrotalcite-derived Ni/Mg-Al catalyst** G. Zeng, University of Oslo/N; Y.D. Li, Tianjin University/PRC; U. Olsbye, University of Oslo/N
1.11_1601	PS.18	**Molecular-level understanding of the kinetic role of CO_2 in reforming processes on Rh** M. Maestri, Politecnico di Milano/I; K. Reuter, TU München/D
1.11_1605		**Comparative study on Au-modified $Ni/MgAl_2O_4$ catalysts for dry reforming of methane** A. Horváth, Gy. Stefler, Institute of Isotopes, Budapest/H; V. La Parola, L.F. Liotta, G. Pantaleo, A. Venezia, ISMN-CNR, Palermo/I; L. Guczi, Institute of Isotopes, Budapest/H

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1.11_1611		**Phase transformations throughout the induction period of γ-Al_2O_3 supported Co-based Fischer-Tropsch catalysts** N. Tsakoumis, A. Voronov, M. Rønning, Norwegian University of Science and Technology, Trondheim/N; Ø. Borg, E. Rytter, Statoil, Trondheim/N; A. Holmen, Norwegian University of Science and Technology, Trondheim/N
1.11_1622	PS.40	**Transient kinetics and DRIFTS studies of CoCu catalysts for CO hydrogenation** Y. Xiang, p. Dulgheru, N. Kruse, Université Libre de Bruxelles/B
1.11_1626		**Production of gasoline-range hydrocarbons over dealuminated zeolite supported iron catalysts in Fischer Tropsch synthesis** M. Baranak, TUBITAK Marmara Research Center, Kocaeli/TR; B. Gurunlu, Istanbul Technical University/TR; A. Sarioglan, TUBITAK Marmara Research Center, Kocaeli/TR; H. Atakul, Istanbul Technical University/TR
1.11_1672		**Microchannel catalyst configurations for oxidative steam reforming of methane to syngas** M. Karakaya, E. Simsek, Z.I. Onsan, A.K. Avci, Bogazici University, Istanbul/TR
1.11_1696		**Impact of low levels of ammonia in syngas on the Fischer-Tropsch synthesis performance of cobalt and iron catalysts in fixed-bed operation** H. Robota, J. Alger, University of Datyon Research Institutes, OH/USA; J. Pretorius, Alberta Innovates Technology Futures, Edmonton/CDN
1.11_1765	PS.31	**Hard X-ray nanotomography of catalytic solids at work** I. Gonzalez-Jiminez, K. Cats, Utrecht University/NL; M. Ruitenbeek, T. Davidian, Dow Benelux B.V., Terneuzen/NL; F. Meirer, Fondazione Bruno Kessler, Povo/I; Y. Liu, J. Nelson, J.C. Andrews, P. Pianetta, Stanford Synchrotron Radiation Lightsource, Menlo Park, CA/USA; F.M.F. de Groot, B.M. Weckhuysen, Utrecht University/NL
1.11_1786	PS.09	**Catalytic properties of nanoparticles of nickel ferrite in the dry reforming of methane: the influence of structural properties** R. Benrabaa, USTHB, Algiers/DZ; A. Löfberg, C. Lancelot, USTL, Lille/F; R.-N. Vannier, E. Bordes-Richard, USTL-ENSCL, Lille/F; A. Barama, USTHB, Algiers/DZ
1.11_1838		**ETS-10 microporous titanosilicate as support for Ru nanoparticles** B. Faroldi, E.A. Lombardo, L.M. Cornaglia, INCAPE, Santa Fe/RA; S. Irusta, Universidad de Zaragoza-INA/E
1.11_1860		**Rh structured catalysts for syngas production. Electrosynthesis and characterization by γ-XRF/XRD tomography and γ-XRF/XANES at synchrotron** P. Benito, University of Bologna/I; W. de Nolf, G. Nuyts, University of Antwerp/B; M. Monti, F. Basile, G. Fornasari, University of Bologna/I; K. Janssens, University of Antwerp/B; E. Scavetta, D. Tonelli, A. Vaccari, University of Bologna/I
1.11_1863		**Partial oxidation of methane over Ni and Pd CeO_2 modified catalysis** L.M.T.S. Rodrigues, R.B. da Silva Jr., M.G.C. Rocha, Universidade Federal da Bahia, Salvador/BR; F.B. Noronha, Instituto Nacional de Tecnologia, Salvador/BR; S.T. Brandao, Universidade Federal da Bahia, Salvador/BR
1.11_1920		**Catalytic performances of hydrotalcites type catalysts for methane dry reforming reaction** Z. Abdelssadek, USTHB, Algiers/DZ; K. Bachari, CRAPC, Algiers/DZ; A. Saadi, O. Cherifi, D. Halliche, USTHB, Algiers/DZ
1.11_1931		**Modulation of the Rh^0/ $Rh^{\delta+}$ surface ratio by Zr in dry reforming of methane on Rh over Zr-grafted alumina catalysts** C. Fernández, Université Catholique de Louvain, Louvain-la-Neuve/B; N. Miranda, X. García, Universidad de Concepción/RCH; A. Karelovic, P. Ruiz, Université Catholique de Louvain, Louvain-la-Neuve/B; A. Gordon, R. Jimenez, Universidad de Concepción/RCH

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1.11_1942		**One step DME synthesis over bifunctional catalyst** J. Abu-Dahrieh, D. Rooney, Queen's University, Belfast/UK
1.11_1943		**Kinetics of the deactivation of low temperature WGS reaction over gold based catalyst** J. Abu-Dahrieh, D. Rooney, Queen's University, Belfast/UK
1.11_1944		**CO_2 reforming of methane over novel supported nickel catalyst** H. Al Megren, KACST, Riyadh/SAR; T. Xiao, P. Edwards, Oxford University/UK; Y. Huang, H. Chen, Boxenergy Tech, Guangzhou/PRC
1.11_1947		**CO_2 reforming of methane over hydrotalcite derived catalysts, eEffect of Si introduction** B. Djebarri, USTHB University, Algiers/DZ; V. Gonzalez-Delacruz, CSIC-University of Sevilla/E; K. Bacharri, CRAPC, Algiers/DZ; A. Saadi, O. Cherifi, USTHB University, Algiers/DZ; J.P. Holgado, A. Caballero, CSIC-University of Sevilla/E; D. Halliche, USTHB University, Algiers/E
1.11_1959	PS.34	**Hydrolysis – hydrogenation of soybean oil and tallow** G.Ch. Diaz, Federal University of Rio de Janeiro/BR; N.O Tapanes, State University of Western Rio de Janeiro/BR; D.A.G. Aranda, R.S. Perez, Federal University of Rio de Janeiro/BR
1.11_1992	PS.13	**Effect of carbon nanotubes as a support for iron Fischer-Tropsch catalysts: structure and catalytic performance** K. Keyvanloo, K.M. Brunner, C.H. Bartholomew, W.C. Hecker, Brigham Young University, Provo, UT/USA
1.11_2003		**Reforming of methane by CO_2 over a highly dispersed nickel supported catalyst** Y. Liu, X. Lv, J. F. Chen, Y. Zhang, Beijing University of Chemical Technology/PRC
1.11_2008	PS.09	**Variation of sulfur impact with fuel type for partial oxidation reforming catalysts: inhibition of S impact by aromatic content** G.B. Fisher, University of Michigan, Ann Arbor, MI/USA
1.11_2025		**Supported group VIIb metals as satalysts for dry reforming of methane with carbon dioxide** B. Stolze, A. Peters, Universität Leipzig/D; S. Schunk, hte AG, Heidelberg/D; E. Schwab, A. Milanov, BASF SE, Ludwigshafen/D; R. Gläser, Universität Leipzig/D
1.11_2028		**From cellular ceramics to catalysts for green propulsion applications** R. Brahmi, University Chouaib Doukkali, El Jadida/MA; K. Farhat, University of Poitiers/F; S. Keav, university of Poitiers/F; M. Saouabé, R. Amrousse, Y. Batonneau, C. Kappenstein, University of Poitiers/F; B. Cartoixa, CTI, Salindres/F
1.11_2043		**Research of Fischer-Tropsch synthesis on Co-based catalysts** J. Wang, D. Li, B. Hou, L. Jia, Y. Sun, Institute of Coal Chemistry, Taiyuan/PRC
1.11_2056	PS.01	**Relevance of partially oxidized Ru particles for the CO hydrogenation** J.M. González-Carballo, F.J. Pérez-Alonso, M. Ojeda, J.L.G. Fierro, S. Rojas, CSIC, Madrid/E
1.11_2061		**Study of interaction of SO_2 with O_2 with 9%Ni-Cu-Cr/2%Ce/(θ+α)-Al_2O_3 by IR spectroscopy and thermal desorption** A.K. Umbetkaliev, S.A. Tungatarova, Z.T. Zheksenbaeva, E. Shaizadauly, K. Kasymkan, D.V.Sokolsky Institute of Organic Catalysis and Electrochemistry, Almaty/KAZ
1.11_2064		**Barium oxide modified CuZnAlZr-O catalyst for higher alcohols synthesis from syngas** Q.F. Zhu, R.J. Zhang, D.H. He, Tsinghua University, Beijing/PRC

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1.11_2095		**A novel surface impregnation combustion method to prepare nano-structured metallic catalysts directly without further reduction: as-burnt Co/SiO_2 catalysts for Fischer-Tropsch synthesis** L. Shi, N. Tsubaki, University of Toyama/J
1.11_6609		**Syngas production by the reverse water gas shift reaction using perovskite-type oxide catalysts** Y. Saito, A. Ando, H. Takagi, Murata Manufacturing Co., Ltd., Nagaokakyo-shi/J
1.11_6627		**Effect of AlN doping on performance of Ni/ZrO_2-AlN in methane conversion to syngas** H.M. Liu, D.H. He, Tsinghua University, Beijing/PRC
1.11_6669	PS.13	**Higher alcohols synthesis from syngas over carbon-nanotube supported iron-chromium catalysts** Q. Wu, T.M.H. Arndal, L.L. Jensen, J.M. Christensen, A.D. Jensen, L.D.L. Duchstein, Technical University of Denmark, Lyngby/DK; B. Temel, Haldor Topsøe A/S, Lyngby/DK; J. Grunwaldt, Karlsruhe Institute of Technology/D
1.11_6679	PS.01	**Effect of surface acidity/basicity on the adsorption of H_2 and CO on supported Co catalysts for Fischer-Tropsch synthesis** L. Chen, J. Shen, Nanjing University/PRC
1.11_6715		**CuFe bimetallic nanocatalyst for C_6^+OH higher alcohols synthesis from syngas** K. Xiao, L.-S. Zhong, Z.-H. Bao, X.-Z. Qi, K.-G. Fang, M.-G. Lin, Y.-H. Sun, Shanghai Advanced Research Institute/PRC
1.11_6722		**In-situ DRIFTS study on the effect of H_2 preadsorption on CO adsorption behavior** N. Kumar, J. Spivey, Louisiana State University, Baton Rouge, LA/USA
1.11_6792	PS.13	**Nitrogen- and oxygen-functionalized carbon nanotubes supported iron nanoparticles as highly active and selective catalysts in the high-temperature Fischer-Tropsch olefin synthesis** H. Schulte, W. Xia, M. Muhler, Ruhr-Universität Bochum/D
1.11_6842		**Silica-encapsulated bimetallic Co-Ni nanoparticles as novel catalysts for partial oxidation of methane to syngas** L. Li, Y. Song, Y. Yao, J. Zhao, W. Ji, W. Ding, Nanjing University/PRC
1.11_6856		**On the activity and selectivity of syngas conversion processes** F. Studt, F. Abild-Pedersen, J.K. Nørskov, SLAC National Accelerator Laboratory, Menlo Park, CA/USA
1.11_6873		**Tungsten phosphide catalysts for methane reforming with carbon dioxide to hydrogen and carbon monoxide** X. Li, C. Yang, Y. Yang, A. Yang, Nanchang University/PRC
1.11_6882		**5 kWe + 5 kWt PEMFC generator from bioethanol: a demonstrative project** I. Rossetti, C. Biffi, L. Forni, G.F. Tantardini, G. Faita, M. Raimondi, Università degli Studi di Milano/I; E. Vitto, D. Alberti, Linea Energia, Rovato (BS)/I

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1.11_6894		**Silica-supported Fe-Rh bimetallic catalysts: preparations and properties** E. Bonnefille, J.-P. Candy, J.-M. Millet, CNRS, Villeurbanne/F; J.-M. Basset, KAUST, Thuwal/SAR; R.P. Tooze, R. Bellabarba, Sasol, St. Andrews/UK; J. Thivolle-Cazat, CNRS, Villeurbanne/F
1.11_6919		**Alumina-supported molybdenum carbide catalyst for Fischer-Tropsch synthesis: effect of Mo loading and reaction conditions** D.V.N. Vo, B. Abdullah, A. Siahvashi, A.A. Adesina, The University of New South Wales, Sydney/AUS
1.11_6952	PS.01	**Fischer-Tropsch performance correlated to catalyst structure: trends in activity *and* stability for a silica-supported Co catalyst** L.A. Richard, P. Moreau, S. Rugmini, F. Daly, Oxford Catalysts/UK
1.11_6998		**Steam reforming of ethanol over Pt, Ru and Rh catalysts** M. Bilal, S.D. Jackson, University of Glasgow/UK
1.11_7030		**Highly efficient chemo-selective synthesis of ethanol and ethylene glycol via syngas** H. Yue, S. Zhao, Y. Zhao, L. Zhao, S. Wang, X. Ma, J. Gong, Tianjin University/PRC
1.11_7031		**Low-temperature selective hydrogenation of dimethyl oxalate to methyl glycolate over AuAg/SBA-15 bimetallic catalyst** H. Lin, J. Zheng, X. Duan, X. Zheng, Y. Yuan, Xiamen University/PRC
1.11_7035	PS.13	**Highly selective bifunctional Fischer-Tropsch catalysts based on mesoporous zeolites** K. Cheng, L. Zhang, Q. Zhang, Y. Wang, Xiamen University/PRC; J. Kang, Y. Lou, W. Hua, J. Ding, Yantai Wanhua Polyurethanes Co./PRC
1.11_7038		**A novel $Fe_{1-x}O$-based catalyst with the high olefine selectivity for Fischer-Tropsch synthesis** H. Liu, X. Yang, Y. Cen, H. Tang, Zhejiang University of Technology, Hangzhou/PRC
1.11_7039		**Illegitimacy phenomena of kinetics over Ru/AC catalyst for ammonia synthesis** H. Liu, W. Han, C. Huo, Y. Li, K. Zhang, Zhejiang University of Technology, Hangzhou/PRC
1.11_7040		**Effect of EDTA modification on the Ba-MgO support and Its-supported Ru catalysts for ammonia synthesis** C. Huo, M. Pan, X. Yang, H. Liu, Zhejiang University of Technology, Hangzhou/PRC
1.11_7041		**An efficient two-step wet oxidation route for the preparation of activated carbon supported ruthenium catalysts with high catalytic performance** Y. Li, G. Feng, W. Han, H. Liu, Zhejiang University of Technology, Hangzhou/PRC
1.11_7042		**TPD and TPSR study of CO interaction with pretreated fused iron catalysts** X. Yang, H. Liu, C. Huo, Zhejiang University of Technology, Hangzhou/PRC
1.11_7059		**CO hydrogenation to C_2-oxygenates over Rh-Mn-Fe-Li/SiO_2 catalysts: influence of calcining temperature** S. Liu, Q.Y. Song, Y.D. Wang, China Petroleum & Chemical Corporation, Shanghai/PRC

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1.11_7086	PS.40	**Three-dimensional mapping of catalyst bodies with diagonal offset raman spectroscopy** E.K. Gibson, M.W. Zandbergen, S.D.M. Jacques, B.M. Weckhuysen, A.M. Beale, Utrecht University/NL
1.11_7134		**Microkinetic analysis of direct and hydrogen assisted CO activation on Co surfaces** J.-A. Van den Berg, P. Van Helden, Sasol Technology, Sasolburg/ZA; I.M. Ciobica, Sasol Technology Netherlands B.V., Eindhoven/NL
1.11_7141		**Catalytic wet air oxidation over carbon based catalysts** A. Shahul Hameed, E. Piperopoulos, University of Messina/I; S. Santangelo, University „Mediterranea“, Reggio Calabria/I; M. Lanza, C.N.R. Institute for Chemical Physics Processes, Messina/I; S. Galvagno, C. Milone, University of Messina/I
1.11_7142		**Operando IR investigation of Fischer-Tropsch synthesis on alumina supported cobalt catalysts under realistic reaction conditions** M. Sadeqzadeh, C. Dujardin, J. Hong, A.Y. Khodakov, Ecole Centrale de Lille, Villeneuve d'Ascq/F; P. Fongarland, Université Claude Bernard Lyon 1, Villeurbanne/F; D. Curulla-Ferré, F. Luck, J. Bousquet, D. Schweich, Total S.A., Paris/F
1.11_7144		**Evidence of subsurface carbon and enhanced Ce activation on a palladium supported catalyst for methane dry reforming** M.D. Sánchez, Universidad Nacional del Sur, Bahía Blanca/RA; I.O. Costilla, C.E. Gigola, Planta Piloto de Ingeniería Química (UNS-CONICET), Bahía Blanca/RA; B. Mei, M. Muhler, Ruhr-Universität Bochum/D
1.11_7151		**Tri-reforming of methane on the structured Ni-based composites and SOFC anode materials** Ie.V. Gubareni, V.I. Chedryk, S.M. Orlyk, S.O. Soloviev, L.V. Pisarzhevskii Institute of Physical Chemistry of NAS of Ukraine, Kyiv/UA
1.11_7164		**Modeling oxidation and reforming of hydrogen, carbon monoxide, and methane over nickel catalysts** K. Herrera Delgado, L. Maier, O. Deutschmann, Karlsruhe Institut of Technology/D
1.11_7174		**Catalytic dehydration of methanol to DME over Al-HMS** M.H. Peyrovi, B. Sabour, Shahid Beheshti University, Tehran/IR; M. Rashidzadeh, Research Institute of Petroleum Industry, Tehran/IR
1.11_7215		**Nickel promoted niobium and tungsten based catalysts for fluid catalytic cracking and hydrocracking pre-treatment catalysts** K. Bouadjadja-Rohan, IFP EN/UCCS UST Lille, Villeneuve d'Ascq/F; A. Bonduelle, A. Hugon, IFP EN, Solaize/F; C. Lancelot, C. Lamonier, UCCS UST Lille, Villeneuve d'Ascq/F
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1.11_7265	PS.35	**A quantum mechanical modelling study of methane oxidation over YSZ materials** C. Cooper, R. Oldman, R. Catlow, University College London/UK
1.11_7283	PS.01	**Fast predict of CO activation pathway in Fischer-Tropsch process** X.-M. Cao, P. Hu, East China University of Science and Technology, Shanghai/PRC

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1.11_7321		**Iron-silica interactions by molecular design: chemical promotion of iron-based FT-catalysts by surface siloxane groups** R.P. Mogorosi, N. Fischer, M. Claeys, E. van Steen, University of Cape Town, Rondebosch/ZA
1.11_7331	PS.39	**Effect of water on low temperature conversion of CO and CO_2 to methanol on copper** C.A. Mims, University of Toronto/CDN; Y. Yang, D. Mei, C.H.F. Peden, Pacific Northwest National Laboratory, Richland, WA/USA; C. Campbell, University of Washington, Seattle, WA/USA
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1.11_7363	PS.01	**The effects of reduction-oxidation-reduction activation and ruthenium promotor on alumina supported cobalt catalysts** L. Tang, D. Yamaguchi, L. Wong, S. Sage, N. Burke, K. Chiang, CSIRO, Clayton,VIC/AUS
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1.11_7424		**The specific features of methane transformation mechanism on Pt/fluorite catalysts** T. Kuznetsova, V. Rogov, V. Sadykov, Boreskov Institute of Catalysis, Novosibirsk/RUS
1.11_7440		**Channel-type reactor for the Fischer-Tropsch synthesis with enhanced heat transfer capability** K. Jun, K. Ha, J. Cheon, D. Kim, Y. Lee, Korea Research Institute of Chemical Technology, Daejeon/ROK
1.11_7457		**CO_2 gasification of a lignite char catalyzed by a salt mixtures of K_2CO_3, $Mn(NO_3)_2$, $Ce(NO_3)_3$ and $Ni(NO_3)_2$** Y.T. Choi, S.J. Lee, S.G. Lee, S.T. Park, J.M. Sohn, Chonbuk National University, Jeonju/ROK; B.H. Song, Kunsan National University/ROK; Y.-K. Park, University of Seoul/ROK
1.11_7466		**Catalytic performance of Pd, Pt and Rh loaded on CuO-CeO_2 washcoat** L. Nguyen, E. Yamasue, H. Okumura, K. Ishihara, Kyoto University/J
1.11_7477	PS.09	**Insight into methane steam reforming over a nickel catalyst by partial pressure variation and isotopoic labelling experiments** C. Sprung, University of Oslo/N; B. Arstad, Sintef, Oslo/N; U. Olsbye, University of Oslo/N
1.11_7514		**Catalytic oxidation of methanol on Cu/ZnO(10-10) surfaces** L. Jin, H. Qiu, Y. Wang, Ruhr-Universität Bochum/D
1.11_7522		**Straw catalytic steam reforming to syngas over Ni-based catalyst** Q.Y. Li, J.Y. Hu, S.F. Ji, Beijing University of Chemical Technology/PRC

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1.11_7547	PS.13	**Co/Al-SBA-15 for controlling the product distribution of Fischer-Tropsch synthesis** Y.-H. Zhao, Q.-Q. Hao, Z.-T. Liu, J. Lu, Z.-W. Liu, Shaanxi Normal University, Xi'an/PRC
1.11_7615		**Oxyreforming of CH_4: effect of the preparation method on catalytic behaviors of La_2O_3-Al_2O_3-supported Pd catalysts** W.H. Cassinelli, J.M.C. Bueno, C.M.P. Marques, Federal University of São Carlos/BR
1.11_7677		**High efficient and re-usable Co-Ru/SiC catalyst for the Fischer-Tropsch synthesis** Y. Liu, B. de Tymowski, C. Pham-Huu, University of Strasbourg/F; P. Nguyen, Ch. Pham, SICAT Technical Center, Willstätt/D; F. Luck, TOTAL Scientific Division, Paris/F
1.11_7685		**Porous montmorillonite heterostructure for controlling the product distribution of Fischer-Tropsch synthesis** Q.-Q. Hao, Z.-T. Liu, J. Lu, Z.-W. Liu, Shaanxi Normal University, Xi'an/PRC
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1.11_7768		**Fisher Tropsch synthesis over zirconia supported Fe-Co catalysts: effect of temperature on product distribution** O. Atac, Tubitak Marmara Research Center, Kocaeli/TR; H. Gurbuz, A. Sirkecioglu, Istanbul Technical University/TR
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1.11_7824		**Synthesis gas production from associated petroleum gases over zeolite-containing catalysts** S. Itkulova, G. Zakumbaeva, D.V. Sokolsky Institute of Organic Catalysis and Electrochemistry, Almaty/KAZ
1.11_7847		**Catalytic performance and characterization of Ni-Fe and Ni-Co catalysts for the steam reforming of biomass tar to synthesis gas** L. Wang, M. Koike, D. Li, Y. Nakagawa, K. Tomishige, Tohoku University, Sendai/J; H. Watanabe, University of Tsukuba/J
1.11_7850		**Influence of microwave irradiation on CuZnAl catalysts for slurry methanol synthesis from CO_2 hydrogenation** Z. Li, H. Zhao, F. Meng, H. Zheng, Taiyuan University of Technology/PRC
1.11_7852		**Well-designed capsule catalyst for the controlled synthesis of target product in tandem catalysis** G. Yang, Y. Yoneyama, N. Tsubaki, University of Toyama/J
1.11_7858		**Study of kinetics behavior of metal reduction of bimetallic catalysts using synchrotron XANES** H. Wang, University of Saskatchewan, Saskatoon/CDN; J.T. Miller, Argonne National Laboratory, IL/USA; Y. Hu, Canadian Light Source, Saskatoon/CDN

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1.11_7897		**Design of modified CuZnAl catalysts for higher alcohol synthesis** J. Beiramar, P. Fongarland, A. Griboval-Constant, A.Y. Khodakov, UCCS-Lille1, Villeneuve d'Ascq/F
1.11_7922		**Spectroscopic and texture investigations and catalytic properties of (K,Ni,Co)Re/γ-Al_2O_3 water-gas shift catalysts** D. Nikolova, T. Grozeva, R. Edreva-Kardjieva, Institute of Catalysis of BAS, Sofia/BG; A. Kozlowska, E. Serwicka, Institute of Catalysis and Surface Chemistry of PAS, Krakow/PL
1.11_7955	PS.09	**Mechanistic and kinetic aspects of steam reforming of ethane** C.V. Ovesen, K.J. Andersson, Haldor Topsøe A/S, Kgs. Lyngby/DK; P.M. Mortensen, B.K. Olsen, A.D. Jensen, Technical University of Denmark, Kgs. Lyngby/DK; M.S. Skjøth-Rasmussen, Haldor Topsøe A/S, Kgs. Lyngby/DK
1.11_7960		**Investigation of K-promoted Cu/X/Al and Cu/Zn/X (X=Cr, Mn) mixed oxides for higher alcohol synthesis from biosyngas** E.T. Liakakou, University of Thessaloniki/GR; E. Heracleous, CPERI/CERTH, Thessaloniki/GR; A.A. Lemonidou, University of Thessaloniki/GR
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1.11_8043		**$LaNi_{1-x}Co_xO_3$ catalysts for syngas production via methane dry reforming** D.C. Lira, I.P. Lemos, S.T. Brandão, L.M.T.S. Rodrigues, Universidade Federal da Bahia, Salvador/BR; L.J. Alemany, M.A. Larrubia, Universidad de Malaga/E
1.11_8049	PS.01	**Fischer-Tropsch synthesis: kinetics of the reaction using cobalt catalysts** W. Ma, G. Jacobs, University of Kentucky, Lexington, KY/USA; C.H. Yen, J. Klettlinger, NASA Glenn Research Center, Cleveland, OH/USA; B.H. Davis, University of Kentucky, Lexington, KY/USA
1.11_8064	PS.13	**Sinthesis of CeO_2 and mixed oxides for the isosynthesis reaction** M. Schmal, R.C.R. Neto, Federal University of Rio de Janeiro/BR

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2.01_1019		**Direct propene epoxidation with O_2 over Ag(111) and Ag(100) catalysts** A. Pulido, P. Concepción, M. Boronat, A. Corma, Spanish National Research Council – Polytechnic University of Valencia/E
2.01_1040		**New catalysts for the coupling of CO_2 and epoxides to five-membered carbonates** S. Elmas, K. Müller, W. Leitner, T.E. Müller, RWTH Aachen/D
2.01_1097		**Eco-friendly oxidation of cyclohexane to adipic acid over supported gold nanoparticles** A. Alshammari, A. Bagabas, King Abdulaziz City for Science and Technology, Nationa Nanotechnology Center, Riyadh/SAR; A. Köckritz, V.N. Kalevaru, A. Martin, Leibniz Institute for Catalysis at the University of Rostock/D
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2.01_1109		**Low energy activation modes for CO_2** S. Elmas, H. Vogt, W. Leitner, T.E. Müller, RWTH Aachen/D
2.01_1120		**Effects of preparation methods on epoxidation of propylene by molecular oxygen over Ag-Cu/$BaCO_3$ catalysts** X. Zheng, Q. Zhang, Y.L. Guo, Y.S. Wang, G.Z. Lu, East China University of Science and Technology, Shanghai/PRC
2.01_1155		**A new method for preparation of catalysts on the basis of chlorine-containing polymers** A.S. Kostyuchenko, Institute of Hydrocarbons Processing of the Siberian Branch of the RAS, Omsk/RUS; A.S. Fisyuk, Omsk F.M. Dodtoevsky State University/RUS; Yu.G. Kryazhev, Omsk Scientific Center of Siberian Branch of the RAS/RUS
2.01_1158		**Supported CuO/γ-Al_2O_3 as heterogeneous catalyst for synthesis of diaryl ether under ligand-free conditions** P. Ling, D. Li, Y. Wang, East China University of Science and Technology, Shanghai/PRC
2.01_1164		**Highly selective conversion of cellobiose to gluconic acid over Au/$Cs_2HPW_{12}O_{40}$ catalyst** J.Z Zhang, X. Liu, M.N. Hedhili, Y.H. Zhu, Y. Han, King Abdullah University of Science and Technology, Thuwal/SAR
2.01_1176		**Green caprolactam production technology** B. Sun, X.K. Meng, X.H. Mu, B.N. Zong, Research Institute of Petroleum Processing (RIPP)-SINOPEC, Beijing/PRC
2.01_1177		**Synthesis of methyl isobutyl ketone (MIBK) from acetone over palladium and copper supported on heteropoly caesium salts** R. Al-Otaibi, KACST, Riyadh/SAR; I. Kozhevnikov, E. Kozhevnikova, Liverpool University/UK

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2.01_1242		**Synergetic effect between $Ni_{40}Mo_{10}$ and ZnO for hydrogenolysis of glycerol in the absence of adventitious H_2** J.Y. Hu, X.Y. Liu, Y. Pei, M.H. Qiao, K.N. Fan, Fudan University, Shanghai/PRC; X.X. Zhang, B.N. Zong, Research Institute of Petroleum Processing, Beijing/PRC
2.01_1246	PS.10	**Activity of chitosan-stabilized Au-Pd-TiO_2 catalyst in liquid phase selective oxidation of toluene** Z. Suo, Y. Li, W. Liao, M. Jin, Yantai University/PRC
2.01_1282		**Pd-incorporated layered perovskite titanates as catalyst for selective liquid-phase oxidation of alcohols under molecular oxygen** I. Adilina, T. Hara, N. Ichikuni, Chiba University/J; N. Kumada, University of Yamanashi, Kofu/J; S. Shimazu, Chiba University/J
2.01_1300		**Liquid-phase oxidation of glycerol over supported Au-Pd nano-particle catalysts using molecular oxygen as an oxidant** N. Mimura, M. Daté, National Institute of Advanced Industrial Science and Technology (AIST), Tsukuba/J; F. Dumeignil, CNRS UMR 8181, Villeneuve d'Ascq/F; T. Fujitani, National Institute of Advanced Industrial Science and Technology (AIST), Tsukuba/J
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2.01_1350		**Preparation of structured catalyst and its catalytic performance for oxidation of mercaptan** Z.Y. Sun, L. Jin, S. He, Y.F. Zhao, M. Wei, D.G. Evans, X. Duan, Beijing University of Chemical Technology/PRC
2.01_1392		**A sustainable two-step process for adipic acid production from cyclohexene: a study on parameters affecting selectivity** F. Cavani, F. Macchia, K. Raabova, E. Rozhko, Università di Bologna/I; S. Alini, P. Accorinti, P. Babini, Radici Chimica SpA, Novara/I
2.01_1421	PS.23	**Effects of water in liquid-phase hydrogenation of benzonitrile in dense phase CO_2 over Pd/Al_2O_3 catalyst** H. Yoshida, Y. Wang, S. Fujita, M. Arai, Hokkaido University, Sapporo/J
2.01_1465		**A green carbon supported Au catalyst for acetylene hydrochlorination into vinyl-chloride-monomers for polyvinyl chloride production** K. Zhou, W. Wang, J.Q. Huang, X.G. Li, G.H. Luo, F. Wei, Tsinghua University, Beijing/PRC
2.01_1478	PS.42	**Conversion of CO_2 using derivatives of tin catalysts** H.B.P. Ferreira, D.L. Vale, L.F. Castro, L.S. Andrade, C.J.A. Mota, J.L. Miranda, Federal University of Rio de Janeiro/BR
2.01_1496		**Alkene epoxidation using heterogeneous catalysts** J. Mielby, S. Kegnæs, Technical University of Denmark, Kgs. Lyngby/DK
2.01_1500		**Efficient epoxidation of electron-deficient alkenes with hydrogen peroxide catalyzed by a divanadium-substituted phosphotungstate** R. Ishimoto, K. Kamata, K. Sugahara, K. Yonehara, N. Mizuno, The University of Tokyo/J

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2.01_1517		**Two reaction mechanisms of TiO_2 based catalysts on gas-phase, selective oxidation of benzyl alcohol to benzaldehyde** Y.H. Dai, Y. Tang, J. Fan, Zhejiang University, Hangzhou/PRC
2.01_1528		**Size-selective oxidation with hydrogen peroxide by a flexible non-porous heterogeneous catalyst** N. Mizuno, S. Uchida, K. Kamata, R. Ishimoto, S. Nojima, The University of Tokyo/J; K. Yonehara, Y. Sumida, Nippon Shokubai Co., Ltd., Osaka/J
2.01_1529		**Selective oxidation with hydrogen peroxide catalyzed by a selenium-containing dinuclear peroxotungstate** T. Hirano, R. Ishimoto, S. Kuzuya, K. Uehara, K. Kamata, N. Mizuno, The University of Tokyo/J
2.01_1565	PS.07	**Aerobic alcohol oxidations mediated by nitric acid** C. Aellig, C. Girard, I. Hermans, ETH Zurich/CH
2.01_1633		**Synthesis and thermostability of sulfonated activated nanocarbon-styrene composites** V.E. Diyuk, A.O. Gorlova, M.S. Glushko, Taras Shevchenko National University of Kyiv/UA
2.01_1639		**Quantifying and understanding the homolytic activation of peroxides by homogeneous and heterogeneous cobalt catalysts** N. Turrà, U. Neuenschwander, B. Schimmöller, A. Blanco Acuña, I. Hermans, ETH Zurich/CH
2.01_1652		**Synthesis of chiral imidazolium-based ionic liquids and their application in the epoxidation of olefins** C. Münchmeyer, I.E. Markovits, M. Cokoja, F.E. Kühn, TU München, Garching/D
2.01_1657		**Comparison of microporous zeolites and a mesoporous catalyst in dimerisation of 2-methyl-2-propene with the pressurised CO_2 solvent** R. Koskinen, R.L. Keiski, University of Oulu/FIN; M. Tiitta, Neste Oil Corporation, Porvoo/FIN; H. Turunen, Neste Jacobs Oy, Porvoo/FIN
2.01_1667		**Supported AuPd and AuPt alloys for low temperature base free glycerol oxidation** G.L. Brett, University of Cardiff/UK; Q. He, Lehigh University, Bethlehem, PA/USA; P.J. Miedziak, N. Dimitratos, M. Conte, University of Cardiff/UK; C.J. Kiely, Lehigh University, Bethlehem, PA/USA; D.W. Knight, S.H. Taylor, G.J. Hutchings, University of Cardiff/UK
2.01_1697		**Supercritical fluid reactive deposition of iron on supported platinum catalysts** P. With, M. Marx, S. Dietrich, R. Gläser, University of Leipzig/D
2.01_1698		**The modification of activated carbon surface with amines** L.M. Grischenko, T.M. Bezugla, V.E. Diyuk, A.M. Zaderko, B.M. Muzychuk, Taras Shevchenko National University of Kyiv/UA
2.01_1708		**Efficient rout for modification of carbon fibres with acidic groups** L.M. Grischenko, T.M. Bezugla, V.E. Diyuk, A.M. Zaderko, B.M. Muzychuk, Taras Shevchenko National University of Kyiv/UA
2.01_1710		**Microwave-assisted synthesis of 3, 5-arylated 2-pyrazolines** B. Boutemeur, Y. Abdi, M. Makhloufi, University of Science and Technology – Houari Boumediene (USTHB), Algiers/DZ; S.M. Hamdi, CHU Toulouse, Toulouse/F; M. Hamdi, University of Science and Technology – Houari Boumediene (USTHB), Algiers/DZ
2.01_1755		**Liquid-phase oxidation of cyclohexanol to adipic acid catalysed by Dawson-type polyoxometalates** C. Rabia,, M. Moudjahed,, L. Dermeche,, S. Benadji,, T. Mazari,, University of Science and Technology – Houari Boumediene (USTHB), Algers/DZ

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2.01_1773		**Efficient, highly selective and catalyst-free oxidation of sulfides to sulfoxides mediated by an ionic liquid** B. Zhang, M. Cokoja, TU München, Garching/D; J. Mink, Hungarian Academy of Sciences Chemical Research Center, Budapest/H; S.L. Zang, Liaoning University of Petroleum and Chemical Technology, Fushun/PRC; F.E. Kühn, TU München, Garching/D
2.01_1833		**Investigation of the Lewis acid-surfactant-combined catalyst [$Cu(C_{12}H_{25}SO_4)_2$] in bentonite clay for heterogeneous applications** F. Mattos, L. Caminha, G. Ghesti, S. Dias, J. Dias, J. Macedo, University of Brasília/BR
2.01_1841		**Highly dispersed metal oxides from chelated precursors on silica for selective oxidation** D. Prieto-Centurion, J.M. Notestein, Northwestern University, Evanston, IL/USA
2.01_1904		**Iron-alumina materials prepared by the non-hydrolytic sol-gel route as heterogeneous catalysts for cyclohexane oxidation using H_2O_2** G.P. Ricci, E.H. de Faria, A.L. de Carvalho, University of Franca/BR; S. Nakagaki, Federal University of Paraná, Curitiba/BR; Z.N. Rocha, Federal University of Bahia, Salvador/BR; P.S. Calefi, E.J. Nassar, K.J. Ciuffi, University of Franca/BR
2.01_1906		**Synthesis of 2-oxazolidones by cycloaddition of epoxides and isocyanates** S. Basu, C. Gürtler, T.E. Thomas, RWTH Aachen/D
2.01_1980		**Controlled of supported oxide domains for selective oxidation via precursor selection** A. Korinda, D. Prieto-Centurion, N. Morlanes, J. Notestein, Northwestern University, Evanston, IL/USA
2.01_2000		**Phogene free synthesis of diphenyl carbonate by Pd electrocatalyst** R. Kanega, Tokyo Institute of Technology/J; T. Hayashi, I. Yamanaka, Tokyo Institute of technology/J
2.01_2086		**Synthesis of adipic acid by direct oxidation of cyclohexanol over Keggin-type polyoxometalate catalysts** A. Tahar, S. Benadji, T. Mazari, L. Dermeche, C. Rabia, USTHB University, Algers/DZ
2.01_6628		**Nanoshell carbon-supported cobalt catalyst for the solvent-free aerobic oxidation of alcohols** Y. Kuang, N. Yuta, M. Kakimoto, Tokyo Institute of Technology/J
2.01_6656		**Synthesis of formamidines using phenyl phosphonic acid as a catalyst and water as green solvent** M. Valizadeh, M. Tajbakhsh, Mazandaran University, Babolsar/IR
2.01_6684	PS.26	**Supported amorphous Co-B catalysts for olefin hydroformylation** J.Y. Long, L. Ma, H.M. Liu, D.H. He, Tsinghua University, Beijing/PRC
2.01_6711		**Mo- and W-containing layered double hydroxides – Recyclable catalysts for the mild oxidation of organic compounds with H_2O_2** V. Hulea, Ecole Nationale Superieure de Chimie, Montpellier/F; C.E. Ciocan, Technical University of Iasi/RO; F. Fajula, Ecole Nationale Superieure de Chimie, Montpellier/F; E. Dumitriu, Technical University of Iasi/RO
2.01_6739	PS.23	**Ag@CeO_2 core-shell nanostructured catalyst for complete chemoselective reductions** T. Mitsudome, Y. Mikami, M. Matoba, T. Mizugaki, K. Jitsukawa, K. Kaneda, Osaka University/J
2.01_6768		**Highly selective hydrogenation of cinnamaldehyde over Pt/CNT catalyst under $scCO_2$** B.-H. Zhao, J.-G. Chen, X. Liu, H.-P. Ren, Z.W. Liu, Z.-T. Liu, Shaanxi Normal University, Xi'an/PRC

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2.01_6787	PS.07	**Kinetic and IR spectroscopic studies on the alcohol oxidation over Au/ZnO and Au/TiO_2 under thermal and photocatalytic conditions** M.C. Holz, K. Kähler, S. Kaluza, K. Tölle, Ruhr-Universität Bochum/D; A.C. van Veen, TU München/D; Z. Feng, F. Ji, H. Han, Y. Ma, C. Li, Dalian Institute of Chemical Physics/PRC; M. Muhler, Ruhr-Universität Bochum/D
2.01_6806		**A green, radical pathway for direct synthesis of supported AuCN nanoparticles and their use in catalytic isoflavanones syntheses** R. Li, J. Tong, X. Yan, S. Zou, Y. Tang, J. Fan, Zhejiang University, Hangzhou/PRC
2.01_6816		**A Zn/Al mixed oxide heterogeneous catalyst for the synthesis of dimethyl carbonate (DMC) by urea alcoholysis** X.M. Wu, W.C. Peng, N. Zhao, F.K. Xiao, W. Wei, Institute of Coal Chemistry, Taiyuan/PRC; Y.H. Sun, Shanghai Advanced Research Institute/PRC
2.01_6826		**Au-Pd nanoparticles on layered double hydroxide for aerobic oxidation of alcohols in aqueous phase** Y. Shi, L. Hua, W. Zhu, Y. Qiao, Z. Hou, East China University of Science and Technology, Shanghai/PRC
2.01_6839	PS.23	**Stabilized palladium nanoparticles in polyethylene glycol for catalytic hydrogenation of styrene and nitrobenzene** F. Harraz, S. El-Hout, Central Metallurgical Research and Development Institute (CMRDI), Cairo/ET; H. Killa, Zagazig University/ET; I. Ibrahim, Central Metallurgical Research and Development Institute (CMRDI), Cairo/ET
2.01_6846	PS.19	**Heterogeneous catalysis in dense and supercritical carbon dioxide on the example of aldol reaction** N. Musko, The Technical University of Denmark, Copenhagen/DK; W. Kleist, J.-D. Grunwaldt, Karlsruhe Institute of Technology/D
2.01_6854		**Preparation and study of Pd catalysts supported on activated carbon clothes (ACC) for direct synthesis of H_2O_2 from H_2 and O_2** D. Gudarzi, W. Ratchananusorn, I. Turunen, Lappeenranta University of Technology/FIN
2.01_6880		**Heck coupling with sol-gel immobilized palladium catalysts** I. Volovych, R. Schomäcker, TU Berlin/D; J. Blum, Hebrew University of Jerusalem/IL
2.01_6902	PS.07	**Unexpected synergy between Cr(III)-hydrotalcites and gold nanoparticles in aerobic alcohol oxidation** P. Liu, R.A. van Santen, Eindhoven University of Technology/NL; C. Li, Dalian Institute of Chemical Physics/PRC; E.J.M. Hensen, Eindhoven University of Technology/NL
2.01_6915		**Efficient catalytic conversion of fructose into hydroxymethylfurfural by a novel carbon based solid acid** J.J. Wang, J.W. Ren, X.H. Liu, W.C. Zhan, G.Z. Lu, Y.Q. Wang, East China University of Science and Technology, Shanghai/PRC
2.01_6918		**A sulfonated carbonaceous material from glucose/benzyl chloride as a stable and highly active solid acid catalyst** Q. Peng, J.J. Wang, J.W. Ren, Y.L. Guo, Y.Q. Wang, East China University of Science and Technology, Shanghai/PRC
2.01_6920		**Direct conversion of ball-milled cellulose into sorbitol with high yield over Pt/$NbOPO_4$ catalyst under milder condition** J.X. Xi, Y. Zhang, Y.L. Guo, W.C. Zhan, Y.Q. Wang, East China University of Science and Technology, Shanghai/PRC
2.01_6923		**Efficient visible-light-induced photocatalytic reduction of 4-nitroaniline to p-phenylenediamine over nanocrystalline $PbBi_2Nb_2O_9$** W. Wu, G. Liu, S. Liang, Y. Chen, L. Shen, L. Wu, Fuzhou University/PRC

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2.01_6925		**Core/Shell structured Ti-MWW@meso-SiO_2 for cyclohenxanone ammoximation in a continuous slurry reactor** L. Xu, H. Peng, B. Xu, L. Chen, H. Wu, Y. Liu, P. Wu, East China Normal University, Shanghai/PRC
2.01_6926		**Direct epoxidation of propylene to propylene oxide with H_2 and O_2 over core/shell-structured Au/TS-1@mesosilica catalysts** H. Peng, L. Xu, L. Chen, H. Wu, Y. Liu, P. Wu, East China Normal University, Shanghai/PRC
2.01_7014	PS.23	**Hydrogenation of 2-ethylanthraquinone using Pd-zeolites** X. Chen, T. Li, A. Kogelbauer, Imperial College London/UK
2.01_7029		**An efficient and general sequential strategy for the synthesis of phosphines from phosphine oxides** Y. Li, S. Das, S. Zhou, K. Junge, M. Beller, Leibniz Institute for Catalysis at the University of Rostock (LIKAT)/D
2.01_7036		**Selective alcohol oxidation: transition-metal-free aerobic oxidative catalytic sytems** X. Hu, Zhejiang University of Technology, Hangzhou/PRC
2.01_7055		**Magnetically separable polyoxometalate-based ionic liquid catalyst: design and epoxidation application** Y. Qiao, L. Hua, East China University of Science and Technology, Shanghai/PRC; N. Theyseen, Max-Planck-Institut für Kohlenforschung, Mülheim/D; W. Leitner, RWTH Aachen/D; Z. Hou, East China University of Science and Technology, Shanghai/D
2.01_7058		**Understanding how to specify stereochemistry and enhance selectivity and activity in liquid phase hydrogenations** P.E. Garcia, S.D. Jackson, A.M. Lynch, A. Monaghan, University of Glasgow/UK
2.01_7100		**The effect of solvent-free conditions on synthesis of trisubstituted formamidine by organocatalytis** R. Karimzadeh Ghassab, Tehran University of Medical Sciences, Tehran/IR; M. Valizadeh, Mazandaran University, Babolsar/IR
2.01_7101		**Greener detergents – Gold-based catalysts for the production of ether carboxylic acids** U. Prüße, K. Heidkamp, M. Aytemir, K.-D. Vorlop, Johann Heinrich von Thünen-Institute (vTI), Braunschweig/D; N. Schwarz, Clariant Produkte Deutschland GmbH, Burgkirchen/D
2.01_7122		**Nanoporous polymers supported metal catalysts with high activities and recyclability for coupling reactions** X. Meng, Q. Sun, L. Wang, F. Xiao, Zhejiang University, Hangzhou/PRC
2.01_7123		**Gas phase oxycarbonylation of methanol into dimethylcarbonate on Cu modified silicoaluminophosphate SAPO-37** T.T.H. Dang, M. Bartoszek, M. Schneider, D.-L. Hoang, A. Martin, Leibniz-Institut für Katalyse e.V. an der Universität Rostock/D
2.01_7155	PS.36	**Probing adsorption *via* NMR relaxometry: towards obtaining adsorbate configuration under reaction conditions** P. Arias-Vecino, M. Lutecki, K.M. Song, J. Mitchell, J. McGregor, L.F. Gladden, University of Cambridge/UK
2.01_7176		**Vanadium(III) phosphites as catalysts** J. Orive, E. S. Larrea, University of the Basque Country, Bilbao/E; M. Iglesias, Instituto de Ciencia de Materiales de Madrid – CSIC/E; M.I. Arriortua, University of the Basque Country, Bilbao/E

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2.01_7180		**Synthesis and characterisation of egg-shell bimetallic Pd and Au catalysts supported on SiO_2 and TiO_2 catalyst bodies** C. Trionfetti, S. Wieland, R. Hausmann, M. Fuchs, Evonik Industries, Hanau/D
2.01_7187		**Activity and stability pattern of novel MnO_x-based catalysts for the selective oxidation of benzyl alcohol to benzaldehyde** F. Arena, C. Italiano, A.F. Lombardo, G. Drago Ferrante, G. Mezzatesta, University of Messina/I; L. Spadaro, Instituto CNR-ITAE „Nicola Giordano, Messina/I
2.01_7200	PS.04	**Epoxidation of propylene in a microreactor using hydrogen peroxide produced in situ in a plasma reactor.** D.M. Perez Ferrandez, M.H.J.M. de Croon, J.C. Schouten, T.A. Nijhuis, TU Eindhoven/NL
2.01_7212		**Potassium phosphate as a solid base catalyst for the catalytic transfer hydrogenation of aldehydes and ketones** D.M. Do, S. Jaenicke, G.K. Chuah, National University of Singapore/SGP; Y. Sasson, The Hebrew University of Jerusalem/IL
2.01_7219		**Task-specific ionic liquid-catalyzed transformation of amines or alcohols: carbonium ion as the key intermediate** F. Han, L. Yang, Z. Li, J. Chen, C. Xia, Lanzhou Institute of Chemical Physics/PRC
2.01_7247		**$ZrOCl_{2.8}H_2O$ as an efficient, environmentally friendly and inexpensive catalyst for direct diastroselective mannich reactions of heterocyclic** M.S. Abaee, Chemistry & Chemical Engineering Research Center of Iran, Tehran/IR; E. Akbarzadeh, Tarbiat Moallem University, Tehran/IR; M.M. Mojtahedi, E. Mehraki, Chemistry & Chemical Engineering Research Center of Iran, Tehran/IR; A. Shochkravi, Tarbiat Moallem University, Tehran/IR
2.01_7333	PS.16	**Direct synthesis of hydrogen peroxide using Au-Pd-exchanged and supported heteropolyacid catalysts** E.N. Ntainjua, M. Piccinini, S.J. Freakley, J.C. Pritchard, J.K. Edwards, A.F. Carley, University of Cardiff/UK; C.J. Kiely, Lehigh University, Bethlehem, PA/USA; G.J. Hutchings, University of Cardiff/UK
2.01_7366		**Identification of oxygen species active in ethylene epoxidation on silver catalysts with Raman spectroscopy and DFT calculations** T. Chen, Stevens Institute of Technology, Hoboken, NJ/USA; J.-M. Jehng, I.E. Wachs, Lehigh University, Bethlehem, PA/USA; S.G. Podkolzin, Stevens Institute of Technology, Hoboken, NJ/USA
2.01_7407		**Tin-tungsten mixed oxide-catalysed efficient hydration of alkynes to ketones** X. Jin, T. Oishi, K. Yamaguchi, N. Mizuno, University of Tokyo/J
2.01_7448		**Metathesis hydrogenation of natural rubber** S. Kongparakul, Thammasat University, Pathumthani/THA; F.T.T. Ng, G.L. Rempel, University of Waterloo, Ontario/CDN
2.01_7461	PS.11	**Direct functionalisation of benzene by acetonitrile with palladium-loaded titanium oxide photocatalyst** H. Yoshida, Y. Fujimura, University of Nagoya/J
2.01_7600		**Pd catalysts dispersed in ionic liquids supported on NiMo@C magnetic particles** E.C.O Nassor, R.V. Mambrini, F.C.C. Moura, M.H. Araujo, E.N. dos Santos, Federal University of Minas Gerais, Belo Horizonte/BR
2.01_7613		**Oxidative homocoupling of terminal alkynes by supported Copper hydroxide catalyst on OMS-2** T. Oishi, K. Yamaguchi, N. Mizuno, University of Tokyo/J

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2.01_7616	PS.42	**A highly-active Zn(salphen) catalyst for production of organic carbonates in a green CO_2 medium** M. Taherimehr, Catholic University of Leuven/B; A. Decortes, Institute of Chemical Research of Catalonia/E; W. Lueangchaichaweng, Catholic University of Leuven/B; A.W. Kleij, Institute of Chemical Research of Catalonia/E; P.P. Pescarmona, Catholic University of Leuven/B
2.01_7663		**Improvement in catalytic performance of Ti-containing mesoporous silica nanospheres by trimethylsilylation** T. Yokoi, T. Liu, R. Otomo, J.N. Kondo, T. Tatsumi, Tokyo Institute of Technology, Yokohama/J
2.01_7691		**Neutral hydrogen peroxide synthesis by membrane reactor** I. Yamanaka, Tokyo Institute of Technology/J; T. Iwasaki, T. Nishimura, Tokyo Institute of technology/J
2.01_7708		**Au/MIL-96(Al) as energetic and recyclable catalyst for n-propyl alcohol selective oxidation** Z.G. Sun, G. Li, Dalian University of Technology/PRC
2.01_7746		**Basic ionic liquids as efficient catalysts for the synthesis of glycerol carbonate from glycerol and ethylene carbonate** J. Liu, S. Chen, C. Xia, Lanzhou Institute of Chemical Physics/PRC
2.01_7758		**Selective hydroxylation of cyclohexene with hydrogen peroxide over Fe-bipyridine complexes encapsulated in Y-type zeolite** S. Yamaguchi, T. Fukura, C. Fujita, H. Yahiro, Ehime University, Matsuyama/J
2.01_7780		**Study on deactivation of Cu/SiO_2 catalyst for dimethyl oxalate hydrogenation to ethylene glycol** B. Zhang, East China University of Science and Technology, Shanghai/PRC; Y. Ji, N.J. Luo, Pujing Chemical Industry (Sha)Limited, Shanghai/PRC; W. Li, D.Y. Fang, East China University of Science and Technology, Shanghai/PRC; S. Zhu, Pujing Chemical Industry (Sha)Limited, Shanghai/PRC
2.01_7786		**Catalytic performance of chlorine-free catalysts for the methanol liquid-phase oxidative carbonylation** Z. Li, R.M. Dong, H.Y. Zheng, F.H. Meng, Taiyuan University of Technology/PRC
2.01_7793		**Effect of electron beam irradiation on catalytic efficacy of immobilized transition metal complexes** S.T. David, Manonmaniam Sundaranar University, Tirunelveli/IND; R. Antony, S.A. Jebamary, S.D. Abraham, M. Seethalakshmi, R.B. Bennie, C. Joel, St.John's College, Tirunelveli/IND
2.01_7808		**Catalytic epoxidation of olefins using dioxomolybdenum complexes of tridentate ONO-donor ligands obtained by acid hydrazides and β-diketones** H. Hosseini Monfared, R. Bikas, P. Mahboubi Anarjan, University of Zanjan/IR; D. Choquesillo-Lazarte, Laboratorio de Estudios Cristalográficos IACT-CSIC, Armilla (Granada)/E
2.01_7809		**Comparing catalytic reactivity of dioxovanadium(V) and dioxomolybdenum(VI) complexes of hydrazone based ligands in epoxidation of olefins** H. Hosseini Monfared, R. Bikas, P. Mahboubi Anarjan, University of Zanjan/IR; V. Lippolis, Università degli Studi di Cagliari, Monserrato/I
2.01_7813		**Hierarchically meso-macro porous zeolites with highly catalytic activity** X. Yang, L.H. Chen, G. Tian, Y. Li, University of Namur/B; Y.X. Wei, Z.M. Liu, Dalian Institute of Chemical Physics/PRC; G.V. Tendeloo, University of Antwerp/B; B.L. Su, University of Namur/B

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2.01_7818		**Unexpected catalytic performance of Nb-containing mesoporous silica in the selective epoxidation of alkenes** V. Dal Santo, A. Gallo, R. Psaro, C. Tiozzo, M. Guidotti, CNR-ISTM, Milano/I
2.01_7864		**Cheap, heterogeneous non zeolitic silica based catalysts in the production of caprolactam and its scale up** W.F. Hölderich, M.M. Maronna, RWTH Aachen University/D
2.01_7884		**H_2 and O_2 partial pressure dependence of H_2O_2 direct synthesis on Pd-nanoparticles supported on N-CNT** S. Abate, M. Freni, S. Perathoner, G. Centi, University of Messina/I; R. Arrigo, M.E. Schuster, Fritz-Haber-Institute, Berlin/D
2.01_7889		**Graphene supported Pd catalysts for alcohols celective oxidation** X. Wang, G. Wu, N. Guan, L. Li, Nankai University, Tianjin/PRC
2.01_7900		**Synthesis of high surface area catalysts and destructive adsorbents based on MgO** A. Vedyagin, E. Ilyina, I. Mishakov, A. Bedilo, A. Volodin, Boreskov Institute of Catalysis SB RAS, Novosibirsk/RUS
2.01_7915	PS.26	**Hydroformylation of alkenes using heterogeneous catalyst based of mesoporous $BaSO_4$** Y. Kardasheva, A. Maximov, D. Losev, E. Karakhanov, Moscow State University/RUS
2.01_7918		**Synthesis of cyclic sulfites from epoxides and sulfur dioxide with silica-immobilized homogeneous catalysts** Y. Takenaka, RIKEN, Wako/J; T. Kiyosu, G. Mori, Wako Pure Chemical Industries, Ltd., Kawagoe/J; J.-C. Choi, N. Fukaya, T. Sakakura, H. Yasuda, National Institute of Advanced Industrial Science and Technology (AIST), Tsukuba/J
2.01_7949		**Synthesis of copper-based nanoestructures assisted by microwave-induced irradiation** L. Martínez, University of Zaragoza/E; G. Martínez, CIBER-BBN, Zaragoza/E; J.L. Hueso, V. Sebastián, S. Irusta, J. Santamaría, University of Zaragoza/E
2.01_7953	PS.44	**Selective oxidation of methane to methanol by innovative sulphonated and fluorinated polymeric membranes** C. Espro, F. Mendolia, University of Messina/I; F. Trotta, University of Turin/I
2.01_7969		**Design of hybrid catalysts for petrochemical synthesis: from immobilised polymer ligands to dendrimer megamers** E. Karakhanov, A. Maximov, Moscow State University/RUS; E. Rosenberg, University of Montana, Missoula, MT/USA
2.01_7982		**Production of gallic acid by enzymatic *in vivo* hydrolysis of tannic acid by *Aspergillus tamarii*** A.M. Costa, State University of Santa Cruz, Ilhéus/BR; A. Zilly, State University of Western Paraná, Foz do Iguaçu/BR; C.G.M. Souza, G.M. Maciel, J.S. Coelho-Moreira, A. Bracht, R.M. Peralta, State University of Maringá/BR
2.01_7987		**Substrate and moisture content affect the ratio of laccase/Mn peroxidase and the capability of dye decolourisation by *Pleurotus pulmonarius*** G.M. Maciel, J.S. Coelho-Moreira, A.A. Soares, C.G.M. Souza, A. Bracht, R.M. Peralta, State University of Maringá/BR
2.01_8122		**Esterification of formic acid with n-butyl alcohol over dodecatungstophosphoric acid supported by clay** M. Altiokka, Z. Him, E. Akbay, Anadolu University, Eskisehir/TR

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2.01_8141		**Heteropoly acid supported on tonsil for esterification of formic acid with n-butyl alcohol** E. Akbay, Z. Him, M.R. Altiokka, Anadolu University, Eskisehir/TR
2.01_8151		**Siliceous MFI zeolite nanosheeets as a high performance catalyst for gas-phase Beckmann rearrangement** W. Park, K. Cho, J. Kim, R. Ryoo, Korea Advanced Institute of Science and Technology, Daejeon/ROK
		Advanced routes in petrochemistry for light olefin production, transformation of aromatics
2.02_1020	PS.02	**The oxidative dehydrogenation of propane over V-containing mesoporous silicas: the effect of vanadium dispersion, surface acidity and support properties on the catalytic activity** M. Piumetti, B. Bonelli, E. Garrone, Polytechnic University of Turin/I; M. Armandi, Center for Space Human Robotic, Torino/I; I. Rossetti, University of Milan/I; P. Massiani, S. Dzwigaj, University Pierre et Marie Curie, Paris/F; F. Cavani, University of Bologna/I
2.02_1021	PS.10	**Partial oxidation of o-xylene to phthalic anhydride inside of the explosion regime using a micro structured reactor** T. Lange, University of Stuttgart/D; S. Heinrich, C. Liebner, H. Hieronymus, Federal Institute for Materials Research and Testing, Berlin/D; E. Klemm, University of Stuttgart/D
2.02_1023	PS.40	**Real-time analysis of M1 formation: understanding hydrothermal synthesis of $MoVTeNbO_x$ catalysts by in-situ Raman spectroscopy** M.C. Sanchez-Sanchez, F. Girgsdies, R. Schlögl, A. Trunschke, Fritz Haber Institute, Berlin/D
2.02_1055		**Hydrogenation of disubstituted arenes catalysed by Rh-nanoparticles** J. Llop, C. Godard, C. Glaver, Rovira i Virgili University, Tarragona/E
2.02_1108	PS.22	**Production of propylene from an unconventional metathesis of ethylene and 2-pentene over rhenium-based catalysts** J. Panpranot, W. Phongsawat, Chulalongkorn University, Bangkok/THA; K. Suriye, SCG Chemicals Co., Ltd., Bangkok/THA
2.02_1130		**Influence of Ca addition on activity, selectivity and stability of Pt-Sn/Al_2O_3 catalyst for propane dehydrogenation** L. Petrov, M. Umar, Y. Alhamed, A. Alzahrani, M.A. Daous, King Abdulaziz University, Jeddah/SAR; H.O. Almegren, King Abdulaziz City of Science and Technology, Riyadh/SAR
2.02_1170		**Shape-selective methylation of toluene with methanol into para-xylene over modified nano-scale-HZSM-5 catalysts** X. Guo, Y. Zhao, W. Tan, H. Wu, X. Wang, Dalian University of Technology/PRC; C. Song, Penn State University, State College, PA/USA
2.02_1390	PS.22	**Effect of mixed 2-butene on metathesis reaction of 2-butene and ethylene over tungsten catalyst** N. Poovarawan, Chulalongkorn University, Bangkok/THA; K. Suriye, SCG Chemicals Co. Ltd., Bangkok/THA; P. Praserthdam, Chulalongkorn University, Bangkok/THA
2.02_1419		**$NiMoO_4$ synthesised from zwitterionic hybrid precursors: benefiting of the memory effect in the propane ODH** B. Farin, C. Swalus, M. Devillers, E.M. Gaigneaux, Catholic University of Leuven/B

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2.02_1477		**Deactivation by coke deposition of HZSM-5 catalyst in the cracking of polyethylene (HDPE) in a two stage process** M. Ibáñez, M. Artetxe, M. Olazar, P. Castaño, J. Bilbao, University of the Basque Country, Bilbao/E
2.02_1511	PS.02	**Flame synthesised vanadium and molybdenum oxide catalysts for oxidative dehydrogenation of propane** M. Høj, A.D. Jensen, TU Denmark, Kgs. Lyngby/DK; J.-D. Grunwaldt, Karlsruhe Institute of Technology (KIT)/D
2.02_1556	PS.14	**A novel approach to the synthesis of highly mesoporous SSZ-13 with improved performance in the methanol-to-olefins reaction** L. Wu, V. Degirmenci, B. Szyja, E. Hensen, TU Eindhoven/NL
2.02_1559	PS.02	**Influence of the nature of the promoter in NiO-promoted catalysts for the oxidative dehydrogenation of ethane** P. Concepción, Polytechnic University of Valencia/E; B. Solsona, University of Valencia/E; J.M. Lopez Nieto, Polytechnic University of Valencia/E
2.02_1580		**Activation of Fe-silicalite by gas-reduction nitridation** E. Badurova, K. Raabova, R. Bulanek, University of Pardubice/CZ
2.02_1619		**Tailor-made carbon supports with optimized pore structures for catalytic applications** A.M. Kern, F. Glenk, B.J.M. Etzold, Universität Erlangen-Nürnberg/D
2.02_1625		**Mechanistic study of Prins condensation over niobium oxide catalyst** V.L. Sushkevich, V.V. Ordomsky, Yu.G. Kolyagin, I.I. Ivanova, Moscow State University/RUS
2.02_1637	PS.02	**The analysis of active Ni species in the oxidative dehydrogenation of ethane and propane** L. Capek, L. Smolakova, S. Botkova, University of Pardubice/CZ; F. Kovanda, Institute of Chemical Technology, Prague/CZ
2.02_1655		**The activity/selectivity of monomeric and oligomeric VOx species in the oxidative dehydrogenation of ethane** S. Botkova, L. Capek, P. Cicmanec, R. Bulanek, University of Pardubice/CZ; J. Mayerova, J. Heyrovsky Institute of Physical Chemistry of the AS of the Czech Republic, Prague/CZ; A. Zukal, J. Heyrovsky Institute of Physical Chemistry, Academy of Sciences of the Czech Republic, Prague/CZ
2.02_1680		**Study of ethanol conversion into hydrocarbons using *in situ* infrared spectroscopy** Z.S.B. Sousa, Federal University of Rio de Janeiro/BR; D. V. Cesar, Rio de Janeiro State University/BR; V. Teixeira da Silva, Federal University of Rio de Janeiro/BR; C.A. Henriques, Rio de Janeiro State University/BR
2.02_1778	PS.35	**DFT modelling of mixed oxide selective catalysts for oxidative dehydrogenation of ethane** J.C. Conesa, CSIC, Madrid/E
2.02_1788		**Novel Pd nanoparticle-GO catalysts for butadiene hydrogenation** E. Asedegbega-Nieto, Universidad Nacional de Educacion a Distancia, Madrid/E; B. Bachiller-Baeza, Instituto de Catalisis y Petroleoquimica-CSIC, Madrid/E; E. Gallegos-Suarez, Universidad Nacional de Educacion a Distancia, Madrid/E; I. Rodriguez-Ramos, Instituto de Catalisis y Petroleoquimica-CSIC, Madrid/E; A. Guerrero-Ruiz, Universidad Nacional de Educacion a Distancia, Madrid/E
2.02_1932		**MgO as model catalyst in oxidative coupling of methane** P. Schwach, W. Frandsen, N. Hamilton, M. Willinger, A. Trunschke, R. Schlögl, Fritz-Haber-Institute, Berlin/D

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2.02_1986	PS.22	**High selectivity production of propylene from butenes over W-H/Al_2O_3 olefin metathesis catalyst** E. Mazoyer, K.C. Szeto, S. Norsic, A. Garron, CPE Lyon CNRS, Villeurbanne/F; J.-M. Basset, KAUST, Thuwal/SAR; C.P. Nicholas, UOP – A Honeywell Company, Des Plaines, IL/USA; M. Taoufik, CPE Lyon CNRS, Villeurbanne/F
2.02_1991		**Selective hydrogenation of vinyl acetylene toward 1,3-butadiene in concentrated vinyl acetylene mixed C_4 by Pd-Cu/Al_2O_3 catalyst** P. Insorn, C. Choochuen, B. Kitiyanan, The Petroleum and Petrochemical College, Bangkok/THA; J. Schwank, University of Michigan, Ann Arbor, MI/USA
2.02_2059	PS.16	**Investigation of SiW heteropoly compounds – the active components of the catalysts of partial oxidative conversion of C_1-C_2 alkanes** S.A. Tungatarova, G.A. Savelieva, D.B. Abdukhalykov, G.E. Ergazieva, R.O. Sarsenova, M. Zhumabek, D.V.Sokolsky Institute of Organic Catalysis and Electrochemistry, Almaty/KAZ
2.02_2065		**CO FTIR studies of electronic effect of Ge or Sn grafted on Pt/Al_2O_3 catalysts** L. Pirault-Roy, University of Poitiers/F; C. Poupin, UNiversity of Poitiers/F; C.T. Williams, University of South Carolina, Columbia, SC/USA
2.02_2087		**Direct synthesis of light olefins from syngas** Q. Zhang, M. Zhang, W. Liu, Z. Han, Z. Tong, Beijing Institute of Petrochemical Technology/PRC
2.02_6599		**Dehydrogenation of ethylbenzene to styrene over supported transition metal phthalocyanine complexes** A.M. Elfadly, F.Z. Yehia, A.M. Rabie, Egyptian Petroleum Research Institute, Cairo/ET
2.02_6783		**Mechanistic understanding of the oxidative dehydrogenation of ethane over supported molten alkali chloride catalysts** C.A. Gärtner, S. Müller, A.C. van Veen, J.A. Lercher, TU München/D
2.02_6785		**Stabilising the oxidation state of CNT-supported Pd catalyst by nitrogen doping: a strategy to improve activity, stability and selectivity in selective hydrogenation** P. Chen, W. Xia, L. Chew, M. Muhler, Ruhr-Universität Bochum/D
2.02_6822	PS.14	**More is less: an in situ FT-IR study on the mechanism of the first C-C bond formation in the MTH process** Z. Yuan, G. Zhao, Z. Xu, W. Yang, Shanghai Research Institute of Petrochemical Technology-SINOPEC/PRC
2.02_6843		**Aryloxido titanium and zirconium complexes and their application for the production of short chains linear alpha-olefins (LAOs)** F. Grasset, L. Magna, H. Olivier-Bourbigou, IFP Energies Nouvelles, Solaize/F; P. Braunstein, University of Strasbourg/F
2.02_6857		**Improvement on catalyst life of H-ZSM-5 for dimethyl ether conversion to olefin** Y. Yamazaki, M. Nakaya, Tohoku University, Sendai/J; K. Omata, Shimane University, Matsue/J; M. Yamada, Akita National College of Technology/J; A. Muramatsu, Tohoku University, Sendai/J
2.02_6858		**Highly selective Pd/Al_2O_3 catalyst for hydrogenation of methylacetylene and propadiene in propylene stream** H. Yu, Z. Mao, W. Dai, H. Peng, Beijing Research Institute of Chemical Industry/PRC; J. Peng, M. Zhai, G. Wei, Beijing University/PRC
2.02_6859		**Stable ZSM-5 catalysts for steam cracking of *n*-hexane** A. Yamaguchi, D. Jin, T. Ikeda, K. Sato, T. Inoue, N. Hiyoshi, M. Shirai, F. Mizukami, T. Hanaoka, National Institute of Advanced Industrial Science and Technology (AIST), Sendai/J

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2.02_6910	PS.14	**Tuning selectivity of methanol-to-hydrocarbons conversion on acid zeolite catalysts** S. Ilias, I. Hill, M. Mazar, University of Minnesota, Minneapolis, MN/USA; S. Al Hashimi, The Petroleum Institute, Abu Dhabi/UAE; A. Bhan, University of Minnesota, Minneapolis, MN/USA
2.02_6949		**The role of chlorine in a catalyst system for the selective trimerisation of ethylene** A. Wöhl, W. Müller, Linde AG, Pullach/D; B.H. Müller, N. Peulecke, U. Rosenthal, Leibniz Institute for Catalysis at the University of Rostock/D; M.H. Al-Hazmi, Saudi Basic Industries Corporation, Riyadh/SAR
2.02_7002		**A kinetic and mechanistic study of pyrolysis gasoline hydrogenation** J. Ali, S.D. Jackson, University of Glasgow/UK
2.02_7008		**Oxidative dehydrogenation of ethane to ethylene using vanadia based catalysts: influence of different alumina supports** A. Qiao, V.N. Kalevaru, A. Martin, Leibniz Institute for Catalysis at the University of Rostock/D; A. Düvel, University of Hannover/D; A. Sri Hari Kumar, P.S. Sai Prasad, N. Lingaiah, Indian Institute of Chemical Technology, Hyderabad/IND
2.02_7021		**VO_x-catalysed dehydrogenation of C_3-C_4 alkanes: a comparative study with industrially relevant CrO_x- and Pt-Sn-based catalysts** M. Stoyanova, S. Sokolov, U. Rodemerck, D. Linke, E. Kondratenko, Leibniz Institute for Catalysis at the University Rostock (LIKAT)/D
2.02_7027		**Application of decomposed $H_4PMo_{11}VO_{40}$ catalysts supported on γ-Al_2O_3 for oxidative dehydrogenation of ethane to ethylene** V. Kalevaru, A. Qiao, A. Martin, Leibniz Institute for Catalysis at University of Rostock/D; A. Sri Hari Kumar, P.S. Sai Prasad, N. Lingaiah, Indian Institute of Chemical Technology, Hyderabad/IND; A. Alshammari, King Abdulaziz City for Science and Technology, Riyadh/SAR; Ch. Sailu, Osmania University, Hyderabad/IND
2.02_7034		**Non-oxidative dehydrogenation of 1-butene into 1,3-butadiene over Fe-Ce-Rb and Fe-Ce-Cs mixed oxide catalysts** H. Miura, Y. Tanaka, Y. Kano, M. Ohshima, H. Kurokawa, Saitama University/J
2.02_7050	PS.14	**Carbon templated SAPO-34 with improved adsorption kinetics and catalytic performance in the MTO-reaction** F. Schmidt, S. Paasch, E. Brunner, S. Kaskel, TU Dresden/D
2.02_7113		**Attenuation of coke deactivation by phosphorous modified HZSM-5 zeolites in the production of propylene from 1-butene catalytic cracking** E. Epelde Bejarano, M. Gamero, A.T. Aguayo, A.G. Gayubo, J. Bilbao, University of the Basque Country, Bilbao/E
2.02_7135		**Refining virgin benzene gas condensate into high-octane gasoline through zeolite-containing catalysts** V.I. Erofeev, A.S. Medvedev, I.S. Khomjakov, Tomsk Polytechnic University/RUS; V.I. Snegirev, LLC „Tomskneftegasrefining“ Ltd./RUS; V. Reshetilovski, TU Dresden/D
2.02_7184		**Effect of chromium addition on dehydrogenation of ethane with and without CO_2 over ZrO_2-CeO_2 based catalyst** P. Navarro, V. Cortes Corberan, Institute of Catalysis and Petroleumchemistry, CSIC, Madrid/E

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2.02_7229		**Improving catalytic performance of industrial DuPont VPO catalysts and substantial catalytic activity recovery of deactivated catalysts** R. Mateos, Catholic University of Leuven, Louvain-la-Neuve/B; A. Shekari, École Polytechnique de Montréal/CDN; S. Gonzalez-Carrazán, University of Salamanca/E; A. Caldarelli, F. Cavani, University of Bologna/I; E. Bordes-Richard, Université des Sciences et Technologies de Lille/F; G. Patience, École Polytechnique de Montréal/CDN; P. Ruiz, Catholic University of Leuven, Louvain-la-Neuve/B
2.02_7320		**Intermetallic Compounds – Materials for a Knowledge-Based Development in Heterogeneous Catalysis** M. Armbrüster, Yu. Grin, MPI for Chemical Physics of Solids, Dresden/D; R. Schlögl, Fritz-Haber-Institute, Berlin/D
2.02_7436		**EXAFS investigation of Pd/Ga_2O_3 catalysts for selective liquid-phase hydrogenation of acetylene to ethylene** N.S. Smirnova, O.O. Mironenko, D.A. Shlyapin, N.B. Shitova, Institute of Hydrocarbons Processing of SB of RAS, Omsk/RUS; D.I. Kochubey, Boreskov Institute of Catalysis of SB of RAS, Novosibirsk/RUS; P.G. Tsyrul'nikov, Institute of Hydrocarbons Processing of SB of RAS, Omsk/RUS
2.02_7446		**The surface selfpropagating termosynthesis (SSTS) of Pd/γ-Al_2O_3/fiber glass catalysts of selective liquid phase hydrogenation of acetylene to ethylene** O.O. Mironenko, Y.S. Kotolevich, Institute of Hydrocarbons Processing of Siberian Branch of RAS, Omsk/RUS; M.R. Sharafutdinov, Institute of Solid State Chemistry and Mechanochemistry of SB of RAS, Novosibirsk/RUS; N.S. Smirnova, Institute of Hydrocarbons Processing of SB of RAS, Omsk/RUS; D.I. Kochubey, R.V. Gulyaev, A.I. Boronin, Boreskov Institute of Catalysis of SB of RAS, Novosibirsk/RUS; O.V. Protasova, M.V. Trenikhin, P.G. Tsyrul'nikov, Institute of Hydrocarbons Processing of SB of RAS, Omsk/RUS
2.02_7476		**Ultra-high steaming stability of Ag- and Cu-ZSM-5 zeolites as naphtha cracking catalyst to produce light olefin** K. Kubo, H. Iida, S. Namba, A. Igarashi, Kogakuin University, Tokyo/J
2.02_7519		**Improvement of catalytic lifetime of H-ZSM-5 in hexane cracking by alkali treatment** H. Mochizuki, H. Imai, T. Yokoi, S. Namba, J.N. Kondo, T. Tatsumi, Tokyo Institute of Technology/J
2.02_7527	PS.14	**Kinetic study on the reaction of methoxy species with ethene using isotopes** H. Yamazaki, H. Imai, T. Yokoi, T. Takashi, J.N. Kondo, Tokyo Institute of Technology/J
2.02_7532		**Direct synthesis of metal-containing CIT-1 and its catalytic application** M. Yoshioka, T. Yokoi, H. Imai, J.N. Kondo, T. Tatsumi, Tokyo Institute of Technology/J
2.02_7544		**Development of novel perovskite-type oxide catalysts for dehydrogenation of propane with steam** R. Watanabe, C. Fukuhara, Shizuoka University/J; Y. Hondo, Y. Sekine, M. Matsukata, E. Kikuchi, Waseda University, Tokyo/J
2.02_7552		**A general method for size-controllable synthesis of zeolite crystals** X. Niu, Q. Miao, Y. He, M. Dong, Z. Qin, J. Wang, W. Fan, Institute of Coal Chemistry, Taiyuan/PRC
2.02_7592		**Effect of preparation method on the catalytic properties of Ni-Ta oxides for low temperature oxidative dehydrogenation of ethane to ethylene** H. Zhu, M. Sun, S. Ould-Chikh, J.-M. Basset, V. Caps, King Abdullah University of Science and Technology, Jeddah/SAR

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2.02_7596	PS.22	**Structure and catalysis of silica-supported molybdenum oxide** K. Amakawa, Fritz-Haber-Institute, Berlin/D; M. Hävecker, Helmholtz-Zentrum Berlin/D; J. Kröhnert, R. Schlögl, A. Trunschke, Fritz-Haber-Institute, Berlin/D
2.02_7602		**Ammoxidation of propane over Fe-silicalite: study of the effect of iron concentration** K. Raabova, E. Badurova, R. Bulanek, University of Pardubice/CZ
2.02_7606		**Pd_2Ga for selective hydrogenation of the C-C-triple bond – syntheses and catalytic properties of model and high performance catalysts** G. Wowsnick, A. Ota, L. Li, Fritz-Haber-Institute, Berlin/D; M. Armbrüster, MPI für Chemische Physik fester Stoffe, Dresden/D; I. Kasatkin, D. Rosenthal, J. Kröhnert, Fritz-Haber-Institute, Berlin/D; A. Zhang, MPI für Chemische Physik fester Stoffe, Dresden/D; R. Schlögl, M. Behrens, Fritz-Haber-Institute, Berlin/D
2.02_7609		**Ru catalysts and solvents for the partial hydrogenation of benzene** J.C.S. Soares, A.B. Gaspar, National Institute of Technology, Rio de Janeiro/BR; M.A.P. Silva, Federal University of Rio de Janeiro/BR
2.02_7678		**Influence of CNT treatment in oxidants on catalytic activity of Pd-Pt/CNTs in hydrogenation of naphthalene to tetralin** J. Chen, The University of Queensland, Brisbane/AUS; Q. Chen, Tianjin University/PRC
2.02_7720		**Carbon formation during methanol to hydrocarbons reaction (MTH) studied by *in situ* UV-Raman spectroscopy** F. Bonino, K. Barbera, S. Bordiga, University of Turin/I; P. Beato, Haldor Topsøe A/S, Lyngby/DK
2.02_7821		**Heterogeneous catalysts preparation in ionic liquids : alumina and titania-supported gold nanoparticles** C. Oumahi, J. Lombard, L. Delannoy, X. Carrier, UPMC-Université P. et M. Curie & CNRS, Paris/F
2.02_7844		**Study of producing Isophthalic acid by autoxidation of m-xylene** S. Choi, Y.H. Choi, J.I. Beak, Honam Petrochemical Corp., Daejeon-City/ROK
2.02_7857		**Complete prospect and carbon atom economy evaluation of methanol-to-olefins reaction** Y.X. Wei, J.Z. Li, S.T. Xu, C.Y. Yuan, L. Xu, J.R. Chen, Y. Zhou, Y. Qi, Z.M. Liu, Dalian Institute of Chemical Physics/PRC
2.02_7863		**Dehydrotreatment of C_9-aromatics over Na_2O-NiO-V_2O_5/γ-Al_2O_3 catalysts for higher efficiency of mesitylene separation** I. Petrov, Institute of Coal Chemistry & Chemical Materials Science of SB RAS, Kemerovo/RUS; O. Zolotaryov, Kuzbass State Technical University, Kemerovo/RUS; B. Tryasunov, Institute of Coal Chemistry & Chemical Materials Science of SB RAS, Kemerovo/RUS
2.02_7880	PS.14	**High activity of low-silica AlPO-34 in the methanol-to-olefins conversion** W. Dai, G. Wu, L. Li, N. Guan, Nankai University, Tianjin/PRC; H. Michael, University of Stuttgart/D
2.02_7882		**Oscillation during methanol-to-hydrocarbon reaction over HMCM-22** X. Wang, W. Dai, G. Wu, N. Guan, L. Li, Nankai University, Tianjin/PRC
2.02_7888	PS.14	**Methanol to propylene: effect of morphology of ZSM-5 synthesized from different systems** Q. Zhang, S. Hu, X.L. Liu, L.L. Zhang, Y.J. Gong, T. Dou, China University of Petroleum, Beijing/PRC

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2.02_7890	PS.25	**Influence of Al distribution in ZSM-5 on the catalytic performance of Pt/Zn(Na)-ZSM-5 during the non-oxidative dehydrogenation of propane** I. Kley, Y. Traa, University of Stuttgart/D; H. Jirglova, Z. Sobalik, J. Heyrovsky Institute of Physical Chemistry, Prague/CZ
2.02_7905	PS.14	**Comparison of topological structure of HZSM-48, HZSM-5 and HBeta in the methanol to propylene (MTP) reaction** S. Hu, X.L. Liu, J.L. Zhang, Y.S. Liu, Y.J. Gong, T. Dou, China University of Petroleum, Beijing/PRC
2.02_7910		**Ligand-assisted loading of chromium on periodic mesoporous organosilicas for enhanced cyclohexane oxidation catalysts** C.Y. Liu, Y. Zhang, G.L. Xu, S.X. Mei, China University of Petroleum, Beijing/PRC
2.02_7939		**Toluene methylation in hierarchical ZSM5** J.H. Ahn, R. Kolvenbach, A. Jentys, J.A. Lercher, TU München, Garching/D; M. Ba-Shammakh, A. Al-Shammari, N. Al-Yassir, S. Al-Khattaf, KingFahd University, Dhahran/SAR
2.02_7943		**Selective conversion of ethene to propene and butenes over 10-membered ring zeolites** S. Follmann, D. Perez, A. Omlor, S. Ernst, University of Kaiserslautern (TU)/D
2.02_7956	PS.02	**Combination of oxidative and non-oxidative dehydrogenation of C_3-C_4 alkanes as a promising approach for improving process selectivity. Influence of O_2 addition over VO_x/SBA-15** O. Ovsitser, C. Carrero, R. Schomaecker, TU Berlin/D; A. Trunschke, Fritz Haber Institute, Berlin/D
2.02_8004	PS.02	**Oxidative dehydrogenation of light alkanes on MoVTeNb mixed oxides** A. Meiswinkel, C. Thaller, K.H. Hofmann, M. Bock, L. Alvarado, Linde AG, Pullach/D; D. Hartmann, A.C. van Veen, J.A. Lercher, TU München, Garching/D
		Catalytic transformation of aromatic molecules, heteroatom functionalization, alkylation, disproportionation, isomerization
2.03_1062		**Free and montmorillonite-supported iron-salen complexes as biomimetically designed alkane activation catalysts** E. Kadwa, H.B. Friedrich, M.D. Bala, University of KwaZulu-Natal, Durban/ZA
2.03_1147		**Oxidation of organic sulfides by hydrogen peroxide as catalyzed by methyltrioxorhenium (VII)-cyclodextrin complex** N. Al-Rawashdeh, United Arab Emirates University, Al Ain/UAE; A. Al-Ajlouni, Jordan University of Science & Technology, Irbid/JOR; S. Bukallah, United Arab Emirates University, Al Ain/UAE; R. Al-Salman, Jordan University of Science & Technology, Irbid/JOR
2.03_1159		**Immobilised vanadium amino acide Schiff base complexes on al-mcm-41 as catalyst for the oxidation of allyl alcoholes** E. Zamanifar, F. Farzaneh, Alzahra university, Tehran/IR
2.03_1172		**Metal-catalysed carbonylative synthesis of fine chemicals** L. Fuwei, X. Chungu, Lanzhou Institute of Chemical Physics/PRC
2.03_1262		**UV activation and low-temperature plasma influence on the acid and catalyst properties of zeolite-containing catalysts during virgin benzen** M.V. Erofeev, Institute of High Current Electronics, Tomsk/RUS; I.S. Khomjakov, A.S. Medvedev, V.I. Erofeev, Tomsk Polytechnic University/RUS

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2.03_1376		**Effect of doping hierarchically structured TiO_2 with vanadium oxide in the removal of VOCs** T. Barakat, University of the Littoral Opal Coas, Dunkerque/F; J.C. Rooke, University of Namur (FUNDP)/B; R. Cousin, University of the Littoral Opal Coas, Dunkerque/F; M. Franco, J.-F. Lamonier, J.-M. Giraudon, Université Lille 1/F; B.-L. Su, University of Namur (FUNDP)/B; S. Siffert, University of the Littoral Opal Coas, Dunkerque/F
2.03_1399		**Selective hydrogenation of benzene to cyclohexene with dicyanamide based ionic liquids** F. Schwab, M. Lucas, P. Claus, TU Darmstadt/D
2.03_1409		**Catalytic properties of Ni nanoparticles combined with ionic liquids** I. Geukens, E. Plessers, J. Fransaer, D.E. De Vos, K.U. Leuven/B
2.03_1488		**Dimerisation of octene-1 in the presence of some 12 heteropoly acids** M. Munshieva, M.F. Nagiyev Institute of Chemical Problems of the NAS of Azerbaijan, Baku/AZ; D.B. Tagiyev, Azerbaijan Medical University, Baku/AZ; S.M. Zulfugarova, S.A. Baghirova, M.F. Nagiyev Institute of Chemical Problems of the NAS of Azerbaijan, Baku/AZ
2.03_1690	PS.03	**Methylation of benzene by methane using Ag/ZSM-5 catalyst.** T. Jermwongratanachai, B. Kitiyanan, T. Srisayan, Chulalongkorn University, Bangkok/THA
2.03_1691		**Operando characerisation of catalyst, surface adsorbates and catalytic conversion: the case of nitrobenzene hydrogenation over supported Au** M. Makosch, ETH Zurich/CH
2.03_1729		**High-throughput optimisation of catalytic hydrogenation reaction using a continuous flow reactor** F.-C. Chang, R.-J. Wu, P.-H. Kao, Industrial Technology Research Institute, Hsinchu/TW
2.03_1733		**Cleaving the alkyl C-C bond in ethylbenzene** F. Modica, G. Gajda, UOP – A Honeywell Company, Des Plaines, IL/USA
2.03_1756		**Acid sites requirements in the gas phase methylation of imidazole** C. Padró, M.N. Vanoy-Villamil, C.R. Apesteguía, National University of the Littoral, Santa Fe/RA
2.03_1821	PS.19	**Chiral ferrocenes in Suzuki-Miyaura *C,C*-couplings** D. Schaarschmidt, H. Lang, TU Chemnitz/D
2.03_1828	PS.38	**Selective hydrogenolysis of a lignin model compound into aromatic products over FeS_2-supported catalysts** N. Ji, X. Wang, R. Rinaldi, Max Planck Institute for Coal Research, Mülheim/D
2.03_1918		**Synthesis, characterisation and study on catalytic activity of platinum porphyrins in olefin epoxidation** A. Mortazavi Manesh, Sharif University of Technology, Tehran/IR; N. Safari, Shahid Beheshti University, Tehran/IR
2.03_1929		**Mesoporous materials containing niobium and tin addressed for the synthesis of fragrance ingredients** A. Feliczak-Guzik, I. Nowak, Adam Mickiewicz University in Poznan/PL

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2.03_1940		**Catalytic activity of Ti-MCM-41 in oxidation of α-pinene and ethyl oleate** T. Nguyen, Hanoi University of Science and Technology/VN; T. Tran, Vietnam National University, Hanoi/VN
2.03_2036		**Alcohols synthesis catalysts based on Ni-, Co- and Mo-oxides nanoparticles incorporated in mesoporous γ-Al_2O_3 and $Ti_{0.03}$ $Si_{0.97}O_2$** K. Kotsareva, Mendeleyev University of Chemical Technology of Russia, Moscow/RUS; E. Trusova, A.A. Baikov Institute of Metallurgy and Materials Science, RAS, Moscow/RUS; V. Dorokhov, V. Kogan, N.D. Zelinsky Institute of Organic Chemistry, RAS, Moscow/RUS
2.03_2070	PS.19	**On iron catalysis for the activation of C-Cl, C-O, and C-H bonds** A. Jacobi von Wangelin, University of Regensburg/D
2.03_2079		**Catalytic properties of nanosized ZSM-5 zeolite prepared by bead milling and post-milling recrystallization method** T. Wakihara, A. Ihara, S. Inagaki, J. Tatami, K. Sato, K. Komeya, T. Meguro, Y. Kubota, Yokohama National University/J
2.03_2099		**Selective hydrogenation of aromatic functional groups of large molecules by heterogeneous catalyst** M. Lo, Y. Chen, M. Chang, N. Cheng, C. Lee, R. Wu, ITRI, Hsin-Chu/RC
2.03_6643		**Catalyst destruction and ligand modification during reactions of oxo-titanium complexes with aldehydes and ketones** A.J. Nielson, Massey University, Auckland/NZ; J.M. Waters, Massey University at Albany, Auckland/NZ
2.03_6653		**Chlorostyrenes in iron-catalysed cross-coupling reactions** S. Gülak, A. Jacobi von Wangelin, University of Regensburg/D
2.03_6694		**Oligovanadates in alkane oxidation with H_2O_2 catalysed by vanadate-anion in acidified acetonitrile** M.V. Kirillova, M.L. Kuznetsov, TU Lisbon/P; Y.N. Kozlov, Semenov Institute of Chemical Physics of RAS, Moscow/RUS; L.S. Shul'pina, Nesmeyanov Institute of Organoelement Compounds of RAS, Moscow/RUS; A.J.L. Pombeiro, TU Lisbon/P; G.B. Shul'pin, Semenov Institute of Chemical Physics of RAS, Moscow/RUS
2.03_6701		**Oxidation of isoeugenol into vanillin with hydrogen peroxide catalysed by the combination vanadate-pyrazine-2-carboxylic acid** E.V. Gusevskaya, Universidade Federal de Minas Gerais, Belo Horizonte/BR; Y.N. Kozlov, Semenov Institute of Chemical Physics of RAS, Moscow/RUS; R.A. Mesquita, L. Menini, L.A. Parreira, Universidade Federal de Minas Gerais, Belo Horizonte/BR; G.B. Shul'pin, Semenov Institute of Chemical Physics of RAS, Moscow/RUS
2.03_6703	PS.10	**Oxidation benzene to p-quinone with H_2O_2 catalysed by the `$[Mn_2L_2O_3]^{2+}$ (L = 1,4,7-trimethyl-1,4,7-triazacyclononane)-oxalic acid' combination** Y.N. Kozlov, Semenov Institute of Chemical Physics of RAS, Moscow/RUS; L.S. Shul'pina, T.V. Strelkova, Nesmeyanov Institute of Organoelement Compounds of RAS, Moscow/RUS; G.B. Shul'pin, Semenov Institute of Chemical Physics of RAS, Moscow/RUS
2.03_6940		**Direct synthesis of stable and highly active ruthenium-carbon catalysts templated by $RuCl_3$/SBA-15 for hydrogenation of benzene** G.J. Lan, Y. Li, H.D. Tang, H.Z. Liu, Zhejiang University of Technology, Hangzhou/PRC
2.03_6957		**Ionic liquids with highly acidic protons – application as catalysts and solvents in biphasic reactions** K. Titze-Frech, P.S. Schulz, University of Erlangen-Nürnberg/D; N. Ignatiev, Merck KGaA, Darmstadt/D; P. Wasserscheid, University of Erlangen-Nürnberg/D
2.03_6961		**Liquid salts of Mo(IV) immobilised in supported ionic liquid phase as catalysts for deoxygenation of sulfoxides** M. Bagherzadeh, S. Ghazali-Esfahani, Sharif University of Technology, Tehran/IR
2.03_6984		**Indene and its utilization for preparation of chemical specialties** M. Stekrova, E. Vyskocilova, L. Cerveny, Institute of Chemical Technology Prague/CZ
2.03_7007		**Direct hydrogenation of p-nitrophenol to p-aminophenol on amorphous nano-nickel boride** F. Taghavi, Azerbaijan Sate Oil Academy, Baku/AZ; C. Falamaki, Chemical Engineering Department, Tehran/IR; A. Shabanov, Azerbaijan Sate Oil Academy, Baku/AZ; M.A. Golsorkh, R. Kamali, Chlor Pars Co., Tabriz/IR
2.03_7019		**Highly active supported metal catalysts prepared by thermo-destabilisation of microemulsion** R. Parapat, M. Schwarze, A. Ang, M. Wijaya, TU Berlin/D; B. Zhang, Fritz Haber Institute, Berlin/D; R. Schomäcker, TU Berlin/D
2.03_7044		**Selective removal of framework Al from the external surface of ZSM-5 zeolite catalyst** S. Inagaki, Y. Kaneko, K. Takechi, R. Komatsu, S. Shinoda, Y. Kubota, Yokohama National University/J
2.03_7063		**The catalytic activity of xylyltrioxorhenium in olefin epoxidation: formation of the active species with *tert*-butyl hydroperoxide** S. Huber, M. Cokoja, M. Drees, W.A. Herrmann, F.E. Kühn, TU München, Garching/D
2.03_7116		**Synergistic effects of encapsulated phthalocyanine complexes in MIL-101 for the selective aerobic oxidation of tetralin** E. Kockrick, T. Lescouet, E.V. Kudrik, A.B. Sorokin, D. Farrusseng, CNRS, Villeurbanne/F
2.03_7138		**Applying fluorinated solvents for methyltrioxorhenium-catalyzed olefin epoxidations** P. Altmann, M. Cokoja, F.E. Kühn, TU München/D
2.03_7150		**Liquid-phase production of epsilon-caprolactam in high yields – a breakthrough?** M. Potter, R. Raja, University of Southampton/UK; A. Levy, Honeywell LLC, Morristown, NJ/USA
2.03_7177		**Influence of the acidity of Pd/silica-alumina catalysts on their performances in the Suzuki coupling** M.J. Jacquemin, D.P. Debecker, E.M. Gaigneaux, Université catholique de Louvain (UCL), Louvain-la-Neuve/B
2.03_7226		**The effect of plant biomass in preparing Au/TS-1 catalysts and epoxidation of propylene** M. Du, G. Zhan, F. Yang, J. Huang, L. Jia, Q. Li, Xiamen University/PRC
2.03_7252	PS.38	**Experimental and computational investigations of coverage effects on the reactions of sugar- and lignin-derived aromatic compounds** S.H. Pang, J.W. Medlin, University of Colorado Boulder, CO/USA
2.03_7277		**Preparation and characterisation of some nano size basic zeolites and their application for cyanoethylation reactions** A. Nemati Kharat, S. Zamanian, University of Tehran/IR
2.03_7309		**Direct transformation from gas to liquid hydrocarbons catalysed by supported metal-hydrides** K. Szeto, L. Hardou, A. Garron, J.M. Basset, S. Norsic, University Lyon 1 – CNRS – CPE Lyon, Villeurbanne/F; C. Papaioannou, BP, Naperville/USA; M. Taoufik, University Lyon 1 – CNRS – CPE Lyon, Villeurbanne/F

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2.03_7421		**Side-chain alkylation of toluene with methanol over ion-exchanged Cs-IM-5 zeolites** J.H. Shi, Z.H. Zhang, B. Pan, W.C. Zhu, Jilin University, Changchun/PRC; C.L. Zhang, Technology Research Institute of Shanghai Huayi Group/PRC; W.X. Zhang, W.F. Yan, M.J. Jia, Jilin University, Changchun/PRC
2.03_7444		**Protodecarboxylation of aromatic carboxylic acids with heterogeneous silver catalysts** X.Y. Toy, S. Jaenicke, National University of Singapore/SGP
2.03_7497		**Synthesis and catalytic properties of orderedly mesoporous nanoparticles** K. Lin, Y. Jiang, J. Liu, J. Sun, X. Xu, Harbin Institute of Technology/PRC
2.03_7504		**Effect of reaction condition on hydrogenation of coal with hydrogen over metal sulfide catalyst for production of coal-derived syn-fuel** G.B. Han, C.J. Jeong, J.H. Jang, C.S. Choi, Institute for Advanced Engineering, Yongin-si/ROK; M.S. Kang, N.K. Park, T.J. Lee, Yeungnam University, Gyeongsan-si/ROK
2.03_7508	PS.23	**Selective hydrogenation of nitro arenes via a heterogeneous cobalt catalyst** F. Westerhaus, J. Rajenhally, G. Wienhöfer, M. Pohl., K. Junge, M. Beller, Leibniz Institute for Catalysis at the University of Rostock/D
2.03_7525		**Effects of promoter and sulfidation on catalytic activity of WO_x/TiO_2 catalysts for hydrodeoxygenation of guaiacol** Y. Hong, H. Eom, Korea University, Seoul/ROK; K. Lee, Korea University & GREEN SCHOOL, Seoul/ROK
2.03_7529		**A novel method for the preparation of metal Schiff-base functionalised MgAl hydrotalcite multifunctional catalyst** S. Gao, B. Fan, X. Liu, R. Li, TU Taiyuan/PRC
2.03_7555		**C-H bond activation at room temperature over nitrogen-stimulated layered carbon catalysts** Y.J. Gao, X.H. Bao, Dalian Institute of Chemical Physics/PRC; D. Ma, University of Beijing/PRC
2.03_7557	PS.10	**Aerobic oxidation of benzene to phenol on Cu-zeolites: a molecular view** A. Häusser, University of Stuttgart/D; A. Kromer, A.B. Ene, T. Archipov, E. Roduner, University of Stuttgartt/D
2.03_7561	PS.10	**Graphene catalysed direct oxidation of benzene to phenol** J.H. Yang, TU Dalian/PRC; Y.J. Gao, Dalian Institute of Chemical Physics/PRC; D. Ma, University of Bejing/PRC
2.03_7565		**Synthesis of an oxovanadium(IV) complex with ONO tridentate Schiff base ligand and the application as catalyst in oxidation of alcohols and** M. Bagherzadeh, N. Mousavi, Sharif University of Technology, Tehran/IR
2.03_7566	PS.03	**Benzylation of aromatic hydrocarbon by benzyl chloride over mesoporous microspherical ZSM-5 zeolite** H. Miao, Z. Xue, J. Ma, Y. Zhang, R. Li, TU Taiyuan/PRC
2.03_7567		**Metal-organic frameworks $[Cu_2(BDC)_2(dabco)]$. 4DMF as a heterogeneous catalyst for olefin epoxidation** M. Bagherzadeh, F. Ashouri, Sharif University of Technology, Tehran/IR; M.A. Alavi, A. Morsali, Tarbiat Modares University, Tehran/IR
2.03_7605		**Ruthenium-catalysed carboxylate-assisted C-H bond functionalisation** N. Hofmann, University of Göttingen/D; R. Vicente, University of Oviedo/E; A.V. Lygin, L. Ackermann, University of Göttingen/D

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2.03_7650		**Direct oxidation of benzene to phenol: the impact of hierarchical structured zeolites** S. Lopez-Orozco, A. Machoke, W. Schwieger, University of Erlangen-Nürnberg/D
2.03_7654		**Liquid phase oxidation of benzyl alcohol over carbon supported Pd and Rh catalysts: the effect of surface acido-basicity** B. Wang, Institute of Chemical and Engineering Sciences, Singapore/SGP; Y. Yang, Nanyang Technological University, Singapore/SGP; A. Borgna, Institute of Chemical and Engineering Sciences, Singapore/SGP
2.03_7769		**Role of the support on the activity of Ni/silica gel vegetable oil hydrogenation catalysts** J. Krstic, D. Loncarevic, D. Jovanovic, IChTM, Belgrade/YU; M. Gabrovska, D. Nikolova, Institute of Catalysis BAS, Sofia/BG
2.03_7804	PS.22	**Well-defined tungsten oxo alkyl derivatives supported on silica as models of WO_3/SiO_2 olefin metathesis catalyst** M. Mazoyer, N. Merle, A. de Mallmann, M. Taoufik, Université Lyon 1-CPE, Villeurbanne/F; J.M. Basset, KAUST Catalysis Center (KCC), Thuwal/SAR; E. Berrier, L. Delevoye, J.F. Paul, R.M. Gauvin, Université Lille/F; C.P. Nicholas, UOP – A Honeywell Company, Des Plaines, IL/USA
2.03_7833		**Study of the stability of the Ag catalyst supported on Al_2O_3-ZrO_2 for oxidation of phenol** F. Nuñez, G.A. Del Angel, Universidad Autónoma Metropolitana, México D.F./MEX
2.03_7904	PS.03	**Indium-containing ZSM-5 catalysts for methylation of benzene** T. Srisayan, T. Jermwongratanachai, P. Wangrattanasophon, B. Kitiyanan, Chulalongkorn University, Bangkok/THA
2.03_7909		**Benzene alkylation with ethanol over synthesized HZSM-5 catalysts** T. Rugwong, T. Rirksomboon, S. Jongpatiwut, P. Duang-udom, Chulalongkorn University, Bangkok/THA
2.03_7916		**Challenging substrates for heterogeneous catalyst screening and evaluation: probing activity and selectivity** N. Caplan, S. Hawker, F. Nerozzi, R.J. McNair, Johnson Matthey, Royston/UK
2.03_8015	PS.03	**HY Zeolite Inside TUD-1: a new hierarchically micro-/mesoporous composite with extraordinary activity in benzylation reactions** M.S. Hamdy, G. Mul, Twente University, Enschede/NL
2.03_8069		**Improving iron and aluminum catalysts for ethylbenzene dehydrogenation** A. Ramos de Medeiros, M. de Souza Ramos, S. Barbosa Lima, Universidade Federal da Bahia, Salvador/BR; J.L. Garcia Fierro, Instituto de Catálisis y Petroleoquímica del CSIC, Madrid/E; M.C. Rangel, Universidade Federal da Bahia, Salvador/BR
2.03_8150		**Physico-chemical and catalytic properties of Pd/Ga-MCM41** J. Aguilar, Y. Gonzalez, Universidad Autonoma Metropolitana-A, México D.F./MEX; N. Martin, Universidad Autonoma Metropolitana-Iztapalapa, México D.F./MEX
2.03_8153	PS.03	**Surfactant-directed mesoporous beta zeolite as a catalyst for Friedel-Crafts alkylation** J. Kim, K. Na, R. Ryoo, Korea Advanced Institute of Science and Technology, Daejeon/ROK
2.03_8155	PS.03	**Chemoselective benzylation of aromatics with benzyl alcohol over mesoporous ZSM-5** H.L. Jin, M.B. Ansari, E.-Y. Jeong, S. -E. Park, Inha University, Incheon/ROK

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		Platform and specialty chemicals from renewables
2.04_1033	PS.38	**Catalytic lignin valorisation process for the renewable production of chemicals and hydrogen** A.L. Jongerius, J. Zakzeski, P.C.A. Bruijnincx, B.M. Weckhuysen, University of Utrecht/NL
2.04_1056		**Highly-efficient conversion of glycerol to solketal over heterogeneous Lewis acid catalysis** L. Li, T. Koranyi, B.F. Sels, P.P. Pescarmona, K.U.Leuven, Heverlee/B
2.04_1068	PS.32	**Gold nanoparticles supported on magnesium oxide as catalysts for the aerobic oxidation of alcohols under base free conditions** V.V. Costa, Universidade Federal de Minas Gerais, Belo Horizonte/BR; M. Estrada, Centro de Investigación Científico y de Educación Superior de Ensenada/MEX; R.F. Cotta, Universidade Federal de Minas Gerais, Belo Horizonte/BR; A. Simakov, S. Fuentes, Universidad Nacional Autónoma de México, Ensenada/MEX; E.V. Gusevskaya, Universidade Federal de Minas Gerais, Belo Horizonte/BR
2.04_1073	PS.07	**Selective ethanol conversion over Cu/ZrO_2 catalysts** A.G. Sato, Federal University of São Carlos/BR; D.P. Volanti, São Paulo State University, Araraquara/BR; S. Damyanova, Institute of Catalysis, Sofia/BG; J.M.C. Bueno, Federal University of São Carlos/BR
2.04_1078		**Effect of co-solvents and salting-out on fructose dehydration to 5-hydroxymethyl-furfural in acetone** L.V.P. Mendes, F.N.D.C. Gomes, Y.L.O. Silva, N.F.P. Ribeiro, M.M.V.M. Souza, UFRJ, Rio de Janeiro/BR
2.04_1083		**Highly selective hydrogenolysis of glycerol to propylene glycol over Cu-based catalysts** Z. Xiao, C. Liu, C. Liang, Dalian University of Technology/PRC
2.04_1092		**Catalytic conversion of glycerol to 1,3-propanediol: influence of active components, supports, additives and treatment conditions of cataly** L. Ma, Y.M. Li, D.H. He, Tsinghua University, Beijing/PRC
2.04_1169		**Efficient alcoholysis of cellubiose and cellulose with ecyclable acidic gel-catalysts under mild conditions** J. Chen, Y.N. Wang, X.P. Duan, H.Q. Lin, Y.Z. Yuan, Xiamen University/PRC
2.04_1202	PS.26	**Tandem hydroformylation-cyclization of limonene catalyzed by rhodium complexes and pyridinium *p*-toluenesulphonate** C.G. Vieira, M.C. de Freitas, E.N. dos Santos, E.V. Gusevskaya, Federal University of Minas Gerais, Belo Horizonte/BR
2.04_1284		**Low temperature chemoselective hydrogenolysis of tetrahydrofurfuryl alcohol to 1,5-pentanediol** Z. Wang, N. Li, T. Zhang, Dalian Institute of Chemical Physics/PRC
2.04_1325		**Zirconia-supported CaO as stable solid base catalyst** A. Frey, J. Yang, J. Bitter, K. de Jong, Utrecht University/NL
2.04_1361		**Zeolite-promoted hydrolysis of cellulose in ionic liquid: new insight into the mutual behaviors of zeolite, cellulose and ionic liquid** H. Cai, C. Li, A. Wang, T. Zhang, Dalian Institute of Chemical Physics/PRC
2.04_1378		**An operando DRIFTS investigation into the resistance against CO_2 poisoning of a Rh/alumina catalyst during toluene hydrogenation** F. Meunier, J. Scalbert, Université de Caen/F; C. Daniel, Y. Schuurman, Université Lyon 1, Villeurbanne/F

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2.04_1382		**One-pot catalytic hydrocracking of raw woody biomass into chemicals over supported carbide catalysts** C. Li, M. Zheng, A. Wang, T. Zhang, Dalian Institute of Chemical Physics/PRC
2.04_1426		**Gas-phase dehydration of glycerol on metal-phosphates** S. Lopez-Pedrajas, F.M. Bautista, D. Luna, J.M. Marinas, Cordoba University/E
2.04_1427		**Enhancing selectivity in oxidation of glycerol using porous polymers** F.H. Richter, T. Klasen, L. Sahraoui, F. Schüth, Max-Planck-Institut für Kohlenforschung, Mülheim an der Ruhr/D
2.04_1473		**Understanding the solvent effect in heterogeneous catalysis with NMR diffusometry, NMR relaxometry and THz-TDS spectroscopy: a novel approach to elucidate the physical chemistry of chemical reactions in porous catalysts** C. D'Agostino, University of Cambridge/UK; T. Kotionova, G.L. Brett, P.J. Miedziak, University of Cardiff/UK; R. Li, University of Cambridge/UK; G.J. Hutchings, University of Cardiff/UK; M.D. Mantle, L.F. Gladden, University of Cambridge/UK
2.04_1494		**Isomerization of α-pinene oxide over cerium and tin catalysts** V.V. Costa, Federal de Minas Gerais University, Belo Horizonte/BR; K.A.S. Rocha, L.F. Sousa, P.A. Robles-Dutenhefner, Federal Ouro Preto University/BR; E.V. Gusevskaya, Federal de Minas Gerais University, Belo Horizonte/BR
2.04_1499	PS.38	**Selective oxidation of wood biomass derived lignan over gold catalysts** O.A. Simakova, E.V. Murzina, P. Maki-Arvela, S. Willfor, J. Warna, D.Yu. Murzin, Abo Akademi University, Turku/FIN
2.04_1600		**Synthesis and characterisation of complexes with tripodal ligands for dioxygen activation** T. Madsen, S. Mossin, TU Denmark, Lyngby/DK
2.04_1640	PS.37	**Controllable conversion of cellulose into propylene glycol and ethylene glycol on Ru catalyst promoted by tungsten trioxide** Y. Liu, C. Luo, H. Liu, University of Beijing/PRC
2.04_1643		**Au-catalysed selective isomerisation of α-pinene to camphene: insight in reaction kinetics and catalyst deactivation** Yu. Demidova, I. Simakova, S. Reshetnikov, Boreskov Institute of Catalysis, Novosibirsk/RUS; M. Estrada, Posgrado de Física de Materiales de CICESE-UNAM, Ensenada/MEX; A. Simakov, Centro de Nanociencias y Nanotecnología-UNAM, Ensenada/MEX; D.Yu. Murzin, Åbo Akademi University, Turku/Åbo/FIN
2.04_1646		**Solid acid catalysed formation of ethyl levulinate from mono- and disaccharides** S. Saravanamurugan, TU Denmark, Kongens Lyngby/DK
2.04_1648		**Catalytic activity of Co and Cr adsorbed on succinylated sugarcane bagasse in the autoxidation of citronellolan application of used adsorbed** P. Robles-Dutenhefner, A. M. da Silva, T. S. Rodrigues, L. Gil, Federal University of Ouro Preto/BR
2.04_1675		**Synthesis and characterisation of catalysts Pd/sol-gel Pd/MCM-41 applied in Suzuki coupling reactions** A. M. da Silva, D. de Miranda, Federal University of Ouro Preto/BR; M. Speziali, A.L. Monteiro, Federal University of Rio Grande do Sul, Porto Alegre/BR; A. Dias, Federal University of Ouro Preto/BR; P. Robles-Dutenhefner, Federal University of Ouro Preto/RU
2.04_1695		**Sustainable production of acrolein: performance of hydrated tantalum oxide catalysts for gas-phase dehydration of glycerol** L.Z. Tao, B. Yan, Y. Liang, B.Q. Xu, Tsinghua University, Beijing/PRC

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2.04_1754	PS.30	**Hydrogenolysis of polyols over Cu/Hydrotalcite catalysts to value-added chemicals: a new multifunctional catalyst** X. Jin, B. Subramaniam, R. Chaudhari, Center for Environmentally Beneficial Catalysis, Lawrence, KS/USA
2.04_1762	PS.22	**Direct conversion of ethene to propene over nickel on mesoporous silica** A.S. Frey, O. Hinrichsen, TU München/D
2.04_1800	PS.07	**Effect of copper loading on Cu/ZrO_2 catalyst in direct transformation of ethanol to ethyl acetate** I.C. Freitas, C.M.P. Marques, J.M.C. Bueno, Federal University of São Carlos/BR
2.04_1812	PS.07	**Ethanol oxidation over bimetallic Au/Ag catalysts** M. Rothensteiner, K. Foettinger, G. Rupprechter, TU Vienna/A
2.04_1820		**Impact of inorganic promoters on the isomerisation of pentoses catalysed by solid Lewis acids** Y. Wang, Y. Ji, T. Prasomsri, W. Gunther, Y. Roman-Leshkov, Massachusetts Institute of Technology, Cambridge, MA/USA
2.04_1887		**The transformation of carbohydrates into high-value chemicals using mesoporous materials modified by d-electron metals** K. Jagodzinska, I. Nowak, Adam Mickiewicz University, Poznan/PL
2.04_1919		**Zeolites to catalyse dehydration of lactic acid to acrylic acid** L.F. Gonzalez, C.L. Padro, C.R. Apesteguia, National University of the Littoral, Santa Fe/RA
2.04_2020		**Reactive distillation of glycerol in the presence different type of catalysts** J. Halász, Sz. Mészáros, Zs. Ferencz, University of Szeged/H
2.04_2042		**Design of highly selective propylene glycol synthesis via hydrogenolysis of alkyl lactates over Cu/SiO_2** M.N. Simonov, I.L. Simakova, Boreskov Institute of Catalysis, Novosibirsk/RUS
2.04_2047		**Concentrated aqueous solutions of carboxylic acids as efficient and sustainable media to produce 5-HMF** R. Lopes de Souza, F. Rataboul, N. Essayem, CNRS-Lyon1, Villeurbanne/F
2.04_2108		**Sucrose hydrolysis as model reaction for determining the active Bronsted acid sites of catalyst in water** P. Carniti, A. Gervasini, M. Marzo, Università degli Studi di Milano/I
2.04_2116		**Hydrothermal biomass conversions and *in-situ* hydrogenations – the reactor wall effect** V. Fabos, T. Maschmeyer, A.F. Masters, Sydney University/AUS
2.04_6709		**Selective conversion of microcrystalline cellulose into glycerol and sorbitol over supported nickel catalysts** A. Tanksale, Monash University, Melbourne/AUS; S. Shrotri, J.N. Beltramini, University of Queensland, Brisbane/AUS
2.04_6745	PS.38	**Catalytic oxidative depolymerization of organosolv lignins** J. van Hal, A. van Zomeren, The Energy Research Centre of the Netherlands (ECN), Petten/NL
2.04_6878		**The dehydroaromatization of natural and bio gas: a green route to aromatic compounds using a new reactor concept** B.B. Schaack, S. Ahrens, A. Panchenko, C. Schneider, T. Heidemann, BASF SE, Ludwigshafen/D

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2.04_6913		**Zeolite-Y confined $PdCl_2$(phen): an efficient and recyclable catalyst for oxidative carbonylation of glycerol to glycerol carbonate** J. Hu, Y. Gu, G. Li, Huazhong University of Science and Technology, Wuhan/PRC
2.04_6985		**Mechanistic aspects of gold-catalyzed synthesis of dicarboxylic acids** A. Kulik, A. Köckritz, A. Martin, Leibniz Institute for Catalysis at the University of Rostock/D
2.04_6993		**Effect of the Pd-Re/TiO_2 catalysts preparation mode upon the selective aqueous-phase hydrogenation of succinic acid to 1,4-butanediol** B.K. Ly, D.P. Minh, C. Pinel, M. Besson, University of Lyon, Villeurbanne/F; B. Tapin, F. Epron, C. Especel, University of Poitiers/F
2.04_7082	PS.30	**New efficient and long life catalyst for glycerol dehydration to acrolein** P. Lauriol-Garbey, R. Znaiguia, S. Loridant, IRCELYON, Villeurbanne/F; S. Pariente, V. Bellière-Baca, RHODIA, Aubervilliers/F; P. Rey, ADISSEO, Antony/F; J.M.M. Millet, IRCELYON, Villeurbanne/F
2.04_7094		**Increasing the selectivity of formation of HMF in aqueous solution using *in situ* adsorption method** R. Saliger, U. Prüße, K.-D. Vorlop, Johann Heinrich von Thünen-Institute (vTI), Braunschweig/D
2.04_7129		**Homogeneously ruthenium catalyzed synthesis of primary amines and diamines** S. Imm, S. Bähn, H. Neumann, M. Beller, Leibniz-Institut für Katalyse e.V. an der Universität Rostock/D
2.04_7189		**On the way to homogeneous lignin degradation – Pd-catalysed cleavage of aryl-ethers** T. Wagner, M. Cokoja, W.A. Herrmann, F.E. Kühn, TU München, Garching/D
2.04_7191	PS.34	**Acidolysis of triglycerides using heterogeneous acid catalysts** A. Avila, D. Damiani, G. Tonetto, National University of the South, Bahía Blanca/RA
2.04_7201		**The dehydroisomerisation of limonene to p-cymene over mixed metal oxides based on Zn/Al LDHs** A. Inayat, A. Makky, W. Schwieger, University of Erlangen-Nürnberg/D
2.04_7256		**Selective oxidation of renewable organic substrates** A.F. Lopes dos Santos, S.A.C Carabineiro, N. Mahata, J.L. Figueiredo, University of Porto/P
2.04_7298		**Structure sensitivity and kinetics of selective oxidation of sugars over gold catalysts** B. Kusema, A. Simakova, P. Mäki-Arvela, J-P. Mikkola, T. Salmi, D. Murzin, Åbo Akademi University, Åbo/FIN
2.04_7357		**Gas-phase dehydration of glycerol to acrolein over silicotungstic acid supported on silica-alumina** Y.T. Kim, Korea Institute of Science and Technology, Seoul/ROK; S.J. You, Ajou University, Suwon/ROK; K.-D. Jung, Korea Institute of Science and Technology, Seoul/ROK; E.D. Park, Ajou University, Suwon/ROK
2.04_7358		**Study of the stability of Pd/Al_2O_3/Al monoliths in the Hhydrogenation of vegetable oil** D. Boldrini, J. Sánchez M., G. Tonetto, D. Damiani, National University of the South, Bahía Blanca/RA
2.04_7375		**Facile synthesis of mesoporous Ti-W mixed oxides as excellent catalyst supports for selective hydrogenolysis of glycerol to 1,3-propanediol** Y. Zhang, A. Wang, T. Zhang, Dalian Institute of Chemical Physics/PRC

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2.04_7379		**Chemicals from ethanol – the acetone one-pot synthesis** C.P. Rodrigues, P.C. Zonetti, A.B. Gaspar, L.G. Appel, Instituto Nacional de Tecnologia, Rio de Janeiro/BR
2.04_7380	PS.38	**Hydrodeoxygenation of lignin-related compounds by supported platinum catalysts** H. Ohta, H. Kobayashi, K. Hara, A. Fukuoka, Hokkaido University, Sapporo/J
2.04_7521		**Dehydration of monosaccharides over *BEA-type zeolite catalysts** R. Otomo, T. Yokoi, H. Imai, J.N. Kondo, T. Tatsumi, Tokyo Institute of Technology, Yokohama, Kanagawa/J
2.04_7549	PS.37	**Selective hydrolysis of cellulose into glucose by new methods using water vapor** A. Onda, Y. Iida, K. Yanagisawa, Kochi University/J
2.04_7563		**Catalytic utilization of glycerol as a sustainable feedstock for chemicals and materials** F. Wang, J. Xu, Dalian Institute of Chemical Physics/PRC
2.04_7578	PS.04	**UV and Deep UV Raman spectroscopy characterization of transition-metal containing zeolites** F.T. Fan, Q. Guo, M. L. Guo, Z. C. Feng, C. Li, Dalian Institute of Chemical Physics/PRC
2.04_7636		**Towards lignin depolymerisation via ruthenium hydride catalysed C-O bond cleavage** R. Harms, M. Cokoja, W.A. Herrmann, F.E. Kühn, TU München, Garching/D
2.04_7671	PS.14	**TOF-SIMS study of coke formation on H-ZSM-5 Catalysts in the Methanol to Olefins Reaction** J.P. Hofmann, L.R. Aramburo Corrales, University of Utrecht/NL; M. Rohnke, J. Janek, University of Giessen/D; B.M. Weckhuysen, University of Utrecht/NL
2.04_7675		**Synthesis and performance of stable Copper catalysts for selective glycerol hydrogenolysis** E. Vasiliadou, A.A. Lemonidou, Aristotle University and Chemical Process Engineering Research Institute (CERTH/CPERI), Thessaloniki/GR; T.M. Eggenhuisen, P. Munnik, P.E. de Jongh, K.P. de Jong, University of Utrecht/NL
2.04_7706		**DFT study on glucose conversion to 5-Hydroxymethylfurfural catalysed by NaOH and H_3PO_4** S. Namaungruk, K. Faungnawakij, N. Viriya-empikul, National Science and Technology Development Agency, Pathumtani/THA; N. Laosiripojana, P. Daorattanachai, King Mongkut's University of Technology Thonburi, Bangkok/THA
2.04_7741		**Sulfonic periodic mesoporous organosilicas for the hydrolysis of cellobiose** M. Karaki, F. Rataboul, N. Essayem, CNRS-University of Lyon, Villeurbanne/F; B. Lebeau, University of Mulhouse/F; A. Karout, J. Toufaily, Lebanese University, Beyrouth/RL
2.04_7755		**Hydrogenolysis of tetrahydrofurfuryl alcohol to 1,5-pentanediol over ReO_x-modified Ir catalyst** K. Chen, Y. Nakagawa, K. Tomishige, Tohoku University, Sendai/J
2.04_7781		**Esterification of purified biodiesel byproduct and pure glycerol with lauric acid over amberlyst-15: a comparison study** H.L. Hosgun, M. Yildiz, Eskisehir Osmangazi University/TR; H.F. Gercel, Anadolu University, Eskisehir/TR; O.S. Kabasakal, Eskisehir Osmangazi University/TR
2.04_7862		**Tuning the activity and selectivity in glycerol oxidation over Au/MWNTs catalyst by promotional effect** P. Makgwane, S. Sinha Ray, Council for Scientific and Industrial Research, Pretoria/ZA

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2.04_7993		**Selective oxidation of 5-hydroxymethyl-2-furfural over Au and Au-Cu supported catalysts: role of active phase and support.** S. Albonetti, T. Pasini, A. Lolli, University of Bologna/I; A. Migliori, V. Morandi, IMM-CNR, Bologna/I; F. Cavani, University of Bologna/I
2.04_8056		**Acid-functionalized ionic liquids as catalysts for xylose dehydration to furfural under microwave heating** J. Serrano-Ruiz, R. Luque, A. Balu, J. Campelo, A. Romero, A. Pineda, M. Ojeda, University of Cordoba/E
2.04_8177		**Effect of catalyst modification on the selective conversion of glycerol to allyl alcohol** M. Stockenhuber, G. Sanchez, J. Friggieri, C. Keast, L. Harvey, B.Z. Dlugogorski, E. Kennedy, The University of Newcastle, Callaghan/AUS
		Fine chemicals and pharmaceuticals
2.05_1015		**Mechanistic studies on the selective oxidation of acrolein on Mo/V/W-mixed oxide catalysts** A. Drochner, T. Petzold, N. Blickhan, T. Jekewitz, H. Vogel, TU Darmstadt/D
2.05_1017		**Characterisation of beta palladium hydride formation in the Lindlar catalyst and in carbon supported palladium** P. Albers, AQura GmbH, Hanau/D; K. Möbus, Evonik Industries Business Line Catalysts, Hanau/D; C.D. Frost, S.F. Parker, ISIS Facility STFC Rutherford Appleton Laboratory, Chilton/UK
2.05_1018		**Pd-catalysed carbonylative Heck reaction of arylbromides with vinylethers to 3-alkoxy-alkenones: providing one-pot access to pyrazoles** J. Schranck, X.-F. Wu, H. Neumann, M. Beller, Leibniz Institute for Catalysis at the University of Rostock/D
2.05_1038		**Effect of reduction in liquid phase on the properties and the catalytic activity of Pd/Al_2O_3 catalysts** E. Groppo, G. Agostini, University of Torino/I; A. Piovano, ILL, Grenoble/F; N.B. Muddada, inGAP, Oslo/N; G. Leofanti, R. Pellegrini, Chimet S.p.A., Arezzo/I; G. Portale, ESRF, Grenoble/I; A. Longo, CNR, Palermo/I; C. Lamberti, University of Torino/I
2.05_1041		**Investigation of supported vanadium-antimony-oxides for the oxidation of methanol to formaldehyde** M. Schumann, TU Darmstadt/D; H.-J. Eberle, A. Zipp, Wacker Chemie AG, München/D; A. Drochner, H. Vogel, TU Darmstadt/D
2.05_1059		**Tuning Brönsted basicity on activated layered double hydroxides: a remarkable control on cyanoethylation of alcohols** J. S. Valente, Mexican Petroleum Institute, Mexico DF/MEX; J. Flores, A. Santana-Cruz, Autonomous Metropolitan University, Mexico DF/MEX; E. Lima, Instituto de Investigaciones en Materiales, Mexico DF/MEX; D. H. Fuerte, Autonomous Metropolitan University, Mexico DF/MEX; E. Lopez-Salinas, Instituto Mexicano del Petroleo, Mexico DF/MEX
2.05_1102		**Highly selective one-step gas-phase synthesis of methyl isobutyl ketone over supported Pd nanoparticles on nanocrystalline zinc chromite** A. Bagabas, A. Alshammari, A. AlSayigh, A. AL-Fahad, King Abdulaziz City for Science and Technology, Riyadh/SAR; V. Akhmedov, Baku State University/AZ; M. Mostafa, King Abdulaziz University, Jeddah/SAR; A. AL-Rabiah, King Saud University, Riyadh/SAR
2.05_1258		**Novel Au/Mg(Fe)(Al)-LDH catalysts for liquid phase hydrogenation of α,β-unsaturated aldehyde** F. Mi, H. Zhang, Beijing University of Chemical Technology/PRC

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2.05_1266		**Liquid phase selective hydrogenation of cinnamaldehyde over gold supported $La(OH)_3$ catalyst** Y.X. Liu, L.F. Meng, X.N. Li, TU Zhejiang, Hangzhou/PRC; Z.J. Wei, University of Zhejiang, Hangzhou/PRC
2.05_1278	PS.07	**Novel Ca-doped $CePO_4$ supported ruthenium catalyst with superior catalytic performance for aerobic oxidation of alcohols** Y.J. Zhang, J. Wang, T. Zhang, Dalian Institute of Chemical Physics/PRC
2.05_1283		**Effect of nickel contents on the property of Ni/SiO_2 catalyst prepared by sol-gel method in ionic liquid** X. Cheng, Zhejiang Police College, Hangzhou/PRC; Y. Liu, Q. Fan, TU Zhejiang, Hangzhou/PRC
2.05_1302		**Deactivation and regeneration of organic-sulfides-modified Pd/C catalyst for selective hydrogenation** Q. Zhang, C. Su, J. Wu, Q. Ding, Z. Yuan, F. Feng, L. Ma, C. Lu, X. Li, TU Zhejiang, Hangzhou/PRC
2.05_1366		**Novel magnetic core-shell hierarchical composites Fe_3O_4@CuNiAl-LDH for catalytic phenol hydroxylation** X. Chen, H. Zhang, H. Zhang, Beijing University of Chemical Technology/PRC
2.05_1442		**Isomerisation of endo-tetrahydrodicyclopentadiene catalysed by $AlCl_3$ immobilised on zeolite** Y.Y. Zhou, M. Ji, TU Dalian/PRC
2.05_1507	PS.04	**Synthesis of two new small pore titanium silicate oxidation catalysts: CHA and STT** E. Eilertsen, University of Oslo/N; F. Giordanino, C. Lamberti, S. Bordiga, A. Damin, F. Bonino, University of Turin/I; S. Svelle, U. Olsbye, K.P. Lillerud, University of Oslo/N
2.05_1543		**High specific surface area metal fluorides as catalysts for the fluorination of 2-chloropyridine by HF** C. Cochon, T. Corre, S. Célérier, S. Brunet, Poitiers University/F
2.05_1569	PS.42	**Green synthesis of glycerol carbonate from glycerol and carbon dioxide in ionic liquid catalysed by metal chlorides** J.H. Choi, S.H. Lee, H.C. Woo, Pukyong National University, Busan/ROK
2.05_1574		**Fast and high Yelding post-synthetic modification of metal-organic frameworks by vapor diffusion** M. Ranocchiari, M. Servalli, J. A. van Bokhoven, Paul Scherrer Institute, Villigen PSI/CH
2.05_1583		**Homogenous transition metal-free epoxidation of cyclooctene catalysed by Ga and Al nitrates: a comparative study** D. Mandelli, W.A. Carvalho, C.A.R. Silva, Federal University of ABC, Santo André/BR; G.B. Shul`pin, Semenov Institute of Chemical Physics, Moscow/RUS; P.P. Pescarmona, Centre for Surface Chemistry and Catalysis, Leuven/B
2.05_1636		**0.5 wt.% Pd/C catalyst for purification of terephthalic acid: irreversible deactivation in industrial plants** R. Pellegrini, Chimet S.p.A., Viciomaggio (Arezzo)/I; G. Agostini, E. Groppo, University of Turin/I; A. Piovano, ILL, Grenoble/F; G. Leofanti, Consultant, Canegrate (Milano)/I; C. Lamberti, University of Turin/I
2.05_1642		**Vanadia doped titanium pillared clay: preparation, characterisation and reactivity in cyclohexene epoxidation** N. Belaidi, I. Rekkab, A. Choukchou-braham, R. Bachir, University of Tlemcen/DZ

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2.05_1651	PS.33	**Design of metal-organic framework catalysts using mixed linkers and post-synthetic modification** W. Kleist, M.A. Gotthardt, Karlsruhe Institute of Technology (KIT)/D
2.05_1663	PS.32	**Synthesis of stable ligand-free gold-palladium nanoparticles using an excess anion method** S. Meenakshisundaram, M. Morad, J. Pritchard, University of Cardiff/UK; Q. He, Lehigh University, Bethlehem, PA/USA; P.J. Miedziak, J.K. Edwards, S.H. Taylor, A.F. Carley, D. Knight, University of Cardiff/UK; C.J. Kiely, Lehigh University, Bethlehem, PA/USA; G.J. Hutchings, University of Cardiff/UK
2.05_1725	PS.29	**Liquid phase hydrogenation of methyl-N-Boc-pyrrole-2-carboxylate over tailored Ru nanoparticles** M. Sebek, M.-M. Pohl, N. Steinfeldt, Leibniz Institute for Catalysis, Rostock/D
2.05_1734		**A sustainable process for the synthesis of triacetonamine** F. Cavani, G. Gliozzi, L. Frattini, University of Bologna/I
2.05_1796		**Eco-friendly synthesis of fine chemicals by using mesoporous materials** A. Feliczak-Guzik, I. Nowak, Adam Mickiewicz University, Poznan/PL
2.05_1851		**Solvent effects in the catalytic hydrogenation of phenylbutan-2-one** H. Daly, Queen's University, Belfast/UK; L. Gladden, University of Cambridge/UK; C. Hardacre, Queen's University, Belfast/UK; J. McGregor, University of Cambridge/UK; I. McManus, R. Morgan, D. Rooney, Queen's University, Belfast/UK; M. Simmons, University of Birmingham/UK; J. Thompson, B. Yang, Queen's University, Belfast/UK
2.05_1872	PS.19	**Palladium complexes of chiral N-heterocyclic carbenes derived from biogenic amino acids – applications as cross-coupling catalysts** J. Ramasamy, P. Walter, A. Rajjak, J. Eppinger, King Abdullah University of Science and Technology, KAUST, Thuwal/SAR
2.05_1880		**Iron-catalysed selective reduction of nitroarenes and terminal alkynes** G. Wienhöfer, F. Westerhaus, K. Junge, M. Beller, Leibniz Institute for Catalysis at the University of Rostock/D
2.05_1916		**Selective catalytic oxidations over niobium-containing mesoporous molecular sieves** A. Feliczak-Guzik, A. Wawrzynczak, I. Nowak, Adam Mickiewicz University in Poznan, Poznan/PL
2.05_1950		**Hydrogenolysis of glycerol catalysed by Pt supported on niobia, alumina and their mixtures** W. Carvalho, R. Rodrigues, N. Isoda, M. Gonçalves, F.C.A. Figueiredo, D. Mandelli, Federal University of ABC, Santo André – SP/BR
2.05_1951		**Monolayer of diisocyanide on Au surface as a platform for Rh catalysis of 1,4-hydrogenation of α,β-unsaturated carbonyl compounds** K. Hara, S. Jagtap, Y. Kaji, A. Fukuoka, Hokkaido University, Sapporo/J
2.05_1952		**Glycerol conversion catalysed by sulfonated carbon from agroindustries waste** T.S. Galhardo, D. Mandelli, W.A. Carvalho, M. Gonçalves, Federal University of ABC, Santo André – SP/BR
2.05_1970		**Effect of the addition of Ge and Sn to catalysts Pt/SiO_2ZrO_2 and Pt/SiO_2TiO_2 in the hydrogenation of citral** V. Tamayo, S. Santiago, T. Viveros, Autonomous Metropolitan University, Ciudad de Mexico/MEX

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2.05_1996		**Vapor phase hydrogenation of acetone to methyl isobutyl ketone (MIBK) over Ni-CeO_2 catalysts** K. Chary, P. Venkat Ramana Rao, V. Pavankumar, Indian Institute of Chemical Technology, Hyderabad/IND
2.05_2001	PS.23	**Pt-Fe catalysts prepared by galvanic replacement of SiO_2-supported Fe particles for chemoselective hydrogenation catalysis** Y.-Sh. Shi, K.-Q. Sun, Y.-Ch. Hong, Zh. Hu, B.-Q. Xu, Tsinghua University, Beijing/PRC
2.05_2009	PS.10	**Liquid phase oxidation of tetralin with H_2O_2 over modified MCM41 and SBA15 mesoporous catalysts** A. Bangó, J. Halász, University of Szeged/H
2.05_2029		**Epoxidation of cyclohexene catalysed by mixed oxides V_2O_5-TiO_2 using TBHP as an oxidant** D. Lahcene, University of Bechar/DZ; A. Choukchou-Braham, University A. Belkaid, Tlemcen/DZ; C. Kappenstein, L. Pirault-Roy, University of Poitiers/F
2.05_2031		**Structure sensitivity in the hydrogenation of unsaturated hydrocarbons over Rh nanoparticles** X. Quek, E.J.M. Hensen, TU Eindhoven/NL
2.05_2055		**Copper(II) on 4Å molecular sieve, an efficient heterogeneous catalyst** Z. Hell, Á. Kiss, Budapest University of Technology and Economics/H; L. Pirault-Roy, I. Gener-Batonneau, Y. Pouilloux, J-M. Clacens, University of Poitiers/F
2.05_6647		**Polymer-stabilised metal nanoparticles – an effective way for integration of homo- and heterogeneous catalysis** E.M. Sulman, L.Zh. Nikoshvili, G.N. Demidenko, V.G. Matveeva, M.G. Sulman, TU Tver/RUS; P.M. Valetsky, A.N. Nesmeyanov Institute of Organoelement Compounds, Moscow/RUS; L.M. Bronstein, Indiana University, Bloomington, IN/USA
2.05_6648		**Polymer-stabilized metal-containing nanoparticles in catalytic oxidation** V.G. Matveeva, M.G. Sulman, V.Yu. Doluda, E.M. Sulman, S.V. Schennikov, A.V. Bykov, N.V. Lakina, Tver Technical University/RUS; O.P. Tkachenko, L.M. Kustov, N.D. Zelinsky Institute of Organic Chemistry, Moscow/RUS; L.M. Bronstein, Indiana University, Bloomington, IN/USA
2.05_6649		**Catalytic synthesis of vitamins K3 intermediate** E.I. Shimanskaya, V.Yu. Doluda, E.M. Sulman, TU Tver/RUS
2.05_6650		**Polymer-stabilised Pd nanoparticles for effective catalytic semihydrogenation of acetylene alcohols** L. Nikoshvili, A. Semenova, E. Sulman, V. Matveeva, A. Bykov, G. Demidenko, A. Sidorov, M. Sulman, TU Tver/RUS
2.05_6654		**Mixed-metal oxides supported Au nanocatalysts with enhanced hydrogenation selectivity: the role of Ce in the support** X. Xiang, Z.M. Tian, L.S Xie, Beijing University of Chemical Technology/PRC
2.05_6681	PS.07	**Aerobic oxidation of primary alcohols over Au-Pd nanoparticles with rich edge and corner sites on Mg-Al mixed oxides** L. Wang, Jilin University, Changchun/PRC; D.S. Su, Fritz Haber Institute, Berlin/D; F.-S. Xiao, Zhejiang University, Hangzhou/PRC
2.05_6691		**Highly active Cu/La_2O_3 catalysts for transfer dehydrogenation of primary aliphatic alcohols** F. Wang, R.J. Shi, N. Ta, Y. Li, W.J. Shen, Dalian Institute of Chemical Physics/PRC

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2.05_6697		**Kinetic and mechanistic studies of methanol carbonylation in the presence of potassium methoxide** O. Jogunola, T. Salmi, Åbo Akademi University, Turku/FIN; M. Kangas, Perstorp Holding AB, Stockolm/S; J.-P. Mikkola, University of Umeå/S
2.05_6699		**Alkyl formate hydrolysis in the presence of formic acid catalyst** O. Jogunola, Abo Akademi University, Turku/FIN; J.-P. Mikkola, University of Umeå/S; T. Salmi, Åbo Akademi University, Turku/FIN
2.05_6702		**Preparation of SiO_2-encapsulated SnPt nanoparticle catalysts for selective hydrogenation of crotonaldehyde** K. Taniya, University of Kobe/J; C.H. Yu, University of Hull/UK; S.C. Tsang, University of Oxford/UK; Y. Ichihashi, S. Nishiyama, University of Kobe/J
2.05_6710		**Selective conversion of styrene oxide to 2-phenylethanol by catalytic cascade reactions** A. Sasu, B. Dragoi, A. Ungureanu, E. Dumitriu, TU Iasi/RO; V. Hulea, Ecole Nationale Superieure de Chimie, Montpellier/F
2.05_6718		**Study on synthesis of 3-methyl-1,3-butanediol** J-Q. Liu, W-C. Peng, N. Zhao, F-K. Xiao, W. Wei, Institute of Coal Chemistry, Taiyuan/PRC; Y-H. Sun, Shanghai Advanced Research Institute/PRC
2.05_6727		**Isomerisation β-pinene oxide over Sn-modified zeolites** P. Mäki-Arvela, N. Kumar, S. Faten Diáz, A. Aho, T. Salmi, D.Yu. Murzin, Åbo Akademi University, Turku/FIN
2.05_6728	PS.23	**BASF's NanoSelect™ technology: innovative supported Pd and Pt based nanocatalysts for selective hydrogenations** P. Witte, BASF, De Meern/NL
2.05_6749	PS.07	**Design of V, Sb, Nb containing catalysts towards the desired selectivity in methanol oxidation** H. Golinska-Mazwa, P. Decyk, M. Ziolek, Adam Mickiewicz University, Poznan/PL
2.05_6764		**Lactulose synthesis over organic and inorganic catalysts** M. Rubin, A. Mikhailova, A. Sulman, V. Doluda, N. Lakina, Y. Galkina, TU Tver/RUS
2.05_6848		**Indenyl molybdenum(II) tricarbonyl complex as a catalyst precursor for selective epoxidation of DL-limonene** S.M. Bruno, M. Pillinger, I.S. Gonçalves, A.A. Valente, University of Aveiro/P; M. Abrantes, C. Tomé, TU Lisbon/P
2.05_6887	PS.26	**Tunable solvent systems for catalyst recycling for the hydroformylation of long chain olefine** A. Rost, T. Hamerla, M. Tietzmann, R. Schomäcker, TU Berlin/D
2.05_6898	PS.04	**Butadiene epoxidation over various metals modified titanium silicalite molecular sieves TS-1** M. Wu, L. Chou, H. Song, Lanzhou Institute of Chemical Physics/PRC
2.05_6904		**Hydrotalcite supported gold as a versatile bifunctional catalyst for tandem synthesis of methyl ester and imine: effect of Mg/Al ratio** P. Liu, R.A. van Santen, TU Eindhoven/NL; C. Li, Dalian Institute of Chemical Physics/PRC; E.J.M. Hensen, TU Eindhoven/NL
2.05_6905	PS.19	**Integration of heterogeneous catalysts into multistep processes** J.M. Fraile, N. Garcia, C.I. Herrerias, J.A. Mayoral, University of Zaragoza/E

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2.05_6971		**Catalytic synergy and structure-property relationships in multimetallic hierarchical molecular sieves** R.M. Leithall, R. Raja, University of Southampton/UK; E. Gianotti, V. Shetti, S. Maurelli, M. Chiesa, University of Turin/I
2.05_7017		**Relation of molecular structure and porosity in silica gels** A. Kierys, J. Goworek, M. Curie-Sklodowska University, Lublin/PL; I. Halasz, PQ Corporation, Conshohocken, PA/USA; R. Zaleski, M. Curie-Sklodowska University, Lublin/PL; H. Liu, Arkema, Inc., King of Prussia, PA/USA
2.05_7076	PS.23	**Hydrogenation of nitro-substituted acetophenones** E.G. Allardice, K. Girling, S.D. Jackson, R.R. Spence, University of Glasgow/UK
2.05_7115		**Epoxidation of terpenes with homogeneous catalysts** T. Michel, M. Cokoja, V. Sieber, F.E. Kühn, TU München, Garching/D
2.05_7137		**Methyltrioxorhenium-catalysed oxidation of pseudocumene for vitamin E synthesis: a study of solvent and ligand effects** P. Altmann, M. Cokoja, M. Carril, M. Drees, TU München/D; W. Bonrath, T. Netscher, J. Schütz, DSM Nutritional Products, Basel/CH; F.E. Kühn, TU München/D
2.05_7158		**Design of solid foam catalysts for multiphase reactions** M. Leon Matheus, T.A. Nijhuis, J. van der Schaaf, J.C. Schouten, TU Eindhoven/NL
2.05_7218		**Phosphonium ionic liquids as phase transfer catalysts for the Halex reaction** A. Fan, G.K. Chuah, S. Jaenicke, National University of Singapore/SGP
2.05_7239		**Towards ionic liquid based model catalysts: ultrathin films of [(5-oxo-)C_6C_1Im][Tf_2N] on CeOx/Cu(111) – growth, molecular orientation, and IL-surface interaction** S. Schernich, M. Sobota, Y. Lykhach, V. Wagner, P. Wasserscheid, M. Laurin, J. Libuda, University of Erlangen-Nürnberg/D; N. Tsud, V. Matolin, Charles University, Prague/CZ; T. Skala, K.C. Prince, Sincrotrone Trieste SCpA, Basovizza-Trieste/I
2.05_7273		**Heterogeneous Buchwald-Hartwig amination over Au/TiO_2 catalysts** M. Besnea, C. Dobrinescu, V.I. Parvulescu, University of Bucharest/RO
2.05_7274		**New heterogeneous catalysts for the synthesis of lactones under batch and flow conditions** F. Neatu, V.I. Parvulescu, University of Bucharest/RO; V. Michelet, ENSCP, Paris/F
2.05_7295		**Perrhenate mediated epoxidation of olefins in ionic liqiuds** I. Markovits, M. Cokoja, C. Münchmeyer, B. Zhang, F.E. Kühn, W. Eger, A. Genest, N. Rösch, TU München, Garching/D; M. Zhou, S. Zang, Liaoning Shihua University/PRC; J. Mink, Chemical Research Center of the HAS, Budapest/H
2.05_7314	PS.23	**Unsupported and supported copper and gold for the liquid phase hydrogenation of cinnamaldehyde** V. Gutierrez, Planta Piloto de Ingenierìa Quìmica, Bahia Blanca/RA; F. Nador, A. Diez, Instituto de Química del Sur, Bahia Blanca/RA; G. Radivoy, Instituto de Quìmica del Sur, Bahia Blanca/RA; M. Volpe, Instituto de Química del Sur, Bahia Blanca/RA
2.05_7326		**FT-IR operando study of acetonitrile hydrogenation on Pt/MgO-Al_2O_3** L. Pirault-Roy, C. Poupin, University of Poitiers/F; R. Maache, R. Brahmi, University of El Jadida/MA; C. T. Williams, University of South Carolina, Columbia, SC/USA
2.05_7383	PS.23	**Effect of substituents on the hydrogenation of halonitrobenzenes to haloanilines over Pd/C catalyst with large Pd particles** C.S. Lu, X.N. Li, J.H. Lv, F. Feng, L. Ma, Q.F. Zhang, TU Zhejiang, Hangzhou/PRC

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2.05_7475		**Study on the morphology, composition and catalytic performance of the 3D f lowerlike micro/nano structured Fe-containing composite** T. Fan, F.H. Ren, H. Zhang, Beijing University of Chemical Technology/PRC
2.05_7517		**Preparation of Pd/mesoporous shell@Fe_3O_4 core catalysts and their catalytic properties for Heck reaction** H.F. Liu, Z.G. Jia, S.F. Ji, Y.Y. Zhen, M. Li, H. Yang, Beijing University of Chemical Technology/PRC
2.05_7556	PS.23	**Novel manganese oxide and Pt/manganese oxide catalysts for selective hydrogenation of α,β-unsaturated aldehydes and ketones** H. Manyar, H. Daly, H. Moor, A. Goguet, C. Hardacre, Queen's University, Belfast/UK
2.05_7597		**Direct and straightforward synthesis of Ga_2 O_3 nanorods as highly efficient epoxidation catalysts** W. Iueangchaichaweng, KU Leuven, Heverlee/B
2.05_7601	PS.03	**The catalytic properties of silica supported iron(II) sulfate in the Friedel-Crafts benzylation of benzene** G.A. Bukhtiyarova, M.A. Shuvaeva, A.L. Nuzhdin, Boreskov Institute of Catalysis SB RAS, Novosibirsk/RUS; O.A. Bayukov, Kirensky Institite of Physics SB RAS, Krasnoyarsk/RUS; O.N. Martyanov, Boreskov Institute of Catalysis SB RAS, Novosibirsk/RUS
2.05_7624		**Selectively oxidation of 1,2-propanediol into methylglyoxal by nano silver catalyst synthesised via microwave-assisted bioreduction** F. Yang, M.M. Du, Q.B. Li, J.L. Huang, L.S. Jia, University of Xiamen/PRC
2.05_7631		**Significant increase of framework Ti content in Ti-YNU-1 based on its formation mechanism** S. Song, P. Wang, Y. He, M. Dong, J. Wang, Institute of Coal Chemistry, Taiyuan/PRC; T. Tatsumi, Tokyo Institute of Technology/J; W. Fan, Institute of Coal Chemistry, Taiyuan/PRC
2.05_7669		**Palladium supported on few-layer graphene as an efficient 2D catalyst for a liquid-phase selective hydrogenation** I. Janowska, K. Chizari, C. Pham-Huu, M.J. Ledoux, S.M. Moldovan, O. Ersen, University of Strasbourg/F
2.05_7702		**FTIR of CO adsorption as a predictive tool of selectivity for modified Pd catalyts?** E. Hagebols, R.P.K. Wells, J.A. Anderson, University of Aberdeen/UK
2.05_7811		**Core@shell structured nanoreactor with catalytically stable and active sites** X. Yang, University of Namur/B; Y. Li, G. Tian, L.H. Chen, Univerisity of Namur/B; G.V. Tendeloo, University of Antwerp/B; B.L. Su, Univerisity of Namur/B
2.05_7828		**Liquid phase hydrogenation of citral over IrAu/TiO_2 catalysts** A. Gómez-Cortés, O. Hernández-Cristobal, G. Díaz, UNAM, México DF/MEX; J.J. Murcia, G. Borda, H. Rojas, UPTC, Tunja/CO
2.05_7834		**Synthesis, characterizations and catalytic study of Co¬$_3O_4$ prepared by biotemplates** G. Zi, Z. Yao, W. He, Y. Mo, Yunnan University, Kunming/PRC; X. Yang, Kunming University of Science and Technology/PRC; J. Wang, Yunnan University, Kunming/PRC
2.05_7839		**Liquid-phase selective oxidation applications of mesoporous oxides synthesized by biotemplates** G. Zi, Yunnan University, Kunming/PRC; Y. Qin, Baoshan College/PRC; Z. Yao, X. Zhang, Y. Liu, J. Li, D. Duan, J. Wang, Yunnan University, Kunming/PRC
2.05_7930		**Restructuring of Pd/Au bimetallic catalysts for gas phase vinyl acetate synthesis** S. Reiner, A. Jentys, J.A. Lercher, TU München, Garching/D

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2.05_7980	PS.36	**Catalytic activity of sulfonic acid-functionalised periodic mesoporous benzenesilica explained by advanced solid state NMR** R. Siegel, E. Domingues, C. Bispo, P. Ferreira, L. Mafra, University of Aveiro/P; R. De Sousa, C.M. Morais, F. Jérôme, N. Bion, University of Poitiers/F
2.05_8063		**Propylene oxidation over tin-vanadium oxide catalysts** V.L. Baghiyev, M.I. Aliyeva, Azerbaijan State Oil Academy, Baku/AZ
2.05_8123		**Catalyst role in the allylic oxidation of cyclohexene over $FePcCl_{16}$-SiO_2** J.C. Carmona, C. Alvarez, L.M. Gonzalez, F. Bustamante, A.L. Villa, University of Antioquia, Medellín/CO
2.05_8135	PS.23	**Selective aromatic nitrogroup hydrogenation as an important technology for the production of fine chemicals** K. Möbus, D. Wolf, S. Wieland, Evonik Industries AG, Hanau/D; P. Albers, AQura GmbH, Hanau/D
2.05_8140		**Carbosilylations of alkenes, alkynes, and cyclic acetals using heterogeneous Brønsted acid catalysts** K. Motokura, S. Matsunaga, H. Yoneda, A. Miyaji, T. Baba, Tokyo Institute of Technology, Yokohama/J
		Enantioselective catalysis
2.06_1022	PS.27	**Alumina- and silica-supported iridium catalysts for the enantioselective hydrogenation of α-ketoesters** A.B. Dongil, B. Bachiller-Baeza, I. Rodríguez-Ramos, ICP-CSIC, Madrid/E; A. Guerrero-Ruiz, UNED, Madrid/E; A. Baiker, C. Mondelli, ETH Zurich/CH
2.06_1112		**Novel chiral diamines derived from proline and camphor as organocatalysts for asymmetric michael addition of nitroalkenes** Y. Zhou, Y. Gong, Huazhong University of Science and Technology, Wuhan/PRC
2.06_1173	PS.27	**Consecutive intermolecular hydroamination/asymmetric hydrogenation: cooperative transition metal and chiral Brønsted acid catalysis** S. Werkmeister, S. Fleischer, S. Zhou, K. Junge, M. Beller, Leibniz Institute for Catalysis at the University of Rostock/D
2.06_1183		**Catalytic performance of H-ß nanozeolite microsphere in one-pot dynamic kinetic resolution of aromatic sec-alcohols** X. Li, Y.H. Zhang, Y. Tang, Fudan University, Shanghai/PRC
2.06_1383	PS.27	**Kinetics and modeling in the enantioselective hydrogenation of ethyl benzoylformate using different solvents** G. Martin Curvelo, P. Mäki-Arvela, D. Murzin, T. Salmi, Åbo Akademi University, Turku/FIN
2.06_1900		**Copper(II) bis(oxazolines) anchored onto ordered mesoporous materials as heterogeneous catalysts for the cyclopropanation of styrene** A. Silva, H. Albuquerque, V. Guimarães, University of Aveiro/P; A.P. Carvalho, J. Pires, University of Lisbon/P
2.06_6620		**Palladium-complex-catalyzed asymmetric alkylation of benzophenone Schiff base glycine esters in ionic liquids** D. Mukherjee, Ramsaday College, Howrah/IND; D.H. Kim, S. Jung, D.W. Kim, M. Cheong, H.S. Kim, Kyunghee University, Seoul/ROK
2.06_6637	PS.27	**Automated synthesis & screening of supramolecular catalysts** A. Schnyder, Chemspeed Technologies AG, Augst/CH

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2.06_6719		**Enhanced enantioselectivity in asymmetric hydrogenation of acetophenone by manipulating the topology, pore size and reduction method of mesoporous Pd network catalysts** Y. Wang, S.J. Feng, L. Ye, X.Y. Chen, Y.H. Ren, B. Yue, Y.J. Du, Z.H. Li, Fudan University, Shanghai/PRC; S.C. Tsang, Oxford University/UK; H.Y. He, Fudan University, Shanghai/PRC
2.06_6737		**Chiral phosphine-phosphite ligands in transition metal catalyzed transformations** A. Falk, H.-G. Schmalz, University of Cologne/D
2.06_6753		**Investigation of „ripple domain" gold nanoparticles as asymmetric catalysts** A. Ghosh, K.S. Nagabhushana, Tata Chemicals Ltd., Pune/IND; F. Stellacci, École Polytechnique Fédérale de Lausanne/CH; R. Kumar, Tata Chemicals Ltd., Pune/IND
2.06_6761		**Asymmetric catalysis in the nanocage of porous materials** Q. Yang, C. Li, Dalian Institute of Chemical Physics/PRC
2.06_6959	PS.27	**Solvent, additive and surface effects in enantioselective Mukaiyama-type reactions with homogeneous and supported catalysts** J.M. Fraile, N. García, L. Gasco, C.I. Herrerías, J.A. Mayoral, E. Pires, Universidad de Zaragoza/E
2.06_6990		**Experimental setup for stereoselective and enantioselective cluster catalysis: construction of an instrument to identify and characterise size selected chiral metal clusters** K. Lange, B. Visser, M. Tschurl, U. Boesl, U. Heiz, TU München/D
2.06_7023		**Catalytic achiral and chiral epoxidation of unfunctionalized olefins: cyclopentadienyl molybdenum η_1-oxoalkyl (enolate) complexes** N. Grover, M. Cokoja, F.E. Kühn, TU München, Garching/D
2.06_7188		**Enantioselective hydrogenation of activated ketones in the presence of Pt-Cinchona catalysts. Is the proton transfer concept valid?** E. Tálas, Chemical Research Center, Budapest/H; J.L. Margitfalvi, Combitech-Nanotech Kft., Budapest/H
2.06_7263		**Non-covalent immobilisation of the homogeneous catalyst Rh-Duphos on carbon materials** C. Gheorghiu, M.C. Román Martínez, C. Salinas Martínez de Lecea, University of Alicante/E
2.06_7267		**Ionic liquid supported on spherical carbon materials for the immobilisation of a homogeneous Rh catalyst** M. Rufete Beneite, C.C. Gheorghiu, M.C. Román Martínez, C. Salinas Martínez de Lecea, A. Linares Solano, University of Alicante/E
2.06_7451	PS.27	**Dynamic properties of cinchona modifier adsorbed on Pd/C catalyst during enantioselective hydrogenation of α,β-unsaturated acid** T. Sugimura, H. Ogawa, S. Tomatsuri, M. Nakatsuji, T.Y. Kim, T. Misaki, University of Hyogo/J
2.06_7486	PS.31	**Heterogeneous hydrogenation of a prochiral hydrocarbon on Pd: a combination of molecular beam and synchrotron studies** K.-H. Dostert, C.P. O'Brien, W. Ludwig, A. Savara, S. Schauermann, H.-J. Freund, Fritz-Haber-Institute, Berlin/D
2.06_7515		**The confinement effect of carbon nanotubes on the asymmetric hydrogenation of α-ketoester** Z. Guan, Z. Chen, S. Lu, C. Li, Dalian Institute of Chemical Physics/PRC

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2.06_7568	PS.27	**Understanding chiral catalysis by Raman optical activity (ROA) and DFT calculation** S. Qiu, G.N. Li, G.Q. Jia, Z.C. Feng, C. Li, Dalian Institute of Chemical Physics/PRC
2.06_7719		**Enantioselective hydrogenation of acetophenone with organogermanium-modified chiral heterogeneous catalysts** V. Vetere, Universidad Nacional de La Plata-CONICET/RA; M.B. Faraoni, J.C. Podestá, Universidad Nacional del Sur-CONICET, Bahía Blanca/RA; M.L. Casella, Universidad Nacional de La Plata-CONICET/RA
2.06_8128	PS.27	**Asymmetric hydrogenation of prochiral ketones with novel bisphosphine/diamine-Ru(II) complexes: Axially chiral diamines** J.P. Ruelas-Leyva, V.M. Rivera, G.A. Fuentes, Universidad Autonoma Metropolitana Iztapalapa, Mexico D.F./MEX; C. Pérez-González, Universidad Autonoma Metropolitana Xochimilco, Mexico D.F./MEX
2.06_8129		**Use of chiral palladium-based catalysts for asymmetric hydrogenation of α,β-unsaturated acids** V.M. Rivera, Universidad del Papalopan, Oaxaca/MEX; J.P. Ruelas-Leyva, G.A. Fuentes, Universidad Autonoma Metropolitana Iztapalapa, Mexico D.F./MEX
		Biochemical routes to intermediates and fine chemicals
2.07_1196		**Bio-conversion of renewable glycerol to fine chemical – Green synthesis of glycerol carbonate** M. Tudorache, L. Protesescu, A. Negoi, A. Nae, V.I. Parvulescu, University of Bucharest/RO
2.07_1307	PS.30	**Direct and high yield conversion of (bio-)ethanol to propene on In_2O_3 catalysts modified with scandium** M. Kurosawa, S. Mizuno, M. Tanaka, M. Iwamoto, Tokyo Institute of Technology, Yokohama/J
2.07_1400		**Direct electronic communication and electro-catalysis at bio-interfaces assisted by layered-metal-hydroxide slab arrays with controlled nano-micro structure** J. He, Z. An, Beijing University of Chemical Technology/PRC
2.07_1504		**Hydrolysis of guaiacol in high temperature water with hydrochloric acid as the catalyst** L. Yang, Y. Li, Tianjin University/PRC
2.07_1893		**Application of new homo- and hetero-dinucleare bis-NHC complexes in tandem-catalysis** S. Reindl, M. Cokoja, W.A. Herrmann, F.E. Kühn, TU München, Garching/D
2.07_1968		**One-step conversion of cellulose into polyols over Ni/W/SiO_2-Al_2O_3** S.J. You, I.G. Baek, E.D. Park, Ajou University, Suwon/ROK
2.07_7190		**Novel catalyst on a basis of immobilized horseradish peroxidase for biology active substances synthesis** V. Doluda, N. Lakina, V. Matveeva, O. Matveeva, E. Sulman, Tver State Techncal University/RUS
2.07_7576		**Enantioselective Diels-Alder reaction catalyzed by G-quadruplex DNA and its metalloenzyme** C. Wang, G. Jia, J. Zhou, Y. Liu, Y. Li, S. Lu, C. Li, Dalian Institute of Chemical Physics/PRC

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		Polymerization
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2.08_1175		**Ethylene oligomerisation using heterogeneous catalysts consisting of bis(imino) pyridineiron complex and fluorotetrasilicic mica** H. Kurokawa, T. Kondo, Y. Nakazato, M. Ohshima, H. Miura, University of Saitama/J; K. Yamamoto, T. Sakuragi, Japan Polychem Corporation, Yokkaichi/J
2.08_1200		**Carbon nanotubes supported iron and nickel catalysts for ethylene polymerisation** L. Zhang, E. Castillejos, J. Durand, University of Toulouse/F; W.-H. Sun, Beijing National Laboratory for Molecular Sciences/PRC; P. Serp, University of Toulouse/F
2.08_1270		**A well-defined, silica-supported organochromium catalyst for ethylene polymerisation models the Phillips catalyst** S. Grundner, L. Zhong, S.L. Scott, University of California, Santa Barbara, CA/USA
2.08_1343		**Copolymerisation of propylene oxide and carbon dioxide** R. Bratsch, Leibniz Institute for Catalysis at the University of Rostock/D; J. Klein, J.-E. Damke, Henkel AG & Co. KGaA, Düsseldorf/D; E. Paetzold, Leibniz Institute for Catalysis at the University of Rostock/D; U. Kragl, University of Rostock/D
2.08_1912		**Synthesis of non-alternating polyketones by copolymerisation of ethylene and carbon monoxide** S.S. Soomro, H. Vogt, W. Leitner, T.E. Müller, RWTH Aachen/D
2.08_6600		**Synthesis of novel polymer-supported titanium based heterogeneous Ziegler-Natta catalyst for ethylene polymerisation in slurry process** A. Kalita, S.K. Dolui, University of Tezpur/IND
2.08_6815		**Structure and activity relationship on olefin polymerisation catalysts by using „paired interacting orbitals(pio)“ analysis** A. Shiga, Tokyo Institute of Technology, Tsukuba/J
2.08_6872		**The influence of mixed activators on ethylene polymerisation and ethylene/1-hexene copolymerisation with silica-supported Ziegler-Natta catalyst** P. Praserthdam, N. Senso, Chulalongkorn University, Bangkok/THA
2.08_6877		**Trinuclear half-metallocene catalyst generating polyethylene with bimodal molecular weight distribution** A. Bourdilloud, FH Westschweiz HTA, Fribourg/CH; H. Tewes, J. Roll, Westfälische Hochschule in Recklinghausen/D
2.08_7049		**Novel metal-free polymerisation of silanes. A DFT study of the mechanism.** I. Chiorescu, A. Genest, V.A. Karttunen, N. Rösch, TU München/D
2.08_7559		**Ethylene trimerisation over organosilane-modified zirconia** Y. Imizu, S. Kobayash, H. Morikawa, H. Yamada, Kitami Institute of Technology/J
2.08_7801		**Synthesis and catalytic activity of group (IV) guanidinate catalyst for ethylene polymerization** M. El Eter, F.A. Pasha, E. Callens, J. Pelletier, J.M. Basset, King Abdullah University of Science and Technology, Thuwal/SAR
2.08_7842		**Cu_3BiS_3 and $AgBiS_2$ for catalytic polymerization of alkylsilane and morphology control by templates** X. Yang, W. Wang, J. Li, D. Duan, J. Yan, J. Yu, Yunnan University, Kunming/PRC; X. Yang, Kunming University of Science and Technology/PRC; J. Wang, Yunnan University, Kunming/PRC

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2.08_7853		**Nitrogen and phosphine nickel complexes in the catalytic synthesis of the fluorescent polyphenylene-block-polymethyl methacrylate copolymers** O.A. Matveeva, I.S. Ilitchev, D.F. Grishin, Nizhny Novgorod State University/RUS
		Cleaning exhaust streams, e.g. such as removal of volatile organic compounds, stationary source emission and cleaning of water
3.01_1006		**Deactivation of activated carbon-supported metallic catalysts used in hydro-dechlorination** M. Martín Martínez, A. Álvarez Montero, L. Gómez Sainero, Universidad Autónoma de Madrid/E; S. Eser, The Pennsylvania State University, PA/USA; J.J. Rodríguez, Universidad Autónoma de Madrid/E
3.01_1027		**Coupling HDC and CWPO for the removal of *p*-chloro-*m*-cresol using Pd/Fe-PILC catalysts** C.B. Molina, A.H. Pizarro, J.A. Casas, J.J. Rodriguez, University Autonoma of Madrid/E
3.01_1035		**Experimental investigation of the oxidation of carbon monoxide on alumina-supported Fe_2O_3 catalysts** D. Reichert, I. Grünert, S. Kureti, TU Bergakademie Freiberg/D
3.01_1100	PS.24	**Visible-light high-activity titania from catalytic and surface abatement of aromatic hydrocarbons** N. Pernicone, Consultant, Novara/I; F. Pinna, M. Signoretto, V. Trevisan, Cà Foscari University and INSTM UdR Venezia, Venice/I; T. De Marco, L. Bottalico, CTG Italcementi, Bergamo/I
3.01_1124		**Microkinetic modeling of the hydrogenation of nitrate in water on Pd-Sn catalyst** A. Costa, L. Ferreira, M. Maia, F. Peixoto, F. Passos, Universidade Federal Fluminense, Niterói/BR
3.01_1142		**Hard-templating preparation and characterization of 3D ordered or wormhole-like mesoporous MnO_2 and Co_3O_4 catalysts highly active for toluen and carbon monoxide oxidation** Q. Meng, Y.C. Du, J.S. Wang, J. Yan, Y.X. Liu, H.X. Dai, Beijing University of Technology/PRC
3.01_1144		**3DOM $LaMnO_3$ with nanovoid skeletions: controlled preparation and high performance for the catalytic combustion of toluene** Y.X. Liu, H.X. Dai, J.G. Deng, L. Zhang, Z.X. Zhao, Y.C. Du, Beijing University of Technology/PRC; C.T. Au, Hong Kong Baptist University/HK
3.01_1148		**The making and high performance of manganese oxides with various morphologies for the catalytic removal of toluene** F. Wang, J.G. Deng, H.X. Dai, G.M. Bai, K.M. Ji, Y.X. Liu, Beijing University of Technology/PRC; C.T. Au, Hong Kong Baptist University/HK
3.01_1149		**A novel cycling process for indoor HCHO removal over supported silver catalysts** B. Chen, A. Zhu, Y. Wang, C. Shi, Dalian University of Technology/PRC
3.01_1163		**Mechanism for selective catalytic reduction of N_2O by NH_3 over an Fe-MOR catalyst** X.Y. Zhang, Q. Shen, C. He, C.Y. Ma, J. Cheng, Z.P. Hao, Research Center for Eco-Environmental Sciences of the CAS, Beijing/PRC
3.01_1165		**Simultaneous removal of N_2O and NO by NH_3 over Fe-MOR catalyst** X.Y. Zhang, Q. Shen, C. He, C.Y. Ma, J. Cheng, Z.P. Hao, Research Center for Eco-Environmental Sciences of the CAS, Beijing/PRC
3.01_1166		**Investigation of nitrous oxide decomposition over highly active and stable bimetallic CoFe-MOR: effective removal and mechanism study** X.Y. Zhang, Q. Shen, C. He, C.Y. Ma, J. Cheng, Z.P. Hao, Research Center for Eco-Environmental Sciences of the CAS, Beijing/PRC
3.01_1167		**Catalytic activities and by-products of MEK oxidation on Pd/ZSM-5 and Pd-Ce/ZSM-5 catalysts** L. Yue, C. He, P. Li, H.L. Wang, Z.P. Hao, Research Center for Eco-Environmental Sciences of the CAS, Beijing/PRC
3.01_1174		**Modification of TiO_2 supported Ag catalyst for carbon monoxide oxidation** P. Praserthdam, N. Comsup, Chulalongkorn University, Bangkok/THA
3.01_1180		**Microwave synthesis and photocatalytic activity of SmVO4 nanopowders** L. TIngting, H. Yiming, W. Yongjiao, W. Ying, C. Jun, Z. Leihong, Zhejiang Normal University, Jinhua/PRC
3.01_1181		**Photocatalytic removal of pharmaceutical pollutants by ZnO photocatalyst under UV light** D. Tassalit, N.A. Laoufi, F. Bentahar, University of Sciences and Technology Houari Boumediene, Algiers/DZ
3.01_1184		**Study on photocatalysis of layered double hydroxide on methyl violet** J.L. Xue, Z.M. Ni, P.P. Qian, J. Liu, J. Hu, Zhejiang University of Technology, Hangzhou/PRC
3.01_1207		**Catalytic efficiency of $H_3PW_{12}O_{40}/SiO_2$ by incorporating tungstophosphoric acid into network of silica prepared by several methods** S. Sahebjamnia, M.A. Zanjanchi, Guilan University, Rasht/IR
3.01_1229		**Modified natural zeolites catalyzed S(IV) oxidation in seawater flue gas desulfurization process** J. Bian, X. Min, S. Zhang, L. Feng, C. Li, Ocean University of China, Qingdao/PRC
3.01_1298	PS.24	**Visible light photocatalytic decontamination of gas-phase toluene with spray-coated $TiO_{2-x}N_x$** L. Zhang, P.Y. Tan, O.K. Tan, M.S. Tse, Nanyang Technological University, Singapore/SGP
3.01_1312		**Oxidized nano-sized titanium nitride for visible light anti-bacterial application: Co-effects of nitrogen and rutile phase content** P.Y. Tan, Q. Luo, O.K. Tan, M.S. Tse, Nanyang Technological University, Singapore/SGP
3.01_1329	PS.29	**Catalytic combustion of chlorobenzene over different noble metal supported on CeO_2 nanorods** H. Huang, X.Y. Wang, East China University of Science and Technology, Shanghai/PRC
3.01_1333		**Hydrodechlorination of chlorophenols at low temperature over Pd on SBA-15 modified with phosphoric acid** L. Cheng, X.Y. Wang, East China University of Science and Technology, Shanghai/PRC
3.01_1342		**Preparation and activity tests of Sn-Zr based catalysts for SO_2 catalytic reduction under high pressure** N.-K. Park, C. Jeong, T.J. Lee, Yeungnam University, Gyeongsan/ROK; J.-I. Baek, J.B. Lee, C.K. Ryu, Korea Electric Power Research Institute, Daejeon/ROK
3.01_1359		**Toluene total oxidation over $CuO-CeO_2/Al_2O_3$: reaction network and catalyst structural characterization** V.V. Galvita, U. Menon, H. Poelman, G.B. Marin, Ghent University/B
3.01_1371		**Effect of activated carbon support and the presence of NO_x on CO oxidation over supported Wacker-type catalysts** L. Wang, East China University of Science and Technology, Shanghai/PRC

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3.01_1380		**Spectroscopy studies on the catalytic nitrate reduction mechanism** N. Barrabes, Vienna University of Technology/A; J. Sa, ETH Zurich/CH; E. Kleymenov, PSI, Villigen/CH; K. Föttinger, Vienna University of Technology/A; A. Urakawa, ICIQ, Tarragona/E; J.A. van Bokhoven, ETH Zurich/CH; G. Rupprechter, Vienna University of Technology/A
3.01_1405		**Gold nanoparticles deposited on hydrotalcite compounds for VOC and CO catalytic oxidation** E. Genty, R. Cousin, S. Capelle, C. Gennequin, S. Siffert, Université du Littoral Côte d'Opale, Dunkerque/F
3.01_1416		**Comparing cordierite-supported and powdered Co/La_2O_3/CeO_2 catalysts for catalytic combustion of toluene** G.A. Cifredo, J.M. Gatica, D.M. Gómez, Universidad de Cádiz, Puerto Real/E; M. Montes, O. Sanz, Universidad del País Vasco, San Sebastián/E; H. Vidal, Universidad de Cádiz, Puerto Real/E
3.01_1417	PS.08	**Enhancement on activity and sulfur resistance over novel catalyst CeO_2/TiO_2-SiO_2 for NH_3-SCR of NO** C.X. Liu, L. Chen, H.R. Arandiyan, L. Ma, J.H. Li, Tsinghua University, Beijing/PRC
3.01_1437		**Surfactant-assisted preparation and excellent activity of 1D mesoporous Co_3O_4 nanowires and nanorods for toluene oxidation** G.M. Bai, H.X. Dai, J.G. Deng, F. Wang, K.M. Ji, Y.X. Liu, W.G. Qiu, Beijing University of Technology/PRC
3.01_1498		**Catalytic combustion of dichloromethane on Ru/γ-Al_2O_3 catalysts** L. Ran, X.Y. Wang, East China University of Science and Technology, Shanghai/PRC
3.01_1536		**Design, synthesis and fundamental understanding of highly efficient and stable FeOx-hydroxyapatite supported gold catalyst** K.F. Zhao, J. Wang, B.T. Qiao, Y.J. Zhang, Dalian Institute of Chemical Physics/PRC
3.01_1571		**Textural, structural and catalytic properties of $LaCoO_3$ perovskite doped with cerium in the Preferential CO oxidation reaction** R. Magalhães, IFBA- Federal Institute of Education, Science and Technology of Bahia, Salvador/BR; M. Schmal, Federal University of Rio de Janeiro/BR
3.01_1586		**New structures for the deposition of catalytic materials** J.P. Cecchini, M.A. Ulla, UNL-INCAPE, Santa Fe/RA; M.A. Zanuttini, ITC-UNL, Santa Fe/RA; V.G. Milt, UNL-INCAPE, Santa Fe/RA
3.01_1589		**New deNOx catalysts for biomass fired units** S.B. Kristensen, S.S.R. Putluru, A. Riisager, R. Fehrmann, Technical University of Denmark, Lyngby/DK
3.01_1604		**Photocatalysis-the problem of the incomplete degradation of active pharmaceutical ingredients (APIs) in water** C. Schmoock, H. Börnick, E. Worch, TU Dresden/D; O. Gravenhorst, J. Hartmann, Hochschule Anhalt, Köthen/D
3.01_1621	PS.08	**A novel SO_2 resistant catalyst for NH_3-SCR** H.Z. Chang, J.H. Li, Tsinghua University, Beijing/PRC; X.Y. Chen, J.W. Schwank, University of Michigan, Ann Arbor, MI/USA; L. Ma, J.M. Hao, Tsinghua University, Beijing/PRC
3.01_1634		**Hydrophobic Fe-zeolites as promising adsorbents and catalysts for oxidation of contaminants in water** A. Georgi, K. Mackenzie, Helmholtz Center for Environmental Research – UFZ, Leipzig/D; R. Gonzalez-Olmos, University of Girona/E; F.-D. Kopinke, Helmholtz Center for Environmental Research – UFZ, Leipzig/D

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3.01_1658		**Highly porous mixed transition metal oxides for the catalytic coversion of methanol and oxidation of chlorinated organic compounds** A. Khaleel, S. Al-Hadrami, United Arab Emirates University, Al-Ain/UAE
3.01_1666		**Novel Fe-Pd/SiO_2 catalytic materials for dechlorination of chlororganics in water** L.M. Kustov, Zelinsky Institute of Organic Chemistry RAS, Moscow/RUS; S.R. Al-Abed, U.S. Environmental Protection Agency, Cincinnati, OH/USA; O.A. Kirichenko, E.V. Shuvalova, E.D. Finashina, G.I. Kapustin, I.V. Mishin, V.D. Nissenbaum, O.P. Tkachenko, Zelinsky Institute of Organic Chemistry RAS, Moscow/RUS
3.01_1699		**Structure-activity relationship of iron oxide-based catalysts** A. Pacher, S. Kureti, Technical University of Freiberg/D
3.01_1712		**Pd/Al_2O_3 coating onto cordierite monolith as structured catalyst for the nitrite ion reduction of water** A. Devard, A. Marchesini, M.A. Ulla, UNL-CONICET, Santa Fe/RA
3.01_1721		**Enhancing the activation ability of CeO_2 catalysts for methane oxidation by materials design** M. Hoffmann, D. Seeburg, S. Wohlrab, Leibniz Institute for Catalysis at the University of Rostock/D
3.01_1723	PS.32	**On the promoting effect of Au on CO oxidation kinetics of Au-Pt bimetallic nanoparticles supported on SiO_2: an electronic effect?** R. Doherty, C. Thomas, J.-M. Krafft, C. Méthivier, C. Louis, CNRS-Université Pierre et Marie Curie, Paris/F; H. Remita, CNRS-Université Paris-Sud, Orsay/F
3.01_1738		**Hydroxylation of SiO_2 bilayer films grown on Ru(0001) & the resultant effects on Pd particle growth and reactivity** W.E. Kaden, F. Ringleb, M. Sterrer, H.-J. Freund, Fritz-Haber-Institute, Berlin/D
3.01_1752		**Preparation of supported Pt catalysts by the ignition carbon procedure for VOC abatement** P. Avila, Consejo Superior de Investigaciones Científicas (CSIC)ICP-CSIC, Cantoblanco/E; S.B. Rasmussen, M.P. Martin, V.E. Garcia-Sanchez, Consejo Superior de Investigaciones Científicas (CSIC), Cantoblanco/E; M. Villarroel, F.J. Gil-Llambias, Facultad de Química y Biología – USACH, Santiago de Chile/RCH; N. Homs Marti, Universidad de Barcelona/E
3.01_1777		**Catalytic oxidation of aromatic compounds by enzymes supported on functionalized organic-inorganic supports** V. Pârvulescu, R. Ene, „Ilie Murgulescu" Institute of Physical Chemistry of Romanian Academy, Bucharest/RO; M. Mureseanu, University of Craiova/RO; G. Paun, National Institute of Research and Development for Biological Sciences, Bucharest/RO; A. Popa, Institute of Chemistry Timisoara of Romanian Academy/RO
3.01_1829		**Halogented VOC oxidation over monolith washcoated ruthenium catalysts and CO promotion effect** Z. Dang, Y. Choi, N. Singh, X. Zhou, Sud-Chemie Inc, Needham, MA/USA
3.01_1839		**Gas phase photodegradation of toluene over different forms of Ga_2O_3 as efficient photocatalysts for VOC removal** M. Jedrzejczyk, A. Ruppert, J. Rynkowski, Technical University of Lodz/PL; V. Keller, N. Keller, CNRS/Strasbourg University/F
3.01_1852		**Investigating the oxidation of mercury in flue gas streams using gold catalysts** M. Morgan, Queen's University Belfast/UK; T. Keel, R. Holliday, World Gold Council, London/UK; A. Goguet, C. Hardacre, Queen's University Belfast/UK

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3.01_1866		**Analysis of the interaction between NO_x reduction and Hg° oxidation in the SCR unit of coal fired power plants** A. Beretta, P. Forzatti, Politecnico di Milano/I; M. Di Blasi, Enel Ricerca e Innovazione, Pisa/I
3.01_1914		**Study of N_2O emissions in NO conversion on CeO_2-ZrO_2/Cu catalysts compared with the traditional CeO_2-ZrO_2/MN** K. Rachele, D. Ribeiro, D. Fernandes, L. Palacio, F. Zotin, Universidade do Estado do Rio de Janeiro/BR
3.01_1926	PS.44	**Oxidation of CH_4 with N_2O on M/Ga/H-ZSM-5 (M-transition metal) catalysts: combined redox and acid-base effect** L. Borkó, Institute of Isotopes HAS, Budapest/H; N.V. Vlasenko, L.V. Pisarzhevsky Institute of Physical Chemistry, Kiev/UA; Zs. Koppány, Z. Schay, Institute of Isotopes HAS, Budapest/H; P.E. Strizhak, L.V. Pisarzhevsky Institute of Physical Chemistry, Kiev/UA; L. Guczi, Institute of Isotopes HAS, Budapest/H
3.01_1939		**Hydrothermal synthesis of Ce-Mn nano-composites for total oxidation reactions** M.A. Muñoz, J.D. López-Castro, J.M. Rodriguez-Izquierdo, J.J. Calvino, X. Chen, M.A. Cauqui, J.J. Delgado, University of Cadiz, Puerto Real/E
3.01_1946		**Effect of morphology and surface properties of Co_3O_4 spinels on their performance in removal of aromatics from polluted air** S.A. Hosseini, A. Niaei, D. Salari, University of Tabriz/IR
3.01_1976		**Size effect of Pt on propane combustion over Pt/ZSM-5** J.E. Park, Ajou University, Suwon/ROK; K.S. Song, Korea Institute of Energy Research, Daejeon/ROK; E.D. Park, Ajou University, Suwon/ROK
3.01_1988		**The nature of enhanced visible-light-response of the $BiOBr_xI_{1-x}$ solid solution photocatalysts** L. Kong, Z. Jiang, H. Lai, T. Xiao, P.P. Edwards, Oxford University/UK
3.01_2004	PS.40	***IN-SITU* UV-Vis-Mass dynamic analysis of Au nanoparticles formation and their interaction with reaction media** M. Estrada, V. Evangelista, B. Acosta, CICESE, Ensenada/MEX; E. Vargas, UABC, Ensenada/MEX; M. Lopez, CNyN-UNAM, Ensenada/MEX; E. Smolentseva, S. Fuentes, A. Simakov, UNAM, Ensenada/MEX
3.01_2019		**High activity catalysts for the total oxidation of naphthalene based on mesoporous CeO_2 modified with low levels of copper** A. Aranda, CSIC – Instituto de Carboquímica, Zaragoza/E; A. Aylon, CSIC- Instituto Carboquímica, Zaragoza/E; B. Solsona, Univerdsitat de Valencia/E; S.H. Taylor, D. Sellick, Cardiff University/UK; T. García, CSIC – Instituto Carboquímica, Zaragoza/E
3.01_2022		**NO_2 reduction on ceria-based oxides mechanism studied by *operando* spectroscopy** E. Dassonneville, A. Princivalle, Saint Gobain CREE, Cavaillon/F; M. Daturi, LCS, Caen/F; N. Sergent, B. Saubat, LEPMI, Grenoble/F
3.01_2026		**SBA-15 supported nanosized manganese, cerium and copper oxides as catalysts for VOCs elimination** T. Blasco, Instituto de Tecnologia Química, Valencia/BG; M. Popova, M. Dimitrov, Institute of Organic Chemistry with Centre of Phytochemistry of the BAS, Sofia/BG; S.M. Hernandez, Instituto de Tecnologia Química, Valencia/E; M. Vassileva, T. Tsoncheva, Institute of Organic Chemistry with Centre of Phytochemistry of the BAS, Sofia/BG; J.M.L. Nieto, Instituto de Tecnologia Química, Valencia/E
3.01_2041		**Structural-functional design of catalysts for nitrogen (I), (II) oxides conversion** S. Orlyk, T. Mironyuk, T. Boichuk, L.V.Pisarzhevsky Institute of Physical Chemistry of NAS, Kiev/UA

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3.01_2048		**New active Cu and Co zeolites for the NOx selective catalytic reduction with hydrocarbons** A. Palomares, Universidad Politecnica de Valencia/E; C. Franch, Universidad Politecnica Valencia/E; F. Rey, A. Corma, Consejo Superior de Investigaciones Cientificas, Valencia/E; G. Guilera, ALBA-Synchrotron, Barcelona/E
3.01_2050		**N_2O decomposition over Fe-ferrierite, Fe-ZSM-5, and Fe-beta in the absence of NO. A combined DFT and multi-spectroscopic study of the reaction mechanism** S. Sklenak, Z. Sobalik, J. Heyrovsky Institute of Physical Chemistry of the AS of the Czech Republic, Prague/CZ
3.01_2057		**Kinetic studies of the hydrogenation of nitrates in aqueous phase with Pd-Sn/Al_2O_3 catalysts** M.A. Garrido, I. Micolau, D. Merino, University of Zaragoza/E; N. Barrabes, Vienna University of Technology/A; S. Irusta, E. Romeo, A. Monzon, University of Zaragoza/E
3.01_2062		**Supported Au catalysts for toluene oxidation as model VOCs: support effect** Z. Bailiche, L. Cherif, R. Bouri, Université de Tlemcen/DZ; S. Siffert, Université Lille Nord de France/F; S. Royer, Poitiers University/F; A. Bengeddach, Oran University/DZ
3.01_2075		**Abnormal nitrate reduction performance in a flow-through catalytic membrane reactor: a modelling study** M. Pera-Titus, M. Fridmann, N. Guilhaume, K. Fiaty, CNRS, Villeurbanne/F
3.01_2104		**VOCs oxidation activity enhancement of lanthanum manganite perovskite using excess manganese** S. Maghsoodi, Tarbiat Modares University, Tehran/IR; A. Khodadadi, University of Tehran/IR; J. Towfighi, Tarbiat Modares University, Tehran/IR; Y. Mortazavi, University of Tehran/IR
3.01_6610		**Influence of catalytic reactions on possible fates of persistent halo-organic compounds in an aqueous environment** S.M. Kulikov, University of The West Indies, Bridgetown/BDS
3.01_6612		**Ceria supported sodium-copper catalysts for the storage of nitric oxide** S. Guerrero, Universidad de Chile, Santiago/RCH; G. Aguila, Universidad de los Andes, Santiago/RCH; P. Araya, Universidad de Chile, Santiago/RCH
3.01_6618		**Study of the interactions of Pd,In with SiO_2 and Al_2O_3 supports for the hydrogenation of nitrates in water. Effects of physical mixtures on catalytic behavior** F.A. Marchesini, N. Picard, E.E. Miró, Universidad Nacional del Litoral, Santa Fe/RA
3.01_6623		**Preparation of CuO-Co_3O_4-CeO_2 pelleted catalysts and its application for industrial odor control** S. Somekawa, T. Hagiwara, K. Fujii, M. Kojima, T. Shinoda, The Tokyo Metoropolitan Industrial Technology Research Institute/J; K. Takanabe, King Abdullah University of Science and Technology (KAUST), Thuwal/SAR; K. Domen, The University of Tokyo/J
3.01_6698		**Morphology impact of manganese-cerium oxides in ethanol oxidation** H.J. Li, A.L. Chen, N. Ta, X.J. Zhang, W.J. Shen, Dalian Institute of Chemical Physics/PRC
3.01_6705		**Surface oscillatory behaviour of 2-propanol oxidation by cerium oxide** L. Baumes, CSIC-UPV, Valencia/E; J. Jolly, Rhodia, Pessac/F; P. Concepcion, CSIC-UPV, Valencia/E; J.-M. Tatibouet, CNRS-Université Poitier/F; B. Pavageau, Rhodia, Pessac/F; A. Corma, CSIC-UPV, Valencia/E
3.01_6723		**Catalytic dechlorination of carbon tetrachloride with methanol on Ag/C catalyst** X. Li, Qingdao Institute of Bioenergy and Bioprocess Technology/PRC; M. Lu, M. Li, Changzhou University/PRC

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3.01_6776		**Catalytic wet air oxidation of phenol compounds over Ru nanoparticles impregnated in polymer support** E. Sulman, M. Sulman, V. Matveeva, N. Lakina, A. Torozova, S. Golosova, V. Doluda, Tver Technical University/RUS
3.01_6795		**Soot oxidation over $MeCr_2O_4$ (Me=Mn,Fe,Co,Ni,Cd,Mg)spinel type catalysts** Z. Sarbak, Adam Mickiewicz University, Poznan/PL
3.01_6817		**Production of CaF_2 from the destructive adsorpton of trifluoromethane and trifluoro-methane/chlorodifluoromethane binary mixture with CaO powder under air flow** T. Numao, T. Furusawa, T. Ogawa, M. Sato, N. Suzuki, Utsunomiya University/J
3.01_6819		**Encapsulated nanosized iron in carbon spheres for catalytic oxidation of phenol** H.Q. Sun, G.L. Zhou, H.M. Ang, M.O. Tade, S.B Wang, Curtin University, Perth/AUS
3.01_6888		**Bare TiO_2 nanoparticles: a promising catalyst for CWAO of BPA** B. Erjavec, P. Djinovic, A. Pintar, National Institute of Chemistry, Ljubljana/SLO
3.01_6906	PS.29	**Core-shell structured Ba-doped Ru: catalyst extremely efficient for ammonia decomposition and CO_x-free hydrogen generation** Y.X. Li, P. Lu, S.C. He, Y.Y. Song, L. Li, J. Zhao, W.J. Ji, Nanjing University/PRC; C.T. Au, Hong Kong Baptist University/PRC
3.01_6907		**The hydrolysis of HNCO and COS: theoretical and experimental catalyst screening** I. Czekaj, O. Kroecher, Paul Scherrer Institute, Villigen/CH
3.01_6964		**Structure recovery and metal ions leaching of CuZnAlO during wet H_2O_2 catalytic oxidation of phenol** L. Zhang, Tianjin University/PRC; F. Li, X. Duan, Beijing University of Chemical Technology/PRC
3.01_6970		**High throughput screening for environmental applications** A. Sundermann, O. Gerlach, hte Aktiengesellschaft, Heidelberg/D
3.01_6977		**Supported noble metal catalysts in the wet air oxidation of nitrogen-containing pollutants: activity, selectivity and stability** M. Bernardi, N. Grosjean, M. Le Du, I. Dodouche, C. Lousteau, C. Descorme, M. Besson, University of Lyon, Villeurbanne/F
3.01_7060		**Capabilities and constraints of environmental nanocatalysis for water treatment** K. Mackenzie, F.-D. Kopinke, Helmholtz-Centre for Environmental Research – UFZ, Leipzig/D
3.01_7097		**Removal of clopyralid from water by the Fenton reaction** U. Prüße, K. Westphal, L. Teevs, Johann Heinrich von Thünen-Institute (vTI), Braunschweig/D
3.01_7098		**Development of bimetallic hydrodechlorination catalysts for the removal of clopyralid from water** U. Prüße, L. Teevs, K.-D. Vorlop, Johann Heinrich von Thünen-Institute (vTI), Braunschweig/D
3.01_7105		**Role of electrodonor-acceptor molecules in selective reduction of NO over Co-zeolites – Spectroscopic investigations** K. Góra-Marek, P. Pietrzyk, Jagiellonian University, Krakow/PL; Ch. Dujardin, CNRS Centre National de la Recherche Scientifique, Paris/F; J. Datka, Z. Sojka, Jagiellonian University, Krakow/PL

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3.01_7145		**Nano-gold catalysts for effective Cl-VOC abatement** A. Kucherov, Zelinsky Institute of Organic Chemistry, Moscow/RUS; S. Ojala, S. Pitkaaho, University of Oulu/FIN; O. Kirichenko, O. Tkachenko, Zelinsky Institute of Organic Chemistry, Moscow/RUS; R. Keiski, University of Oulu/FIN; L. Kustov, Zelinsky Institute of Organic Chemistry, Moscow/RUS
3.01_7171		**Modified Mo/V/W-mixed oxide catalysts – preparation, characterization and kinetic studies** S. Schmidt, A. Drochner, H. Vogel, TU Darmstadt/D
3.01_7181		**Structural and morphological influence on the photocatalytic activity of $BiVO_4$** G. Obregón, A. Caballero, G. Colón, Institute of Materials Science, Seville/E
3.01_7192		**Effect of zeolite framework on thermal deactivation and thioresistance of iron exchanged zeolites for methane combustion** E. Asedegbega-Nieto, UNED, Madrid/E; E. Diaz, S. Ordonez, University of Oviedo/E
3.01_7197		**Synthesis of hybrid nanomaterial from MnO_x/MWNT by sol-gel method for LTSCR of NO_x** M. Pourkhalil, A. Zarringhalam Moghaddam, Tarbiat Modares University, Tehran/IR; A. Rashidi, Research Institute of Petroleum Industry (RIPI), Tehran/IR
3.01_7203		**Gd-doped ceria as relevant active support for NO_x trap catalysts** Y. Hernández Enciso, A. Hadjar, Institut de Recherches sur la Catalyse et l'Environnement de Lyon, Villeurbanne/F; M. Klotz, A. Princivalle, C. Tardivat, C. Guizard, Laboratoire de Synthèse et Fonctionnalisation des Céramiques, Cavaillon/F; P. Vernoux, Institut de Recherches sur la Catalyse et l'Environnement de Lyon, Villeurbanne/F
3.01_7208		**Highly active Au-TiO_2 systems for low temperature CO oxidation obtained by photodeposition method** A. Caballero, V.M. González-delaCruz, S. Obregón, J.P. Merkl, G. Colón, Institute of Materials Science, Seville/E
3.01_7210		**Development of alkali resistant HC-SCR catalyst for the abatement of NO_x gases at biomass fired power plants** L. Schill, S.S.R. Putluru, A. Jensen, R. Fehrmann, Technical University of Denmark, Lyngby/DK
3.01_7216		**Catalytic self-cleaning coatings** J. Verhelst, D. De Vos, K.U.Leuven/B
3.01_7220		**Propane total oxidation with a tailor-made nano-RuO_2/TiO_2 catalyst** D.P. Debecker, B. Farin, E.M. Gaigneaux, Universite catholique de Louvain, Louvain-La-Neuve/B; C. Sassoye, C. Sanchez, Université Pierre et Marie Curie, Paris/F
3.01_7230		**Highly active ceria-supported Rh-oxide clusters for CO oxidation: a combined computational and UV Raman study** W. Song, C. Popa, D.A.J.M. Ligthart, V. Degirmenci, E.J.M. Hensen, Eindhoven University of Technology/NL
3.01_7236		**Promoted activity of sulphur-doped Ce/Zr mixed oxides for chlorinated VOC oxidative abatement** B. de Rivas, M. García-Real, C. Sampedro, R. Lopez-Fonseca, J.I. Gutierrez-Ortiz, University of the Basque Country, Bilbao/E
3.01_7245		**On the combined effect of reducing agent and alkali promotion on N_2O decomposition over Pd/Al_2O_3 catalysts** M. Konsolakis, Technical University of Crete, Chania/GR; N. Kaklidis, G.E. Marnellos, University of Western Macedonia, Kozani/GR; I.V. Yentekakis, Technical University of Crete, Chania/GR

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3.01_7278		**Photocatalytic removal of toxic and dangerous compounds** B. Cojocaru, V.I. Parvulescu, University of Bucharest/RO; H. Garcia, Universidad Politécnica de Valencia/E
3.01_7296		**Visible light dye degradation in aqueous media with Ag modified TiO_2 photocatalysts: reaction parameters** Ö. Kerkez, Beykent University, Istanbul/TR; I. Boz, Istanbul University/TR
3.01_7313		**Catalytic abatement of chlorinated air pollutants with Mo/W-based bronzes** N. Blanch, M.D. Soriano, A.E. Palomares, J. Martinez-Triguero, J.M. Lopez-Nieto, Instituto Tecnologia Quimica (UPV-CSIC), Valencia/E
3.01_7323		**Catalytic wet peroxide oxidation of phenol with Au/hydroxyappatite catalyst in a fixed-bed reactor** M.V. Landau, T. Buzaglo, M. Ferenz, R. Vidruk, M. Herskowitz, Ben-Gurion University of the Negev, Beer-Sheva/IL
3.01_7335		**Origins of high-efficieny Pd-Cu-Cl_x/Al_2O_3 catalyst for low temperature oxidation of CO** Y. Shen, L. Wang, Y. Guo, G. Lu, W. Zhan, YL. Guo, East China University of Science and Technology, Shanghai/PRC
3.01_7338		**A study of low temperature CO oxidation using Pd/Al_2O_3 catalysts and its dependence over Pd states** Y. Zhang, Y. Lou, L. Wang, Y. Guo, W. Zhan, Y.L. Guo, Y. Wang, G. Lu, East China University of Science and Technology, Shanghai/PRC
3.01_7347	PS.24	**Optimized bimetallic Pd_xPt_{1-x}/TiO_2 photocatalytic materials for enhanced simultaneous elimination of CO and VOCs in the presence of humidity** O. Rosseler, N. Keller, V. Keller, CNRS/Strasbourg University/F; A. Louvet, DGA/CBRN Expertise, Paris/F
3.01_7364		**Perovskite based catalysts as thermally stable materials for the decomposition of nitrous oxide from nitric acid plants** Y. Wu, C. Dujardin, P. Granger, Université Lille Nord de France, Villeneuve d'Ascq/F
3.01_7369	PS.24	**ZnO/mesoporousSiO_2 composites as photocatalysts for the degradation of organic dye in wastewater** D. Maucec, National Institute of Chemistry and EN-FIST Centre of Excellence, Ljubljana/SLO; M. Mazaj, A. Ristic, M. Cotman, National Institute of Chemistry, Ljubljana/SLO; A. Pintar, National Institute of Chemistry and University of Ljubljana/SLO; V. Kaucic, National Institute of Chemistry, Ljubljana/SLO; N. Novak Tusar, National Institute of Chemistry, Ljubljana and University of Nova Gorica/SLO
3.01_7393		**Preparation and durability tests of $AlPO_4$/γ-Al_2O_3 catalysts for decomposition of SF_6** T.J. Lee, N.-K. Park, Yeungnam University, Gyeongsan/ROK; W.-C. Chang, W.-T. Kwon, Kocat Inc., Seoul/ROK
3.01_7404		**Novel magnetic Fe-Ti-V spinel catalyst for the selective catalytic reduction of NO with NH_3 in a broad temperature range** S. Yang, C.Z. Wang, J.H. Li, Tsinghua University, Beijing/PRC
3.01_7413		**The influence of Mg in the catalytic combustion of chlorobenzene over Al_2O_3 supported MnO_x-CeO_2 catalysts** M. Wu, X.Y. Wang, East China University od Science and Technology, Shanghai/PRC
3.01_7416		**Catalytic combustion of chlorobenzene on the modified MnO_x catalysts** Y. Dai, X.Y. Wang, East China University of Science and Technology, Shanghai/PRC

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3.01_7420		**Platinum supported on fumed silica for low-temperature oxidation of formaldehyde** N. An, W. Zhang, B. Pan, G. Liu, M. Jia, W. Zhang, Jilin University, Changchun/PRC
3.01_7429		**Effects of Au and Ag doped TiO_2 on 4-chlorophenol photocatalytic degradation and its intermediate products** P. Rangsunvigit, S. Tangsatjatham, S. Chavadej, Chulalongkorn University, Bangkok/THA; E. Gulari, University of Michigan, Ann Arbor, MI/USA
3.01_7460		**Development of the block catalysts of new generation for cleaning of exhaust gases of motor transport** L.R. Sassykova, A.T. Massenova, Sh.A. Gil'mundinov, M.M Tel'baeva, V.N. Bunin, L.V. Komashko, D.V.Sokol'skii Institute of Organic Catalysis & Electrochemistry, Almaty/KAZ
3.01_7479		**Preparation of Cu/ZnO and Cu/TiO_2 catalysts via deposition technique assisted by supercritical carbon dioxide** A. Sirisuk, S. Watanamalachai, Chulalongkorn University, Bangkok/THA
3.01_7501		**Modification effects of La, Ce and Y oxides on SnO_2 for CO and CH_4 oxidation** X.R. Zeng, Y. Liu, X.L. Xu, R.B. Zhang, N. Zhang, X. Wang, Nanchang University/PRC
3.01_7540		**Oxygen storage and release properties of new quick response perovskite catalysts by Temporal analysis of Products (TAP) method** H. Nishiguchi, Y. Sato, Y. Oki, K. Kudo, K. Nagaoka, Y. Takita, Oita University/J
3.01_7551		**CO oxidation on iron model catalysts: insights into the mechanism by X-ray absorption AND X-ray emission spectroscopy** R. Schoch, M. Bauer, TU Kaiserslautern/D
3.01_7570		**Kinetic-mechanistic insights into the catalytic wet air oxidation of toxic and refractory pollutant by a model $MnCeO_x$ catalyst** C. Italiano, G. Drago Ferrante, C. Saja, University of Messina/I; L. Spadaro, CNR-ITAE „Nicola Giordano", Messina/I; E. Rombi, University of Cagliari, Monserrato (CA)/I; F. Arena, University of Messina/I
3.01_7583		**Role of iron oxide on gold/silver inverse model system prepared by molecular beam epitaxy** K. Frey, G. Peto, Institute of Isotopes, Budapest/H; F. Tanczikó, KFKI Research Institute for Particle and Nuclear Physics, Budapest/H; I. Sajó, Chemical Research Centre, Budapest/H; L. Guczi, Institute of Isotopes, Budapest/H
3.01_7617		**Selective catalytic reduction of flue gases from biomass fired plants** S. Putluru, A. Riisager, Technical University of Denmark, Kgs. Lyngby/DK; A.D. Jensen, R. Fehrmann, Technical University of Denmark, Kgs.Lyngby/DK
3.01_7626		**Preparation and catalytic performance of OMS-2 for the oxidation of CO, benzene, and toluene** Q. Ye, L.N. Yan, F.F. Huo, S.Y. Cheng, T.F. Kang, H.X. Dai, Beijing University of Technology/PRC
3.01_7649		**Deactivation-resistant MgO coated V_2O_5-WO_3/TiO_2 catalyst for selective catalytic reduction of NO_x with NH_3** S. Putluru, Technical University of Denmark, Kgs. Lyngby/DK; F. Castellino, Haldor Topsøe A/S, Kgs. Lyngby/DK; P.D. Rams, J.B. Pedersen, A.D. Jensen, Technical University of Denmark, Kgs. Lyngby/DK
3.01_7676		**Roles of Li^+ and Zr^{4+} cations in the catalytic performances of $Co_{1-x}M_xCr_2O_4$ (M = Li, Zr; x = 0-0.2) for methane combustion** J. Chen, J. Li, Tsinghua University, Beijing/PRC

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3.01_7681		**On the role of different Fe sites in Fe-ZSM-5 in standard and fast NH_3-SCR** R. Pérez Vélez, Leibniz Institute for Catalysis at the University of Rostock/D; I. Ellmers, Ruhr-Universität Bochum/D; U. Bentrup, Leibniz Institute for Catalysis at the University of Rostock/D; W. Grünert, Ruhr-Universität Bochum/D; A. Brückner, Leibniz Institute for Catalysis at the University of Rostock/D
3.01_7707		**Impact of ceria doping on the activity of gold catalysts for catalytic abatement of VOCs and CO in waste gases** T. Tabakova, P. Petrova, L. Ilieva, Institute of Catalysis of the BAS, Sofia/BG; D. Dimitrov, Kr. Ivanov, Agricultural University, Plovdiv/BG; M. Manzoli, F. Boccuzzi, University of Torino and NIS Centre of Excellence, Torino/I; M. Petrov, G. Avdeev, Institute of Physical Chemistry of the BAS, Sofia/BG
3.01_7716		**Electrochemical promotion of methane and propane oxidation on sputtered Pd catalyst-electrodes deposited on YSZ** F. Matei, D. Ciuparu, Petroleum-Gas University of Ploiesti/RO; S. Peng-ont, P. Praserthdam, Chulalongkorm University, Bangkok/THA; C. Jimenez-Borja, F. Dorado, J.L. Valverde, UCLM, Ciudad Real/E; S. Brosda, C.G. Vayenas, University of Patras/GR
3.01_7726		**Structured wire gauze reactors for exhaust gas after-treatment from producer gas fuelled engines** P.J Jodlowski, A. Rogulska, Jagiellonian University, Krakow/PL; A. Kolodziej, Institute of Chemical Engineering of PAS, Gliwice/PL; S.T. Kolaczkowski, University of Bath/UK; J. Lojewska, Jagiellonian University, Krakow/PL
3.01_7730		**Performance of nanostructured V-W/ TiO_2 catalysts in the SCR/NH_3 process** R. Camposeco, IMP-Molecular Engineering, México D.F./MEX; S. Castillo, Mexican Petroleum Institute, México D.F./MEX; I. Mejia, IMP-Molecular Engineering, México D.F./MEX; V. Mujica, UAM-A, México D.F./MEX; R. Carrera, ESIA-IPN, México D.F./MEX
3.01_7739		**Ceria-based catalysts for the selective catalytic reduction of NO_x in diesel exhaust by NH_3** W. Shan, F. Liu, X. Shi, L. Xie, Z. Lian, H. He, Research Center for Eco-Environmental Sciences CAS, Beijing/PRC
3.01_7761		**Preparation of magnetic composite containing titanium and its application** G. Li, Q. Lv, K. Wang, Y. Zhou, Dalian University of Technology/PRC
3.01_7763		**Effect of different preparation routes on Al_2O_3 supported CuO – CeO_2 – ZrO_2 catalysts for cleaning exhaust streams** G. Rattan, Delhi Technological University/IND
3.01_7764		**Formation of active species on the surface of Ag/SiO_2 and Ag/P_2O_5/SiO_2 catalysts** G. Mamontov, Tomsk State University/RUS; V. Sobolev, V. Zaykovskiy, Boreskov Institute of Catalysis, Novosibirsk/RUS; O. Vodyankina, Tomsk State University/RUS
3.01_7776		**Utilizing of gaseous emissions in formaldehyde Production – catalyst design** A. Mouammine, O. Ojala, R.L Keiski, University of Oulu/FIN; R. Brahmi, University Of Chouaïb Doukkali, El Jadida/MA
3.01_7816		**β-cyclodextrin: a new promoting agent in the preparation of zirconia supported cobalt catalysts for the formaldehyde total oxidation** L. Bai, F. Wyrwalski, Université Lille Nord de France and Université d'Artois, Lens/F; J.-F. Lamonier, Université Lille Nord de France and Université des Sciences et Technologies de Lille/F; E. Monflier, A. Ponchel, Université Lille Nord de France and Université d'Artois, Lens/F
3.01_7829		**Factors controlling the catalytic activity of perovskite-type oxide prepared by decomposition of cyano complex** M. Asamoto, Y. Iwasaki, T. Okuwa, S. Yamaguchi, H. Yahiro, Ehime University, Matsuyama/J

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3.01_7835		**Synthesis and photocatalytic study of Al^{3+} modified CdS templated by non-surfactant hypocrellins** X. Yang, Yunnan University, Kunming/PRC; Y. Peng, Kunming University/PRC; D. Chen, K. Zheng, A. Li, Y. Wang, Z. Yan, W. Wang, D. Duan, J. Wang, Yunnan University, Kunming/PRC
3.01_7838		**Solar light degradation of phenol over titanium dioxides prepared by using leaves – chloroplasts – chlorophyll of spinach as biotemplates** Q. Li, J. Li, H. Zhao, F. Wang, Y. Yan, Yunnan University, Kunming/PRC; Y. Peng, Kunming University/PRC; J. Wang, Yunnan University, Kunming/PRC
3.01_7841		**Synthesis and photocatalytic studies of TiO_2 composites prepared by using algal templates** J. He, J. Li, D. Duan, Z. Yan, J. Xie, L. Jiang, J. Wang, Yunnan University, Kunming/PRC
3.01_7849		**Effects of TiO_2 nanotube arrays length on the photocatalytic and photoeletrocatalytic degradation of Acid Red 4** Y. Ku, Y.S. Chen, W.M. Hou, National Taiwan University of Science and Technology, Taipei/TW
3.01_7855		**Catalytic reduction of N_2O by H_2 over supported Pt: effect on supports and the particle sizes** M.H. Kim, D.H. Kim, Daegu University, Gyeongsan/ROK
3.01_7871		**Waste materials for use in VOC removal technologies** S. Subramanian, Université Lille 1, Villeneuve d'Ascq/F; G. Pande, V.S. Batra, TERI University, New Delhi/IND; J-F. Lamonier, Université Lille 1, Villeneuve d'Ascq/F
3.01_7891		**Supported gold nanoparticles for catalytic wet air oxidation** A. Quintanilla, C.M. Domínguez, J.A. Casas, J.J. Rodriguez, Universidad Autónoma de Madrid/E
3.01_7920		**Deposition of noble-metal based nanoparticles onto Halloysite Nanotubes and its catalytic application for the total oxidation of n-hexane** J.L. Hueso, University of Zaragoza, Institute of Nanoscience of Aragon/E; S. Nuñez-Correa, V. Sebastián, University of Zaragoza/E; A. Mayoral, Advanced Microscopy Laboratory (LMA), Zaragoza/E; G. Martínez, CIBER DE Bioingeniería, Biomateriales y Nanomedicina (CIBER-BBN), Zaragoza/E; S. Irusta, M. Arruebo, L. Usón, J. Santamaría, University of Zaragoza/E
3.01_7940		**Destruction of oxygenated volatile organic compounds over assisted microwave Zr-Ce-Mn catalysts** S. Azalim, Université Lille Nord de France, Villeneuve d'Ascq/F and Université Chouaïb Doukkali, El Jadida/MA; R. Brahmi, Université Chouaïb Doukkali, El Jadida/MA; J.-M. Giraudon, J.-F. Lamonier, Université Lille Nord de France, Villeneuve d'Ascq/F
3.01_7959	PS.08	**Challenging zeolites in structured reactors for SCR of NOx from biogas engines: active center design** J. Ochonska, A. Rogulska, Jagiellonian University, Krakow/PL; D. McClymont, University of Bath/UK; B. Gil, W. Roth, P. Jodlowski, Jagiellonian University, Krakow/PL; A. Kolodziej, Polish Academy of Science, Gliwice/PL; S. Kolaczkowski, University of Bath/UK; J. Lojewska, Jagiellonian University, Krakow/PL

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3.01_7978	PS.08	**Enhanced SCR over Supported V-W/TiO_2-nanotube Catalysts** S. Castillo, R. Camposeco, A. Montoya, Mexican Institute of Petroleum, Mexico, D.F./MEX; G.A. Fuentes, Autonomous Metropolitan University, Iztapalapa, Mexico, D.F./MEX; I. Mejia, Mexican Institute of Petroleum, Mexico, D.F./MEX
3.01_7979		**Mesoporous materials catalysts for photodegradation water pollutants: form chemical templates to biotemplates** J. Wang, M. Mao, J. Li, F. Yu, Y. Wang, H. Zhao, Yunnan University, Kunming/PRC
3.01_7981		**Photocatalytic benzene oxidation as a test reaction for photocatalytic activity of cement based materials with TiO_2** M. Oymak, I. Bayar, D. Üner, Middle East Technical University, Ankara/TR
3.01_8003		**Sono-assisted preparation of MnAl-Hydrotalcite like compounds and their application to formaldehyde catalytic removal** J. Quiroz, University of Lille 1, Villeneuve D'ascq/F; A. Gervasini, University of Milan/I; J.M. Giraudon, J.F. Lamonier, University of Lille 1, Villeneuve D'ascq/F
3.01_8073	PS.24	**Nanoengineering biomimetic TiO_2-based photocatalysts for pollution control from a detailed structural/mechanistic understanding** P.A. Sermon, M. Worsley, Brunel University, Uxbridge/UK; K. Foster, University of Surrey, Guildford/UK
3.01_8078		**Mesoporous yttrium-doped zirconium oxides with enhanced thermal stability** M. Bortun, A.I. Bortun, M. Raidline, MEL Chemicals Inc, Flemington, NJ/USA; H. Stephenson, MEL Chemicals, Manchester/UK; S. Khainakov, O. Khainakova, A. Espina, J.R. Garcia, Universidad de Oviedo/E
3.01_8131		**Catalytic system for the reducion of oxidized mercury to elemental form in Hg CEMs** H.J. Hong, S.W. Ham, Kyungil University, Gyeongsan/ROK; C.H. Shin, Chungbuk National University, Cheongju/ROK
3.01_8176		**Study on the inhibitory effect of water on palladium and gold catalysts during catalytic combustion of ventilation air methane** M. Stockenhuber, A. Setiawan, E.M. Kennedy, B.Z. Dlugogorski, The University of Newcastle, Callaghan/AUS
		Mobile source emission
3.02_1044		**Screening of home-made Cu-zeolite catalysts on NH_3-SCR for lean-burn engines exhaust control** U. De La Torre, B. Pereda-Ayo, J.R. González-Velasco, University of the Basque Country, Leioa/E
3.02_1128		**New model alumina supported catalysts for *in-situ* investigations** A.V. Nartova, I.E. Beck, A.V. Bukhtiyarov, Boreskov Institute of Catalysis SB RAS, Novosibirsk/RUS; A. Gharachorlou, Purdue University, West Lafayette, IN/USA; R.I. Kvon, V.I. Bukhtiyarov, Boreskov Institute of Catalysis SB RAS, Novosibirsk/RUS; F.H. Ribeiro, Purdue University, West Lafayette, IN/USA
3.02_1194	PS.40	**Experimental and computational examination of the nature of exchange sites on Cu/CHA and Cu/MFI for NH_3 selective catalytic reduction of NOx** J.S. McEwen, T. Anggara, W.F. Schneider, University of Notre Dame, IN/USA; V.F. Kispersky, Purdue University, West Lafayette, IN/USA; J.T. Miller, Argonne National Laboratory, IL/USA; W.N. Delgass, F.H. Ribeiro, Purdue University, West Lafayette, IN/USA

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3.02_1277		**Size dependence of subsurface oxygen formation on silver nanocatalyst: ^{109}Ag and ^{17}O NMR study** X. Wang, X. Han, Dalian Institute of Chemical Physics/PRC; J. Sun, University of California, Davis, CA/USA; X. Bao, Dalian Institute of Chemical Physics/PRC
3.02_1331	PS.08	**New insights into the hydrogen effect on SCR over Ag/Al_2O_3 for lean NO_x reduction** S. Tamm, M. Skoglundh, L. Olsson, Chalmers University of Technology, Göteborg/S
3.02_1334		**Diesel soot catalyzes the selective catalytic reduction of NO_x with NH_3** M. Mehring, M. Elsener, O. Kröcher, Paul Scherrer Institut, Villigen PSI/CH
3.02_1338		**Catalytic decomposition of guanidinium formate as novel ammonia precursor for selective catalytic reduction of NO_x** O. Kröcher, D. Peitz, M. Elsener, Paul Scherrer Institut, Villigen PSI/CH
3.02_1341		**Novel details of catalytic urea decomposition** A.M. Bernhard, D. Peitz, M. Elsener, O. Kröcher, Paul Scherrer Institut, Villigen PSI/CH
3.02_1348	PS.31	**NH_3-SCR over Cu-CHA: an operando study of the active site** U. Deka, B.M. Weckhuysen, A.M. Beale, University Utrecht/NL
3.02_1364		**Monolayer dispersed iron vanadate catalyst supported on TiO_2 for the selective catalytic reduction of NO_x with NH_3** F. Liu, W. Shan, X. Shi, H. He, Research Center for Eco-Environmental Sciences, Beijing/PRC
3.02_1367		**Peculiar stability of supported gold-based catalysts prepared by ionic exchange for NO SCR by hydrocarbons** D.-L. Nguyen, C. Dujardin, J.-S. Girardon, C. Lancelot, P. Granger, Université de Lille 1, Villeneuve d'Ascq/F; S. Umbarkar, M.-K. Dongare, National Chemical Laboratory, Pune/IND
3.02_1368		**Highly efficient catalysts of 3D ordered macroporous $Ce_{1-x}Zr_xO_2$-supported gold nanoparticles for soot combustion: the metal-support interact** Y. Wei, J. Liu, Z. Zhao, China University of Petroleum, Beijing/PRC
3.02_1374		**Facile synthesis of hierarchically porous Fe-based and Ce-based oxide catalysts and their high activities for soot combustion** J. Xu, J. Liu, Z. Zhao, K. Wu, China University of Petroleum, Beijing/PRC
3.02_1388		**Mechanism of the catalytic soot oxidation on Fe_2O_3** S. Wagloehner, S. Kureti, TU Bergakademie Freiberg/D
3.02_1433		**Role of surface nitrates in H_2 assisted C_6H_{14}-DeNO$_x$ over Ag/Al_2O_3** A.Yu. Stakheev, N.A. Sadokhina, A.I. Mytareva, G.O. Bragina, Zelinsky Institute of Organic Chemistry RAS, Moscow/RUS; A.L. Kustov, J.R. Thøgersen, Haldor Topsøe A/S, Lyngby/DK
3.02_1453		**Design of NH_3-DeNO$_x$ catalyst by combining zeolite and RedOx functions** A.Yu. Stakheev, G.N. Baeva, G.O. Bragina, N.D. Zelinsky Institute of Organic Chemistry RAS, Moscow/RUS; A.L. Kustov, M. Grill, J.R. Thøgersen, Haldor Topsøe A/S, Lyngby/DK
3.02_1527		**Deactivation of Pt-based diesel oxidation catalysts under various aging conditions for NO oxidation** J. Kim, J.H. Lee, S.J. Choung, Kyung Hee University, Gyeonggi-do/ROK

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3.02_1568		**Selective catalytic reduction of NO_x with C_3H_6 over copper ion exchanged Y, FAU zeolite at lean-burn conditions** H. Mena, R. Basner, R. Brandenburg, Leibniz Institute for Plasma Science and Technology e.V., Greifswald/D; U. Armbruster, A. Martin, Leibniz Institute for Catalysis e.V., Rostock/D
3.02_1688		**The role of ceria in the chemistry of NOx storage-reduction catalysts** Y. Ji, V. Easterling, Center for Applied Energy Research, Lexington, KY/USA; T.J. Toops, J.-S. Choi, J.A. Pihl, Oak Ridge National Laboratory, Knoxville, TN/USA; C. Shi, Dalian University of Technology/PRC; W.P. Partridge, Oak Ridge National Laboratory, Knoxville, TN/USA; M. Crocker, Center for Applied Energy Research, Lexington, KY/USA
3.02_1717		**Dual layer automotive ammonia oxidation catalysts: experiments and computer simulation** A. Scheuer, TU Darmstadt/D; J. Gieshoff, Umicore AG & Co. KG, Hanau/D; A. Drochner, H. Vogel, TU Darmstadt/D; M. Votsmeier, Umicore AG & Co. KG, Hanau/D
3.02_1761		**Ag catalyst for low temperature selective catalytic reduction of NO** R. Lanza, L.J. Pettersson, KTH – Royal Institute of Technology, Stockholm/S
3.02_1830		**Kinetics of the DOC reactions over Pt and Pt-Pd catalysts** C. Sola, M. Khosravi, R.E. Hayes, University of Alberta, Edmonton/CDN; A. Abedi, W.S. Epling, University of Waterloo/CDN; M. Votsmeier, Umicore AG & Co. KG, Hanau/D
3.02_1837		**Effects of preparation method on bimetallic Au/RuOx/Al_2O_3 catalysts for CO and NH_3 oxidation** L. Kustov, N.D. Zelinsky Institute of Organic Chemistry, Moscow/RUS; C. Kim, General Motors Global R&D, Warren, MI/USA; O. Kirichenko, E. Redina, N. Davshan, I. Mishin, I. Kapustin, T. Brueva, N.D. Zelinsky Institute of Organic Chemistry, Moscow/RUS; W. Li, General Motors Global R&D, Warren, MI/USA
3.02_1847		**SCR-DeNO$_x$ with EtOH over Ag/Al_2O_3 and FeO_x/Y catalysts** D. Worch, W. Suprun, R. Gläser, Universität Leipzig/D
3.02_1964		**Effects of Sr on oxygen mobility in La-Co-based perovskite NO oxidation catalysts** S.O. Choi, L.T. Thompson, University of Michigan, Ann Arbor, MI/USA; W.F. Schneider, University of Notre Dame, IN/USA; W. Li, C.H. Kim, General Motors Company, Warren, MI/USA
3.02_1966		**Enhanced soot oxidation by Bi_2O_3 doped CeO_2-ZrO_2** D. Zhang, China National Academy of Nanotechnology & Engineering, Tianjin/PRC; X. Zhang, Tianjin University of Technology and Education/PRC
3.02_1967		**Synthesis, characterization and catalytic performances of nano MnO_x-CeO_2 mixed oxides for the combustion of diesel soot** D. Zhang, China National Academy of Nanotechnology & Engineering, Tianjin/PRC; X. Zhang, Tianjin University of Technology and Education/PRC
3.02_2013		**A kinetic model for NH_3 selective catalytic reduction over Cu beta catalyst** N. Wilken, Chalmers University, Gothenburg/S; R. Vedaiyan, K. Kamasamudram, N.W. Currier, A. Yezerets, Cummins Inc., Columbus, IN/USA; L. Olsson, Chalmers University, Gothenburg/S
3.02_2021		**Unusual low-temperature parasitic NH_3 oxidation on on Fe-zeolite catalyst** K. Kamasamudram, A. Kumar, N. Currier, A. Yezerets, Cummins Inc., Columbus, IN/USA
3.02_2040		**Effect of propene coking and calcination temperature on typical Fe-zeolite catalysts for SCR of NO_x in diesel engine exhaust** L. Ma, Tsinghua University, Beijing/PRC; Y. Cheng, C.K. Lambert, Ford Motor Company, Dearborn, MI/USA; L. Fu, J. Li, Tsinghua University, Beijing/PRC

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3.02_6633		**The catalytic performance of Au/Cu-Mn-O catalyst for the reduction of NO by C_3H_8** M.L. Jia, J.L. Guo, Z. Bao, Inner Mongolia Normal University, Hohhot/PRC
3.02_6687		**Designed synthesis of catalytically active Cu-SSZ-13 zeolite from a novel template of copper-amine complex** L. Ren, Jilin University, Changchun/PRC; X. Meng, F.-S. Xiao, Zhejiang University, Hangzhou/PRC
3.02_6695		**Modeling deactivation and aging for Diesel oxidation catalysts** K. Hauff, U.S. Tuttlies, G. Eigenberger, U. Nieken, Universität Stuttgart/D
3.02_6775		**Mechanistic study of NO_x storage and reduction behavior by in situ XPS and FT-IR over Pt/K/CeO_2 and Pt/K/ZrO_2 NSR catalysts** S. Naito, T. Itou, R. Watanabe, A. Yoshida, Kanagawa University, Yokohama/J
3.02_6922		**The sulfur-resistance diesel oxidation catalysts** Y. Chen, S.H. Tang, Y.L. Kang, X.X. Guan, Southwest Petroleum University, Chengdu/PRC; M.C. Gong, Y.Q. Chen, Sichuan University, Chengdu/PRC
3.02_6974		**Catalytic performance of gold supported on $Cu_xCr_yO_z$ mixed oxides or zeolites in CO oxidation** I. Sobczak, K. Szrama, M. Rydz, M. Ziolek, Adam Mickiewicz University, Poznan/PL
3.02_6994		**Structural behavior of Pt nanoparticles doped perovskite materials and catalytic reactivity for DeNOx applications** J. Dacquin, University of Lille, Villeneuve d'Ascq/F; M. Cabié, C.R. Henry, University of Aix-Marseille/F; C. Lancelot, C. Dujardin, P. Granger, University of Lille, Villeneuve d'Ascq/F
3.02_7080		**The effect of interaction between CeO_2-ZrO_2 and Al_2O_3 for thermal stability in Pd-only three-way catalyst** S. Lin, R. Zhou, Zhejiang University, Hangzhou/PRC
3.02_7114		**Understanding the N_2O emission during the NO_x storage reduction process: influence of reducers** L. Masdrag, X. Courtois, F. Can, D. Duprez, Université de Poitiers/F; E. Rohart, Rhodia, Aubervilliers/F; G. Blanchard, PSA, Vélyzy-Villacoublay/F
3.02_7157		**The use of SO_x trap material for the SCR of NO_x with *n-octane* reaction in automotive catalysis** S. Chansai, R. Burch, C. Hardacre, Queen's University Belfast/UK
3.02_7186	PS.08	**Effect of pretreatment and morphology on the activity and durability of CHA-based catalysts in the the NH_3-SCR reaction** P.N.R. Vennestrøm, Haldor Topsøe A/S, Kgs. Lyngby/DK and Universidad Politécnica de Valencia/E; A. Corma, Universidad Politécnica de Valencia/E; G. Madsen, A. Kustov, Haldor Topsøe A/S, Kgs. Lyngby/DK
3.02_7300		**Size effect of cobalt oxide nanoparticles in catalytic CO oxidation reaction** V. Iablokov, N. Kruse, Universite Libre de Bruxelles, Brussels/B

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3.02_7312		**Improved catalytic activity for SCR of NO_x reaction using *n*-octane over ball-milled prepared Ag/Al_2O_3 catalyst** S. Chansai, S.R.F. Taylor, U. Kamolphop, S. James, R. Burch, C. Hardacre, Queen's University Belfast/UK
3.02_7318		**New results in non-steady-state catalyst characterization and mechanism decoding using the Temporal Analysis of Products (TAP) approach** G. Yablonsky, Saint Louis University, MO/USA; E. Redekop, Washington University in Saint Louis, MO/USA; D. Constales, Ghent University/B; X. Zheng, U.S. Food & Drug Administration, Silver Spring, MD/USA; G. Veith, Oak Ridge National Laboratory, TN/USA; G.B. Marin, Ghent University/B; J.T. Gleaves, Washington University in Saint louis, MO/USA
3.02_7328		**Synergic Co-Ag effect during the NO_x SCR with butane and toluene** S.G. Aspromonte, R.M. Serra, F. Schneeberger, E.E. Miró, A.V. Boix, Universidad Nacional del Litoral, Santa Fe/RA
3.02_7332		**The NO_x-assisted soot oxidation over Ag/Co_3O_4 catalyst** M. Sun, L. Wang, D. Wu, Z. Zhang, W. Zhan, G. Lu, Y. Guo, Y.L. Guo, Y. Wang, East China University of Science and Technology, Shanghai/PRC
3.02_7341		**Mechanistic investigation of ethanol SCR of NO_x over Ag/alumina: species that promote an NO-ethanol synergy for lightoff** T.J. Toops, W.L. Johnson, J.A. Pihl, Oak Ridge National Laboratory, Knoxville, TN/USA; G.B. Fisher, University of Michigan, Ann Arbor, MI/USA
3.02_7427		**Development and application of micro-meso-macro multi-scale simulator based on quantum molecular dynamics for automotive catalysts** A. Miyamoto, K. Inaba, R. Sato, M. Sato, R. Nagumo, R. Miura, A. Suzuki, H. Tsuboi, N. Hatakeyama, H. Takaba, S. Kozawa, M. Williams, Tohoku University, Sendai/J
3.02_7428		**An investigation on catalytic oxidation of gaseous elemental mercury by nano transition metal oxides** K. Tur, J. Tardio, S. Ippolito, Y. Sabri, S. Bhargava, RMIT University, Melbourne/AUS
3.02_7584		**Thermally stable Pd modified 3DOM Ce-Zr-O solid solutions for soot combustion** G.Z. Zhang, H. He, X.H. Zi, W.G. Qiu, H.X. Dai, Beijing University of Technology/PRC
3.02_7610		**Water-induced morphology changes in KNO_3 formed on $K_2O/\gamma\text{-}Al_2O_3$ NO_x storage materials: *in situ* FTIR and TR-XRD study** D. Kim, Seoul National University/ROK; K. Mudiyanselage, J. Szanyi, J. Kwak, C. Peden, Pacific Northwest National Laboratory, Richland, WA/USA
3.02_7614		**Semi-quantitative effect of Lewis acid on NO-SCR with CH_4 over Co-zeolites** J. Chen, S. Chen, Y. Wang, J. Zheng, J. Ma, R. Li, Taiyuan University of Technology/PRC
3.02_7632		**Effect of pre-calcination temperature of Al_2O_3 support on the NO_x storage and reduction performance of $Pt\text{-}BaO/Al_2O_3$ catalysts** W.-Z. Li, K.-Q. Sun, Z. Hu, B.-Q. Xu, Tsinghua University, Beijing/PRC
3.02_7633		**Improved activity of Fe-doped Cu/H-Sep for the SCR of NO with propylene in the presence of oxygen** Q. Ye, H.P. Wang, H.X. Zhao, S.Y. Cheng, T.F. Kang, H.X. Dai, Beijing University of Technology/PRC
3.02_7658		**Field aging effects on the catalytic properties of Pd only three-way catalysts** J.W. Choung, Hyundai Motor Company, Hwaseong-Si/ROK; I.J. Heo, P.S. Kim, I.-S. Nam, Pohang University of Science and Technology/ROK; S. Kim, S.B. Yoo, H.-J. Kim, Hyundai Motor Company, Hwaseong-Si/ROK

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3.02_7674	PS.40	**Spectroscopic investigation of CO adsorption on Pt(100) at near-atmospheric pressures using PM-IRAS** J.E. Bedenbaugh, University of Delaware, Newark, DE/USA; Z. Wang, E. Sasmaz, J. Lauterbach, University of South Carolina, Columbia, SC/USA
3.02_7714		**Mapping the presence of active oxygen and NO_x species formed on Fe-FER in N_2O decomposition** E. Tabor, J. Nováková, N.K. Sathu, Z. Sobalík, J. Heyrovsky Institute of Physical Chemistry of the ASCR, Prague/CZ
3.02_7718		**Gold supported on tungstated zirconia as catalyst for CO-SCR of NO_x: *in situ* FT-IR spectroscopic investigation** M. Kantcheva, M. Milanova, S. Mametsheripov, Bilkent University, Ankara/TR
3.02_7784	PS.08	**Is NO oxidation to NO_2 the rate determining step of the Standard SCR reaction?** M.P. Ruggeri, I. Nova, E. Tronconi, Politecnico di Milano/I
3.02_7861		**NH_3-SCR reactions over a catalyzed wall-flow particulate filter** S. Redaelli, I. Nova, E. Tronconi, Politecnico di Milano/I; T. Boger, A. Joshi, Corning Inc., NY/USA
3.02_7872		**Catalytic role of silver sites on the formation of enolic species during the SCR of NOx by ethanol over Ag/Al_2O_3** Y.B. Yu, Y. Yan, J.J. Zhao, H. He, Research Center for Eco-Environmental Sciences CAS, Beijing/PRC
3.02_7874		**Investigation of perovskite type catalysts for selective catalytic reduction of NO with hydrogen in the presence of oxygen** A. Nemati, A.A. Khodadadi, Y. Mortazavi, University of Tehran/IR
3.02_7898		**Evaluation of hydrothermal aging on three-way catalytic properties of Rh/Al_2O_3 and $Rh/CeZrO_2$** S. Matam, O. Korsak, Empa-Swiss Federal Laboratories for Materials Science and Technology, Dübendorf/CH; F. Wen, J. Gieshoff, Umicore AG & Co. KG, Hanau-Wolfgang/D; A. Weidenkaff, D. Ferri, Empa-Swiss Federal Laboratories for Materials Science and Technology, Dübendorf/CH
3.02_7946		**CuO_x and KNO_3 supported on cordierite catalysts. Diesel soot combustion in presence of NO/O_2** I. Lick, G. Farías, M.S. Leguizamón, CONICET-UNLP, La Plata/RA; S. Mosconi, CONICET-UNSL, V. Mercedes/RA; M.G. Gonzalez, CONICET-UNLP, La Plata/RA; M.I. Ponzi, CONICET-UNSL, V. Mercedes/RA; E.N. Ponzi, CONICET-UNLP, La Plata/RA
3.02_7951		**Combustion of soot particulate over Cu-Mg-Al oxides catalysts derived from hydrotalcite** N. Merino, L. Ruiz, S. Mosconi, N. Comelli, National University of San Luis, Villa Mercedes/RA; E. Rodríguez-Castellón, A. Jiménez-López, University of Malaga/E; M. Ponzi, National University of San Luis, Villa Mercedes/RA
3.02_7990		**Flame spray synthesis and structural characterization of palladium supported perovskite-type three-way catalysts** Y. Lu, K. Michalow-Mauke, A. Winkler, A. Heel, S.K. Matam, P. Hug, A. Weidenkaff, D. Ferri, Empa-Swiss Federal Laboratories for Materials Science and Technology, Dübendorf/CH
3.02_8016		**Photocatalytic degradation of emitted NO using asphalt pavements** H. Dylla, M. Hassan, L. Thibodeaux, Louisiana State University, Baton Rouge, LA/USA
3.02_8019		**Promotional effect of transition metals for soot oxidation over $CeO_2\text{-}ZrO_2$** Y. Mortazavi, A.A. Khodadadi, A. Alinezhad, University of Tehran/IR

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3.02_8022		**Influence of composition on the state of Pd in La(Me,Pd)O_y (Me= Mn, Fe, Co) and Y(Fe,Pd)O_y oxidation catalysts** A. Eyssler, Y. Lu, S.K. Matam, P. Hug, A. Weidenkaff, D. Ferri, Empa-Swiss Federal Laboratories for Materials Science and Technology, Dübendorf/CH
3.02_8033		**Reaction center for C_3H_8-SCR of NOx under water vapor presence in Co-BEA* zeolites** J. Dedecek, H. Jirglova, J. Heyrovsky Institute of Physical Chemistry, Prague/CZ; Z. Sobalik, S. Sklenak, J. Heyrovsky Institute of Physical Chemistry, AV CR, Prague/CZ; P. Sazama, V. Kreibich, J. Heyrovsky Institute of Physical Chemistry, Prague/CZ
3.02_8041		**Mechanistic aspects of the reduction by H_2, CO and HCs of NOx stored over PtBa/Al_2O_3 LNTs investigated by FTIR and transient experiments** L. Lietti, L. Righini, L. Castoldi, P. Forzatti, Politecnico di Milano/I; S. Morandi, G. Ghiotti, Università di Torino/I
3.02_8047		**Hydrocarbon impact on N_2O selectivity during the regeneration of a Ba-based lean NO_x trap catalyst with hydrogen** J.-S. Choi, Oak Ridge National Laboratory, TN/USA; P. Kocí, Institute of Chemical Technology, Prague/CZ; J.A. Pihl, W.P. Partridge, M.-Y. Kim, Oak Ridge National Laboratory, TN/USA; S. Bartova, Institute of Chemical Technology, Prague/CZ; C.S. Daw, Oak Ridge National Laboratory, TN/USA
3.02_8050		**Development of detailed kinetics of surface catalytic reactions through a novel spectrokinetic approach** C.G. Visconti, L. Lietti, P. Forzatti, F. Manenti, S. Pierucci, Politecnico di Milano/I; M. Daturi, Universitè de Caen/F
3.02_8055		**Pathways for N_2 and N_2O formation over Pt-Ba/Al_2O_3 LNT catalyst with labelled ^{15}NO experiments** L. Lietti, N. Artioli, L. Righini, L. Castoldi, P. Forzatti, Politecnico di Milano/I
3.02_8061		**Enhanced dispersion and stability of platinum on SiO_2 by surface modification with ZrO_2 and TiO_2 – impact on CO oxidation performance** M.-Y. Kim, J.-S. Choi, T.J. Toops, V. Schwartz, Oak Ridge National Laboratory, TN/USA; E.-S. Jeong, S.-W. Han, Chonbuk National University, Jeonju/ROK
3.02_8074		**Synthesis and characterization of alumina-zirconia mixed oxide composites** M. Bortun, A.I. Bortun, MEL Chemicals Inc, Flemington, NJ/USA; H. Stephenson, MEL Chemicals, Manchester/UK
3.02_8082		**Interaction between soot and stored NOx during operation of LNT Pt-K/Al_2O_3 catalysts** R. Matarrese, N. Artioli, L. Lietti, L. Castoldi, P. Forzatti, Politecnico di Milano/I
3.02_8127		**A low cost alternative to predict emission factors for vehicles equipped with TWC: a proposal for NH_3, N_2O and H_2** I. Mejia, I. Schifter, Mexican Institute of Petroleum, Mexico D.F./MEX; G.A. Fuentes, Universidad A. Metropolitana Iztapalapa, Mexico D.F./MEX
3.02_8130		**Ag nanoparticles are responsible for the low temperature activity of Ag/γ-Al_2O_3 during lean H_2-C_3H_8-SCR of NO** T. Hernandez, A. Talavera, Universidad Autonoma Metropolitana Iztapalapa, Mexico D.F./MEX; A. Orrego, Universidad de Antioquia, Medellín/CO; S. Gomez, G. Fuentes, Universidad Autonoma Metropolitana Iztapalapa, Mexico D.F./MEX

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		Catalytic upgrading of waste materials
3.03_1024		**Fe-TiO_2 and V-TiO_2 mesoporous catalysts obtained by direct synthesis: physico-chemical characterization and catalytic properties in the decomposition of azo-dyes** M. Piumetti, F. Freyria, M. Armandi, F. Geobaldo, E. Garrone, B. Bonelli, Politecnico di Torino/I
3.03_1057		**Transformation of waste materials towards biodiesel additives – an esterification approach** M. Trejda, K. Stawicka, M. Ziolek, Adam Mickiewicz University, Poznan/PL
3.03_1079	PS.33	**An amine-modified metal organic framework supported Pd for selective hydrogenation of acetylene** H.H. Zhao, H.L. Song, L.J. Chou, Lanzhou Institute of Chemical Physics/PRC
3.03_1105		**Nickel nanoparticles embedded in the framework of mesoporous TiO_2: efficient and highly stable catalysts for HDC** H. Li, Y. Xu, J. Ma, Y. Xu, Shanghai Normal University/PRC
3.03_1122		**Catalytic oxidation of HCl to chlorine over CuO-K_2O-La_2O_3/Al_2O_3 catalyst** K.K. Feng, Y.L. Guo, Y.S. Wang, G.Z. Lu, East China University of Science and Technology, Shanghai/PRC; B.Q. Ma, B.W. Chen, M.Q. Yuan, J.J. Zhang, Shanghai Chlor-Alkali Chemical Co., Ltd./PRC
3.03_1212		**Plasmonic photocatalyst for oxidation of pesticides and bacteria using visible light and LED light sources on different supports** I. Dékány, Á. Veres, J. Ménesi, A. Oszkó, L. Janovák, N. Buzás, University of Szeged/H; T. Seemann, V. Zöllmer, Fraunhofer Institute IFAM, Bremen/D; A. Richardt, German Armed Forces Scientific Institute for Protection Technologies, Munster/D
3.03_1452		**Aminolysis of poly(ethylene terephthalate) catalyzed by cinchona alkaloids** A. Alabdulrahman, F. Alsewailem, H. Al-Megren, King Abdulaziz City For Science and Technology, Riyadh/SAR; K. Fukushima, Yamagata University/J; H. Horn, J. Rice, J. Hedrick, IBM Almaden Research Center, San Jose, CA/USA
3.03_1533		**Immobilized metal complexes with ionic liquids as catalysts for utilization of waste substances** V.M. Zelikman, I.G. Tarkhanova, M.G. Gantman, M.V. Lomonosov Moscow State University/RUS
3.03_1653		**Magnetic composites from Red Mud waste and ethanol as catalyst support** A.A.S. Oliveira, R.M. Lago, F.C.C. Moura, Universidade Federal de Minas Gerais, Belo Horizonte/BR; J.C. Tristão, Universidade Federal de Viçosa, Florestal/BR
3.03_1963		**Effects of Zn added copper chromite catalysts on glycerol hydrogenolysis to 1,2-PDO** B.K. Kwak, Y.S. Yun, Seoul National University/ROK; Y.J. Seo, S.H. Choi, Honam Petrochemical Corporation, Seoul/ROK; J. Yi, Seoul National University/ROK
3.03_1971		**Stability enhancement of heteropoly acid catalyst supported on carbon for dehydration of glycerol to acrolein** D.S. Park, B.K. Kwak, Seoul National University/ROK; J.-H. Cho, S. Oh, GS-Caltex Corporation, Daejeon/ROK; J. Yi, Seoul National University/ROK
3.03_2014		**Catalytic pyrolisis of pure and waste plastics over basic oxide and porous catalysts** J. Halász, A. Bangó, D. Simon, B. Tóth, University of Szeged/H
3.03_6810		**Highly selective catalytic hydrodechlorination of chlorodifluoromethane in supercritical fluids** J.-M. Ha, D. Kim, J. Kim, B.S. Ahn, Korea Institute of Science and Technology, Seoul/ROK; J.W. Kang, Korea University, Seoul/ROK

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3.03_6884		**Au/ZrO_2: an efficient catalyst for an industrial chemistry based on renewable resources** F. Pinna, M. Signoretto, F. Menegazzo, T. Fantinel, Università Ca Foscari Venezia/I; M. Manzoli, F. Boccuzzi, University of Torino/I
3.03_6980		**Selective glucose oxidation on different Fe-doped (un)supported titania photocatalysts** J.C. Colmenares, A. Magdziarz, Institute of Physical Chemistry of the PAS, Warsaw/PL
3.03_6989		**Approaching coke free reforming of biogas with Ni-Co bimetallic catalysts** P. Djinovic, I.G. Osojnik Crnivec, B. Erjavec, A. Pintar, National Institute of Chemistry, Ljubljana/SLO
3.03_7093		**Hydrogen by catalytic reforming of aqueous organic wastes; Design of stable and efficient catalysts** D. de Vlieger, B.L. Mojet, L. Lefferts, K. Seshan, University of Twente, Enschede/NL
3.03_7254		**Catalytic valorization of humin by-products formed during biomass processing: molecular structure and chemical properties** I. van Zandvoort, P.C.A. Bruijnincx, B.M. Weckhuysen, Utrecht University/NL; W. Yuehu, H.J. Heeres, University of Groningen/NL
3.03_7403	PS.30	**Dehydration of glycerol to acrolein by mesoporous sulfated zirconia-silica** S. Ito, H. Kobayashi, K. Hara, A. Fukuoka, Hokkaido University, Sapporo/J
3.03_7487		**Activity and stability of iron oxide catalyst toward conversion of biomass tar into useful chemicals** D. Mansur, M. Shimokawa, T. Tago, T. Masuda, Hokkaido University, Sapporo/J
3.03_7603		**Production of useful chemicals from bio-diesel derived crude glycerol over zirconia-iron oxide catalyst** T. Yoshikawa, A. Konaka, A. Nakamura, Hokkaido University, Sapporo/J; N. Miura, Sumitomo Chemical Co., Ltd., Niihama/J; Y. Nakasaka, T. Tago, T. Masuda, Hokkaido University, Sapporo/J
3.03_7814		**Hierarchically porous functional polymeric membranes with controlled 2D and 3D structure** G. Tian, University of Namur/B; X.Y. Yang, B.L. Su, Wuhan University of Technology/PRC
3.03_7895		***In situ* self-prepared catalysts for decomposition of halogenated hydrocarbons** I. Mishakov, A. Vedyagin, Yu. Bauman, D. Korneev, A. Volodin, R. Buyanov, Boreskov Institute of Catalysis SB RAS, Novosibirsk/RUS
3.03_7962		**Lignin depolymerisation and monomers recovery** A. de Stefanis, P. Cafarelli, IMIP-CNR, Monterotondo Staz./I; F. Gallese, IMC-CNR, Monterotondo Staz./I
3.03_8014		**Photocatalytic degradation of 4-nitrophenol** C. Montalvo, C. Aguilar, J. Cerón, R. Cerón, A. Cordova, V. Reyes, Independent University of Carmen (UNACAR)/MEX
3.03_8059		**New generation catalysts for chlorine recycling via HCl oxidation** A. Amrute, C. Mondelli, J. Perez-Ramirez, ETH Zurich/CH; T. Schmidt, Bayer MaterialScience AG, Dormagen/D
3.03_8088		**Kinetics of degradation of pyridine by two advanced oxidation processes: ultrasound and photocatalysis** C. Montalvo, U.C. Aguilar, B.J. Ceron, B.R. Ceron, Q.V. Cordova, L.V. Reyes, L.D. Cantu, Autonomous University of Carmen (UNACAR), Campeche/MEX
3.03_8089		**Effect of doping TiO_2/Fe and TiO_2/Ag catalysts in the photocatalytic degradation of a common drug** C. Aguilar, R.C. Montalvo, A.J. Perez, B.J. Cerón, B.R. Cerón, Autonomous University of Carmen (UNACAR), Campeche/MEX

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3.04_1190		**Highly stable vanadia-based catalyst for oxidative dehydrogenation of ethylbenzene with carbon dioxide** H.-B. Yan, C. Wang, Z.-T. Liu, J. Lu, Z.-W. Liu, Shaanxi Normal University, Xi'an/PRC
3.04_1224		**One-spot synthesis of stable Ni doped mesoporous silica catalyst for CH_4 reforming with CO_2** Z. Liu, K. Cao, W. Yang, H. Gao, Y. Wang, Shanghai Research Institute of Petrochemical Technology/PRC
3.04_1328		**Carbon nanofiber supported potassium carbonate for highly efficient post-combustion CO_2 capture** A. Frey, N. Meis, J. Bitter, K. de Jong, Utrecht University/NL
3.04_1393		**Continuous hydrogenation of carbon dioxide to formic acid** S. Wesselbaum, G. Franciò, W. Leitner, RWTH Aachen University/D
3.04_1436	PS.09	**Transient studies of low temperature dry reforming of methane over Ni-CaO/ZrO_2-La_2O_3** B. Bachiller-Baeza, C. Mateos-Pedrero, M. Soria, I. Rodriguez-Ramos, ICP-CSIC, Madrid/E; U. Rodemerck, Leibniz Institute for Catalysis, Rostock/D; A. Guerrero-Ruiz, UNED, Madrid/E
3.04_1631		**CO_2 reforming of ethanol to H_2 over novel Rh/CeO_2 nanotubes: rucial roles of redox properties of Rh and CeO_2 nanotube** X.S. Wu, S. Kawi, National University of Singapore/SGP
3.04_1831		**Bimetallic carbide catalysts for methane dry reforming** V.L. Kuznetsov, L.J. France, N. Almuqati, C. Greenwood, T. Xiao, P.P. Edwards, University of Oxford/UK; H. Al-Megren, Petrochemical Research Institute KACST, Riyadh/SAR
3.04_1840		**Efficient methanol synthesis catalysts: long-term stability and deactivation phenomena** M. Fichtl, O. Hinrichsen, TU München, Garching/D
3.04_1850		**Investigation of the CO_2 reaction mechanisms on Ni-clusters deposited on CeO_2(111) using density functional theory** K. Hahn, A. Seitsonen, M. Iannuzzi, J. Hutter, University of Zurich/CH
3.04_1902	PS.42	**Implementing catalysts for the reaction of carbon dioxide with epoxides** T. Müller, RWTH Aachen University/D
3.04_1954	PS.42	**In-situ FTIR study on the direct synthesis of DMC from CO_2 and CH_3OH over Cu-Ni/AC** A.F. Orrego, O.F. Arbelaez, F. Bustamante, A.L. Villa, Universidad de Antioquia, Medellin/CO; M.E. Hernandez-Teran, G.A. Fuentes, Universidad Autonoma Metropolitana-Iztapalapa, Mexico/MEX
3.04_1999		**Carbon dioxide adsorption on well-ordered silica-based alkali-metal nanocomposites: an experiment combined with a density functional theory** S. Kwon, J.G. Seo, H.J. Kwon, H.C. Lee, Samsung Electronics, Yongin-si/ROK
3.04_2096		**Carbon deposition behavior in CH_4 dry reforming by CO_2** Y. Kitano, K. Taniya, Y. Ichihashi, S. Nishiyama, Kobe University/J

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3.04_6617		**Promotion of alumina supported and unsupported nickel catalysts using iron** G. Deo, D. Pandey, Indian Institute of Technology, Kanpur/IND
3.04_6726	PS.42	**Direct synthesis of dialkylcarbonates over basic oxide catalysts** P. Mäki-Arvela, V. Eta, E. Leino, T. Salmi, D.Yu. Murzin, Åbo Akademi University, Turku/FIN; J.-P. Mikkola, Umeå University/S
3.04_6758		**Kinetics of carbon dioxide reforming of methane over a mesoporous Ni-CaO-ZrO_2 catalyst** C.Z. Wang, N.N. Sun, X. Wen, W. Wei, Institute of Coal Chemistry, Taiyuan/PRC; Y.H. Sun, Shanghai Advanced Research Institute, Shanghai/PRC
3.04_6762		**Photocatalytic conversion of carbon dioxide into methanol using layered double hydroxides and its application to solar fuel cells** N. Ahmed, Y. Izumi, M. Morikawa, Chiba University/J
3.04_6814		**CO_2 utilization via dry reforming over Ni-CaO-ZrO_2 catalysts: influence of Ni contents at different conditions** N. Sun, X. Wen, W. Wei, Institute of Coal Chemistry, Taiyuan/PRC; Y. Sun, Shanghai Advanced Research Institute, Shanghai/PRC
3.04_6950		**Novel copper microfibrous entrapped Ni/Al_2O_3 catalyst with enhanced transfer characteristics for dry reforming of methane** W. Chen, W.-Q. Sheng, G.-F. Zhao, Y. Lu, East China Normal University, Shanghai/PRC
3.04_6992	PS.42	**The formation of poly(ether-carbonates) from CO_2 and epoxides – An old catalyst class revisited: the transition metal carboxylates** M. Adolph, T.A. Zevaco, I. Held, M. Döring, Karlsruhe Institute of Technology (KIT), Eggenstein-Leopoldshafen/D
3.04_7081	PS.42	**Utilization of carbon dioxide to diethyl carbonate via one-pot synthesis starting from ethanol, CO_2 and butylene oxide over cerium oxide** E. Leino, N. Kumar, P. Maki-Arvela, D. Murzin, Abo Akademi University, Turku/FIN; J.P. Mikkola, Abo Akademi University, Turku/FIN and University of Umea/FIN
3.04_7163	PS.42	**Investigating the fundamental steps in the formation of acrylates from CO_2 and ethylene** M. Lejkowski, R. Lindner, T. Kageyama, G. Bodizs, P.-N. Plessow, CaRLa – Catalysis Research Laboratory, Heidelberg/D; S. Schunk, hte Aktiengesellschaft, Heidelberg/D; M. Limbach, BASF, Ludwigshafen/D
3.04_7168		**Quantum chemical modeling of the catalysed copolymerisation of CO_2 and epoxides** W. Offermans, W. Leitner, T.E. Mueller, RWTH Aachen University/D
3.04_7198	PS.39	**Catalyst and process design for the synthesis of methanol via CO_2-hydrogenation** F. Arena, G. Mezzatesta, G. Zafarana, University of Messina/I; G. Bonura, C. Cannilla, F. Frusteri, L. Spadaro, CNR-ITAE „Nicola Giordano“, Messina/I
3.04_7250	PS.39	**Improving the CO_2 methanation on Rh/γ-Al_2O_3 catalyst by *in situ* supply of hydrogen by Ni/carbon catalysts** C. Swalus, A. Beuls, A. Karelovic, M. Jacquemin, P. Ruiz, Université catholique de Louvain, Louvain-la-Neuve/B
3.04_7306		**A theoretical study on carbon dioxide reforming of methane over cobalt metal** V. Cimenoglu, A.E. Aksoylu, Bogazici University, Istanbul/TR

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3.04_7390		**The contribution of catalysis in syngas cleanup and carbon capture from coal or biomass gasifiers** L. Li, Pacific Northwest National Laboratory, Richland, WA/USA; K. Zhang, University of Connecticut, Storrs, CT/USA; D. King, H. Chen, Pacific Northwest National Laboratory, Richland, WA/USA; Y. Duan, National Energy Technology Laboratory, Pittsburgh, PA/USA; S. Li, Pacific Northwest National Laboratory, Richland, WA/USA; P. Singh, University of Connecticut, Storrs, CT/USA
3.04_7434		**Solar fuel production based on the CO_2 reduction with artificial photosynthesis** Y. Amao, Oita University and PREST, Saitama/J
3.04_7456		**Study on chemical and physical CO_2 adsorption on metal hydroxide modified adsorbent** Y. Cho, S. Kwon, D. Park, W. Jung, Korea Railroad Research Institute, Uiwang/ROK
3.04_7468		**Enhanced carbon dioxide capture and hydrogen production in tar steam reforming reaction using bi-functional Fe/CaO/$Ca_{12}Al_{14}O_{33}$ materials** I. Zamboni Corredor, C. Courson, A. Kiennemann, Université de Strasbourg/F
3.04_7471		**Carbon nanofibers synthesized from CO_2 hydrogenation on alkali-promoted Ni/Al_2O_3 catalysts** C. Chen, J. You, Chang Gung University, Tao-Yuan/TW
3.04_7494		**Formation of propylene carbonate from propylene oxide and CO_2 under mild conditions using commercially available catalysts** A. Monassier, M. Cokoja, W.A. Herrmann, F.E. Kühn, TU München, Garching/D; V. D'Elia, King Abdullah University of Science and Technology, KAUST, Thuwal/SAR; J.-M. Basset, King Abdullah University of Science and Technology, Thuwal/SAR
3.04_7509		**Atom economy synthesis of N-substituted carbamate from dialkyl carbonate and polyurea with CO_2 over MgO-ZnO catalyst** J.P. Shang, L.G. Wang, F. Shi, Y.Q. Deng, Lanzhou Institute of Chemical Physics/PRC
3.04_7689	PS.09	**Surface hydroxyl groups promoted carbon removal in methane dry reforming reaction** J. Ni, National University of Singapore/SGP; L. Chen, J. Lin, Agency for Science, Technology and Research, Singapore/SGP; S. Kawi, National University of Singapore/SGP
3.04_7694		**Catalytic properties of rare earth-promoted Ni/Multi Walled Carbon Nanotube for methanation of carbon dioxide reaction** R. Zhang, L. Liang, Nanchang University/PRC
3.04_7724		**Fuel production by reduction of CO_2 using concentrated sunlight** F. Call, M. Roeb, C. Sattler, R. Pitz-Paal, DLR e.V., Köln/D; H. Bru, D. Curulla Ferre, Total S.A., Paris/F
3.04_7753	PS.42	**An effective CeO_2 catalyst for the synthesis of organic carbonates and carbamates from methanol and CO_2 system** M. Honda, K. Noro, Y. Nakagawa, K. Tomishige, Tohoku University, Sendai/J
3.04_7772		**Ni-Cr-al layered double hydroxides as catalyst precursors for CO_2 removal by methanation** M. Gabrovska, M. Shopska, R. Edreva-Kardjieva, Institute of Catalysis BAS, Sofia/BG; D. Crisan, Institute of Physical Chemistry of Romanian Academy, Bucharest/RO
3.04_7788	PS.39	**Impact of high pressure and K and Ba promoters on CO_2 hydrogenation over Cu/Al_2O_3 catalysts** A. Bansode, A. Bazzo, A. Urakawa, Institute of Chemical Research of Catalonia (ICIQ), Tarragona/E

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3.04_8017		**The effect of morphology on using CO_2 as oxidizing agent for CeO_x synthesized via electrospinning** H. Ay, Middle East Technical University, Ankara/TR; M. Naumann, TU Darmstadt/D; K. Kähler, T. Franzke, Ruhr University Bochum/D; J. Schneider, TU Darmstadt/D; M. Muhler, Ruhr University Bochum/D; D. Üner, Middle East Technical University, Ankara/TR
3.04_8021		**NiM_2O_4 spinels (M= Al or Fe) for CO_2-reforming of methane: relationships between surface properties and cat** R. Benrabaa, H. Boukhlouf, USTHB, Algeria/DZ; A. Löfberg, E. Bordes-Richard, R.N Vannier, ENSCL, France/F; A. Barama, USTHB, Algeria/DZ
3.04_8028		**Nanoencapsulated PEI@SiO_2 for CO_2 sorption** K. Uffalussy, C. Stevenson, C. Ewing, G. Veser, University of Pittsburgh, PA/USA
3.04_8083	PS.39	**CO_2 hydrogenation over Fe-based catalysts derived from Mg-Al-Fe hydrotalcites precursors** A.P. Grangeiro, R.C. Rabelo Neto, National Institute of Technology, Rio de Janeiro/BR; R.C. Colman, Fluminense Federal University, Niteroi/BR; M.K. Gnanamani, G. Jacobs, B.H. Davis, Center for Applied Energy Research, Lexington, KY/USA; F.B. Noronha, National Institute of Technology, Rio de Janeiro/BR
3.04_8120		**CO_2 reactivity with propylammino groups incorporated in ordered mesoporous silica and ethane-silica** B. Camarota, S. Fiorilli, B. Onida, Politecnico di Torino/I
		Advances in computational catalysis
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4.01_1090		**Theoretical study on mechanism of CO oxidation catalyzed by Au_{10} clusters** W. Shi, X.M. Liu, M.Y. Xia, J.L. Xue, Z.M. Ni, Zhejiang University of Technology, Hangzhou/PRC
4.01_1214	PS.35	**Fast, semi-automatic transition state finding via the freezing string method** P. Zimmerman, S. Sharada, M. Head-Gordon, A. Bell, University of California at Berkeley, CA/USA
4.01_1295		**A density functional theory study on the selective oxidation of ethane over SBA-15 mesoporous material-supported potassium catalyst** Z. Wang, Z. Zhao, D. Wang, Y. Chen, J. Lan, B. Liu, China University of Petroleum, Beijing/PRC
4.01_1443		**Description of sorption kinetics of acidic and basic probes on ZrO_2** S. Kouva, J. Kanervo, Aalto University/FIN; J. Andersin, K. Honkala, University of Jyväskylä/FIN
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4.01_1868		**Kinetic Monte Carlo simulations of reactions on supported nanoparticles** F. Kuhn, L. Kunz, O. Deutschmann, Karlsruhe Institute of Technology/D
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4.01_1962		***Ab initio* molecular dynamics of carbocations adsorbed on zeolite surface** N. Rosenbach, Jr., C.J.A. Mota, Federal University of Rio de Janeiro/BR
4.01_2033		**Numerical simulation of TAP experiments – new approaches for variable pressure conditions and hierarchical pore systems** U. Senechal, C. Breitkopf, TU Dresden/D
4.01_2051		**The reactivity of lattice nitrogen species in binary carbonitride and ternary and quaternary nitride phases** M. AlShalwi, D.H. Gregory, J.S.J. Hargreaves, S.M. Hunter, University of Glasgow/UK
4.01_2089		**Galilean invariant continuity equations for adsorbed species** D. Wang, Tsinghua University, Beijing/PRC
4.01_6692		**Formation of HO radicals via O-O homolysis in complex $[Al(H_2O)_4(OOH)(H_2O_2)]^{2+}$: a striking conclusion based on DFT calculations** M.L. Kuznetsov, TU Lisbon/P; Y.N. Kozlov, Semenov Institute of Chemical Physics of the RAS, Moscow/RUS; A.J.L. Pombeiro, TU Lisbon/P; G.B. Shul'pin, Semenov Institute of Chemical Physics of the RAS, Moscow/RUS
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4.01_6944		**Correction for reversible adsorption over the "inert" material** A. Goguet, C. Hardacre, B. Inceesungvorn, K. Morgan, S.O. Shekhtman, Queen's University Belfast/UK
4.01_7028		**Strategies for bifunctional catalyst design** H. Doan, L.C. Grabow, University of Houston, TX/USA
4.01_7149		**Ethane dehydrogenation on Zn_4O_4 clusters encapsulated in ZSM-5 and ZnZSM-5 zeolites** E.V. Fadeeva, United Research and Development Centre, Moscow/RUS; I.V. Mishin, L.M. Kustov, N.D. Zelinsky Institute of Organic Chemistry, Moscow/RUS; M.N. Mikhailov, United Research and Development Centre, Moscow/RUS
4.01_7179	PS.36	**Extended QM and QM-QM' study of Al^{III} and Al^{IV} species grafted on dehydroxylated β-cristobalite support- comparison between theoretical and experimental ^{27}Al NMR** R.N. Kerber, X. Rozanska, F. Delbecq, T. Kerber, P. Fleurat-Lessard, P. Sautet, Ecole Normale Supérieure de Lyon (ENS)/F

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4.01_7199		**Electronic channels of a molecule activation by the catalytic site – NO at the copper site in a zeolite** P. Kozyra, M. Radon, J. Datka, Jagiellonian University in Krakow/PL; E. Broclawik, Institute of Catalysis and Surface Chemistry of PAS, Krakow/PL
4.01_7209	PS.06	**First principle studies of copper nanoclusters and their catalyzed methanol synthesis reactions** S. Li, Y. Lei, Y. Sun, Shanghai Advanced Research Institute/PRC; P. Zhang, Anhui University of Technology, Maanshan/PRC; M. Chen, D.A. Dixon, The University of Alabama, Tuscaloosa, AL/USA
4.01_7224	PS.35	**Density functional theory studies of Ni-catalyzed methane dry reforming reaction** Y. Lei, S. Li, Y. Sun, Shanghai Advanced Research Institute/PRC
4.01_7325		**Multi-lattice approach to first-principles kinetic Monte Carlo simulations: application to catalytic CO oxidation at Pd(100)** M. Hoffmann, K. Reuter, TU München, Garching/D
4.01_7455		***Ab initio* DFT simulation of MAS NMR chemical shifts from γ-Al_2O_3 surfaces after chemisorption of PDMS fragments** A.R. Ferreira, Universidade Federal de Juiz de Fora/BR; W.F. Souza, S.S.X. Chiaro, PETROBRAS-CENPES, Rio de Janeiro/BR; A.A. Leitão, Universidade Federal de Juiz de Fora/BR
4.01_7533		**Adsorption, growth, reactivity of small silver clusters on silica support from DFT calculations** A.M. Shor, E.A. Shor, V.A. Nasluzov, Institute of Chemistry and Chemical Technology SB RAS, Krasnoyarsk/RUS; N. Rösch, TU München, Garching/D
4.01_7564		**QMx: hybrid calculations made easy and efficient** T. Kerber, X. Rozanska, E. Caron, P. Fleurat-Lessard, Ecole Normale Supérieure de Lyon (ENS)/F
4.01_7668	PS.35	**DFT investigation on spin-related processes in catalytic conversion of light alkanes to olefins over carbon catalysts** O. Khavryuchenko, B. Frank, A. Trunschke, R. Schlögl, Fritz-Haber-Institute, Berlin/D
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4.01_7896		**Oxygen radical anions on the surface of VO_x/TiO_2 catalysts and their role in oxygen isotopic exchange and selective oxidation** V. Avdeev, A. Bedilo, Boreskov Institute of Catalysis SB RAS, Novosibirsk/RUS
4.01_8046		**MoO_3/ZSM-5 as catalyst for catalytic methane aromatization: DFT studies on formation of active phase and reaction mechanism** D. Rutkowska-Zbik, R. Tokarz-Sobieraj, R. Grybos, M. Witko, Institute of Catalysis and Surface Chemistry of PAS, Krakow/PL
4.01_8084		**A new software framework for coupling Density Functional Theory and kinetic Monte-Carlos simulations** L. Kunz, O. Deutschmann, Karlsruhe Institute of Technology/D

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4.02_1063		**A catalytic membrane micro-reactor for the direct synthesis of propene oxide** E. Kertalli, J.C. Schouten, T.A. Nijhuis, Eindhoven University of Technology/NL
4.02_1084		**Silica supported transition metal silicide nanoparticles as novel hydrogenation catalysts prepared by MOCVD** J. Guan, J. Jin, A. Zhao, C. Liang, Dalian University of Technology/PRC
4.02_1157		**The preparation of Co/alumina and Fe/charcoal nanocatalysts using melt infiltration and ex-situ activation for Fischer-Tropsch synthesis** J.C. Park, J.-I. Yang, D.H. Chun, J.H. Yang, H.-J. Kim, B.K. Kim, H.-T. Lee, H. Jung, Korea Institute of Energy Research, Daejeon/ROK
4.02_1171		**Heterogenization of (peroxo)polyoxometalates by organic/inorganic hybridization: application in olefins epoxidation** C. Swalus, F. Gillard, B. Farin, M. Devillers, E.M. Gaigneaux, Université Catholique de Louvain/B
4.02_1215		**Influence of thermal treatment conditions on the characteristics of Cu-based mixed oxides derived from hydrotalcite-like compounds** I.S. Pereira, Universidade Federal do Rio de Janeiro/BR; C.A. Henriques, Universidade do Estado do Rio de Janeiro/BR; V. Teixeira da Silva, Universidade Federal do Rio de Janeiro/BR; C.B. Rodella, Laboratório Nacional de Luz Síncrotron, Campinas/BR
4.02_1252		**Preparation of carbon nanotube-supported metal catalysts by a novel photochemical method under a photoflash** S. Xiang, Zhengzhou Institute of Light Industry/PRC; X. Xiang, Beijing University of Chemical Technology/PRC; Z. Wang, Zhengzhou Institute of Light Industry/PRC
4.02_1256		**Assemble robust catalysts with „unprotected“ metal nanoclusters** Y. Wang, Y. Liu, L. Zhang, A. Gao, Peking University/PRC
4.02_1261		**Selective hydrogenations on gold/mesoporous titania catalysts** N. Saito, K. Tsutsumi, H. Yoshitake, Yokohama National University/J
4.02_1275		**Platinum-like catalytic behavior of rhenium sulfide clusters** S. Kamiguchi, RIKEN – The Institute of Physical and Chemical Research, Wako/J; S. Nagashima, T. Chihara, Saitama University/J

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4.02_1289		**Assembly of semiconductor monolayer with oriented crystal faces** G. Ma, King Abdullah University of Science and Technology (KAUST), Thuwal, Jeddah/SAR; T. Takata, M. Katayama, F. Zhang, Y. Moriya, The University of Tokyo/J; K. Takanabe, King Abdullah University of Science and Technology, Thuwal, Jeddah/SAR; J. Kubota, K. Domen, The University of Tokyo/J
4.02_1290		**Hybrid gold nanoparticle-reduced graphene oxide nanosheets as active catalysts for highly efficient reduction of nitroarenes** H.S. Bae, S.W. Jang, K.H. Park, Pusan National University/ROK; B.S. Kim, Ulsan National Institute of Science and Technology/ROK
4.02_1291		**Highly stable and magnetically recyclable mesoporous silica spheres embedded with FeCo/graphitic shell nanocrystals for supported catalysts** A. Kim, H. Woo, K.H. Park, Pusan National University/ROK; W.S. Seo, Sogang University, Seoul/ROK
4.02_1292	PS.19	**Extremely active Pd@pSiO$_2$ yolk-shell nanocatalysts for Suzuki coupling reactions of aryl halides** A. Kim, K.H. Park, Pusan National University/ROK; H. Song, Korea Advanced Institute of Science and Technology, Daejeon/ROK
4.02_1306		**Platinum nanoparticles supported on nitrogen-containing carbon nanotubes for selective hydrogenation of 1,5-cyclooctadiene** C. Li, X.F. Zhang, C. Liang, Dalian University of Technology/PRC; P.R. Chen, W. Xia, Ruhr-Universität Bochum/D; M. Muhler, Ruhr University Bochum/D
4.02_1356		**Towards a molecular understanding of the effect of shaping catalytic powders: the case of graphite as shaping agent** V.G. Baldovino-Medrano, B. Farin, Université Catholique de Louvain/B; A. Castelli, F. Cavani, Università di Bologna/I; E.M. Gaigneaux, Université Catholique de Louvain/B
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4.02_1425		**Preaparation and catalytic function of palladium nanoparticle /hollow porous carbon (core/shell) nanocomposite** T. Harada, F. Hashimoto, Osaka University, Toyonaka/J; T. Torimoto, Nagoya University/J; S. Ikeda, M. Matsumura, Osaka University, Toyonaka/J
4.02_1472		**Influence of the synthesis method on the catalytic activity of ceria in CO oxidation** I.V. Zagaynov, E.A. Trusova, A.A. Baikov Institute of Metallurgy and Materials Science of RAS, Moscow/RUS

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4.02_1490		**Multi-component noncrystalline alloy nanotubes: synthesis and catalytic properties** M. Mo, N.H. Xue, L.M. Peng, X.M. Guo, W.P. Ding, Nanjing University/PRC
4.02_1491	PS.02	**The role of metal-support interaction in the formation of catalytically active metal nanoparticles for hydrodechlorination** E. Golubina, A. Erokhin, E. Lokteva, A. Kharlanov, V. Lunin, Lomonosov Moscow State University/RUS
4.02_1555	PS.04	**Design of single-site Ti-containing hierarchical porous silica and their applications in the epoxidation reactions** T. Kamegawa, N. Suzuki, H. Yamashita, Osaka University/J
4.02_1585	PS.32	**Sub-5nm, Au-Pd bimetallic nanoparticles with variable surface composition and catalytic activity via confined inter-particle hetero-atom migration** Y. Tang, Y. Dai, S. Xu, J. Fan, Zhejiang University, Hangzhou/PRC
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4.02_1608		**Surface characterization of nano-structured carbon catalysts by adsorption microcalorimetry using reactants as probe molecules** S. Wrabetz, B. Frank, Fritz-Haber-Institute, Berlin/D; R. Blume, Helmholtz-Zentrum Berlin für Materialien und Energy GmbH/D; O.V. Khavryuchenko, Fritz-Haber-Institute, Berlin/D and University of Kiev/UA; A. Trunschke, R. Schlögl, Fritz-Haber-Institute, Berlin/D
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4.02_1681		**Fe$_2$(MoO$_4$)$_3$/MoO$_3$ nano-structured catalysts for the oxidation of methanol to formaldehyde** G. Jin, Z. Lin, N.F. Dummer, S.H. Taylor, J.K. Bartley, G.J. Hutchings, Cardiff University/UK; W. Weng, C.J. Kiely, Lehigh University, Bethlehem, PA/USA
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4.02_1702	PS.32	**Catalytic activitiy of gold-palladium nanoalloys immobilized in spherical polyelectrolyte brushes** J. Kaiser, Y. Lu, M. Ballauff, Helmholtz-Zentrum Berlin/D
4.02_1718		**Optically excited plasmonic nanostructures of coinage metals as selective partial oxidation catalysts: examples of epoxidation of propylene and ethylene** P. Christopher, M. Andiappan, S. Linic, University of Michigan, Ann Arbor, MI/USA

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4.02_1870		**Modification of HMS mesoporous material by Ti, Al and Zr heteroelements** R.V. Martins, J.H. Flores, M.I. Pais da Silva, Pontifícia Universidade Católica do Rio de Janeiro/BR
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4.02_1883		**Flow chemistry with the magnetic nano-composite catalysts** H. Smugowski, U. Laska, P.K. Plucinski, C.G. Frost, G.J. Price, University of Bath/UK
4.02_1890		**Halide free preparation of Au-Pd supported catalysts** S.A. Kondrat, G. Shaw, J.K. Edwards, P.J. Miedziak, T.E. Davies, A.F. Carley, S.H. Taylor, G.J. Hutchings, Cardiff University/UK; Q. He, C.J. Kiely, Lehigh University, Bethlehem, PA/USA
4.02_1895		**Design and synthesis of targeted Ag nanoparticle geometries for selective ethylene epoxidation** P. Christopher, University of California, Riverside, CA/USA; S. Linic, University of Michigan, Ann Arbor, MI/USA

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4.02_1898		**Silver nanoparticles supported on hybrid films as catalysts addressed to oxidation of cyclohexene** J. Goscianska, I. Nowak, Adam Mickiewicz University in Poznan/PL
4.02_1907		**Influence of organic surfactants on the catalytic activity of platinum and platinum-alloy nanoparticles** L. Altmann, University Bremen/D; X. Wang, University of Oldenburg/D; P. Sonstroem, University Bremen/D; H. Borchert, K. Al-Shamery, University of Oldenburg/D; M. Baeumer, University Bremen/D
4.02_1911		**Mixed metal polymer supported nanoparticles for selectivity control in consecutive reactions** E. Gebauer-Henke, O. Tkacheva, T.E. Müller, RWTH Aachen University/D
4.02_1938		**Metal alloy-metal oxide heteronanostructures for gas phase carbon monoxide oxidation** T. Montanari, C. George, L. Manna, IIT – Italian Institute of Technology, Genova/I
4.02_1960		**Heterogenization of dipicolinate complexes into interlayer space of kaolinite – synthesis and characterization** F.R. Araújo, A.L. Carvalho, L. Marçal, F.M. Lemos, B.F. Ferreira, G.P. Ricci, K.J. Ciuffi, E.J. Nassar, P.S. Calefi, E.H. De Faria, Universidade de Franca/BR; M.A. Vicente, R. Trujillano, Universidad de Salamanca/E; A. Gil, S. Korilli, Universidad Publica de Navarra, Pamplona/E
4.02_1979		**Synthesis of oxide nanocavities for heterogeneous catalysis** C. Canlas, J.M. Notestein, Northwestern University, Evanston, IL/USA
4.02_2034		**Pt-on-Au nanostructures for Pt-saving in catalysis: how Pt activity gets improved on Au nanoparticles** G.R. Zhang, B.Q. Xu, Tsinghua University, Beijing/PRC
4.02_2072	PS.15	**Preparation of contamination free single-crystal α-Al_2O_3 (sapphire) substrates with well-defined step-terrace structures** D. Zhang, Y. Gan, Harbin Institute of Technology/PRC
4.02_6608	PS.16	**Scanning tunneling microscopy and tunneling spectroscopy study of $H_6P_2Mo_xW_{18-x}O_{62}$ (x=0, 3, 9, 15, 18) Wells-Dawson heteropolyacids** J.H. Choi, D.R. Park, S. Park, J.K. Kim, I.K. Song, Seoul National University/ROK
4.02_6636		**Synthesis of a novel highly active nano-sized Pt/ZnO catalyst for water gas shift reaction** H.-S. Roh, V. Subramanian, H.S. Potdar, D.-W. Jeong, J.-O. Shim, W.-J. Jang, Yonsei University, Wonju/ROK
4.02_6652		**Au/Al_2O_3 catalysts for electron transfer reactions: the effect of support** F. Rashidi, Research Institute of Petroleum Industry, Tehran/IR; E. Lima, Universidad Nacional Autónoma de México, Mexico/MEX; A. Rashidi, Research Institute of Petroleum Industry, Tehran/IR; A. Guzmán, Instituto Politécnico Nacional, Mexico/MEX
4.02_6675	PS.06	**Copper@carbon nanowires and nanorods prepared by CVD method and their use as nanocatalyst for methanol synthesis** Y. Zhao, Y. Zhang, Y. Li, Z. Yan, China University of Petroleum, Qingdao/PRC
4.02_6685		**Original approach to the synthesis of zeolites supported on mesoporous materials** P. Pérez-Romo, H. Armendáriz-Herrera, J. Sánchez-Valente, M.L. Guzmán-Castillo, F. Hernández-Beltrán, J. Fripiat, Instituto Mexicano del Petróleo, México, D.F./MEX

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4.02_6693		**Crystal phase and morphology controlled synthesis of Fe_2O_3 nanomaterials** X.L. Mou, X.J. Wei, Y. Li, Dalian Institute of Chemical Physics/PRC; B.S. Zhang, L.D. Yao, Fritz Haber Institute, Berlin/D; D.S. Su, Shenyang National Laboratory for Materials Science/PRC; W.J. Shen, Dalian Institute of Chemical Physics, Dalian/PRC
4.02_6696	PS.32	**Restructuring of gold nanoparticle on ceria nanorods** N. Ta, A.L. Chen, Dalian Institute of Chemical Physics/PRC; J.Y. Liu, Arizona State University, Tempe, AZ/USA; W.J. Shen, Dalian Institute of Chemical Physics/PRC
4.02_6738		**Synthesis of mesoporous Cr-TiO_2 and its efficient performance for PODH** W. Lu, F. Ma, P. Chen, F. Chen, S. Chen, Zhejiang University, Hangzhou/PRC
4.02_6752		**Mixed-monolayer-protected „striped“ nanoparticles as efficient heterogeneous catalysts** A. Ghosh, N.K. Mal, Tata Chemicals Ltd., Pune/IND; F. Stellacci, École Polytechnique Fédérale de Lausanne/CH; R. Kumar, Tata Chemicals Ltd., Pune/IND
4.02_6755		**Preparation of an efficient catalyst containing nanocrystallites-forming hexagonal porous structure for dehydrogenation of cyclohexane** O. Mohamed, King Faisal University, Al-Ahsa/SAR
4.02_6756		**Preparation and characterization of the unsupported iron oxide nanoparticles prepared through different techniques** O. Mohamed, A. Al jaafari, King Faisal University, Al-Ahsa/SAR
4.02_6757		**Optimizing the catalytic activity of Cu_2O nanocrystals via crystal-plane-controlled surface structuring in reactive environments** H.Z. Bao, W.H. Zhang, J.L. Yang, W.X. Huang, University of Science and Technology of China, Hefei/PRC
4.02_6784		**On the role of manganese for the growth of multi-walled carbon nanotubes over highly active sacrifical cobalt catalyts** M. Becker, W. Xia, M. Muhler, Ruhr-Universität Bochum/D; J-P. Tessonnier, R. Schögl, Fritz-Haber-Institute, Berlin/D
4.02_6788		**Controllable synthesis and catalytic performance of Pd nanocrystals supported on hydrotalcite** Y.F. He, J.T. Feng, D.Q. Li, Beijing University of Chemical Technology/PRC
4.02_6789		**Preparation and properties of highly dispersed Pd catalysts supported on whisker-modified spherical alumina** Y. Li, J.T. Feng, D.Q. Li, Beijing University of Chemical Technology/PRC
4.02_6813		**Preparation of novel composite alloy catalysts with nanoporous structure by self-assembled nano-architecture based on metallurgy** S. Kameoka, S. Wakabayashi, A.P. Tsai, Tohoku University, Sendai/J
4.02_6827	PS.04	**Design of Pd/SiO_2@Ti-containing mesoporous silica core-shell catalyst and application to efficient one-pot reaction** S. Okada, S. Ikurumi, T. Kamegawa, K. Mori, H. Yamashita, Osaka University, Suita/J
4.02_6831		**Phenylacetylene hydrogenation in presence of dendrimer-encapsulated palladium nanoparticles** E.A. Karakhanov, A.L. Maximov, A.V. Zolotukhina, V.S. Kuznetsov, Moscow State University/RUS
4.02_6838	PS.04	**Enhanced catalytic activity on titanosilicate molecular sieves controlled by cation-ϖ interactions** Y. Kuwahara, K. Nishizawa, T. Kamegawa, K. Mori, H. Yamashita, Osaka University/J

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4.02_6845		**Fine-tunable Ni@porous silica core-shell nanocatalysts: structure and reactivity in the partial oxidation of methane** L. Li, S.C. He, Y.Y. Song, J. Zhao, W.J. Ji, Nanjing University/PRC; C.T. Au, Hong Kong Baptist University/PRC
4.02_6847		**Morphology-directed synthesis of Co_3O_4 nanotubes based on modified Kirkendall effect and its application in CH_4 combustion** Z.Y. Fei, S.C. He, L. Li, W.J. Ji, Nanjing University/PRC; C.T. Au, Hong Kong Baptist University/PRC
4.02_6900		**Chiral gold and silver nanoclusters: preparation, size selection and chiroptical properties** M. Farrag, M. Tschurl, TU München/D; T. Bürgi, University of Geneva/CH; U. Heiz, TU München/D
4.02_6931		**Small sized Co_3O_4-SiO_2 composites: very active catalysts with unusual catalytic behavior for CO oxidation** C.-J. Jia, C. Weidenthaler, A.D. Pandey, W. Schmidt, M. Schwickardi, MPI für Kohlenforschung, Mülheim an der Ruhr/D; S. Korhonen, B.M. Weckhuysen, Utrecht University/NL; M. Leoni, University of Trento/I; F. Schüth, MPI für Kohlenforschung, Mülheim an der Ruhr/D
4.02_6935		**Combined miniemulsion/photodegradation methods: controlled synthesis of high active Au, Pd- and PdO-oxidation catalysts** N. Heutz, K. Merz, A. Birkner, M. Muhler, Ruhr-Universität Bochum/D
4.02_6945		**Preparation methods for multi-walled carbon nanotube supported palladium catalysts** E. Rikkinen, R. Karinen, A.O. I. Krause, Aalto University/FIN
4.02_6947		**Redispersion of gold supported on oxides** J. Sa, S.F.R. Taylor, H. Daly, A. Goguet, Queen‘s University Belfast/UK; R. Tiruvalam, C.J. Kiely, Lehigh University, Bethlehem, PA/USA; G.J. Hutchings, Cardiff University/UK; C. Hardacre, Queen‘s University Belfast/UK
4.02_6951		**Nanotechnology for better performing industrial catalysts** N. Pernicone, Ma.Tec. Materials Technologies, Novara/I; F. Pinna, Cà Foscari University and INSTM UdR Venezia/I
4.02_6956		**Carbide-derived carbon (CDC) as model catalyst support – An exemplary study** B. Hasse, F. Reißner, C. Dicenta, P. Hausmann, B.J.M. Etzold, University of Erlangen-Nürnberg/D
4.02_6978		**Experimental setup of a time-of-flight mass spectrometer for reaction product detection in heterogeneous catalysis** A. Winbauer, M. Tschurl, J. Kiermaier, U. Boesl, U. Heiz, TU München, Garching/D
4.02_7000		**Photocatalysis with size-selected supported metal clusters** J. Kiermaier, M. Tschurl, A. Winbauer, F. Esch, TU München, Garching/D; C. Henry, CINaM-CNRS Marseille/F; U. Heiz, TU München, Garching/D
4.02_7046		**Effect of redox treatments on activation and deactivation of gold nanospecies on different supports** N. Bogdanchikova, A. Simakov, T.A. Zepeda, M.H. Farias, M. Avalos, Universidad Nacional Autónoma de México, Ensenada/MEX; A. Pestryakov, I. Tuzovskaya, Tomsk Polytechnic University/RUS
4.02_7067		**Entrapment of metal nanoparticles within the hollow spheres and nanocages of mesoporous silicas** Q. Yang, Dalian Institute of Chemical Physics/PRC

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4.02_7106		**Hierarchic zeolites: the properties of zeolite ZSM-5 desilicated with NaOH and tetrabutylammonium hydroxide** K. Sadowska, A. Wach, Jagiellonian University, Cracow/PL; Z. Olejniczak, Institute of Nuclear Physics, Cracow/PL; P. Kustrowski, J. Datka, Jagiellonian University, Cracow/PL
4.02_7127		**New synthesis route and catalytic behaviour of pure nanoporous gold and gold-silver powders** T. Deronzier, F. Morfin, L. Massin, J.L. Rousset, IRCELYON, Villeurbanne/F; M. Lomello, SYMME – Polytech' Savoie, Annecy-le-Vieux/F
4.02_7130		**Surface properties and application in 2-propanol oxidation of Au/polyoxometalate-composites** M. Muhler, J. Strunk, K. Merz, N. Gerhardt, X. Iwanowa, Ruhr-Universität Bochum/D
4.02_7139		**Role of $Mg_{1-x}Fe_xO$ phase in the growth of CNTs by catalytic chemical vapor deposition** E. Piperopoulos, University of Messina/I; S. Santangelo, University „Mediterranea", Reggio Calabria/I; M. Lanza, C.N.R. Institute for Chemical Physics Processes, Messina/I; A. Pistone, S. Galvagno, C. Milone, University of Messina/I
4.02_7160		**Spontaneous dispersion of gold nanoparticles on USY zeolites** K. Okumura, C. Murakami, T. Oyama, Tottori University/J; T. Sanada, A. Isoda, Nissan-arc co., Yokosuka/J; N. Katada, Tottori University/J; M. Niwa, Nagoya Industrial Science Research Institute/J
4.02_7175		**Combinatorial development of multicomponent catalysts for oxidation of propane to acrylic acid** A. Tompos, Chemical Research Center, Budapest/H; J.L. Margitfalvi József, L. Végvári, Combitech-Nanotech Kft., Budapest/H
4.02_7195		**Unique catalytic performance of the highly dispersive Pt species** M.S. Chen, X.N. Chen, X.F. Weng, D. Ding, L. Shi, H.L. Wan, Xiamen University/PRC
4.02_7242		**Catalytic properties of Fe-carbon nanocomposite in phenylacetylene semihydrogenation** A.V. Erokhin, E.S. Lokteva, E.V. Golubina, V.V. Lunin, Lomonosov Moscow State University/RUS; A.Ye. Yermakov, M.A. Uimin, A.A. Mysik, Institute of Metal Physics, Yekaterinburg/RUS
4.02_7244		**Modification of support by spinel coverage and its influence on selective hydrogenation of phenylacetylene on alumina supported Ni and Ni-Pd catalysts** A.A. Peristyy, N.E. Kavalerskaya, E.V. Golubina, E.S. Lokteva, Lomonosov Moscow State University/RUS
4.02_7270		**Comparative mechanistic analysis of NH_3 oxidation over polycrystalline Pt wire and supported tailored Pt nanoparticles** J. Schäffer, V.A. Kondratenko, N. Steinfeldt, M. Sebek, E.V. Kondratenko, Leibniz Institute for Catalysis at the University of Rostock/D
4.02_7301		**Homogeneous and heterogenised gold C-scorpionate complexes for alkane oxidation** M. Peixoto de Almeida, S.A.C. Carabineiro, Universidade do Porto/P; L.M.D.R.S. Martins, Instituto Superior de Engenharia de Lisboa, Lisboa/P; A.J.L. Pombeiro, Instituto Superior Técnico, Lisboa/P; J.L. Figueiredo, Universidade do Porto/P
4.02_7302		**Study of the catalytic golden nanoparticles deposited on Fe and Al pillared clays – activity in selective oxydation** A. Hakkoum, R. Soulimane, R. Bachir, S. Bedrane, Tlemcen University/DZ

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4.02_7345		**Amorphous-to-crystalline transformations in Pt nanoparticles** J.C. Yang, L. Li, University of Pittsburgh, PA/USA; L.L. Wang, D.D. Johnson, Iowa State University, Ames, IA/USA; Z. Zhang, University of Pittsburgh, PA/USA; S.I. Sanchez, J.H. Kang, R.G. Nuzzo, University of Illinois, Urbana, IL/USA; Q. Wang, A.I. Frenkel, Yeshiva University, New York, NY/USA; J. Ciston, Lawrence Berkeley National Laboratory, CA/USA; E. Stach, Brookhaven National Laboratory, Upton, NY/USA
4.02_7346		**Size controlled synthesis of transition metal nanoparticles on oxidic supports for catalytic applications** A.T. Garcia-Esparza, D.K. Cha, K. Takanabe, King Abdullah University of Science and Technology (KAUST), Thuwal/SAR
4.02_7349		**Selective C-H and C-C bond activation of propane on platinum nanoparticles with different sizes and shapes** J. Zhu, D. Chen, Norwegian University of Science and Technology, Trondheim/N; M.L. Yang, East China University of Science and Technology, Shanghai/PRC; Y.D. Yu, Norwegian University of Science and Technology, Trondheim/N; X.G. Zhou, East China University of Science and Technology, Shanghai/PRC; A. Holmen, Norwegian University of Science and Technology, Trondheim/N
4.02_7359		**Enhancing heat exchange properties of stainless steel foam with multi walled carbon nanotubes grown by CCVD method** I. Tuzovskaya, S. Pacheco Benito, J.K. Chinthaginjala, C.P. Reed, T. van der Meer, L. Lefferts, University of Twente/NL
4.02_7372		**Direct synthesis of H_2O_2 from H_2 and O_2 over Pd core – silica shell catalyst** S. Kim, K.-Y. Lee, Korea University, Seoul/ROK
4.02_7396		**Control of activity and selectivity of supported molecular metal catalysts by tuning the support, ligands, and nuclearity of catalytic sites** P. Serna, D. Yardimci, B.C. Gates, University of California, Davis, CA/USA
4.02_7453		**Synthesis of anatase nanocrystals with surface acid sites for aqueous-phase surfactant-directed assembly** C.H. Chen, C.M. Yang, National Tsing Hua University, Hsinchu/TW
4.02_7473		**Pulse surface thermosynthesis (PST) of Ag/SiO_2/fiber glass oxidation catalysts** Y.S. Kotolevich, Institute of Hydrocarbons Processing of SB of RAS, Omsk/RUS; E.A. Suprun, Boreskov Institute of Catalysis of SB of RAS, Novosibirsk/RUS; M.R. Sharafutdinov, Institute of Solid State Chemistry and Mechanochemistry of SB of RAS, Novosibirsk/RUS; A.N. Salanov, Boreskov Institute of Catalysis of SB of RAS, Novosibirsk/RUS; P.G. Tsyrulnikov, Institute of Hydrocarbons Processing of SB of RAS, Omsk/RUS; V.B. Goncharov, Boreskov Institute of Catalysis of SB of RAS, Novosibirsk/RUS
4.02_7483		**Synthesis of iron doped ordered mesoporous semi-graphitic carbon with tunable pore sizes** H. Tang, G. Lan, J. Zhong, H. Liu, Y. Li, Zhejiang University of Technology, Hangzhou/PRC
4.02_7495		**„Oxide-on-metal" catalytic systems for low temperature oxidation reactions: from model systems to supported nanocatalyts** Q. Fu, X.G. Guo, R.T. Mu, Y.X. Ning, Y.X. Yao, H. Xu, D.L. Tan, X.H. Bao, Dalian Institute of Chemical Physics/PRC
4.02_7496		**Preparation and surface property of Rh nano-particles dispersed over a new type $CaSiO_3$ as catalyst support** Y. Sakata, T. Yamashita, E. Tanabe, H. Imamura, Yamaguchi University, Ube/J; K. Shimizu, Hokkaido University, Sapporo/J

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4.02_7498		**High performance palladium promoted gold catalyst with mesoporous silica support for solvent-free oxidation of benzyl alcohol** X. Yang, S.J. Liao, South China University of Technology, Guangzhou/PRC
4.02_7499		**Metal-carbon nanocomposites: about possible catalytic activity of graphene in the H_2 activation** E.S. Lokteva, A.V. Erokhin, S.A. Kachevsky, Lomonosov Moscow State University/RUS; A.E. Ermakov, Institute of Metal Physics of the Ural Branch of RAS, Yekaterinburg/RUS
4.02_7505		**Chemistry under graphene cover: intercalation reactions and nano-confinement effects** R.T. Mu, L. Jin, H. Zhang, Y. Cui, Q. Fu, X.H. Bao, Dalian Institute of Chemical Physics/PRC
4.02_7550		**Model studies of supported metal catalyst preparation – deposition of Pd on Fe_3O_4(111) from $PdCl_2$ precursor** H.-F. Wang, H. Ariga, R. Dowler, W.E. Kaden, M. Sterrer, H.-J. Freund, Fritz-Haber-Institute, Berlin/D
4.02_7588		**Synthesis and XPS studies of size-selected „crustlike“ Pt and Pd catalysts with different metal coverage** L.V. Yashina, T.N. Rostovshchikova, Lomonosov Moscow State University/RUS; S.A. Gurevich, V.M. Kozhevin, D.A. Yavsin, Ioffe Physical-Technical Institute of RAS, St-Petersburg/RUS
4.02_7599		**Structure and stability of thin FeO films under environmental conditions** F. Ringleb, H. Ariga, E. Carrasco, H. Wang, Y. Fujimori, M. Sterrer, H.-J. Freund, Fritz-Haber-Institute, Berlin/D; L. Giordano, G. Pacchioni, Universita di Milano-Bicocca/I; J. Goniakowski, Institut des Nanosciences, Paris/F
4.02_7622		**Hydrogenation of unsaturated compounds with catalysts obtained by the laser ablation** E.A. Abramovskaya, I.A. Aksenov, A.N. Shatokhin, F.N. Putilin, A.L. Maksimov, E.A. Karakhanov, Lomonosov Moscow State University/RUS
4.02_7634		**Structure and surface-assisted transfer hydrogenation of γ-Al_2O_3-supported Ir dimer** S. Muratsugu, Z. Weng, Institute for Molecular Science, Okazaki/J; H. Nakai, K. Isobe, Kanazawa University/J; T. Sasaki, The University of Tokyo, Chiba/J; M. Tada, Institute for Molecular Science, Okazaki/J
4.02_7679		**Reconsideration of the role of Cl^- in nano-gold catalyst fabrication** C. Zhang, X. Cui, F. Shi, Y. Deng, Lanzhou Institute of Chemical Physics/PRC
4.02_7692		**Towards efficient catalytic synthesis of graphene based on a carbon diffusion-nucleation model** T. Zhao, Shanghai Advanced Research Institute/PRC; M. Ronning, D. Chen, Norwegian University of Science and Technology, Trondheim/N; Y. Sun, Shanghai Advanced Research Institute/PRC
4.02_7699		**ALD synthesis and properties of high performance, supported metal catalysts** J. Lu, Argonne National Lab, IL/USA; B. Fu, Southeast University, Nanjing/PRC; M. Kung, Northwestern University, Evanston, IL/USA; G. Xiao, Southeast University, Nanjing/PRC; J.W. Elam, Argonne National Lab, IL/USA; H.H. Kung, Northwestern University, Evanston, IL/USA; P.C. Stair, Northwestern University, Evanston & Argonne National Lab, IL/USA
4.02_7731		**Nanostructured supports for a controlled synthesis of supported nanocatalysts** N. de Jesus da Silva Costa, L. Lucchiari Ribeiro Vono, L.M. Rossi, University of São Paulo/BR
4.02_7732		**Pt/Sn catalysts from flame spray synthesis for autothermal dehydrogenation of propane** S. Hannemann, F. Kleine-Jäger, G. Schindler, BASF SE, Ludwigshafen/D; P. Pfab, BASF Corporation, Beachwood, OH/USA

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4.02_7735		**Preparation of multicomponent palladium-based cathode catalyst for DMFC** Y. Chen, M. Lo, M. Chang, N. Cheng, R. Wu, C. Lee, ITRI, Hsin-Chu/RC
4.02_7737		**Facile synthesis of hierarchically porous ceria** Y. Yang, L. Wong, N. Burke, K. Chiang, CSIRO, Clayton/AUS
4.02_7748		**Selective loaded copper nanocatalyst inside or outside carbon nanotubes for methyl acetate hydrogenation** D. Wang, Toyama University/J; Y.S. Tan, Institute of Coal Chemistry of CAS, Taiyuan/PRC; T. Kawabata, K. Matsuda, N. Tsubaki, University of Toyama/J
4.02_7760		**Colloidal routes to nanostructured Ru/TiO_2 catalysts for low temperature CO_2 hydrogenation** A. Karelovic, Université catholique de Louvain, Louvain-La-Neuve/B; C. Sassoye, Université Pierre et Marie Curie, Paris/F; D.P. Debecker, P. Ruiz, Université catholique de Louvain, Louvain-La-Neuve/B; C. Sanchez, Université Pierre et Marie Curie, Paris/F
4.02_7762		**Interaction of carbon monoxide and water on Au(111) modified by low energy ion bombardment** Z. Pászti, O. Hakkel, T. Keszthelyi, Chemical Research Center of HAS, Budapest/H; L. Guczi, Institute of Isotopes of HAS, Budapest/H
4.02_7765		**Preparation of supported platinum and platinum-rhodium bimetallic catalysts by using colloidal deposition processes** H. Einaga, K. Kimura, Y. Teraoka, Kyushu University, Fukuoka/J
4.02_7791	PS.29	**Highly mono-disperse ruthenium and gold nanoparticles** A. Schönweiz, University of Erlangen-Nürnberg/D; N.C. Antonels, University of Johannesburg/ZA; M. Haumann, University of Erlangen-Nürnberg-Campus Busan/ROK; R. Meijboom, University of Johannesburg/ZA
4.02_7792		**Optimisation of the preparation of hydrotalcites for catalystic application** G. Weightman, A. Lapkin, University of Warwick, Coventry/UK; H. Stephenson, E. Dvininov, MEL Chemicals, Greater Manchester/UK
4.02_7845		**AuPd *core-shell* nanoparticles for catalytic applications** T.A. Silva, E. Teixeira-Neto, L.M. Rossi, University of Sao Paulo/BR
4.02_7886		**Au/ZrO_2 model catalysts: influence of ZrO_2 morphology on the adsorption and thermal stability of Au nanoparticles** Y.H. Pan, Y. Gao, D.D. Kong, G.D. Wang, J.B. Hou, H.B. Pan, J.F. Zhu, University of Science and Technology of China, Hefei/PRC
4.02_7928		**The effect of gallium nitride doping on platinum nanoparticle oxidation behavior** S.A. Wyrzgol, S. Schäfer, I.D. Sharp, A. Jentys, TU München, Garching/D; A. Knop-Gericke, R. Schlögl, Fritz Haber Institute, Berlin/D; M. Stutzmann, J.A. Lercher, TU München, Garching/D
4.02_7967		**Structured catalysts for multidimensional, multicomponent, and multifunctional carbon nanotubes** Q. Zhang, J.Q. Huang, M.Q. Zhao, G.L. Tian, Tsinghua University, Beijing/PRC
4.02_7989		**Nanostructured alumina membranes for in situ hydrogen peroxide production** L. Frusteri, S. Perathoner, University of Messina/I; E. McAlpine, Innoval Technology Ltd., Oxfordshire/UK; G. Centi, University of Messina/I
4.02_7994		**Characterisation methods for catalysts** J. Adolphs, Porotec GmbH, Hofheim/D

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4.02_8018		**Eco-friendly microwave-assisted synthesis of nanometals. Applications in catalysis** M. Blosi, CNR_ISTEC, Faenza/I; S. Ortelli, University of Bologna/I; A.L. Costa, M. Dondi, ISTEC-CNR, Faenza/I; L. Ortolani, V. Morandi, IMM-CNR, Bologna/I; G. Baldi, Cericol, Sovigliana Vinci/I; S. Albonetti, University of Bologna/I
4.02_8032	PS.32	**Stabilising metal nanocatalysts via alloying** Y. Lai, S. Liang, A. Cao, G. Veser, University of Pittsburgh, PA/USA
4.02_8037		**Confinement effects in carbon nanotubes for catalysis** X. Pan, X. Bao, H. Zhang, S. Xu, X. Han, Dalian Institute of Chemical Physics/PRC
4.02_8048	PS.15	**Atomic scale insights into the reactivity of catalytically important Pd/Cu alloys** M.B. Boucher, T.J. Lawton, A.D. Jewell, E. Lewis, A.E. Baber, H.L. Tierney, G. Kyriakou, M. Flytzani-Stephanopoulos, E.C.H. Sykes, Tufts University, Medford, MA/USA
4.02_8086		**Supported Pd nanoparticles prepared by colloidal deposition on functionalized supports: effect of ligands on catalytic activity** L.L.R. Vono, N.J.S. Costa, L.M. Rossi, University of São Paulo/BR
4.02_8087	PS.31	**Role of gold in the reduction and crystallization processes of iron oxides investigated by dispersive XANES and XRD** S.A. Jimenez-Lam, Instituto Tecnologico de Celaya/MEX; M. Cardenas-Galindo, B.E. Handy, Universidad Autonoma de San Luis Potosi/MEX; S.A. Gomez, G.A. Fuentes, Universidad Autonoma Metropolitana-Iztapalapa, Mexico City/MEX; J.C. Fierro-Gonzalez, Instituto Tecnologico de Celaya/MEX
4.02_8098		**Synthesis by microemulsion of highly active CoMo/Al_2O_3 hydrodesulfurization catalyts** J. Munguía, J. De los Reyes, T. Viveros, Universidad Autónoma Metropolitana, México D.F./MEX
4.02_8121	PS.02	**Structural, textural and catalytic activity in ethane oxidative dehydrogenation of $Ni_{1-x}Co_xMoO_4$ molybdates oxides** H. Boukhlouf, R. Benrabaa, S. Barama, A. Barama, USTHB, Algeria/DZ
4.02_8157	PS.43	**Layering in zeolites: microscopic characterization in 2 and 3 dimensions** I. Arslan, Pacific Northwest National Laboratory, Richland, WA/USA; K.J. Batenburg, University of Antwerp/B; B.C. Gates, University of California-Davis, CA/USA; D.A. Dixon, University of Alabama, Tuscaloosa, AL/USA; A. Katz, University of California-Berkeley, CA/USA
		Novel concepts in acid-base catalysis
4.03_1012		**Why the H-bonding affects the OH -> OD isotopic shift factor of surface hydroxyl groups?** K. Chakarova, N. Drenchev, P. Nikolov, M. Mihaylov, K. Hadjiivanov, Institute of General and Inorganic Chemistry of the BAS, Sofia/BG
4.03_1048		**Synthesis and catalytic activity of mesoporous silicates grafted by basic functional groups** E.V. Borodina, S.I. Karpov, V.F. Selemenev, Voronezh State University/RUS; F. Rößner, University of Oldenburg/D
4.03_1665		**Analysis of the textural properties and thermodynamic parameters of solid state dealuminated Y zeolites** L. Borges, J. Macedo, S. Dias, J. Dias, Universidade de Brasília/BR
4.03_1832		**Acid-functionalized nanoparticles as separable, stable acid catalysts** M.A. Ikenberry, K.L. Hohn, L. Pena, D. Wang, Kansas State University, Manhattan, KS/USA

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4.03_6852	PS.35	**Brønsted acidity of amorphous silica-alumina: the molecular rules of proton transfer** F. Leydier, C. Chizallet, IFP Energies nouvelles, Solaize/F; D. Costa, ENSCP, Paris/F; P. Raybaud, IFP Energies nouvelles, Solaize/F
4.03_6908		**Novel concept for creation of basicity in Y type zeolites** A. Wojtaszek, Adam Mickiewicz University, Poznan/PL; F. Tielens, UPMC University, Paris/F; M. Ziolek, Adam Mickiewicz University, Poznan/PL
4.03_7071		**Tuning the catalytic basic conversion of alcohols by the pretreatment conditions of ZnO: control of oxygen vacancies concentration** C. Drouilly, J.M. Krafft, F. Averseng, H. Lauron-Pernot, G. Costentin, Université Pierre et Marie Curie, Ivry sur Seine/F; D. Bazer-Bachi, C. Chizallet, O. Delpoux, V. Lecocq, IFP Energies nouvelles-Lyon, Solaize/F; H. Vezin, USTL, Villeneuve d'Ascq/F
4.03_7185		**Brønsted basicity versus Lewis basicity: a mixed experimental-theoretical approach on MgO surfaces** D. Cornu, H. Petitjean, G. Costentin, H. Guesmi, J.-M. Krafft, H. Lauron-Pernot, Université Pierre et Marie Curie, Ivry sur Seine/F
4.03_7207		**Characterization of surface acidity of carbonated materials by IR-sensitive molecular probes: advantages of using tert-butyl cyanide** F. Meunier, J. Ni, CNRS/Université Caen/F; S. Robles-Manuel, J. Barrault, S. Valange, CNRS/ Université Poitiers/F
4.03_7389		**Nb doped titanate nanotubes as solid acid catalysts** M. Kitano, E. Wada, K. Nakajima, Tokyo Institute of Technology, Yokohama/J; S. Hayashi, National Institute of Advanced Industrial Science and Technology, Tsukuba/J; M. Hara, Tokyo Institute of Technology, Yokohama/J
4.03_7401		**On the complex roles of amines, silanols and carboxylic acids in acid-base bifunctional silica catalysts in the aldol condensation** N.A. Brunelli, K. Venkatasubbaiah, C.W. Jones, Georgia Institute of Technology, Atlanta, GA/USA
4.03_7422		**Titania as an efficient water-tolerant solid Lewis acid catalyst for allylation of benzaldehyde with tetraallyl tin** R. Noma, K. Nakajima, M. Kitano, M. Hara, Tokyo Institute of Technology, Yokohama/J
4.03_7441		**Selective production of lactic acid from triose over H_3PO_4/TiO_2 with water-tolerant Lewis acid sites** K. Nakajima, M. Kitano, M. Hara, Tokyo Institute of Technology, Yokohama/J
4.03_7443		**Structural characteristics and catalytic performance for SO_3H-bearing microporous carbons** K. Fukuhara, M. Kitano, K. Nakajima, Tokyo Institute of Technology, Yokohama/J; S. Hayashi, National Institute of Advanced Industrial Science and Technology, Tsukuba/J; M. Hara, Tokyo Institute of Technology, Yokohama/J
4.03_7452	PS.16	**Changes in surface acidity of $H_4SiW_{12}O_{40}/SiO_2$ in relation to the loading amount** Y. Kamiya, J. Zhang, M. Kanno, Y. Wang, H. Nishi, Y. Miura, Hokkaido University, Sapporo/J
4.03_7785		**Characterization of intercristallite diffusion on nano BEA zeolite by reversed-flow gas chromatography (RF-GC)** T. Belin, N. Batalha, L. Pinard, Université de Poitiers-LACCO/F; A. Soualah, USTHB, Alger/DZ; F. Lemos, IBB, Lisboa/P

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4.03_7865		**The nature of active sites on zirconia modified by organosilylation for isomerization and hydrogenation of olefins** Y. Imizu, Y. Mizuno, M. Ando, S. Katayose, H. Yamada, Kitami Institute of Technology/J
4.03_8116		**Catalytic application of template-containing mesoporous molecular sieve in the transesterification of monoester** I.H. Cruz, J.H. Araujo, F.T. Cruz, D. Cardoso, Federal University of São Carlos/BR
		Advances in reactor technology (multifunctionality, structuring, size)
4.04_1162		**Use of a monolithic stirrer reactor for alcoholysis of urea with 1,2-propylene glycol** D.F. Wu, Southeast University, Nanjing/PRC
4.04_1198		**Monitoring of catalytic reactions in photonic crystal fiber** M. Schmidt, University of Erlangen-Nürnberg/D; A. Cubillas, MPI for the Science of Light, Erlangen/D; B.J.M. Etzold, University of Erlangen-Nürnberg/D; M. Scharrer, T.G. Euser, MPI for the Science of Light, Erlangen/D; N. Taccardi, University of Erlangen-Nürnberg/D; P.St.J. Russell, MPI for the Science of Light, Erlangen/D; P. Wasserscheid, University of Erlangen-Nürnberg/D
4.04_1297		**Gas/liquid oxidation of cyclohexane with O_2 in a microreactor – autoxidation versus heterogeneous catalysis -** J. Sonntag, University of Stuttgart/D; M. Dong, Institute of Coal Chemistry, Taiyuan/PRC; J. Fischer, BASF SE, Ludwigshafen/D; J. Wang, Institute of Coal Chemistry, Taiyuan/PRC; E. Klemm, University of Stuttgart/D
4.04_1532		**CAPITA I Catalytic processes for innovative technology applications** A.B. Werner, M.W. De Snoo, Netherlands Organisation for Scientific Research, The Hague/NL
4.04_1584		**Automated solutions for high throughput experimentation in heterogeneous catalyst research** R. Boutant, W. Zinsser, Zinsser Analytic GmbH, Frankfurt am Main/D
4.04_1749		**Experimental and theoretical study of mass-transfer in foams and other filamentous media** L. Gagni, C.G. Visconti, G. Groppi, E. Tronconi, G. Bozzano, M. Dente, Politecnico di Milano/I
4.04_1873		**Glucose oxidation in rotating foam reactors: reaction kinetics, mass transfer and upscaling** R. Tschentscher, T.A. Nijhuis, J. van der Schaaf, J.C. Schouten, TU Eindhoven/NL
4.04_1894		**Hierarchical porous structures – zeolites on cellular supports as catalysts** S. Lopez-Orozco, A. Inayat, A. Schwab, T. Selvam, W. Schwieger, University of Erlangen-Nürnberg/D
4.04_6853		**SpaciMS – Spatial and temporal *operando* resolution of structured catalysts** C. Stere, A. Goguet, Queen's University Belfast/UK; J. Sa, PSI, Zurich/CH; D.L. Fernandes, Universidade de Aveiro/P; W. Naeem, C. Hardacre, Queen's University Belfast/UK; W.P. Partridge, ORNL, Oak Ridge, TN/USA

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4.04_7322		**Ni and Ni-Co/Al_2O_3 powder and structured catalysts applied to the oxidative dehydrogenation of ethane** J.P. Bortolozzi, T. Weiss, L.B. Gutierrez, M.A. Ulla, National University of the Littora, Santa Fe/RA
4.04_7411		**Enhanced production of synthetic natural gas from syngas: a novel process combining CO methanation, WGS and CO_2 capture** V. Lebarbier, R. Dagle, Pacific Northwest National Laboratory, Richland, WA/USA; C. Taylor, National Energy Technology Laboratory, Pittsburg, PA/USA; L. Li, Pacific Northwest National Laboratory, Richland, WA/USA; X. Bao, Dalian Institute of Chemical Physics/PRC; Y. Wang, Pacific Northwest National Laboratory Richland and Washington State University, Pullman, WA/USA
4.04_7585		**Electronic effect of organic ligands on the catalytic epoxidation performance of ligand-functionalised β-octamolybdate** J. Du, J. Wang, H.C. Gao, X.J. Song, J.H. Yu, W.X. Zhang, M.J. Jia, Jilin University, Changchun/PRC
4.04_7620		**Preparation of nano-catalysts via flame spray pyrolysis and their inkjet printing into microchannel reactors** S.C. Lee, O. Görke, P. Pfeifer, R. Dittmeyer, Karlsruhe Institute of Technology (KIT)/D
4.04_7640		**Asymmetric supported membranes on Ni-Al substrates with graded porosity: design and performance in oxygen separation and syngas generation** V. Sadykov, N. Mezentseva, M. Arapova, S. Pavlova, E. Gerasimov, T. Krieger, V. Usoltsev, V. Rogov, V. Belyaev, N. Eremeev, G. Alikina, Boreskov Institute of Catalysis, Novosibirsk/RUS; O. Smorygo, Powder Metallurgy Institute of the NAS of Belarus, Minsk/BY
4.04_7704		**Characterisation and optimisation of catalytic fixed bed reactors with numerical simulations** T. Horneber, C. Rauh, A. Delgado, University of Erlangen-Nürnberg/D
4.04_7976		**A theoretical and experimental study of open cell metal foams flow and heat transfer performance as catalyst substrates** B. Saberi, Green Twirl Energy, Ottawa/CDN; S. Saberi, Consultant, Ottawa/CDN; D. Naumann, Juniper Associates, Mississauga/CDN; F. Deisel, Alantum Europe GmbH, Munich/D
4.04_8023		**Novel TiO_2 honeycomb substrates for catalyst synthesis** C. Trefzger, C. Bertole, Cormetech, Inc, Durham, NC/USA
		Catalyst immobilization and flow-systems
4.05_1070	PS.17	**$RuCl_2L_2$-(2-PyCH) complex as catalysts for crotonaldehide hidrogenation under homogeneous and heterogeneous conditions** G. Benítez, L.A. Vargas, A.E. Ramírez, University of Cauca, Popayán/CO; H.A. Rojas, J.G. Martínez, Universidad Pedagófica y Tecnológica de Colombia, Tunja/CO; F. Cuenú, University of Quindio, Armenia/CO
4.05_1093		**Immobilised Mn(II)-superoxide dismutase mimicking catalysts – synthesis, characterisation and catalytic activity** Z. Csendes, G. Varga, University of Szeged/H; N.V. Nagy, Chemical Research Center of the HAS, Budapest/H; P. Sipos, I. Palinko, University of Szeged/H

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4.05_1315		**Catalyst of ionic liquid immobilized on the functionalized activated carbon for Knoevenagel condensation reaction** L. Ma, L.D. Cui, X.L. Xu, Q.F. Zhang, C.S. Lu, X.N. Li, Zhejiang University of Technology, Hangzhou/PRC
4.05_1357		**Preparation of zeolite coatings within microchannels of chip- and capillary-based microreactors** L.A. Truter, V.V. Ordomsky, T.A. Nijhuis, J.C. Schouten, Eindhoven University of Technology/NL
4.05_1362		**Continuous-flow asymmetric hydrogenation** M. Picard, G. Franciò, W. Leitner, RWTH Aachen University/D
4.05_1386	PS.17	**Supported ionic liquid phase (SILP) catalysis in continuous gas-phase hydroformylation: influence of gas solubility on supported catalyst systems** A. Schoenweiz, A. Buchele, W. Arlt, University of Erlangen-Nürnberg/D; M. Haumann, University of Erlangen-Nürnberg – Campus Busan/ROK; P. Wasserscheid, University of Erlangen-Nürnberg/D
4.05_1410	PS.17	**Catalytic production of nitriles in batch and continuous flow systems** E. Corker, U.V. Mentzel, R. Fehrmann, A. Riisager, Technical University of Denmark, Kgs. Lyngby/DK
4.05_1423	PS.17	**Iridium-catalyzed asymmetric hydrogenation using ionic liquids and supercritical carbon dioxide** P. Schmitz, G. Franciò, W. Leitner, RWTH Aachen University/D; P.G. Andersson, X. Quan, Uppsala University/S
4.05_1579		**Development of uniform silica-based coatings for catalytic microreactors** V. Paunovic, M.F. Neira D'Angelo, V. Ordomsky, T.A. Nijhuis, J.C. Schouten, Eindhoven University of Technology/NL
4.05_1615	PS.17	**Modular, immobilisable and sterically encumbered carbene ligands applied to the Suzuki-Miyaura reaction** J.L. Krinsky, C. Godard, S. Castillón, C. Claver, Universidad Rovira i Virgili, Tarragona/E
4.05_1776	PS.17	**Cross-linked xylose isomerase crystals as an heterogeneous enzyme catalyst** K. Vilonen, R. Karinen, J. Linnekoski, J. Lehtonen, O. Krause, Aalto University School of Chemical Technology/FIN
4.05_2010		**Supported Ionic Liquid Phase (SILP) catalysis in continuous-flow gas phase hydroaminomethylation** M.J. Schneider, P. Wasserscheid, University of Erlangen-Nürnberg/D
4.05_6690	PS.17	**Supported metallocene onto multi-morphological mesoporous materials for polymerization of ethylene** Y. Kang, M. Zhang, J. Jiang, Beijing Research Institute of Chemical Industry-SINOPEC/PRC
4.05_7319		**Reversible and irreversible deactivation in Co_3O_4-catalyzed ammonia oxidation** W.-K. Fung, L. Ledwaba, M. Modiba, M. Claeys, E. van Steen, University of Cape Town, Rondebosch/ZA
4.05_7523		**Preparation and catalytic properties of RuSalen functionalized periodic mesoporous organosilicas** B. Fan, H. Li, Taiyuan University of Technology/PRC; W. Fan, Institute of Coal Chemistry, Taiyuan/PRC; R. Li, Taiyuan University of Technology/PRC
4.05_7623		**Gas-phase dehydration of acetic acid and ammonia to acetonitrile over H-ZSM-5** A.T. Madsen, U.V. Mentzel, E.C. Corker, A. Riisager, R. Fehrmann, Technical University of Denmark, Kgs. Lyngby/DK

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4.05_7684		**Selective gas phase aerobic oxidation of ethanol to acetaldehyde over a supported ruthenium catalyst under flow conditions** U.V. Mentzel, E.C. Corker, A. Riisager, R. Fehrmann, Technical University of Denmark, Kgs. Lyngby/DK
4.05_7711		**Biomimetic heterogeneous oxidation of ethylene into acetaldehyde by hydrogen peroxide under the per-FTPhPFe(III)OH/Al_2O_3** U.V. Nasirova, NAGIEV Institute of Chemical Problems, Baku/AZ; I.T. Nagieva, Baku State University/AZ; L.M. Gasanova, T.M. Nagiev, NAGIEV Institute of Chemical Problems, Baku/AZ
4.05_7743		**A high-temperature, high-pressure integrated laboratory packed-bed reactor for use in a modular process environment** F. Herbstritt, J. Heck, Ehrfeld Mikrotechnik BTS GmbH, Wendelsheim/D; J. Kristal, Z. Stavarek, Z. Vajglova, V. Jiricni, Institute of Chemical Process Fundamentals of the ASCR, Prague/CZ
4.05_7790	PS.17	**Ionic liquid film distribution in SILP catalysts determined by solid state NMR studies** A. Schönweiz, University of Erlangen-Nürnberg/D; M. Haumann, University of Erlangen-Nürnberg-Campus Busan/ROK; H. Breitzke, G. Buntkowsky, TU Darmstadt/D
4.05_7926	PS.17	**TS-1 zeolite membranes on integrated reactors for sustainable chemical production** M. Palomino, A. Prieto, U. Díaz, A. Corma, Institute of Chemical Technology (UPV-CSIC), Valencia/E

Physico-chemical characterisation

5.01_1263	PS.36	**The study of mechanisms of 1,3-butadiene and 1-butyne hydrogenation on Pt and Pd supported catalysts by parahydrogen induced polarization** D.A. Barskiy, K.V. Kovtunov, I.V. Koptyug, International Tomography Center SB RAS, Novosibirsk/RUS; I.E. Beck, V.I. Bukhtiyarov, Boreskov Institute of Catalysis SB RAS, Novosibirsk/RUS
5.01_1624		**Oxygen K-edge XAS analysis of novel alumina sol materials** K.K. Bando, S. Shiki, M. Okubo, M. Ukibe, Y. Suzuki, K. Ihara, H. Takashima, T. Kodaira, Y. Hakuta, F. Mizukami, National Institute of Advanced Industrial Science and Technology, Tsukuba/J; N. Nagai, Kawaken Fine Chemicals Co., Ltd., Tokyo/J; E. Kobayashi, T. Okajima, Kyushu Synchrotron Light Research Center, Tosu/J
5.01_1670		**Application of isotopic substitution in the FTIR studies of systems with linkage isomerism** S.N. Petrov, A.A. Tsyganenko, A.V. Rudakova, St. Petersburg University/RUS; K.S. Smirnov, UST de Lille/F
5.01_1924		***In situ* DXAS characterization of Mg-V-Al catalysts for oxidative dehydrogenation of propane** J.A. Valverde, Universidad de Antioquia, Medellin/CO; L.A. Palacio, Universidade do estado do Río de Janeiro/BR; J.-G. Eon, Universidade Federal do Rio de Janeiro/BR
5.01_2054	PS.40	***In situ* spectroscopic characterization of a commercial sulphuric acid catalyst under industrial like reaction conditions** P. Beato, A. Puig Molina, K. Agerbæk Christensen, Haldor Topsoe A/S, Lyngby/DK

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5.01_2069		**Activation of oxygen on single crystalline MgO(001) films** T. Risse, A. Gonchar, Freie Universität Berlin/D; H.-J. Freund, Fritz-Haber-Institute, Berlin/D
5.01_2084	PS.15	**Molybdenum-titanium mixed oxide films as model catalysts** O. Karslioglu, H. Kuhlenbeck, H.J. Freund, Fritz-Haber-Institute, Berlin/D
5.01_6802	PS.40	**The potentials of IR micro-imaging for in-situ studies of chemical reactions in nanoporous catalysts** C. Chmelik, D. Enke, R. Gläser, J. Kärger, J. Kullmann, T. Titze, University of Leipzig/D; J. Weitkamp, University of Stuttgart/D; L. Prager, Leibniz Institute of Surface Modification, Leipzig/D
5.01_6892	PS.15	**Dynamics of truly monodisperse cluster catalysts under the STM** Y. Fukamori, M. König, B. Wang, F. Esch, U. Heiz, TU München/D
5.01_6903	PS.15	**Atomically-resolved stages in the growth of RuO_2(110) epitaxial layers on Ru(0001)** B. Herd, D.W. Langsdorf, J.C. Goritzka, A. Farkas, H. Over, Universität Gießen/D; O. Balmes, European Synchrotron Radiation Facility (ESRF), Grenoble/F
5.01_6941		**TAP studies of CO oxidation over CuMnOx and Au/CuMnOx** K. Morgan, Queen's University Belfast/UK; K.J. Cole, Cardiff University/UK; A. Goguet, C. Hardacre, Queen's University Belfast/UK; G.J. Hutchings, Cardiff University/UK; N. Maguire, S.O. Shekhtman, Queen's University Belfast/UK; S.H. Taylor, Cardiff University/UK
5.01_6960		**Vertical growth of hexaaluminate embedded in alumina layer** L.H. Zhang, D. Chen, Tianjin University/PRC
5.01_7018		**Noncontact in-situ electrical conductivity studies of oxidation catalysts using the microwave cavity perturbation technique** M. Eichelbaum, Ch. Heine, A. Trunschke, R. Schlögl, Fritz Haber Institute, Berlin/D
5.01_7087		**Time-resolved combined XAS and UV-Vis applied to the study of the cerium catalysed BZ reaction** M. Hagelstein, T. Liu, S. Mangold, M. Bauer, Karlsruhe Institute of Technology, Eggenstein-Leopoldshafen/D
5.01_7280	PS.15	**An *in-situ* STM study on ethylene decomposition and carbonization on a catalytically reactive metal surface** M. König, Y. Fukamori, B. Wang, F. Esch, U. Heiz, TU München, Garching/D
5.01_7463	PS.40	**Advantages of resonance Raman spectroscopy in studying catalysts** H. Kim, Argonne National Laboratory and Northwestern University, Evanston, IL/USA; S. Wegener, Northwestern University, Evanston, IL/USA; L. Curtiss, Argonne National Laboratory, IL/USA; T. Marks, Northwestern University, Evanston, IL/USA; P. Stair, Argonne National Laboratory and Northwestern University, Evanston, IL/USA
5.01_7580		**Improved detection of the catalytic active site by modulated excitation XAS** C.F.J. Koenig, Paul Scherrer Institut, Villigen/CH; J.A. van Bokhoven, ETH Zürich and Paul Scherrer Institut, Villigen/CH; T.J. Schildhauer, M. Nachtegaal, Paul Scherrer Institut, Villigen/CH
5.01_7759		**Heats of adsorption for carbon monoxide and oxygen on Pd nanoparticles as determined by UHV single crystal adsorption calorimetry (SCAC)** S. Adamovsky, M. Peter, J.M. Flores-Camacho, J.H. Fischer-Wolfarth, S. Schauermann, H.-J. Freund, Fritz-Haber-Institute, Berlin/D
5.01_7907		**A simple method for quantitative determination of surface hydroxyl groups of metal oxides using dimethylphenylsilane** H. Tamura, K. Matsumoto, S. Iwamoto, Gunma University, Kiryu/J

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5.01_8119	PS.31	***In situ* time-resolved XAFS study on the formation mechanism of Rh nanoparticles at elevated temperature** H. Asakura, K. Teramura, T. Shishido, T. Tanaka, Kyoto University/J; N. Yan, EPFL, Lausanne/CH; S. Yao, C. Xiao, Y. Kou, Peking University, Beijing/PRC
		Selective oxidation
5.02_1577		**Strong metal-support interaction between gold nanoparticles and ZnO** X. Liu, M.H. Liu, Y.C. Luo, C.Y. Mou, National Taiwan University, Taipei/TW; S.D. Lin, H. Cheng, National Taiwan University of Science and Technology, Taipei/TW; J.M. Chen, J.F. Lee, National Synchrotron Radiation Research Center, Hsinchu/TW; T.S. Lin, Washington University in St. Louis, MO/USA
5.02_1801		**Preparation of mesoporous Au/SBA-15 and Au/Ti(1-4Ti/nm^2)-SBA-15 catalysts and their performance in the CO oxidation reaction** G. Kucerova, S. Sundararajan, J. Strunk, University Ulm/D; M. Muhler, Ruhr-Universität Bochum/D; R.J. Behm, University Ulm/D
5.02_1901		**Catalytic properties of caesium salts of phosphotungstate with hydroxyl-tin group for acid-catalyzed and oxidation reactions** Y. Miura, Y. Kamiya, Hokkaido University, Sapporo/J
5.02_1905		**Comparative studies of CO oxidation on nanoporous Au catalysts derived from AuAg and AuCu alloys: insights into the nature of active sites** L.-C. Wang, Ulm University/D; Y. Zhong, Hamburg University of Technology/D; D. Widmann, Ulm University/D; J. Weissmüller, Hamburg University of Technology/D; R.J. Behm, Ulm University/D
5.02_1915		**CO oxidation on oxide supported Au catalysts – oxygen activation and the nature of active oxygen species** D. Widmann, R.J. Behm, Ulm University/D
5.02_2023	PS.29	**Ruthenium dioxide as versatile oxidation catalyst in heterogeneous and electro-catalysis** H. Over, University Giessen/D; M. Muhler, Ruhr-Universität Bochum/D
5.02_6870		**Unraveling the structure of Co-doped Li/MgO** S. Arndt, U. Simon, TU Berlin/D; S. Levchenko, Fritz Haber Institute, Berlin/D; K. Kiefer, Helmholtz Zentrum Berlin/D; T. Otremba, TU Berlin/D; K.P. Dinse, Freie Universität Berlin/D; K. Siemensmeyer, M. Wollenhaupt, Helmholtz Zentrum Berlin/D; M. Scheffler, Fritz Haber Institute, Berlin/D; H. Schubert, R. Schomäcker, TU Berlin/D
5.02_6981		**The selective oxidation of methanol on iron molybdate** M. Bowker, A. Carley, D. Edwards, C. Bamroongwongdee, R. Davies, Cardiff University/UK
5.02_7061		**VO_x on mesoporous silicas: influence of preparation method and support on the oxygenate selectivity during methane oxidation** E. Schönborn, Universität Rostock/D; C. Pirovano, N. Kalevaru, S. Wohlrab, A. Martin, Leibniz-Institut für Katalyse e.V. an der Universität Rostock/D
5.02_7308	PS.44	**On the activation of methane at room temperature using cobalt oxide catalysts** F.M.G. Devred, Y. Herremans, P. Dulgheru, T. Visart de Bocarmé, Université Libre de Bruxelles, Brussels/B; G. Jannes, Institut Meurice, Brussels/B; N. Kruse, Université Libre de Bruxelles, Brussels/B

LIST OF POSTER PRESENTATIONS

Poster number	Poster symposia number (see page 3-6)	
5.02_7469		**Liquid phase selective oxidations in the presence of vanadium based catalysts** M. Florea, N. Candu, V. Parvulescu, University of Bucharest/RO
5.02_7506		**Selectivity-determining factors in the Andrussow process** V.A. Kondratenko, M.-M. Pohl, Leibniz Institute for Catalysis at the University of Rostock/D; D.S. Su, Fritz-Haber-Institute, Berlin/D
5.02_7518		**Excellent catalytic performance of Pd/FeO_x, Pt/FeO_x: co-oxidation of CO+H_2 and CO-tolerance** L.Q. Liu, F. Zhou, Y.Q. Fei, Y.Q. Deng, Lanzhou Institute of Chemical Physics/PRC
5.02_7778		**Steps toward closing the pressure gap for the epoxidation of ethylene on Ag catalysts** S. Böcklein, S. Günther, R. Wyrwich, J. Sicklinger, A. Drechsel, C. Hettstedt, M. Joas, G. Rozsa, M. Ehrensperger, A. Preimesser, M. Seibald, R. Reichelt, J. Wintterlin, Universität München/D
5.02_7923		**Epoxidation reactions using nano-crystalline TS-1** A. Prieto, M. Palomino, U. Díaz, A. Corma, Universidad Politécnica de Valencia-UPV-CSIC/E
5.02_8079		**Structure-property relationships between support surface structure and catalyst effectiveness in VO_x-SBA-15** M. Smith, A. Zoelle, Villanova University, PA/USA

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