

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.

Two conveners/organizes will be chosen that have the freedom to arrange a session (poster symposium) lasting 90 minutes.

The organizational form can be very flexible. It might be organized a more conventional with short presentations, but could also be arranged as roundtable discussion.

No	Symposia name	Day	Time	Room
PS.01	FT-Structure activity relations	Monday, July 2	10:50 - 12:30	11a
PS.02	Oxidative de-hydrogenation	Monday, July 2	10:50 - 12:30	11b
PS.03	Friedel crafts and alkane alkylation	Monday, July 2	10:50 - 12:30	12a
PS.04	Epoxidation with Ti silicates	Monday, July 2	10:50 - 12:30	12b
PS.05	Hydrotreating catalysts: new solutions to old challenges	Monday, July 2	15:50 - 17:30	11a
PS.06	Methanol and direct DME sythesis	Monday, July 2	15:50 - 17:30	11b
PS.07	Selective alcohol oxidation	Monday, July 2	15:50 - 17:30	12a
PS.08	Novel aspects of NOx reduction (with NH3)	Monday, July 2	15:50 - 17:30	12b
PS.09	Refoming of hydrocarbons to syngas	Monday, July 2	17:50 - 19:30	11a
PS.10	BTX selective oxidation	Monday, July 2	17:50 - 19:30	11b
PS.11	Versatil TiO2-based photocatalysts	Monday, July 2	17:50 - 19:30	12a
PS.12	Towards understanding sulfide catalysts	Monday, July 2	17:50 - 19:30	12b
PS.13	Manipulating FT product distribution	Tuesday, July 3	10:20 - 12:00	11a
PS.14	Methanol to olefins	Tuesday, July 3	10:20 - 12:00	11b
PS.15	Imaging/local probes for catalyst characterization	Tuesday, July 3	10:20 - 12:00	12a
PS.16	Hetero polyacids	Tuesday, July 3	10:20 - 12:00	12b
PS.17	Catalyst immobilization and flow systems	Tuesday, July 3	17:20 - 19:00	11a
PS.18	Mechanistic aspects of the water-gas shift reaction	Tuesday, July 3	17:20 - 19:00	11b
PS.19	CC-coupling/cleavage	Tuesday, July 3	17:20 - 19:00	12a
PS.20	Catalysis in fuel cells	Tuesday, July 3	17:20 - 19:00	12b
PS.21	Physicochemical effects influencing cracking	Wednesday, July 4	10:20 - 12:00	11a
PS.22	Metathesis reactions	Wednesday, July 4	10:20 - 12:00	11b
PS.23	Chemoselective hydrogenation	Wednesday, July 4	10:20 - 12:00	12a
PS.24	Degradation of pollutants throught photocatalysis	Wednesday, July 4	10:20 - 12:00	12b
PS.25	Hydrocracking hydroisomerization	Wednesday, July 4	13:20 - 15:00	11a

PS.26	Hydroformylation and other reactions involving CO addition	Wednesday, July 4	13:20 - 15:00	11b
PS.27	Enantioselective catalysis	Wednesday, July 4	13:20 - 15:00	12a
PS.28	Novel photocatalysts for hydrogen generation	Wednesday, July 4	13:20 - 15:00	12b
PS.29	Ruthenium Dioxide, a versatile oxidation catalyst in heterogeneous and electro-catalysis	Wednesday, July 4	17:20 - 19:00	11a
PS.30	Lignin depolymerization and conversion of lignin model compounds	Wednesday, July 4	17:20 - 19:00	11b
PS.31	Synchrotron methods for catalyst characterization	Wednesday, July 4	17:20 - 19:00	12a
PS.32	Tailored Au and Au alloy particles	Wednesday, July 4	17:20 - 19:00	12b
PS.33	Metal organic frameworks	Thursday, July 5	10:20 - 12:00	11a
PS.34	Conversion of triglyceride and fatty acids to fuels	Thursday, July 5	10:20 - 12:00	11b
PS.35	Catalytic ethylene polymerization	Thursday, July 5	10:20 - 12:00	12a
PS.36	Advanced characterization using NMR	Thursday, July 5	10:20 - 12:00	12b
PS.37	Conversion of lignocellulosic biomass to fuels and chemicals	Thursday, July 5	15:20 - 17:00	11a
PS.38	Chemistry of alcohols	Thursday, July 5	15:20 - 17:00	11b
PS.39	Selective hydrogenation of CO ₂	Thursday, July 5	15:20 - 17:00	12a
PS.40	In situ methods for characterizing catalyst and reactions	Thursday, July 5	15:20 - 17:00	12b
PS.41	Steam reforming of alcohols	Thursday, July 5	17:20 - 19:00	11a
PS.42	Synthesis of organic carbonates	Thursday, July 5	17:20 - 19:00	11b
PS.43	Advances in electron-microscopy	Thursday, July 5	17:20 - 19:00	12a
PS.44	Selective methane oxidation	Thursday, July 5	17:20 - 19:00	12b

PS no	ID	DAY	PAPER TITLE / AUTHORS
PS.01	1219	02.07.2012	Unusual particle size dependence in Fischer-Tropsch synthesis X.Y. Quek, R.A. van Santen, E.J.M. Hensen, Eindhoven University of Technology/NL
PS.01	1704	02.07.2012	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
PS.01	2056	02.07.2012	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
PS.01	6679	02.07.2012	Effect of surface acidity/basicity on the adsorption of H₂ and CO on supported Co catalysts for Fischer-Tropsch synthesis L. Chen, J. Shen, Nanjing University/PRC
PS.01	6952	02.07.2012	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
PS.01	7246	02.07.2012	Investigating metal-support interactions in cobalt-based catalysts via molecular design E. van Steen, M. Claeys, D. Nabaho, A.P. Petersen, R. Stracey, University of Cape Town, Rondebosch/ZA; J.W. Niemantsverdriet, Eindhoven University of Technology/NL
PS.01	7271	02.07.2012	Silica or alumina supported cobalt and/or iron catalysts for Fischer-Tropsch synthesis from biosyngas A. Butel-Hadj Mahfoud, A. Griboval-Constant, A.-S. Mamede, A.Y. Khodakov, Université de Lille 1, Villeneuve D'Ascq/F; P.A. Chernavskii, Moscow State University/RUS
PS.01	7283	02.07.2012	Fast predict of CO activation pathway in Fischer-Tropsch process X.-M. Cao, P. Hu, East China University of Science and Technology, Shanghai/PRC
PS.01	7339	02.07.2012	The state of promoters in cobalt Fischer-Tropsch catalysts G. Voss, A. Voronov, N. Tsakoumis, Norwegian University of Science and Technology NTNU, Trondheim/N; W. van Beek, The Swiss-Norwegian Beam Lines (SNBL) at ESRF, Grenoble/F; M. Rønning, Norwegian University of Science and Technology NTNU, Trondheim/N
PS.01	7363	02.07.2012	The effects of reduction-oxidation-reduction activation and ruthenium promoter on alumina supported cobalt catalysts L. Tang, D. Yamaguchi, L. Wong, S. Sage, N. Burke, K. Chiang, CSIRO, Clayton, VIC/AUS
PS.01	7542	02.07.2012	The cobalt particle size effect in Fischer-Tropsch synthesis: some perspectives based on statistics and particle size distributions B. Enger, A. Holmen, Norwegian University of Science and Technology, Trondheim/N
PS.01	8049	02.07.2012	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

PS no	ID	DAY	PAPER TITLE / AUTHORS
PS.02	1020	02.07.2012	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, <u>B. Bonelli</u> , 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
PS.02	1032	02.07.2012	Oxidative dehydrogenation of ethane to ethylene over V₂O₅/SnO₂ 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; <u>Ch. Sailu</u> , Osmania University, Hyderabad/IND
PS.02	1491	02.07.2012	The role of metal-support interaction in the formation of catalytically active metal nanoparticles for hydrodechlorination <u>E. Golubina</u> , A. Erokhin, E. Lokteva, A. Kharlanov, V. Lunin, Lomonosov Moscow State University/RUS
PS.02	1511	02.07.2012	Flame synthesised vanadium and molybdenum oxide catalysts for oxidative dehydrogenation of propane <u>M. Høj</u> , A.D. Jensen, TU Denmark, Kgs. Lyngby/DK; J.-D. Grunwaldt, Karlsruhe Institute of Technology (KIT)/D
PS.02	1559	02.07.2012	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; <u>J.M. Lopez Nieto</u> , Polytechnic University of Valencia/E
PS.02	1637	02.07.2012	The analysis of active Ni species in the oxidative dehydrogenation of ethane and propane <u>L. Capek</u> , L. Smolakova, S. Botkova, University of Pardubice/CZ; F. Kovanda, Institute of Chemical Technology, Prague/CZ
PS.02	6921	02.07.2012	Oxidative and non-oxidative propane dehydrogenation: effect of potassium promotion on Mo-Ni/Al₂O₃ catalyst <u>A. Siahvashi</u> , A.A. Adesina, The University of New South Wales, Sydney/AUS
PS.02	7340	02.07.2012	Comparative study of combined oxidative and non-oxidative dehydrogenation of C₃- and C₄-hydrocarbons over VO_x species supported on HMS <u>M. Setnicka</u> , E. Tvaruzkova, P. Cicmanec, R. Bulanek, University of Pardubice/CZ
PS.02	7538	02.07.2012	Oxidative activation of n-octane over carbon nanotube supported nickel molybdate catalysts H.B. Friedrich, <u>S. Sewsunker</u> , University of KwaZulu-Natal, Durban/ZA
PS.02	7887	02.07.2012	Structure-activity relationship in N₂O-mediated oxidative dehydrogenation of propane catalyzed by Fe/H-ZSM-5 F. Hei, G. Wu, N. Guan, <u>L. Li</u> , Nankai University, Tianjin/PRC
PS.02	7956	02.07.2012	Combination of oxidative and non-oxidative dehydrogenation of C₃-C₄ alkanes as a promising approach for improving process selectivity. Influence of O₂ addition over VO_x/SBA-15 <u>O. Ovsitser</u> , C. Carrero, R. Schomaecker, TU Berlin/D; A. Trunschke, Fritz Haber Institute, Berlin/D
PS.02	8004	02.07.2012	Oxidative dehydrogenation of light alkanes on MoVTeNb mixed oxides A. Meiswinkel, C. Thaller, K.H. Hofmann, M. Bock, L. Alvarado, Linde AG, Pullach/D; <u>D. Hartmann</u> , A.C. van Veen, J.A. Lercher, TU München, Garching/D
PS.02	8121	02.07.2012	Structural, textural and catalytic activity in ethane oxidative dehydrogenation of Ni_{1-x}Co_xMoO₄ molybdates oxides <u>H. Boukhlof</u> , R. Benrabaa, S. Barama, A. Barama, USTHB, Algeria/DZ

PS no	ID	DAY	PAPER TITLE / AUTHORS
PS.03	1690	02.07.2012	Methylation of benzene by methane using Ag/ZSM-5 catalyst. T. Jermwongratanachai, B. Kitiyanan, T. Srisayan, Chulalongkorn University, Bangkok/THA
PS.03	6733	02.07.2012	Defect-rich spinel type oxides for Friedel-Crafts alkylation B. Jäger, P. Scholz, B. Ondruschka, University of Jena/D
PS.03	7566	02.07.2012	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
PS.03	7601	02.07.2012	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 Institute of Physics SB RAS, Krasnoyarsk/RUS; O.N. Martyanov, Boreskov Institute of Catalysis SB RAS, Novosibirsk/RUS
PS.03	7904	02.07.2012	Indium-containing ZSM-5 catalysts for methylation of benzene T. Srisayan, T. Jermwongratanachai, P. Wangrattanasophon, B. Kitiyanan, Chulalongkorn University, Bangkok/THA
PS.03	8015	02.07.2012	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
PS.03	8153	02.07.2012	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
PS.03	8155	02.07.2012	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

PS no	ID	DAY	PAPER TITLE / AUTHORS
PS.04	1507	02.07.2012	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
PS.04	1555	02.07.2012	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
PS.04	6827	02.07.2012	Design of Pd/SiO₂@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
PS.04	6838	02.07.2012	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
PS.04	6898	02.07.2012	Butadiene epoxidation over various metals modified titanium silicalite molecular sieves TS-1 M. Wu, L. Chou, H. Song, Lanzhou Institute of Chemical Physics/PRC
PS.04	7200	02.07.2012	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
PS.04	7578	02.07.2012	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
PS.04	7766	02.07.2012	Highly stable and reusable multimodal zeolite TS-1 based catalysts L.H. Chen, X.Y. Li, X.Y. Yang, B.L. Su, University of Namur/B

PS.05	1082	02.07.2012	Nickel silicides: an alternative and high sulfur resistant catalyst for hydrodesulfurisation <u>X. Chen, M. Li, C. Liang, Dalian University of Technology/PRC</u>
PS.05	1222	02.07.2012	Hydrodesulfurization and hydrodenitrogenation of Coker light gas oil over SBA-15 supported nickel phosphide catalysts K. Soni, P. Boahene, <u>A. Dalai</u> , University of Saskatchewan, Saskatoon/CDN; J. Adjaye, Syncrude Edmonton Research Centre/CDN
PS.05	1243	02.07.2012	Catalytic study of iron-molybdenum phosphide supported on alumina for the hydrodesulphurization of thiophene A. Chirinos Perez, <u>J.D. Araujo Rivas</u> , Francisco de Miranda University, Punto Fijo/YV; J. Brito, Venezuelan Institute for Scientific Research, Caracas/YV
PS.05	1834	02.07.2012	Relationships between composition, morphology and catalytic properties in HDS, HYD, HDN and HDO of supported transition metal sulfides <u>P. Nikulshin</u> , V. Salnikov, D. Ishutenko, Al. Pimerzin, V. Konovalov, A. Mozhaev, A. Pimerzin, Samara State Technical University/RUS
PS.05	2092	02.07.2012	Hydrodesulfurisation of dibenzothiophene and its hydrogenated intermediates over bulk MoP J. Bai, <u>X. Li</u> , A. Wang, Dalian University of Technology/PRC; R. Prins, The Swiss Federal Institute of Technology, Zurich/CH; Y. Wang, Dalian University of Technology/PRC
PS.05	2117	02.07.2012	Desulfurization mechanism of thiophene on vanadium oxides P. Wang, H. Tian, <u>J. Long</u> , Z. Dai, Research Institute of Petroleum Processing-SINOPEC, Beijing/PRC
PS.05	6771	02.07.2012	Niobium carbide as catalyst for HDS C.A. Chagas, <u>V. Teixeira da Silva</u> , Federal University of Rio de Janeiro/BR
PS.05	7682	02.07.2012	Structure and Activity of Ni₂P/Al₂O₃ catalyst for deep HDS <u>Y.K. Lee</u> , K.S. Cho, Dankook University, Yongin/ROK
PS.05	7733	02.07.2012	Pyridine hydrodenitrogenation on WP/SiO₂ and NiWP/SiO₂ catalysts - catalyst characterization and kinetic study <u>J. Kopyscinski</u> , J. Choi, S. Zhang, J.M. Hill, University of Calgary/CDN

PS no	ID	DAY	PAPER TITLE / AUTHORS
PS.06	1067	02.07.2012	Novel highly active and selective Cu-Ni based methanol synthesis catalyst <u>Q. Wu</u> , 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 Stanford University, CA/USA; B. Temel, Haldor Topsøe A/S, Lyngby/DK; G.L. Chiarello, J. Grunwaldt, Karlsruhe Institute of Technology/D
PS.06	1422	02.07.2012	The role of manganese in Cu-Zn-Mn/zeolite-Y catalyst for syngas to dimethyl ether <u>J. Fei</u> , Q. Yang, X. Tang, Z. Hou, X. Zheng, Zhejiang University, Hangzhou/PRC
PS.06	1849	02.07.2012	Microkinetics of methanol synthesis under industrial conditions <u>M. Peter</u> , O. Hinrichsen, TU München, Garching/D; H. Ruland, S. Kaluza, M. Muhler, Ruhr-Universität Bochum/D
PS.06	6675	02.07.2012	Copper@carbon nanowires and nanorods prepared by CVD method and their use as nanocatalyst for methanol synthesis <u>Y. Zhao</u> , Y. Zhang, Y. Li, Z. Yan, China University of Petroleum, Qingdao/PRC
PS.06	7084	02.07.2012	Bifunctional catalysts for the single step synthesis of dimethyl ether from synthesis gas <u>R. Ahmad</u> , U. Arnold, M. Döring, Karlsruhe Institute of Technology (KIT), Eggenstein-Leopoldshafen/D
PS.06	7209	02.07.2012	First principle studies of copper nanoclusters and their catalyzed methanol synthesis reactions <u>S. Li</u> , 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
PS.06	8001	02.07.2012	Synthesis and characterisation of Cu-based catalysts resulting from Cu₂Zn_xX Hydrotalcite-like Compounds <u>S. Kühn</u> , M. Behrens, R. Schlögl, Fritz-Haber-Institute, Berlin/D

PS no	ID	DAY	PAPER TITLE / AUTHORS
PS.07	1073	02.07.2012	Selective ethanol conversion over Cu/ZrO₂ catalysts A.G. Sato, Federal University of São Carlos/BR; D.P. Volanti, São Paulo State University, Araraquara/BR; <u>S. Damyanova</u> , Institute of Catalysis, Sofia/BG; J.M.C. Bueno, Federal University of São Carlos/BR
PS.07	1185	02.07.2012	Controlled synthesis of β-MoO₃/ α-Fe₂O₃ thin film catalysts for methanol oxidation to formaldehyde <u>G. Shi</u> , Yangzhou University/PRC; M. Muhler, Ruhr-Universität Bochum/D
PS.07	1278	02.07.2012	Novel Ca-doped CePO₄ supported ruthenium catalyst with superior catalytic performance for aerobic oxidation of alcohols Y.J. Zhang, <u>J. Wang</u> , T. Zhang, Dalian Institute of Chemical Physics/PRC
PS.07	1565	02.07.2012	Aerobic alcohol oxidations mediated by nitric acid <u>C. Aellig</u> , C. Girard, I. Hermans, ETH Zurich/CH
PS.07	1800	02.07.2012	Effect of copper loading on Cu/ZrO₂ catalyst in direct transformation of ethanol to ethyl acetate I.C. Freitas, C.M.P. Marques, <u>J.M.C. Bueno</u> , Federal University of São Carlos/BR
PS.07	1812	02.07.2012	Ethanol oxidation over bimetallic Au/Ag catalysts <u>M. Rothensteiner</u> , K. Foettinger, G. Rupprechter, TU Vienna/A
PS.07	2101	02.07.2012	Preparation of CoMo/ZrO₂ hydrodesulfurisation catalysts with assistance of complexing agent <u>L. Kaluza</u> , M. Zdražil, Z. Vit, D. Gulkova, Institute of Chemical Process Fundamentals of the ASCR, v.v.i., Prague/CZ
PS.07	6681	02.07.2012	Aerobic oxidation of primary alcohols over Au-Pd nanoparticles with rich edge and corner sites on Mg-Al mixed oxides <u>L. Wang</u> , Jilin University, Changchun/PRC; D.S. Su, Fritz Haber Institute, Berlin/D; F.-S. Xiao, Zhejiang University, Hangzhou/PRC
PS.07	6749	02.07.2012	Design of V, Sb, Nb containing catalysts towards the desired selectivity in methanol oxidation H. Golinska-Mazwa, P. Decyk, <u>M. Ziolk</u> , Adam Mickiewicz University, Poznan/PL
PS.07	6787	02.07.2012	Kinetic and IR spectroscopic studies on the alcohol oxidation over Au/ZnO and Au/TiO₂ under thermal and photocatalytic conditions <u>M.C. Holz</u> , 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
PS.07	6902	02.07.2012	Unexpected synergy between Cr(III)-hydrotalcites and gold nanoparticles in aerobic alcohol oxidation <u>P. Liu</u> , 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
PS.07	6943	02.07.2012	Yolk-shell hybrid materials with periodic mesoporous organosilicas (PMO) shell: ideal nanoreactors for selective alcohol oxidation <u>J. Liu</u> , S.Z. Qiao, G.Q.M. Lu, University of Queensland, Brisbane/AUS
PS.07	7703	02.07.2012	Atomically precisely gold clusters as key ingredients of superb catalysts <u>V.B. Golovko</u> , D.P. Anderson, D. Ovoshchnikov, B. Donoeva, S. Ghadamgahi, R. Adnan, MacDiarmid Institute for Advanced Materials and Nanotechnology, University of Canterbury, Christchurch/NZ; G.F. Metha, J.F. Alvino, University of Adelaide/AUS; G. Andersson, Flinders University, Adelaide/AUS; S. Chang, Monash University, Melbourne/AUS

PS no	ID	DAY	PAPER TITLE / AUTHORS
PS.08	1331	02.07.2012	New insights into the hydrogen effect on SCR over Ag/Al₂O₃ for lean NO_x reduction S. Tamm, M. Skoglundh, L. Olsson, Chalmers University of Technology, Göteborg/S
PS.08	1417	02.07.2012	Enhancement on activity and sulfur resistance over novel catalyst CeO₂/TiO₂-SiO₂ for NH₃-SCR of NO C.X. Liu, L. Chen, H.R. Arandiyana, L. Ma, J.H. Li, Tsinghua University, Beijing/PRC
PS.08	1621	02.07.2012	A novel SO₂ resistant catalyst for NH₃-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
PS.08	7186	02.07.2012	Effect of pretreatment and morphology on the activity and durability of CHA-based catalysts in the the NH₃-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
PS.08	7784	02.07.2012	Is NO oxidation to NO₂ the rate determining step of the Standard SCR reaction? M.P. Ruggeri, I. Nova, E. Tronconi, Politecnico di Milano/I
PS.08	7959	02.07.2012	Challenging zeolites in structured reactors for SCR of NO_x 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. Kolaczowski, University of Bath/UK; J. Lojewska, Jagiellonian University, Krakow/PL
PS.08	7978	02.07.2012	Enhanced SCR over Supported V-W/TiO₂-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

PS no	ID	DAY	PAPER TITLE / AUTHORS
PS.09	1272	02.07.2012	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
PS.09	1436	02.07.2012	Transient studies of low temperature dry reforming of methane over Ni-CaO/ZrO₂-La₂O₃ 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
PS.09	1444	02.07.2012	In situ characterization of LaNi_{1-x}Co_xO₃ perovskite active for CH₄ reforming reactions R. Perefiguez, University of Seville/E; V.M. Gonzalez-Delacruz, F. Ternero, J.P. Holgado, CSIC, Sevilla/E; A. Caballero, University of Seville/E
PS.09	1469	02.07.2012	Mechanism of CH₄ 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
PS.09	1786	02.07.2012	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
PS.09	2008	02.07.2012	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
PS.09	7477	02.07.2012	Insight into methane steam reforming over a nickel catalyst by partial pressure variation and isotopic labelling experiments C. Sprung, University of Oslo/N; B. Arstad, Sintef, Oslo/N; U. Olsbye, University of Oslo/N
PS.09	7689	02.07.2012	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
PS.09	7955	02.07.2012	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
PS.09	7964	02.07.2012	Improving the lifetime of Ni-based reforming catalysts by addition of noble metal promoters F. Morales Cano, M. Skov Skjøth-Rasmussen, Haldor Topsøe A/S, Lyngby/DK

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PS.10	1021	02.07.2012	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
PS.10	1246	02.07.2012	Activity of chitosan-stabilized Au-Pd-TiO₂ catalyst in liquid phase selective oxidation of toluene Z. Suo, Y. Li, W. Liao, M. Jin, Yantai University/PRC
PS.10	2009	02.07.2012	Liquid phase oxidation of tetralin with H₂O₂ over modified MCM41 and SBA15 mesoporous catalysts A. Bangó, J. Halász, University of Szeged/H
PS.10	6703	02.07.2012	Oxidation benzene to p-quinone with H₂O₂ catalysed by the '[Mn₂L₂O₃]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
PS.10	7557	02.07.2012	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 Stuttgart/D
PS.10	7561	02.07.2012	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 Beijing/PRC

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PS.11	1610	02.07.2012	H₂ production via photocatalytic reforming of methanol and biomass on TiO₂ with tuned phase structure Y. Ma, Q. Xu, X. Zong, D.E. Wang, X. Wang, C. Li, Dalian Institute of Chemical Physics/PRC
PS.11	1726	02.07.2012	Plasmonic metal/semiconductor composite as an efficient visible light photocatalyst: water splitting on composite of plasmonic Ag and N-TiO₂ D.B. Ingram, S. Linic, University of Michigan, Ann Arbor, MI/USA
PS.11	1930	02.07.2012	Photoactivity of TiO₂ 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
PS.11	6614	02.07.2012	Photodecomposition of formic acid on N-doped and metal promoted TiO₂; Production of CO-free H₂ G. Halasi, G. Schubert, F. Solymosi, University of Szeged/H
PS.11	6777	02.07.2012	Nano Au-N TiO₂ composites: visible light photocatalyst for hydrogen generation and oxidation reactions K. Sivaranjani, C.S. Gopinath, National Chemical Laboratory, Pune/IND
PS.11	6791	02.07.2012	Improvement of TiO_x/SBA-15 for photocatalytic applications by the addition of ZnO and Au B. Mei, A. Becerikli, A. Pougine, D. Heeskens, I. Sinev, F. Oropeza, M. Muhler, J. Strunk, Ruhr-Universität Bochum/D
PS.11	7070	02.07.2012	The effect of Pt incorporation on photocatalytic hydrogen production from ethanol over Pt/TiO₂ J. Arenales, I.D. Gonzalez, Instituto de Catalisis y Petroleoquímica, Madrid/E; J.L.G. Fierro, R.M. Navarro, Instituto de Catalisis y Petroleoquímica, Madrid/E
PS.11	7394	02.07.2012	Photocatalytic enhancement of thermally-driven reactions: photothermal CO-oxidation over Au/TiO₂ T. Westrich, K. Dahlberg, J. Schwank, University of Michigan, Ann Arbor, MI/USA
PS.11	7461	02.07.2012	Direct functionalisation of benzene by acetonitrile with palladium-loaded titanium oxide photocatalyst H. Yoshida, Y. Fujimura, University of Nagoya/J
PS.11	7971	02.07.2012	CO₂ 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

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PS.12	1091	02.07.2012	Selective HDS of FCC gasoline: towards the experimental evidence of the structure properties relation for sulfide catalysts B. Baubet, E. Devers, A. Hugon, IFP Energies Nouvelles, Solaize/F; P. Afanasiev, IRCELyon, Villeurbanne/F
PS.12	1201	02.07.2012	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
PS.12	1858	02.07.2012	The relation between active phase morphology of CoMo catalysts prepared using chelating agents and its action in HDT of model FCC gasoline D.I. Ishutenko, P.A. Nikulshin, V.V. Konovalov, A.A. Pimerzin, Samara State Technical University/RUS
PS.12	6625	02.07.2012	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
PS.12	7066	02.07.2012	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
PS.12	7373	02.07.2012	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
PS.12	7391	02.07.2012	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
PS.12	7546	02.07.2012	CoMo/Al₂O₃ catalysts for deep hydrotreating of diesel fuel modified by TiO₂ и В 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
PS.12	7973	02.07.2012	Surface chemistry and catalysis of unsupported Mo-W-Ni sulfides J. Hein, A. Hrabar, O.Y. Gutiérrez, J.A. Lercher, TU München, Garching/D
PS.12	8030	02.07.2012	In situ synthesis of highly disperse and active MoS₂ on TiO₂-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

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PS.13	1326	03.07.2012	A remarkable confinement effect of mesoporous carbon supported cobalt catalysts for Fischer-Tropsch synthesis Y. Yang, L. Jia, B. Hou, D. Li, <u>Y. Sun</u> , Institute of Coal Chemistry, Taiyuan/PRC
PS.13	1538	03.07.2012	Mechanism of alkane transformation over zeolite containing Fischer-Tropsch catalysts O.N. Protasov, <u>D.A. Grigoryev</u> , M.N. Mikhailov, United Research and Development Centre, Moscow/RUS
PS.13	1992	03.07.2012	Effect of carbon nanotubes as a support for iron Fischer-Tropsch catalysts: structure and catalytic performance K. Keyvanloo, K.M. Brunner, <u>C.H. Bartholomew</u> , W.C. Hecker, Brigham Young University, Provo, UT/USA
PS.13	6669	03.07.2012	Higher alcohols synthesis from syngas over carbon-nanotube supported iron-chromium catalysts <u>Q. Wu</u> , 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
PS.13	6792	03.07.2012	Nitrogen- and oxygen-functionalized carbon nanotubes supported iron nanoparticles as highly active and selective catalysts in the high-temperature Fischer-Tropsch olefin synthesis <u>H. Schulte</u> , W. Xia, M. Muhler, Ruhr-Universität Bochum/D
PS.13	6995	03.07.2012	Production of middle distillates by low temperature Fischer Tropsch process: potential impact of oxygenate compounds on a hydrocracking catalyst A.S. Guedes, <u>C. Fontaine</u> , University of Poitiers/F; C. Bouchy, IFP Energy nouvelles, Lyon/F; S. Brunet, University of Poitiers/F
PS.13	7035	03.07.2012	Highly selective bifunctional Fischer-Tropsch catalysts based on mesoporous zeolites K. Cheng, L. Zhang, Q. Zhang, <u>Y. Wang</u> , Xiamen University/PRC; J. Kang, Y. Lou, W. Hua, J. Ding, Yantai Wanhua Polyurethanes Co./PRC
PS.13	7547	03.07.2012	Co/Al-SBA-15 for controlling the product distribution of Fischer-Tropsch synthesis <u>Y.-H. Zhao</u> , Q.-Q. Hao, Z.-T. Liu, J. Lu, Z.-W. Liu, Shaanxi Normal University, Xi'an/PRC
PS.13	8064	03.07.2012	Synthesis of CeO₂ and mixed oxides for the isosynthesis reaction <u>M. Schmal</u> , R.C.R. Neto, Federal University of Rio de Janeiro/BR

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PS.14	1430	03.07.2012	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
PS.14	1556	03.07.2012	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
PS.14	6682	03.07.2012	Computational insight into the failure of paring mechanism in the methanol-to-olefins conversion C.M. Wang, Y.D. Wang, H.X. Liu, Z.K. Xie, Shanghai Research Institute of Petrochemical Technology-SINOPEC/PRC
PS.14	6688	03.07.2012	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
PS.14	6822	03.07.2012	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
PS.14	6910	03.07.2012	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
PS.14	7050	03.07.2012	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
PS.14	7513	03.07.2012	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
PS.14	7527	03.07.2012	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
PS.14	7612	03.07.2012	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
PS.14	7671	03.07.2012	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
PS.14	7880	03.07.2012	High activity of low-silica AIPO-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
PS.14	7888	03.07.2012	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
PS.14	7905	03.07.2012	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

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PS.15	2072	03.07.2012	Preparation of contamination free single-crystal α-Al₂O₃ (sapphire) substrates with well-defined step-terrace structures D. Zhang, Y. Gan, Harbin Institute of Technology/PRC
PS.15	2084	03.07.2012	Molybdenum-titanium mixed oxide films as model catalysts O. Karslioglu, H. Kuhlbeck, H.J. Freund, Fritz-Haber-Institute, Berlin/D
PS.15	6892	03.07.2012	Dynamics of truly monodisperse cluster catalysts under the STM Y. Fukamori, M. König, B. Wang, F. Esch, U. Heiz, TU München/D
PS.15	6903	03.07.2012	Atomically-resolved stages in the growth of RuO₂(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
PS.15	7280	03.07.2012	An <i>in-situ</i> 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
PS.15	7286	03.07.2012	Atomic-scale characterization of single-layer nanoclusters in a WS₂ model catalyst H.G. Führtbauer, 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
PS.15	8048	03.07.2012	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

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PS.16	2059	03.07.2012	Investigation of SiW heteropoly compounds - the active components of the catalysts of partial oxidative conversion of C₁-C₂ 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
PS.16	2068	03.07.2012	Heteropolyacid materials with Keggin structure for selective methanol dehydration to dimethyl ether (DME) R. Ladera, S. Rojas, J.M. González-Carballo, J.L.G. Fierro, M. Ojeda, CSIC, Madrid/E
PS.16	6608	03.07.2012	Scanning tunneling microscopy and tunneling spectroscopy study of H₆P₂Mo_xW_{18-x}O₆₂ (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
PS.16	7333	03.07.2012	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
PS.16	7452	03.07.2012	Changes in surface acidity of H₄SiW₁₂O₄₀/SiO₂ in relation to the loading amount Y. Kamiya, J. Zhang, M. Kanno, Y. Wang, H. Nishi, Y. Miura, Hokkaido University, Sapporo/J

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PS.17	1070	03.07.2012	RuCl₂L₂-(2-PyCH) complex as catalysts for crotonaldehyde hydrogenation under homogeneous and heterogeneous conditions G. Benítez, L.A. Vargas, <u>A.E. Ramírez</u> , University of Cauca, Popayán/CO; H.A. Rojas, J.G. Martínez, Universidad Pedagógica y Tecnológica de Colombia, Tunja/CO; F. Cuenú, University of Quindío, Armenia/CO
PS.17	1386	03.07.2012	Supported ionic liquid phase (SILP) catalysis in continuous gas-phase hydroformylation: influence of gas solubility on supported catalyst systems <u>A. Schoenweiz</u> , 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
PS.17	1410	03.07.2012	Catalytic production of nitriles in batch and continuous flow systems <u>E. Corker</u> , U.V. Mentzel, R. Fehrmann, A. Riisager, Technical University of Denmark, Kgs. Lyngby/DK
PS.17	1423	03.07.2012	Iridium-catalyzed asymmetric hydrogenation using ionic liquids and supercritical carbon dioxide <u>P. Schmitz</u> , G. Franciò, W. Leitner, RWTH Aachen University/D; P.G. Andersson, X. Quan, Uppsala University/S
PS.17	1615	03.07.2012	Modular, immobilisable and sterically encumbered carbene ligands applied to the Suzuki-Miyaura reaction <u>J.L. Krinsky</u> , C. Godard, S. Castellón, C. Claver, Universidad Rovira i Virgili, Tarragona/E
PS.17	1776	03.07.2012	Cross-linked xylose isomerase crystals as an heterogeneous enzyme catalyst <u>K. Vilonen</u> , R. Karinen, J. Linnekoski, O. Krause, Aalto University School of Chemical Technology/FIN
PS.17	6690	03.07.2012	Supported metallocene onto multi-morphological mesoporous materials for polymerization of ethylene <u>Y. Kang</u> , M. Zhang, J. Jiang, Beijing Research Institute of Chemical Industry-SINOPEC/PRC
PS.17	7790	03.07.2012	Ionic liquid film distribution in SILP catalysts determined by solid state NMR studies A. Schönweiz, University of Erlangen-Nürnberg/D; <u>M. Haumann</u> , University of Erlangen-Nürnberg-Campus Busan/ROK; H. Breitzke, G. Buntkowsky, TU Darmstadt/D
PS.17	7926	03.07.2012	TS-1 zeolite membranes on integrated reactors for sustainable chemical production <u>M. Palomino</u> , A. Prieto, U. Díaz, A. Corma, Institute of Chemical Technology (UPV-CSIC), Valencia/E

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PS.18	1047	03.07.2012	High-performance supported Pt catalyst for the water gas shift reaction in a membrane reactor <u>C. Cornaglia</u> , J. Múnera, E. Lombardo, National University of the Littoral, Santa Fe/RA
PS.18	1069	03.07.2012	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, <u>F.H. Ribeiro</u> , M.C. Akatay, E.A. Stach, Purdue University, West Lafayette, IN/USA; J.T. Miller, Argonne National Laboratory, IL/USA
PS.18	1601	03.07.2012	Molecular-level understanding of the kinetic role of CO₂ in reforming processes on Rh <u>M. Maestri</u> , Politecnico di Milano/I; K. Reuter, TU München/D
PS.18	1607	03.07.2012	Redox vs associative formate with -OH group regeneration WGS reaction mechanism on Pt/CeO₂: effect of platinum particle size C.M. Kalamaras, A.M. Efstathiou, University of Cyprus, Nicosia/CY
PS.18	1766	03.07.2012	In situ XANES and DRIFTS studies on platinum nanoparticles supported in ceria-alumina under water gas shift reaction <u>R.U. Ribeiro</u> , 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
PS.18	7003	03.07.2012	Efficient bimetallic Pt-Re catalyst for single stage water gas shift conversion K.G. Azzam, B.L. Mojet, L. Lefferts, <u>K. Seshan</u> , University of Twente, Enschede/NL
PS.18	7901	03.07.2012	Influence of basicity of Cu-based mixed oxide catalysts on the catalytic activity of water-gas-shift reaction <u>K. Sagata</u> , N. Imazu, H. Yahiro, Ehime University, Matsuyama/J

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PS.19	1292	03.07.2012	Extremely active Pd@pSiO₂ 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
PS.19	1318	03.07.2012	Highly dispersed Pd catalyst in knitting aryl network polymers for Suzuki-Miyaura coupling reaction of aryl chlorides Z. Guan, B. Li, X. Yang, J. Hu, B. Tan, T. Li, Huazhong University of Science and Technology, Wuhan/PRC
PS.19	1387	03.07.2012	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
PS.19	1463	03.07.2012	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
PS.19	1821	03.07.2012	Chiral ferrocenes in Suzuki-Miyaura C,C-couplings D. Schaarschmidt, H. Lang, TU Chemnitz/D
PS.19	1872	03.07.2012	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
PS.19	2070	03.07.2012	On iron catalysis for the activation of C-Cl, C-O, and C-H bonds A. Jacobi von Wangelin, University of Regensburg/D
PS.19	6846	03.07.2012	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
PS.19	6905	03.07.2012	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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PS.20	1089	03.07.2012	Excellent catalytic activity of Pt-TiO₂/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
PS.20	1115	03.07.2012	Methanol electrooxidation on Pt/Mn₃O₄-MWNT A. Nouralishahi, Y. Mortazavi, A.A. Khodadadi, University of Tehran/IR; A.M. Rashidi, Research Institute of Petroleum Industry, Tehran/IR
PS.20	1129	03.07.2012	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. Gucci, Institute of Isotopes HAS, Budapest/H; A. Tompos, Z. Paszti, I. Sajo, Chemical Research Center HAS, Budapest/H
PS.20	1995	03.07.2012	Cobalt porphyrin-tungsten polyoxometalate anion as non-noble metal cathode catalyst in a fuel cell M. Nagai, M. Shirakura, K. Suzuki, H. Tominaga, Tokyo University of Agriculture and Technology, Koganei/J
PS.20	6602	03.07.2012	Electrochemical parameters of microbial fuel cell developed on the basis of adhered glycerol-oxidizing bacteria and Ni/graphite anode coated by catalytic filamentous carbon G.A. Kovalenko, L.V. Perminova, Borekov Institute of Catalysis, Novosibirsk/RUS; L.G. Tomashevskaya, A.N. Reshetilov, Skryabin Institute of Biochemistry and Physiology of Microorganisms, Pushchino/RUS
PS.20	7388	03.07.2012	Nano-sized nitrides for oxygen reduction reaction catalysts R. Ohnishi, M. Katayama, J. Kubota, K. Domen, University of Tokyo/J; K. Takanebe, KAUST Catalysis Center, Jeddah/SAR
PS.20	7534	03.07.2012	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. Takanebe, KAUST, Thuwal/SAR; J. Kubota, K. Domen, University of Tokyo/J

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PS.21	1213	04.07.2012	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
PS.21	1509	04.07.2012	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
PS.21	1760	04.07.2012	Effect of high temperature pre-treatments on hydrocarbon reactions over acid zeolites J.H. Yun, R.F. Lobo, University of Delaware, Newark, DE/USA
PS.21	2107	04.07.2012	Enthalpic and entropic factors as predictive criteria for rates and selectivities in zeolite acid catalysis R. Gounder, E. Iglesia, University of California, Berkeley, CA/USA
PS.21	7279	04.07.2012	Impact of entropic contributions on the selectivity of alkane cracking L. Lin, E. Ember, J.A. Lercher, TU München, Garching/D
PS.21	7360	04.07.2012	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
PS.21	7571	04.07.2012	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
PS.21	7627	04.07.2012	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
PS.21	7935	04.07.2012	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
PS.21	8139	04.07.2012	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

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PS.22	1108	04.07.2012	Production of propylene from an unconventional metathesis of ethylene and 2-pentene over rhenium-based catalysts J. Panpranot, <u>W. Phongsawat</u> , Chulalongkorn University, Bangkok/THA; K. Suriye, SCG Chemicals Co., Ltd., Bangkok/THA
PS.22	1251	04.07.2012	Metathesis reaction of 1-butene and isobutene over Mo-based heterogeneous catalysts: a novel route to produce propene and isopentene <u>D. Zhang</u> , X. Li, S. Liu, X. Zhu, L. Xu, Dalian Institute of Chemical Physics/PRC
PS.22	1390	04.07.2012	Effect of mixed 2-butene on metathesis reaction of 2-butene and ethylene over tungsten catalyst <u>N. Poovarawan</u> , Chulalongkorn University, Bangkok/THA; K. Suriye, SCG Chemicals Co. Ltd., Bangkok/THA; P. Prasertdam, Chulalongkorn University, Bangkok/THA
PS.22	1762	04.07.2012	Direct conversion of ethene to propene over nickel on mesoporous silica <u>A.S. Frey</u> , O. Hinrichsen, TU München/D
PS.22	1986	04.07.2012	High selectivity production of propylene from butenes over W-H/Al₂O₃ olefin metathesis catalyst E. Mazoyer, K.C. Szeto, S. Norsic, A. Garron, CPE Lyon CNRS, Villeurbanne/F; J.-M. Basset, KAUST, Thuwal/SAR; <u>C.P. Nicholas</u> , UOP - A Honeywell Company, Des Plaines, IL/USA; M. Taoufik, CPE Lyon CNRS, Villeurbanne/F
PS.22	2091	04.07.2012	Immobilization of indenylidene ruthenium catalysts on silica supported MAO for ring opening metathesis polymerization <u>F. Hamad</u> , F. Verpoort, Ghent University/B
PS.22	2094	04.07.2012	Mechanism of the isomerisation and metathesis of alkanes over mixed binuclear complexes of aluminum and cobalt halides <u>M.I. Shilina</u> , I.P. Glorizov, G.M. Zhidomirov, M.V. Lomonosov Moscow State University/RUS
PS.22	6895	04.07.2012	Hydro-metathesis of olefins: a new highly efficient reaction catalyzed by a bifunctional single-site system Ta-H/KCC1 V. Polshettiwar, KAUST, Thuwal/SAR; M. Taoufik, F. Stoffelbach, CNRS, Villeurbanne/F; J.-M. Basset, KAUST, Thuwal/SAR; <u>J. Thivolle-Cazat</u> , CNRS, Villeurbanne/F
PS.22	7596	04.07.2012	Structure and catalysis of silica-supported molybdenum oxide <u>K. Amakawa</u> , Fritz-Haber-Institute, Berlin/D; M. Hävecker, Helmholtz-Zentrum Berlin/D; J. Kröhnert, R. Schlögl, A. Trunschke, Fritz-Haber-Institute, Berlin/D
PS.22	7804	04.07.2012	Well-defined tungsten oxo alkyl derivatives supported on silica as models of WO₃/SiO₂ olefin metathesis catalyst M. Mazoyer, <u>N. Merle</u> , 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

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PS.23	1014	04.07.2012	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
PS.23	1421	04.07.2012	Effects of water in liquid-phase hydrogenation of benzonitrile in dense phase CO₂ over Pd/Al₂O₃ catalyst H. Yoshida, Y. Wang, S. Fujita, M. Arai, Hokkaido University, Sapporo/J
PS.23	2001	04.07.2012	Pt-Fe catalysts prepared by galvanic replacement of SiO₂-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
PS.23	6728	04.07.2012	BASF's NanoSelect™ technology: innovative supported Pd and Pt based nanocatalysts for selective hydrogenations P. Witte, BASF, De Meern/NL
PS.23	6739	04.07.2012	Ag@CeO₂ core-shell nanostructured catalyst for complete chemoselective reductions T. Mitsudome, Y. Mikami, M. Matoba, T. Mizugaki, K. Jitsukawa, K. Kaneda, Osaka University/J
PS.23	6839	04.07.2012	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
PS.23	7014	04.07.2012	Hydrogenation of 2-ethylanthraquinone using Pd-zeolites X. Chen, T. Li, A. Kogelbauer, Imperial College London/UK
PS.23	7076	04.07.2012	Hydrogenation of nitro-substituted acetophenones E.G. Allardice, K. Girling, S.D. Jackson, R.R. Spence, University of Glasgow/UK
PS.23	7314	04.07.2012	Unsupported and supported copper and gold for the liquid phase hydrogenation of cinnamaldehyde V. Gutierrez, Planta Piloto de Ingenieria Química, Bahia Blanca/RA; F. Nador, A. Diez, Instituto de Química del Sur, Bahia Blanca/RA; G. Radivoy, Instituto de Química del Sur, Bahia Blanca/RA; M. Volpe, Instituto de Química del Sur, Bahia Blanca/RA
PS.23	7383	04.07.2012	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
PS.23	7508	04.07.2012	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
PS.23	7556	04.07.2012	Novel manganese oxide and Pt/manganese oxide catalysts for selective hydrogenation of α,β-unsaturated aldehydes and ketones H. Manyar, H. Daly, H. Moor, Queen's University, Belfast/UK; A. Gouget, Queen's University, Belfast/UK; C. Hardacre, Queen's University, Belfast/UK
PS.23	7934	04.07.2012	Catalytic hydrogenation of 2,4-dinitrotoluene to 2,4-diaminotoluene over sponge nickel catalysts in a continuous stirred tank reactor system N. Marin-Astorga, J.M. Farmer, S.L. McMahon, B.M. Lacey, Johnson Matthey Catalysts, Sevierville, TN/USA; R. Augustine, G. Alvez-Manoli, S. Tanielyan, Seton Hall University, South Orange, NJ/USA
PS.23	8135	04.07.2012	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

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PS.24	1034	04.07.2012	Enhanced photocatalytic activity for the degradation of Rhodamine B by TiO₂ modified with Gd₂O₃ 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
PS.24	1100	04.07.2012	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
PS.24	1298	04.07.2012	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
PS.24	1375	04.07.2012	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
PS.24	7347	04.07.2012	Optimized bimetallic Pd_xPt_{1-x}/TiO₂ 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
PS.24	7369	04.07.2012	ZnO/mesoporousSiO₂ 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
PS.24	7537	04.07.2012	Advances in photocatalysis at the frontier of microbiology. From fundamental insights to the design of LED-based photocatalytic air purifier G. Carré, Strasbourg University/Strasbourg 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
PS.24	7908	04.07.2012	Photocatalytic removal of organic pollutants on mesoporous carbon nitride under visible light irradiation L. Yuliatj, S.C. Lee, H.O. Lintang, Universiti Teknologi Malaysia, Johor/MAL
PS.24	7944	04.07.2012	Hybridisation of zeolites with anocarbons 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
PS.24	8073	04.07.2012	Nanoengineering biomimetic TiO₂-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

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PS.25	1975	04.07.2012	Effect of Al contents on hydrocracking of <i>n</i>-paraffin over Pt/SiO₂-Al₂O₃ 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; <u>E.D. Park</u> , Ajou University, Suwon/ROK
PS.25	7500	04.07.2012	Hydrocracking under Fischer-Tropsch conditions <u>R. Brosius</u> , C. Ndimande, S. Roberts, W. Boehringer, J. Fletcher, University of Cape Town, Rondebosch/ZA
PS.25	7890	04.07.2012	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, <u>Z. Sobalik</u> , J. Heyrovsky Institute of Physical Chemistry, Prague/CZ
PS.25	7984	04.07.2012	New insights into the hydroisomerisation reaction mechanism <u>N. Batalha</u> , F. Lemos, TU Lisbon/P; L. Pinard, A. Le Valant, J.-L. Lemberton, Y. Pouilloux, University of Poitiers/F
PS.25	8152	04.07.2012	Effects of zeolite crystal thickness and platinum location for <i>n</i>-heptane hydroisomerization over Pt/MFI zeolite nanosheet J. Kim, <u>W. Kim</u> , R. Ryoo, Korea Advanced Institute of Science and Technology, Daejeon/ROK

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PS.26	1202	04.07.2012	Tandem hydroformylation-cyclization of limonene catalyzed by rhodium complexes and pyridinium <i>p</i>-toluenesulphonate <u>C.G. Vieira</u> , M.C. de Freitas, E.N. dos Santos, E.V. Gusevskaya, Federal University of Minas Gerais, Belo Horizonte/BR
PS.26	6684	04.07.2012	Supported amorphous Co-B catalysts for olefin hydroformylation <u>J.Y. Long</u> , L. Ma, H.M. Liu, D.H. He, Tsinghua University, Beijing/PRC
PS.26	6797	04.07.2012	Unexpected feature of homogeneous reactions - C₉-C₁₂ alkynes carbonylation S. Gorodsky, Moscow State Academy of Fine Chemical Technology/RUS
PS.26	6887	04.07.2012	Tunable solvent systems for catalyst recycling for the hydroformylation of long chain olefine <u>A. Rost</u> , T. Hamerla, M. Tietzmann, R. Schomäcker, TU Berlin/D
PS.26	7103	04.07.2012	Oxidative carbonylation of ethene catalyzed by Pd(II)-PPh₃ complexes in MeOH using benzoquinone as stoichiometric oxidant G. Cavinato, University of Padua/I; S. Facchetti, <u>L. Toniolo</u> , University of Venice/I
PS.26	7459	04.07.2012	Structure and kinetics of supported ionic liquid phase (SILP) rhodium catalysts in gas phase propene hydroformylation <u>D. Hanna</u> , S. Shylesh, S. Werner, A. Bell, University of California, Berkeley, CA/USA
PS.26	7915	04.07.2012	Hydroformylation of alkenes using heterogeneous catalyst based of mesoporous BaSO₄ <u>Y. Kardasheva</u> , A. Maximov, D. Losev, E. Karakhanov, Moscow State University/RUS

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PS.27	1022	04.07.2012	Alumina- and silica-supported iridium catalysts for the enantioselective hydrogenation of α-ketoesters A.B. Dongil, <u>B. Bachiller-Baeza</u> , I. Rodríguez-Ramos, ICP-CSIC, Madrid/E; A. Guerrero-Ruiz, UNED, Madrid/E; A. Baiker, C. Mondelli, ETH Zurich/CH
PS.27	1173	04.07.2012	Consecutive intermolecular hydroamination/asymmetric hydrogenation: cooperative transition metal and chiral Brønsted acid catalysis <u>S. Werkmeister</u> , S. Fleischer, S. Zhou, K. Junge, M. Beller, Leibniz Institute for Catalysis at the University of Rostock/D
PS.27	1383	04.07.2012	Kinetics and modeling in the enantioselective hydrogenation of ethyl benzoylformate using different solvents <u>G. Martin Curvelo</u> , P. Mäki-Arvela, D. Murzin, T. Salmi, Åbo Akademi University, Turku/FIN
PS.27	1664	04.07.2012	Dynamic kinetic resolution of acyloins using a chemo-enzymatic combination of heterogeneous catalysts <u>R. Nieguth</u> , M.B. Ansorge-Schumacher, TU Berlin/D
PS.27	6637	04.07.2012	Automated synthesis & screening of supramolecular catalysts A. Schnyder, Chemspeed Technologies AG, Augst/CH
PS.27	6716	04.07.2012	Nanocatalysts emerging from organometallic chemistry H. Bönemann, MPI for Coal Research, Mülheim/Ruhr/D; <u>G. Khelashvili</u> , Strem Chemicals, Inc., Newburyport, MA/USA
PS.27	6959	04.07.2012	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, <u>E. Pires</u> , Universidad de Zaragoza/E
PS.27	7451	04.07.2012	Dynamic properties of cinchona modifier adsorbed on Pd/C catalyst during enantioselective hydrogenation of α,β-unsaturated acid <u>T. Sugimura</u> , H. Ogawa, S. Tomatsuri, M. Nakatsuji, T.Y. Kim, T. Misaki, University of Hyogo/J
PS.27	7568	04.07.2012	Understanding chiral catalysis by Raman optical activity (ROA) and DFT calculation S. Qiu, G.N. Li, <u>G.Q. Jia</u> , Z.C. Feng, C. Li, Dalian Institute of Physical Chemistry/PRC
PS.27	8128	04.07.2012	Asymmetric hydrogenation of prochiral ketones with novel bisphosphine/diamine-Ru(II) complexes: Axially chiral diamines J.P. Ruelas-Leyva, V.M. Rivera, <u>G.A. Fuentes</u> , Universidad Autonoma Metropolitana Iztapalapa, Mexico D.F./MEX; C. Pérez-González, Universidad Autonoma Metropolitana Xochimilco, Mexico D.F./MEX

PS.28	1146	04.07.2012	Synthesis of Tantalum Nitride photocatalyst with core shell structures <u>D. Wang</u> , T. Takata, Y. Li, J. Kubota, K. Domen, University of Tokyo/J
PS.28	1630	04.07.2012	Influence of carbon content in molybdenum sulfides MoS_xC_y 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
PS.28	6889	04.07.2012	Band gap engineering of layered perovskite photocatalysts for visible-light induced water splitting R. Marschall, J. Soldat, M. Wark, Ruhr-Universität Bochum/D
PS.28	7231	04.07.2012	Photoelectrochemical water splitting on ordered layers of TiO₂ nanotubes for clean "solar" H₂ 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
PS.28	7635	04.07.2012	Photocatalytic H₂ 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
PS.28	7661	04.07.2012	Cu-Ga selenide photocathodes for water splitting T. Minegishi, J. Kim, M. Moriya, J. Kubota, K. Domen, The University of Tokyo/J
PS.28	7870	04.07.2012	A novel gas-phase photo-catalytic approach for H₂ production from water and biowastes C. Ampelli, C. Genovese, S. Perathoner, G. Centi, University of Messina/I

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PS.29	1329	04.07.2012	Catalytic combustion of chlorobenzene over different noble metal supported on CeO₂ nanorods H. Huang, X.Y. Wang, East China University of Science and Technology, Shanghai/PRC
PS.29	1596	04.07.2012	Stabilizing gold nanoparticles by low-content RuO₂ J. Jin, J. Fan, Zhejiang University, Hangzhou/PRC
PS.29	1725	04.07.2012	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
PS.29	2023	04.07.2012	Ruthenium dioxide as versatile oxidation catalyst in heterogeneous and electro-catalysis H. Over, University Giessen/D; M. Muhler, Ruhr-Universität Bochum/D
PS.29	6906	04.07.2012	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
PS.29	7408	04.07.2012	Binary oxide-doped Pt/RuO₂-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
PS.29	7791	04.07.2012	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
PS.29	8106	04.07.2012	In situ formation of [Ru₄(CO)₁₂H₄] in the catalytic decarboxylation of formic acid in the presence of RuCl₃ M. Czaun, A. Goepfert, R.B. May, M. Sax, J. Zhang, G.K.S. Prakash, G.A. Olah, University of Southern California, Los Angeles, CA/USA

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PS.30	1033	04.07.2012	Catalytic lignin valorisation process for the renewable production of chemicals and hydrogen <u>A.L. Jongerius</u> , J. Zakzeski, P.C.A. Bruijninx, B.M. Weckhuysen, University of Utrecht/NL
PS.30	1119	04.07.2012	Improved stability of Ru/TiO₂ catalysts for the conversion of phenolics from bio-oil S. Boonyasuwat, S. Wan, S.P. Crossley, R.G. Mallinson, <u>D.E. Resasco</u> , University of Oklahoma, Norman, OK/USA
PS.30	1499	04.07.2012	Selective oxidation of wood biomass derived lignan over gold catalysts <u>O.A. Simakova</u> , E.V. Murzina, P. Maki-Arvela, S. Willfor, J. Warna, D.Yu. Murzin, Abo Akademi University, Turku/FIN
PS.30	1514	04.07.2012	Selective conversion of lignin to chemicals via catalytic fast pyrolysis <u>Z. Ma</u> , E. Troussard, J.A. van Bokhoven, ETH Zurich/CH
PS.30	1828	04.07.2012	Selective hydrogenolysis of a lignin model compound into aromatic products over FeS₂-supported catalysts <u>N. Ji</u> , X. Wang, R. Rinaldi, Max Planck Institute for Coal Research, Mülheim/D
PS.30	6745	04.07.2012	Catalytic oxidative depolymerization of organosolv lignins <u>J. van Hal</u> , A. van Zomeren, The Energy Research Centre of the Netherlands (ECN), Petten/NL
PS.30	6901	04.07.2012	Catalytic cleavage of ether bonds in lignin model compounds using Ni based catalysts in water <u>J. He</u> , C. Zhao, J.A. Lercher, TU München, Garching/D
PS.30	7252	04.07.2012	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
PS.30	7288	04.07.2012	The influence of citric acid on the synthesis and activity of MoP and Ni₂P catalysts for hydrodeoxygenation <u>V.M.L. Whiffen</u> , K.J. Smith, University of British Columbia, Vancouver/CDN
PS.30	7380	04.07.2012	Hydrodeoxygenation of lignin-related compounds by supported platinum catalysts <u>H. Ohta</u> , H. Kobayashi, K. Hara, A. Fukuoka, Hokkaido University, Sapporo/J
PS.30	7450	04.07.2012	Hydrodeoxygenation of biomass-derived lignin monomer guaiacol over bifunctional catalysts <u>J. Yoon</u> , J.-W. Choi, J.-M. Ha, D. J. Suh, Korea Institute of Science and Technology, Seoul/ROK; H. Lee, Yonsei University, Seoul/ROK

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PS.31	1348	04.07.2012	NH₃-SCR over Cu-CHA: an operando study of the active site U. Deka, B.M. Weckhuysen, A.M. Beale, University Utrecht/NL
PS.31	1765	04.07.2012	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
PS.31	6754	04.07.2012	Thermal and composition effects on the structure and dynamics of Pt_nSn_m/g-Al₂O₃ from <i>ab initio</i> 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
PS.31	6962	04.07.2012	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
PS.31	7486	04.07.2012	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. Schaueremann, H.-J. Freund, Fritz-Haber-Institute, Berlin/D
PS.31	7848	04.07.2012	Understanding the electronic and chemical properties in bimetallic nanoparticles for H₂ 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
PS.31	8058	04.07.2012	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
PS.31	8087	04.07.2012	Role of gold in the reduction and crystallization processes of iron oxides investigated by dispersive XANES and XRD S.A. Jimenez-Lam, Instituto Tecnológico 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 Tecnológico de Celaya/MEX
PS.31	8119	04.07.2012	<i>In situ</i> 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
PS.31	8145	04.07.2012	<i>In situ</i> Pd nanoparticles formation inside highly cross-linked polymers: the effect of polymer matrix and reducing agent E. Groppo, G. Agostini, W. Liu, E. Borfecchia, University of Turin/I; F. Giannici, University of Palermo/I; A. Longo, CNR, Palermo/I; G. Portale, ESRF, Grenoble/F; C. Lamberti, University of Turin/I

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PS.32	1068	04.07.2012	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; <u>E.V. Gusevskaya</u> , Universidade Federal de Minas Gerais, Belo Horizonte/BR
PS.32	1585	04.07.2012	Sub-5nm, Au-Pd bimetallic nanoparticles with variable surface composition and catalytic activity via confined inter-particle hetero-atom migration <u>Y. Tang</u> , Y. Dai, S. Xu, J. Fan, Zhejiang University, Hangzhou/PRC
PS.32	1663	04.07.2012	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; <u>P.J. Miedziak</u> , 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
PS.32	1702	04.07.2012	Catalytic activity of gold-palladium nanoalloys immobilized in spherical polyelectrolyte brushes <u>J. Kaiser</u> , Y. Lu, M. Ballauff, Helmholtz-Zentrum Berlin/D
PS.32	1723	04.07.2012	On the promoting effect of Au on CO oxidation kinetics of Au-Pt bimetallic nanoparticles supported on SiO₂: an electronic effect? R. Doherty, C. Thomas, J.-M. Krafft, C. Méthivier, <u>C. Louis</u> , CNRS-Université Pierre et Marie Curie, Paris/F; H. Remita, CNRS-Université Paris-Sud, Orsay/F
PS.32	1815	04.07.2012	Gold catalysts with tunable catalytic properties: nanoporous gold as a platform for a catalytic building-block design A. Wichmann, A. Wittstock, K. Frank, B. Neumann, A. Rosenauer, <u>M. Baeumer</u> , University of Bremen/D
PS.32	6696	04.07.2012	Restructuring of gold nanoparticle on ceria nanorods <u>N. Ta</u> , 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
PS.32	6781	04.07.2012	Synergistic combination of tight-coupled Pd-Au bimetallic nanoparticles for methane combustion X.N. Guo, <u>X.Y. Guo</u> , Institute of Coal Chemistry, Taiyuan/PRC
PS.32	7217	04.07.2012	Gold nanorods stabilized by a mesoporous silica layer <u>A.J. van de Glind</u> , A. Imhof, A. van Blaaderen, P.E. de Jongh, K.P. de Jong, Utrecht University/NL
PS.32	8032	04.07.2012	Stabilising metal nanocatalysts via alloying Y. Lai, S. Liang, A. Cao, <u>G. Veser</u> , University of Pittsburgh, PA/USA

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PS.33	1079	05.07.2012	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
PS.33	1088	05.07.2012	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
PS.33	1415	05.07.2012	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
PS.33	1651	05.07.2012	Design of metal-organic framework catalysts using mixed linkers and post-synthetic modification W. Kleist, M.A. Gotthardt, Karlsruhe Institute of Technology (KIT)/D
PS.33	1885	05.07.2012	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
PS.33	2027	05.07.2012	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

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PS.34	1031	05.07.2012	Mo₂C/Al₂O₃ as catalyst for the hydrotreating of sunflower oil V. Teixeira da Silva, L. Sousa, Federal University of Rio de Janeiro/BR
PS.34	1053	05.07.2012	Gas-phase deoxygenation and hydrogenation of propionic acid on heteropoly acid catalysts M. Alotaibi, E.F. Kozhevnikova, I.V. Kozhevnikov, University of Liverpool/UK
PS.34	1662	05.07.2012	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
PS.34	1751	05.07.2012	Structure of Ni and Mo and their role in hydrotreating catalysts for deoxygenation of rapeseed oil P. Prielcel, L. Capek, University of Pardubice/CZ; D. Kubicka, Research Institute of Inorganic Chemistry, Litvínov/CZ
PS.34	1959	05.07.2012	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
PS.34	2053	05.07.2012	Catalytic cracking of vegetable oil over γ-Al₂O₃ supported metal oxides (V₂O₅, NiO, MoO₃, Fe₃O₄, Co₃O₄) P.E. Strizhak, A.I. Trypolskyi, M.M. Goncharenko, L.V. Pisarzhevsky Institute of Physical Chemistry of the NAS of Ukraine, Kyiv/UA
PS.34	6836	05.07.2012	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
PS.34	7191	05.07.2012	Acidolysis of triglycerides using heterogeneous acid catalysts A. Avila, D. Damiani, G. Tonetto, National University of the South, Bahía Blanca/RA
PS.34	7272	05.07.2012	Selective transformation of microalgae oil to diesel range alkanes with Ni/ZrO₂ catalysts B. Peng, C. Zhao, J.A. Lercher, TU München/D
PS.34	7670	05.07.2012	Alkane production as high quality fuel components from vegetable oil T. Kuchling, M. Endisch, H. Wollmerstädt, S. Kureti, TU Bergakademie Freiberg/D

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PS.35	1175	05.07.2012	Ethylene oligomerisation using heterogeneous catalysts consisting of bis(imino)pyridineiron complex and fluorotetrasilicic mica <u>H. Kurokawa</u> , T. Kondo, Y. Nakazato, M. Ohshima, H. Miura, University of Saitama/J; K. Yamamoto, T. Sakuragi, Japan Polychem Corporation, Yokkaichi/J
PS.35	1200	05.07.2012	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; <u>P. Serp</u> , University of Toulouse/F
PS.35	1270	05.07.2012	A well-defined, silica-supported organochromium catalyst for ethylene polymerisation models the Phillips catalyst <u>S. Grundner</u> , L. Zhong, S.L. Scott, University of California, Santa Barbara, CA/USA
PS.35	1431	05.07.2012	Ethylene oligomerization on PdO/SO₄²⁻-ZrO₂ <u>L.F. Sayfulina</u> , E.A. Buluchevskii, A.V. Lavrenov, Institute of Hydrocarbons Processing of SB of RAS, Omsk/RUS
PS.35	1501	05.07.2012	Kinetic of ethylene oligomerization in gas and liquid phases on NiO/B₂O₃-Al₂O₃ catalyst <u>A. Volkov</u> , Institute of Hydrocarbons Processing SB RAS, Omsk/RUS; E. Buluchevskii, A. Lavrenov, Institute of Hydrocarbons Processing SB, Omsk/RUS
PS.35	6843	05.07.2012	Aryloxo titanium and zirconium complexes and their application for the production of short chains linear alpha-olefins (LAOs) F. Grasset, <u>L. Magna</u> , H. Olivier-Bourbigou, IFP Energies Nouvelles, Solaize/F; P. Braunstein, University of Strasbourg/F
PS.35	6949	05.07.2012	The role of chlorine in a catalyst system for the selective trimerisation of ethylene <u>A. Wöhl</u> , 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
PS.35	7336	05.07.2012	Mechanism of propene oligomerisation over Ni-Na-X zeolites <u>A.N. Mlinar</u> , P.M. Zimmerman, A.T. Bell, University of California, Berkeley, CA/USA
PS.35	7559	05.07.2012	Ethylene trimerisation over organosilane-modified zirconia <u>Y. Imizu</u> , S. Kobayash, H. Morikawa, H. Yamada, Kitami Institute of Technology/J
PS.35	8143	05.07.2012	Enhancing initial polymerization rate of the reduced Phillips catalyst by one order of magnitude <u>E. Groppo</u> , University of Turin/I; A. Damin, University of Turin/I; C. Otero Arean, University of Balearic Islands, Palma de Mallorca/E; A. Zecchina, University of Turin/I

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PS.36	1263	05.07.2012	The study of mechanisms of 1,3-butadiene and 1-butyne hydrogenation on Pt and Pd supported catalysts by parahydrogen induced polarization <u>D.A. Barskiy</u> , K.V. Kovtunov, I.V. Koptuyug, International Tomography Center SB RAS, Novosibirsk/RUS; I.E. Beck, V.I. Bukhtiyarov, Borekov Institute of Catalysis SB RAS, Novosibirsk/RUS
PS.36	6800	05.07.2012	Enhanced in situ MAS NMR for investigation of porous materials and catalytic kinetics <u>W. Zhang</u> , Dalian University of Technology/PRC; S. Xu, X. Han, X. Bao, Dalian Institute of Chemical Physics/PRC
PS.36	7155	05.07.2012	Probing adsorption via NMR relaxometry: towards obtaining adsorbate configuration under reaction conditions <u>P. Arias-Vecino</u> , M. Lutecki, K.M. Song, J. Mitchell, J. McGregor, L.F. Gladden, University of Cambridge/UK
PS.36	7179	05.07.2012	Extended QM and QM-QM' study of Al^{III} and Al^{IV} species grafted on dehydroxylated β-cristobalite support- comparison between theoretical and experimental ²⁷Al NMR <u>R.N. Kerber</u> , X. Rozanska, F. Delbecq, T. Kerber, P. Fleurat-Lessard, P. Sautet, Ecole Normale Supérieure de Lyon (ENS)/F
PS.36	7980	05.07.2012	Catalytic activity of sulfonic acid-functionalised periodic mesoporous benzenesilica explained by advanced solid state NMR R. Siegel, E. Domingues, <u>C. Bispo</u> , P. Ferreira, L. Mafra, University of Aveiro/P; R. De Sousa, C.M. Morais, F. Jérôme, N. Bion, University of Poitiers/F
PS.36	8038	05.07.2012	Stability of Al in the framework of ZSM-5. Multi-spectroscopic study of the formation of framework Lewis acid sites <u>J. Dedecek</u> , B. Wichterlova, Z. Tvaruzkova, Z. Sobalik, H. Jirglova, M. Urbanova, J.

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PS.37	1450	05.07.2012	A highly active and durable catalyst for the production of EG from cellulose <u>Z. Tai</u> , A. Wang, M. Zheng, T. Zhang, Dalian Institute of Chemical Physics/PRC
PS.37	1640	05.07.2012	Controllable conversion of cellulose into propylene glycol and ethylene glycol on Ru catalyst promoted by tungsten trioxide Y. Liu, C. Luo, <u>H. Liu</u> , University of Beijing/PRC
PS.37	1707	05.07.2012	Catalytic liquefaction of lignocellulosic biomass in hot compressed water <u>P. Patil</u> , U. Armbruster, A. Martin, Leibniz Institute for Catalysis at the University of Rostock/D
PS.37	7108	05.07.2012	Solvent-free, mechanocatalytic depolymerization of cellulose N. Meine, <u>R. Rinaldi</u> , F. Schüth, Max-Planck-Institut für Kohlenforschung, Mülheim an der Ruhr/D
PS.37	7378	05.07.2012	Low-pressure hydrolytic hydrogenation of cellulose to sugar alcohols by supported ruthenium catalysts <u>H. Kobayashi</u> , T. Komanoya, K. Hara, A. Fukuoka, Hokkaido University, Sapporo/J
PS.37	7549	05.07.2012	Selective hydrolysis of cellulose into glucose by new methods using water vapor <u>A. Onda</u> , Y. Iida, K. Yanagisawa, Kochi University/J
PS.37	7630	05.07.2012	In-situ spectroscopic determination of catalytic cellulose depolymerisation <u>A. Kunov-Kruse</u> , R. Fehrmann, A. Riisager, TU Denmark, Lyngby/DK

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PS.38	1049	05.07.2012	Mechanistic insights for the catalytic transformation of glycerol <u>C. Michel</u> , J. Zaffran, F. Delbecq, Ph. Sautet, CNRS-ENSL, Lyon/F; F. Auneau, CNRS-ENSL-IRCELYON, Lyon/F; C. Pinel, CNRS - IRCELYON, Lyon/F
PS.38	1307	05.07.2012	Direct and high yield conversion of (bio)-ethanol to propene on In₂O₃ catalysts modified with scandium M. Kurosawa, S. Mizuno, M. Tanaka, <u>M. Iwamoto</u> , Tokyo Institute of Technology, Yokohama/J
PS.38	1754	05.07.2012	Hydrogenolysis of polyols over Cu/Hydroxalcalite catalysts to value-added chemicals: a new multifunctional catalyst <u>X. Jin</u> , B. Subramaniam, R. Chaudhari, Center for Environmentally Beneficial Catalysis, Lawrence, KS/USA
PS.38	7074	05.07.2012	Hydrodemetallation (HDM) of Ni-TPP over NiMo/γ-Al₂O₃ catalyst prepared by one-pot method with controlled precipitation of the components J.J. Li, Z.Q. Xia, W.K. Lai, J.B. Zheng, <u>X.D. Yi</u> , W.P. Fang, Xiamen University/PRC
PS.38	7082	05.07.2012	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; <u>J.M.M. Millet</u> , IRCELYON, Villeurbanne/F
PS.38	7255	05.07.2012	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; <u>L.G. Appel</u> , National Institute of Technology, Rio de Janeiro/BR
PS.38	7317	05.07.2012	Surface chemistry of biomass-derived oxygenates in aqueous phase and vacuum <u>J.R. Copeland</u> , C. Sievers, Georgia Institute of Technology, Atlanta, GA/USA
PS.38	7403	05.07.2012	Dehydration of glycerol to acrolein by mesoporous sulfated zirconia-silica <u>S. Ito</u> , H. Kobayashi, K. Hara, A. Fukuoka, Hokkaido University, Sapporo/J

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PS.39	1497	05.07.2012	Liquid transportation fuel by direct hydrogenation of CO₂ with iron-based catalyst M. Landau, R. Vidruk, G. Guendelman, M. Herskowitz, Ben-Gurion University of the Negev, Beer-Sheva/IL
PS.39	6732	05.07.2012	The Cu/Zn/Al/Zr catalysts via hydrotalcite-containing precursors for methanol synthesis from CO₂ hydrogenation P. Gao, F. Li, F.K. Xiao, N. Zhao, W. Wei, Y.H. Sun, Institute of Coal Chemistry, Taiyuan/PRC
PS.39	7198	05.07.2012	Catalyst and process design for the synthesis of methanol via CO₂-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
PS.39	7250	05.07.2012	Improving the CO₂ methanation on Rh/γ-Al₂O₃ catalyst by <i>in situ</i> supply of hydrogen by Ni/carbon catalysts C. Swalus, A. Beuls, A. Karelavic, M. Jacquemin, P. Ruiz, Université catholique de Louvain, Louvain-la-Neuve/B
PS.39	7331	05.07.2012	Effect of water on low temperature conversion of CO and CO₂ 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
PS.39	7788	05.07.2012	Impact of high pressure and K and Ba promoters on CO₂ hydrogenation over Cu/Al₂O₃ catalysts A. Bansode, A. Bazzo, A. Urakawa, Institute of Chemical Research of Catalonia (ICIQ), Tarragona/E
PS.39	8083	05.07.2012	CO₂ 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

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PS.40	1023	05.07.2012	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
PS.40	1194	05.07.2012	Experimental and computational examination of the nature of exchange sites on Cu/CHA and Cu/MFI for NH₃ selective catalytic reduction of NO_x 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
PS.40	1206	05.07.2012	Relevance of <i>operando</i> 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
PS.40	1622	05.07.2012	Transient kinetics and DRIFTS studies of CoCu catalysts for CO hydrogenation Y. Xiang, p. Dulgheru, N. Kruse, Université Libre de Bruxelles/B
PS.40	1804	05.07.2012	In situ spectroscopy of copper and nickel promoted zirconia based mixed oxides A. Kitla, K. Foettinger, G. Rupprechter, TU Vienna/A
PS.40	1934	05.07.2012	Spectroscopic investigations on working monolithic catalysts; going inside an industrial reactor S.B. Rasmussen, M.A. Banares, E.J. Mikolajska, P. Avila, ICP-CSIC, Madrid/E; J. Due-Hansen, R. Fehrmann, CSC-DTU, Lyngby/DK; P. Bazin, V. Blasin-Aube, M. Daturi, LCS-CNRS, Caen/F
PS.40	1941	05.07.2012	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
PS.40	1965	05.07.2012	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
PS.40	2004	05.07.2012	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
PS.40	2054	05.07.2012	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
PS.40	6802	05.07.2012	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
PS.40	7086	05.07.2012	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
PS.40	7299	05.07.2012	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
PS.40	7463	05.07.2012	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
PS.40	7674	05.07.2012	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

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PS.41	1025	05.07.2012	Reaction pathways of glycerol steam reforming on CoRh/mixed oxide catalysts M. Araque, L.M. Martinez, <u>A.C. Roger</u> , University of Strasbourg/F; J.C. Vargas, National University of Colombia, Bogota/CO
PS.41	1111	05.07.2012	Oxidative steam reforming of ethanol over Ir/CeO₂ 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; <u>C. Mirodatos</u> , IRCELYON, Lyon/F
PS.41	1674	05.07.2012	Catalyst development for steam reforming of ethanol: the enhancement of H₂ selectivity via CrO_x or MnO_x doping in CeO₂-SiO₂ catalysts M.C. Ribeiro, Instituto Nacional de Tecnologia, Rio de Janeiro/BR; G. Jacobs, B.H. Davis, University of Kentucky, Lexington, KY/USA; <u>F.B. Noronha</u> , Instituto Nacional de Tecnologia, Rio de Janeiro/BR
PS.41	1724	05.07.2012	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, <u>J.B.O. Santos</u> , Federal University of São Carlos/BR
PS.41	1728	05.07.2012	Deactivation of cobalt supported catalysts during ethanol reforming as addressed by <i>in situ</i> 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; <u>D. Zanchet</u> , Universidade Estadual de Campinas/BR; J.M.C. Bueno, Universidade Federal de São Carlos/BR
PS.41	1742	05.07.2012	Cu particles with different sizes and different degree of order supported on SBA-15 as active methanol steam reforming catalysts <u>G. Koch</u> , T. Ressler, TU Berlin/D
PS.41	7241	05.07.2012	Influence of the morphology of CuNi/SiO₂ catalysts on ethanol steam reforming: effect of pretreatment <u>L. Chen</u> , S.D. Lin, National Taiwan University of Science and Technology, Taipei/TW
PS.41	7381	05.07.2012	Novel process for hydrogen production from bio-ethanol: oxidative steam reforming of aqueous ethanol triggered by oxidation of supported Ni <u>K. Sato</u> , Y. Takita, N. Nagaoka, University of Oita/J
PS.41	7387	05.07.2012	Active sites of Co catalysts for ethanol steam reforming <u>Y. Wang</u> , 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
PS.41	7539	05.07.2012	Promotion effect of iron on the exclusive elimination of CO for ethanol steam reforming <u>C. Choong</u> , 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
PS.41	7638	05.07.2012	Activation and poisoning of a Ru/C catalyst used in hydrothermal biomass reforming - an in-situ EXAFS and isotope scrambling study - <u>M. Dreher</u> , M. Nachttegaal, Paul Scherrer Institute, Villigen PSI/CH; A. Peterson, University of Stanford, CA/USA; J. Wambach, F. Vogel, Paul Scherrer Institute, Villigen PSI/CH

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PS.42	1099	05.07.2012	Ceria-based catalysts for direct synthesis of dimethyl carbonate by carboxylation of methanol H.J. Hofmann, A. Brandner, P. Claus, TU Darmstadt/D
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PS.42	1569	05.07.2012	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
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PS.42	1954	05.07.2012	In-situ FTIR study on the direct synthesis of DMC from CO₂ and CH₃OH 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
PS.42	6726	05.07.2012	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
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PS.42	7081	05.07.2012	Utilization of carbon dioxide to diethyl carbonate via one-pot synthesis starting from ethanol, CO₂ 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
PS.42	7163	05.07.2012	Investigating the fundamental steps in the formation of acrylates from CO₂ 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
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PS.42	7753	05.07.2012	An effective CeO₂ catalyst for the synthesis of organic carbonates and carbamates from methanol and CO₂ system M. Honda, K. Noro, Y. Nakagawa, K. Tomishige, Tohoku University, Sendai/J

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PS.43	1127	05.07.2012	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
PS.43	6833	05.07.2012	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
PS.43	7193	05.07.2012	Industrial-style MoS₂-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
PS.43	8157	05.07.2012	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

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PS.44	1209	05.07.2012	Spectroscopic investigation of methane activation over Co-ZSM-5 and Co-ZSM-5/ZrO₂ M.C. Kung, H.H. Kung, S.S. Lin, D. Haag, N. Mashayekhi, Northwestern University, Evanston, IL/USA
PS.44	1592	05.07.2012	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
PS.44	1926	05.07.2012	Oxidation of CH₄ with N₂O 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. Guzzi, Institute of Isotopes HAS, Budapest/H
PS.44	7276	05.07.2012	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
PS.44	7308	05.07.2012	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
PS.44	7953	05.07.2012	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