Monday 4 July 2011

Poster Session 1

17:45 - 19:00 Foyer & Exhibition Area, Renold Building

AT_P48 SYNTHESIS AND CHARACTERIZATION OF POLYSTYRENE MAGNETIC MICROSPHERES MADE VIA SUSPENSION POLYMERIZATION
Sotiria Karagiovanaki[1], Konstantinos Efthimiadis[2], Loukas Zoumpoulakis[1]
[1]National Technical University of Athens, Zografou, Greece, [2]Aristotle University of Thessaloniki, Thessaloniki, Greece

AT_P100 Towards Aggregation Induced Emission of Amorphous Oligofluorenes End-Capped with Tetraphenylethene
Matthew Aldred, Guo Feng Zhang, Chong Li, Wen Liang Gong, Ming-Qiang Zhu
Wuhan National Laboratory of Optoelectronics, Wuhan, Hubei, China

AT_P104 Charge separation rates between a donor and a cluster of acceptors: impact on the physics of organic photovoltaic interfaces
Domenico Caruso, Alessandro Troisi
University of Warwick, Coventry, UK

AT_P105 Oligofluorene-functionalised Truxenes as Electron Conducting/Hole Blocking Layers in Electroluminescent Devices
Neil Thomson[1,2], Alexander Kanibolotsky[1], Peter Skabara[1]
[1]University of Strathclyde, Glasgow, UK, [2]Cambridge Display Technology, Cambridge, UK

AT_P106 Polymer materials obtained by miniemulsion polymerization mediated by silated networks on to magnetic nanoparticles
Raluca Somoghi[1,2], Dan Donescu[2], Marius Ghiurea[2], Catalin Spataru[2], Cosmin M. Corobea[2]
[1]The Petroleum-Gas University of Ploiesti, Ploiesti, Romania, [2]National Research&Development Institute for Chemistry and Petrochemistry ICECHIM, Spl. Independentei no.202, 6th district, 060021, Bucharest, Romania

AT_P107 PANI-OMMT Nanocomposites Obtained in Media with Different Polarities
Marius Ghiurea, Dan Donescu, Ilie-Catalin Spataru, Cristian Petcu, Constantin Radovici
Institutul National de Cercetare-Dezvoltare pentru Chimie si Petrochimie - ICECHIM, Bucharest, Romania

AT_P108 An electrochemical investigation of electron transportation through *S*,-[4-[2-[4-(2-Phenylethynyl)phenyl]ethynyl]phenyl]thioacetate molecular wires on self-assembled monolayers on gold electrode
Inderpreet Kaur[1], Ritu Kataky[1]
[1]Guru Nanak dev university, Amritsar, Punjab, India, [2]Durham University, Durham, UK

AT_P109 Green synthesis of gold nanowires
Laura Castro, M Luisa Blázquez, Jesús A Muñoz, Felisa González, Antonio Ballester
Complutense University of Madrid, Madrid, Spain

AT_P110 Pd-Catalysed Hydrogenation of Unsaturated Organic Compounds in the Solid State
Christopher Entwistle
Materials Science Research Division, AWE, Aldermaston, UK

AT_P111 Nonaqueous sol-gel synthesis of nanostructured zinc oxide and their optical properties
Walker Drumond, Fabio Correia, Adriana Ueda, Wang Hui
Escola politecnica da universidade de são paulo, são paulo,sp, Brazil

AT_P112 Morphologic study of blends XNBR/PANi
Tais Moreira, Walker Drumond, Wang Hui, Roberto Onmori
Escola politecnica da universidade de são paulo, são paulo,sp, Brazil

AT_P113 Micro-stereolithography (MSL) employing a polymer/magnetite nanocomposite for digital manufacturing of functional flow sensors.
Simon Leigh[1], Christopher Purssell[1], James Bowen[2], James Covington[1], Duncan Billson[1], David Hutchins[1]
[1]School of Engineering, University of Warwick, Coventry, UK, [2]School of Chemical Engineering, University of Birmingham, Birmingham, UK

AT_P114 Fabrication and electrochemical characterization of single and multi-layer graphene microelectrodes
Anna Valota, Ian Kinloch, Ernie Hill, Konstantin Novoselov, Robert Dryfe
The University of Manchester, Manchester, UK

AT_P115 Nanocrystalline colloids synthesised in a versatile capillary-based droplet reactor.
Adrian Nightingale, John de Mello
Imperial College London, London, UK

AT_P116 preparation and characterization of nanoporous thin films from wholly aliphatic polyimides
hwan-chul yu[1], shankaraya Vijay Kumar[1], Kazuaki kudo[2], Chan-Moon Chung[1]
[1]yonsei university, kangwondo, Republic of Korea, [2]The University of Tokyo, Komaba, Japan

AT_P117 Surface Control and Assembly of PbS Nanoparticle Thin Films for Use in Solar Nanocells
David Cant[1,2], John Thomas[2], Wendy Flavell[1]
[1]School of Physics and Astronomy and Photon Science Institute, University of Manchester, Manchester, UK, [2]School of Chemistry, University of Manchester, Manchester, UK

AT_P118 The Effects of Preparation Method on the properties of Graphene Sheet/Poly(ethyl methacrylate) Nanocomposites.
SEONG MIN OH[1], Hyung il Lee[1], Han Mo Jeong[1], Byung Kyu Kim[2]
[1]Ulsan University, Ulsan, Republic of Korea, [2]Busan University, Busan, Republic of Korea

AT_P119 Thermodnamic and mechanical behaviors in confined water nanofilms
Jin-Soo Kim, Jin Sik Choi, Mi Jung Lee, Bae Ho Park
Konkuk Univ., Seoul, Republic of Korea

AT_P120 Fabrication of CdTe Nanoparticles in a Protein Cage
Tomoaki Harada, Hideyuki Yoshimura
Meiji University, Kawasaki, Japan

AT_P121 Self assembled monolayers of hole transport materials for highly efficient charge carrier injection in organic devices
Sylvia Gang, Merve Anderson, Benjamin Friebe, Björn Lüssem, Karl Leo
Institut für Angewandte Photophysik, Dresden, Germany

AT_P122 Solvent-controlled ionic-liquid-assisted one-step preparation of nitrogen doped graphene
Hsin-Yun Chang, Jen-Yu Liu, Yong-Chien Ling
National Tsing Hua University, Hsinchu, Taiwan

AT_P123 Studies on the adsorption activity of activated carbon derived by Jatropha seed hull for cadmium (II) removal
Masita Mohammad, Zahira Yaakob, Siti Rozaimah S. Abdullah
Universiti Kebangsaan Malaysia, Bangi, Selangor, Malaysia

AT_P124 Solid solutions customized with RuO_2 or $Rh_{1.32}Cr_{0.66}O_3$ co-catalyst display visible light driven catalytic activity for CO_2 reduction to CH_3OH
Jen-Yu Liu[1], Bhaskar Garg[2], Yong-Chien Ling[1]
[1]National Tsing Hua University, Hsinchu, Taiwan, [2]National Taiwan University, Taipei, Taiwan

AT_P125 Porous Polymer Monoliths as Alternative Column Materials for Chromatography
Silvija Abele[1,2], Zarah Walsh[2], Oksana Yavorska[2], Petr Smejkal[2,3], Frantisek Foret[3], Zanda Zanriba[1], Roberts Fedorovskis[1], Raimonds Poplausks[4], Donats Erts[4], Arturs Viksna[1], Mirek Macka[2]
[1]Faculty of Chemistry, University of Latvia, Riga, Latvia, [2]National Centre for Sensor Research and School of Chemical Sciences, Dublin City University, Dublin, Ireland, [3]Institute of Analytical Chemistry, ASCR, v.v.i., Brno, Czech Republic, [4]Institute of Chemical Physics, University of Latvia, Riga, Latvia

AT_P126 Properties of Wrinkles in Graphene
Mi Jung Lee[1], Jin Sik Choi[1], Jin-Soo Kim[1], Duk Hyun Lee[1], Ik-Su Byun[1], Seung-Woong Lee[1], Bae Ho Park[1], Changgu Lee[2]
[1]KonKuk Univ., seoul, Republic of Korea, [2]Sungkyunkwan Univ., suwon, Republic of Korea

AT_P127 Local charge conduction and photovoltaic effect in $BiFeO_3$ nanostructures
Jihoon Jeon[1], Baeho Park[1], Taekjib Choi[2]
[1]Konkuk Univ., seoul, Republic of Korea, [2]Sejong Univ., seoul, Republic of Korea

AT_P128 Materials and processes towards fabrication of In-Plane-Gate Field-Effect transistors (IPG-FETs) and planar diodes from polymer semiconductors.
Ian Ingram[1], Jeff Kettle[1,2], Michael Turner[1]
[1]University of Manchester, Manchester, UK, [2]Bangor University, Wales, UK

AT_P129 Nano-scale Lithography on Mono-layer Graphene Using Hydrogenation and Oxidation
Ik-Su Byun[1], Duhee Yoon[2], Jin Sik Choi[1], Inrok Hwang[1], Duk Hyun Lee[1], Mijung Lee[1], Hyeonsik Cheong[2], Bae-Ho Park[1]
[1]Konkuk University, Seoul, Republic of Korea, [2]Sogang University, Seoul, Republic of Korea

AT_P130 Investigation of phosphoproteome of multiple myeloma cells by functionalized magnetic nanoparticles and mass spectrometry
Chen Cheng-Tung, Ho Yen-Peng
National Dong Hwa University, Department of Chemistry, Hualien, Taiwan

AT_P131 Integrated Optical Bragg Grating Sensors: Chemical Sensing in Liquid and Gas Flow Systems
Martin Grossel, Dominic Wales, Richard Parker, James Gates, Peter Smith
University of Southampton, Southampton, UK

AT_P132 Bis-Pyrrolopyrrole Cyanines: Selective NIR absorbers
Georg Fischer[1,2], Ewald Daltrozzo[1], Andreas Zumbusch[1]
[1]University of Konstanz, Konstanz, Germany, [2]University of Oxford, Oxford, UK

AT_P133 Screen Printing Carbon Nanotubes for Field Emission Devices
Edward Boughton[1], Wenhui Song[1], Benjamin Jones[1], Robert Bulpett[1], Sabina Orlowska[2], Michael Waite[2], Mike Miller[2], Geoff Sheehy[2]
[1]Brunel University, Uxbridge, Middlesex, UK, [2]TMD Technologies Ltd., Hayes, Middlesex, UK

AT_P134 Rapid Screening of Microporous Polymers for CO_2 Capture
Laura Leay, Flor Siperstein
University of Manchester, Manchester, UK

AT_P135 Effect of supercritical CO_2 on the porous structure of polymer-ceramic membranes for energy storage applications
Mariusz Walkowiak, Agnieszka Martyla, Monika Osinska
Institute of Non-Ferrous Metals Branch in Poznan Central Laboratory of Batteries, Poznan, Poland

AT_P137 Functionalisation of Au Nanoparticles using sonochemistry: Preparation Characterisation and Application
Anuradha Pallipurath[1], Olivia Nicoletti[2], Paul Midgley[2], Stephen Elliott[1]
[1]Department of Chemistry, University of Cambridge, Cambridge, UK, [2]Department of Material Science and Metallurgy, University of Cambridge, Cambridge, UK

AT_P138 Novel Conjugated Copolymers based on diketopyrrolopyrrole (DPP) for Organic Photovoltaics
Diego Cortizo, Peter Skabara
University of Strathclyde, Glasgow, Scotland, UK

AT_P139 MALDI-TOF analysis of PEEK: A direct route to structural characterisation and end-group analysis
Michael Benstead[1,2], Jonathan Behrendt[1], Adam Chaplin[2], Brian Wilson[2], Peter Budd[1], Michael Turner[1]
[1]University of Manchester, Manchester, Lancashire, UK, [2]Victrex Plc., Thornton Cleveleys, Lancashire, UK

AT_P140 Growth mechanism of centimeters long SiC nanowires by pyrolysis of a polymer precursor
Gongyi Li, Xiaodong Li, Bengen Wang
National University of Defense Technology, Changsha, China

AT_P141 Silica Nanowires-Nanosheets (1D-2D) and the Selective Interaction with Tween 60
Mihai Cosmin Corobea, Raluca Inachis, Dan Donescu, Cristian Petcu, Marius Ghiurea, Constantin Radovici
INCDCP-ICECHIM, Bucharest, Romania

AT_P142 Synthesis of Porous N-doped Carbon Films through Electrodeposition of Polypyrrole in Mesoporous Silica Thin Films
Keun-Young Park, Ji-Hoon Jang, Young-Uk Kwon
Sungkynkwan University, Suwon, Republic of Korea

AT_P143 Organic semiconductors substituted with phosphonic acids for use in self-assembled-monolayer field-effect transistors (SAMFETs)
Kexin Lu, Michael Turner
University of Manchester, Manchester, UK

AT_P144 Synthesis of gold and mesoporous tungsten oxide nanocomposites
Kyoung-Jae Kim, J-Hoon Jang, Young-Uk Kwon
Sungkyunkwan University, Suwon, Republic of Korea

AT_P145 Metal bis(thiosemicarbazonates) as potential molecular semiconductors
Georg Silber[1], Rory Arrowsmith[2], Sofia Pascu[2], Neil Robertson[1]
[1]University of Edinburgh, Edinburgh, UK, [2]University of Bath, Bath, UK

AT_P146 Molecular Interaction between Polyglycerol Dendrimers and 4-Amino-3-Hydroxynaphthalene-1-Sulphonic Acid (AHSA)
Haejoo LEE, Tooru Ooya, Toshifumi Takeuchi
Kobe university, Kobe, Japan

AT_P147 DNA-templated palladium nanowires for a highly sensitive hydrogen gas sensor
Mariam Al Hinai, Reda Hassanien, Benjamin Horrocks, Nicholas Wright, Andrew Houlton
Newcastle University, Newcastle Upon Tyne, UK

AT_P148 Synthesis and physical properties of Ni /NiO Nanocrystals
John Thomas, Hanan Alchaghouri
Mnachester, Manchester, UK

AT_P149 The electrochemistry and spectroelectrochemistry of novel organic conjugated molecules based on EDOT and thiophene units.
Saadeldin.E.Taher Elmasly, Peter.J Skabara, Greg J. McEntee
University of strathclyde, Glasgow/Scotland, UK

AT_P150 Metals On Graphene
Recep Zan[1,2], Ursel Bangert[2], Quentin Ramasse[3], Konstantin S Novoselov[1]
[1]The University of Manchester, School of Physics and Astronomy, Manchester, UK, [2]The University of Manchester, School of Materilas, Manchester, UK, [3]SuperSTEM STFC Daresbury Laboratory, Warrington, UK

AT_P151 Nickel (II) diimine-dithiolate complexes for Field Effect Transistor applications
Luca Pilia, Neil Robertson
University of Edinburgh, Edinburgh, UK

AT_P152 Synthesis and testing of fast switching electrochromic conjugated polymers
Sandeep Kaur[1], Peter Skabara[1], Rory Berridge[2]
[1]University of Strathclyde, Glasgow, UK, [2]DSTL, Porton Down, UK

AT_P154 A Sensor Array Composed of 'Clicked' Receptor Coated Individual Microcantilever Chips
F. P. V. Paoloni[2], J. Huang[1], S. Kelling[1], M. J. Capener[1], S. R. Elliott[1]
[1]University of Cambridge, Cambridge, Cambridgeshire, UK, [2]Lund University, Lund, Sweden

AT_P155 Alternative Organic Solar Cell Electrode Materials
Christina Pang, Sung Soo Kim, Dong-Seok Leem, John de Mello
Imperial College London, London, UK

AT_P156 Coloured nanoparticles and pigments based on silica for digital printing of textiles
Sandra Sampaio, César Martins, Jorge Neves, Jaime Gomes
University of Minho, Guimaraes, Portugal

AT_P157 Porphyrin Dyes for Second Harmonic Generation
Ismael Lopez-Duarte[1], Jan Fleischhauer[1], James E. Reeve[1], Javier Perez-Moreno[3], Alexander Corbett[2], Hagan Bayley[1], Tony Wilson[2], Koen Clays[3], Harry L. Anderson[1]
[1]Department of Chemistry, University of Oxford, Chemistry Research Laboratory, Oxford, UK, [2]Department of Engineering Science, University of Oxford, Oxford, UK, [3]Department of Chemistry, University of Leuven, Leuven, Belgium

AT_P160 Real time characterization of diazonium salt chemisorption on gold surfaces
Dilushan Jayasundara, Ronan Cullen, Laura Soldi, Deirdre Murphy, Paul Duffy, Paula Colavita
School of Chemistry, University of Dublin Trinity College, Dublin, Ireland

AT_P161 AN INTERGRATED COMPUTATIONAL AND EXPERIMENTAL APPROACH TO DESIGNING NOVEL NANODEVICES
Nyevero Simbanegavi, Lindsey. J Munro, Paul Birkett, Lubomira Tosheva-Jivkova
Manchester Metropolitan University, Manchester, UK

AT_P162 High loading of Carbon Nanotubes in Liquid Crystalline Elastomers Assisted by Liquid Crystalline Polymers
Yan Ji, Yan Yan Huang, Eugene Terentjev
University of Cambridge, Cambridge, UK

AT_P163 Dispersing carbon nanotubes into siloxane matrix
Yan Ji, Yan Yan Huang, Eugene Terentjev
University of Cambridge, Cambridge, UK

AT_P164 Green synthesis and stabilization of silver and copper metal nanoparticles in chemically modified chitosan matrix; A comparative study
Anand Dev Tiwari, Ajay K Mishra, Shivani B Mishra, Bhekie B. Mamba
1Department of Chemical Technology, University of Johannesburg, Johannesburg, Gauteng, South Africa

AT_P165 Enhanced Cr(VI) removal using iron nanoparticles decorated graphene
Humera Jabeen, Vimlesh Chandra, Sehoon Jung, Jung WOO Lee
Pohang University of Science and Technology, Pohang,san31 Hyoja-dong Nam gu Kyungbuk 790-784, Republic of Korea

AT_P166 A Zeolite / Dendrimer Hybrid for the Remediation of Heavy Metals from Water
David Kitley, Katherine Haxton
Keele University, Keele, Staffordshire, UK

AT_P167 ELECTROACTIVATION OF SYSTEM CELL- MEC - PLA AND PLG WITH ADDITIONS OF CHITOSAN, BIOCERAMIC AND ZINC
Hugo Armando Estupiñán Duran[1], Dario Peña Ballesteros[2], Custodio Vásquez Quintero[2], Sandra J. Garcia Vergara[2]
[1]Universidad Nacional de Colombia, Medellin, Colombia, [2]Universidad Industrial de Santander, Bucaramanga, Colombia

AT_P168 Deposition of CdS and ZnS Thin Films at the Water-Toluene Interface
Gemma Stansfield, John Thomas
University of Manchester, Manchester, UK

AT_P170 Nano-Scale Chemical Tomography of Buried Organic-Inorganic Interfaces
Lyle Gordon, Derk Joester
Northwestern University, Evanston, IL, USA

AT_P171 Chemical Cross-linking of Bacterial Cellulose Networks for Biocomposite Applications
Franck Quero[1], Stephen Eichhorn[1], Alexander Bismarck[2], Koonyang Lee[2], Athanasios Mantalaris[2]
[1]University of Manchester, Manchester, UK, [2]Imperial College, London, UK

AT_P172 Synthesis and Characterization of Nanosized Spinel Ferrites for Gas Sensor Applications
Andris Sutka, Gundars Mezinskis, Laimons Timma, Arturs Pludons, Santa Lagzdina
Institute of Silicate Materials, Riga, Latvia

AT_P173 Soluble Tin(IV) and Titanium(IV) Nanoparticles as Precursors to High Quality Thin Films
Peter Dunne[1,2], James McManus[1], Laura Regan[1], Sinéad Healy[1], Des Cunningham[1]
[1]School of Chemistry, National University of Ireland, Galway, Galway, Ireland, [2]Department of Chemistry, University of Warwick, Coventry, UK

AT_P174 Composite SBS membranes: coating optimization and scale-up
Fabio Bazzarelli[1], Paola Bernardo[1], Franco Tasselli[1], Johannnes C. Jansen[1], Viatcheslav G. Dzyubenko[2], Pavel Vdovin[2], Gabriele Clarizia[1]
[1]Institute of Membrane Technology (ITM-CNR), Rende (CS), Italy, [2]JSC STC "Vladipor", Vladimir, 600016, Russia

AT_P175 Green methods for production of functional nano-materials
Siddharth Patwardhan, Rachelle McCann, Kyle Tsang
University of Strathclyde, Glasgow, UK, UK

AT_P176 Impact of Cetytrimethylamonium Bromide (CTAB) Concentrations and Reductants on the Size and Yield of Silver Nanorods
I-Shou Tsai, Hoang-Jyh Leu, Pei-Syuan Jhu
Feng Chia University, Taichung, Taiwan

AT_P90 *Ab Initio* Molecular Dynamics Study of Phase Change Materials
J. M. Skelton[1], T. H. Lee[1], D. Loke[2,1], S. R. Elliott[1]
[1]University of Cambridge, Cambridge, Cambridgeshire, UK, [2]NUS Graduate School for Integrative Sciences and Engineering, Singapore, Singapore

AT_P92 Negative Differential Resistance behaviour in porphyrin based electrografted σ-∏-σ monolayer
Kavita Garg, Shankar Koiry, Sandip Nayak, Dinesh .k Aswal, Subrata chattopadhyay
Bhabha atomic research center, Mumbai, Maharashtra, India

AT_P93 A facile preparation and application of multifunctional self-assembled multilayer of noble metal nanoparticles
Manthiriyappan Sureshkumar, Pin-Ni Lee, Cheng-Kang Lee
Department of Chemical Engineering, National Taiwan University of Science and Technology, Keelung road, Taipei, Taiwan

AT_P94 Nanomaterials and Hollow Spheres gained via a Microemulsion Approach
Fabian Gyger, Claus Feldmann
Karlsruhe Institute of Technology, Karlsruhe, Germany

AT_P95 Synthesis and Properties of Monodisperse Oligofluorene-Functionalized Truxenes with Different Alkyl Chains
Clara Orofino Peña, Alexander Kanibolotsky, Peter J. Skabara
University of Strathclyde, Glasgow, UK

AT_P96 Electrochemically assisted integration of tailored polymers for advanced MEMS explosive sensors

Zuzana Vobecka, Robert Blue, Neil Findlay, Filipe Vilela, Peter Skabara, Deepak Uttamchandani
University of Strathclyde, Glasgow, UK

AT_P97 Towards Molecular Graphenes: Fusing Anthracenes to Porphyrins

Nicola K S Davis, Amber L Thompson, Harry L Anderson
University of Oxford, Oxford, UK

AT_P98 Oxidised carbon nanotubes and graphene oxide nucleated nylon 6,6 electrospun fibres

Fabiola Navarro-Pardo[1,2], Gonzalo Martínez-Barrera[1], Ana Laura Martínez-Hernández[3], Víctor Manuel Castaño[2], Carlos Velasco-Santos[1]
[1]Laboratorio de Investigación y Desarrollo de Materiales Avanzados, Posgrado en Ciencia de Materiales, Facultad de Química, Universidad Autónoma del Estado de México, Toluca, Estado de México, Mexico, [2]Centro de Física Aplicada y Tecnología Avanzada, Universidad Nacional Autónoma de México, Querétaro, Querétaro, Mexico, [3]Departamento de Metal Mecánica, Instituto Tecnológico de Querétaro, Querétaro, Querétaro, Mexico, [4]Centro de Investigación y Estudios de Posgrado, Facultad de Ciencias Químicas, Universidad Autónoma de San Luis Potosí, San Luis Potosí, San Luis Potosí, Mexico

AT_P99 Frictional domains on exfoliated graphene

Jin Sik Choi, Jin-Soo Kim, Ik-Su Byun, Duk Hyun Lee, Mi Jung Lee, Bae Ho Park
Division of Quantum Phases & Devices, Department of Physics, Konkuk University, Seoul 143-701, Republic of Korea

CS_P18 Optimising Zeolitic Imidazolate Frameworks for high selective adsorption

Amrouche Hedi[1,2], Nieto-Draghi Carlos[2], Siperstein Flor[1], Perez-Pellitero Javier[3], Chizallet Céline[3]
[1]university of manchester, Manchester, UK, [2]IFP energies nouvelles, Rueil-Malmaison, France, [3]IFP energies nouvelles, Solaize, France

CS_P19 Heterocyclic dithiocarbamates: Precursors for shape controlled growth of CdS and PbS nanoparticles.

Linda Dyorisse Nyamen[1,2], Neerish Revaprasadu[1], Peter Teke Ndifon[2]
[1]University of Zululand, KwaDlangezwa, KwaZulu-Natal, South Africa, [2]University of Yaounde I, Yaounde, Cameroon

CS_P20 Particle size effects in MOF-nanofibre composite adsorbent materials

Eva Micich, Gordon Bewsell, David Nielsen
Defence Science and Technology Organisation, Melbourne, Victoria, Australia

CS_P21 Hafnon as a Nuclear Waste Storage Material

Matthew French, Richard Darton
Keele University, Keele, UK

CS_P22 Antimicrobial Cu-exchanged FAU-type zeolites from fly ash

Lubomira Tosheva[1], Justyna Sutula[1], Boriana Mihailova[2], Herman Potgieter[1], Joanna Verran[1]
[1]Faculty of Science and Engineering, Manchester Metropolitan University, Manchester M1 5GD, UK, [2]Mineralogisch-Petrographisches Institut, Universität Hamburg, Hamburg D-20146, Germany

CS_P23 Experimental method for study of heterogeneous nucleation of crystals in surface defects
James Campbell, Hugo Christenson
The University of Leeds, Leeds, UK

CS_P24 Silicate Extraction from Biomass Ash and its use as a starting material for Zeolite Synthesis
Emma Cooper[1], Duncan MacQuarrie[1], Jennie Dodson[1], Barbara Onida[2], Sonia Fiorilli[2]
[1]University of York, York, UK, [2]Politecnico di Torino, Turin, Italy

CS_P26 Synthesis and Characterisation of a new family of compounds, $Li_{11}RE_{18}X_4O_{39}$, (RE = rare earthe cations and X = trivalent cations)
Yao-Chang Chen, Nik Reeves-McLaren, Paul Bingham, Zhaoxia Zhou, Anthony West
Univeristy of Sheffield, Sheffield, UK

CS_P27 Intelligent Synthesis of Nanoparticles
Siva Krishnadasan, John de Mello, Andrew de Mello
Imperial College London, London, UK

CS_P28 Targeted Synthesis of Porous Materials and the First Use of Isoreticular Chemistry in Metal Phosphonates
Michael T. Wharmby[1], Gordon M. Pearce[1], John P. S. Mowat[1], Stuart R. Miller[1], Lars H. Schilling[2], Norbert Stock[2], Paul A. Wright[1]
[1]School of Chemistry, University of St Andrews, St Andrews, UK, [2]Institut für Anorganische Chemie, Christian Albrechts Universität, Kiel, Germany

CS_P29 An Approach to the Synthesis of Regioselectively Functionalized Acenes via the BHQ Reaction
Mark Little, Peter Quayle, Stephen Yeates
University of Manchester, Manchester, UK

CS_P30 A Database of Hypothetical Metal-Organic Frameworks for Rapid Screening
Christopher E. Wilmer, Michael Leaf, Randall Q. Snurr
Northwestern University, Evanston, Illinois, USA

CS_P31 Structural Characterisation of $LiSbO_2$
Benjamin de Laune[1], Ryan Bayliss[2], Colin Greaves[1]
[1]The University of Birmingham, Birmingham, UK, [2]Imperial College London, London, UK

CS_P32 Computational Study of Magnetic Ordering in Tetragonal MX_2O_4 Materials
James Cumby[1], Colin Greaves[1], David Quigley[2]
[1]University of Birmingham, Birmingham, UK, [2]University of Warwick, Coventry, UK

CS_P33 Insertion of phosphate into $SrFeO_{3-\delta}$
Nicola Gurusinghe, Frank Berry, Colin Greaves
University of Birmingham, Birmingham, UK

CS_P34 Synthesis and Characterisation of Chemically Modified Schafarzikite
Mariana Whitaker, Ryan Bayliss, Frank Berry, Colin Greaves
University of Birmingham, Birmingham, UK

ES_P26 Passivation of silicon (111) substrates by a two-step chlorination-alkylation technique for photovoltaic applications

Nicholas Alderman[1,2], Lefteris Danos[1], Martin Grossel[2], Tomas Markvart[1]
[1]School of Engineering Sciences, University of Southampton, Southampton, UK, [2]School of Chemistry, University of Southampton, Southampton, UK

ES_P27 Mixed matrix membranes made of the Polyethylene glycol based polymers Pebax® and Polyactive™ and different zeolites.

María del Carmen Gutiérrez Hernández, Dragutin Nedeljkovic, Detlev Fritsch
Helmholtz-Zentrum Geesthacht. Centre for Materials and Coastal Research, Geesthacht, Germany

ES_P28 InP quantum dots as electron acceptors for hybrid organic-inorganic solar cells

Thitikorn Boonkoom, John de Mello, Saif Haque
Imperial College London, London, UK

ES_P29 DEVELOPMENT OF NEW CONJUGATED POLYMERS FOR APPLICATION IN SOLAR CELLS.

MOHD SANI SARJADI, AHMED IRAQI
The Polymer Centre, Department of Chemistry, University of Sheffield, Sheffield, UK

ES_P30 Synthesis and conductivity of perovskite-type $Ba_2Sc_{2-x}P_xO_{5+x}$

J. Felix Shin, Kevin Joubel, Peter R. Slater
University of Birmingham, Birmingham, UK

ES_P31 Effect of thermal history on the conductivity of apatite-type silicates

J. Felix Shin[1], Peter R. Slater[1], Thomas Baiki[2], Timothy J. White[2]
[1]University of Birmingham, Birmingham, UK, [2]Nanyang technological university, Singapore, Singapore

ES_P32 Designing linear Polymers of Intrinsic Microporosity (PIMs) for gas storage applications

Kyle E. Hart[1], Lauren J. Abbott[1], Ping Lin[2], Coray M. Colina[1]
[1]The Pennsylvania State University, University Park, PA, USA, [2]Materials Simulation Center, The Pennsylvania State University, University Park, PA, USA

ES_P33 Characterization of Microporous Network-PIMs

Annalaura Del Regno, Flor R. Siperstein
The University of Manchester, School of Chemical Engineering and Analytical Science, Manchester, UK

ES_P34 Evaluation of $SmBaCo_{2-x}Fe_xO_{5+\delta}$ perovskites as cathodes in Solid Oxide Fuel Cells (SOFCs).

Andrey Berenov[1], John Kilner[1], Nadezhda Volkova[2], Ludmila Gavrilova[2], Vladimir Cherepanov[2]
[1]Imperial College London, London, UK, [2]Ural State University, Yekaterinburg, Russia

ES_P35 Effect of A-site cation disorder on the properties of $Ba_{1-x-y}Sr_xCa_yTiO_3$ ($0 \le x \le 0.35$, $0 \le y \le 0.22$)

Andrey Berenov, Florian Le Goupil, Anna-Karin Axelsson, Neil Alford
Imperial College London, London, UK

ES_P36 Photo-electrochemical water splitting using $ZnFe_2O_4$ as photo-anode

Francesca Rubertelli, Riccardo Preda, Luigi Abbondanza, Roberto Buzzoni, Laura Meda
eni S.p.A., Research Center for Non-Conventional Energies, Istituto eni Donegani, Novara, Italy

ES_P37 Localization of the injected electron in Dye Sensitized Solar Cells: comparison of different theoretical approaches.
Francesco Ambrosio, Emanuele Maggio, Natalia Martsinovich, Alessandro Troisi
University of Warwick, Coventry, UK

ES_P38 Evaluation of Alkylfluorenyl Functionalised Naphthalenetetracarboxylic Diimides as Electron Transport Materials in Organic Solar Cells
Markus Hummert, Christiane Falkenberg, Moritz Riede, Karl Leo
Institut für Angewandte Photophysik, Technische Universität Dresden, Dresden, Germany

ES_P39 Synthesis of Novel Derivatives of Quinacridone and their application in hetrojunction organic solar cells
Javed Iqbal, Wang Yue
Jilin University, changchun, China

ES_P40 Electrocatalytic Behaviour of Carbon Supported $PtFe_x$ (x= 0.25~1) Nanoparticles Synthesized by Sonochemistry
Ji-Hoon Jang, Ki-Rim Lee, Young-Uk Kwon
Department of Chemistry, BK-21 School of Chemical Materials Science, Center for Human Interface Nanotechnolgy, Sungkyunkwan University, Suwon, Republic of Korea

ES_P41 Hydrophobic Organic-Inorganic Hybrid Microporous Silica Membranes for Hydrogen Separation
Qi Wei, Xiao-Yong Duan, Jun He, Zuo-Ren Nie
College of Materials Science and Engineering, Beijing University of Technology, Beijing, China

ES_P43 Niobium - Chromium Composite Material for Visible Light Photocatalysis
Christopher Ireland[1], Robert Palgrave[1], Joanna Clark[1], Steve Bennett[2], Andrew Smith[2], James Darwent[1], Stephen Poulston[2], John Claridge[1], Matthew Rosseinsky[1]
[1]University of Liverpool, Liverpool, UK, [2]Johnson Matthey, Sonning Common, UK

ES_P44 Improving the excitation dissociation efficiency of organic solar cell with imprinting process
chia-te yen, jay Chang, Wei-Yang Chou, yi-sheng Lin, Ming-Hua Chang
Electro-Optical Science and Engineering,National Cheng Kung University, tainan, Taiwan

ES_P45 High-pressure experimental data collection, analysis and modelling of hydrogen storage on nanoporous materials
Nuno Bimbo, Anna Hruzewicz-Kolodziejczyk, Valeska Ting, Tim Mays
University of Bath, Bath, UK

ES_P46 Reduce carbon dioxide by novel metal porous material and TiO_2 nano-photocatalyst.
Yi-Tzu Huang, Jen-Yu Liu, Yong-Chien Ling
National Tsing Hua University, Hsinchu, Taiwan

ES_P47 Efficient Tuning of Molecular Orbitals of 2,5,8,11-Substituted Perylenediimides
Glauco Battagliarin, Chen Li, Klaus Müllen
Max Planck Institute for Polymer Research, Mainz, Germany

ES_P48 Novel thermally rearrangeable polyimide membrane based on a polymer of intrinsic microporosity (PIM)
Hosna Shamsipour, Peter Budd, Christopher Mason
University of Manchester, Manchester, UK

ES_P49 The Phase separation of model P3HT PCBM blends as studied by small angle x-ray scattering, AFM and diffraction.
Andrew Parnell, Oleksandr Mykhaylyk, Alan Dunbar, Richard Jones
University of Sheffield, Sheffield, South Yorkshire, UK

LH_P23 Antibacterial Properties of Zinc Oxide Nanoparticles Embedded in Poly(N-isopropylacrylamide) Copolymer Hydrogel Surface Layers
Veronique Schwartz[1], Franck Thetiot[2,3], Sabine Pütz[1], Sandra Ritz[1], Lars Choritz[4], Alexandros Lappas[3], Renate Förch[1], Katharina Landfester[1], Uli Jonas[5]
[1]Max Planck Institute for Polymer Research, Mainz, Germany, [2]Université de Bretagne Occidentale-UMR-CNRS6521, Brest, France, [3]Foundation for Research and Technology - Hellas (FORTH), Institute of Electronic Structure and Laser (IESL), Heraklion, Greece, [4]Universitätsmedizin der Johannes-Gutenberg Universität, Augenklinik und Poliklinik, Mainz, Germany, [5]Foundation for Research and Technology - Hellas (FORTH), Bio-Organic Materials Chemistry Laboratory (BOMCLab), Heraklion, Greece

LH_P24 Dry Chitosan-Coated Alginate Microcapsules for the Protection and Controlled Delivery of Probiotic Bifidobacterium during Simulated Gastrointestinal Transit.
Michael Cook[1], Dimitris Charalampopoulos[1], Vitaliy Khutoryanskiy[1], George Tzortzis[2]
[1]University of Reading, Reading, UK, [2]Clasado Research Scieces Ltd, Reading, UK

LH_P26 Alternative polyelectrolyte flocculants for oily wastewater remediation
Carya Maharja[1], Cathy McCullagh[1], Pat Pollard[1], Craig McKenzie[1], Richard Walker[2], Robert Bass[2]
[1]Robert Gordon University, Aberdeen, UK, [2]Sureclean Ltd, Alness, UK

LH_P27 Surface-Active Agents for improving cell attachment
Darren Pitt, Andrew Treharne, Martin Grossel
University of Southampton, Southampton, UK

LH_P28 Preparation and properties of antioxidant sol with alginate/F127/poly(γ-glutamic acid)
Fu-Chen Kung[1], Ming-Chien Yang[2], Wen-Fu Thomas Lai[3], Te-Li Su[4]
[1]Kainan University, Taoyuan, Taiwan, [2]National Taiwan University of Science and Technology, Taipei, Taiwan, [3]Taipei Medical University, Taipei, Taiwan, [4]St. Mary's Medicine, Nursing and Management College, Ilan, Taiwan

LH_P29 The use of thermolysin triggered peptide gels for 3D cell culture applications
Laura Szkolar, Alberto Saiani, Julie Gough
The University of Manchester, Manchester, UK

LH_P30 Towards improved biocompatibility of silicones: Amphiphilic copolymers of poly(dimethylsiloxane) as surfaces modifiers
Ghislaine Robert-Nicoud, Cong Duan Vo, Nicola Tirelli
University of Manchester, Manchester, UK

LH_P31 Guiding cell migration on rigidity patterned scaffolds
Cheng-Hwa R. Kuo, Easan Sivaniah, Jochen Guck
University of Cambridge, Cambridge, UK

LH_P32 Advancing calcium carbonate morphologies: From biomimetic supramolecular assemblies to nano- and micro-structured $CaCO_3$ materials.
Bartosz Marzec, Lei Zhang, Markus Boese, Wolfgang Schmitt
School of Chemistry, Trinity College Dublin, Dublin, Ireland

LH_P33 Characterisation of chemically crosslinked films from hydrolysates of bovine hair keratin and whey protein isolate/keratin hydrolysates blends
Luís Barbosa[1], Joana Costa[2,3], Cristina M.R. Rocha[1], F. Crispim[3], Alfredo Crispim[2], Olga M. Freitas[3], Cristina Delerue-Matos[3], Maria do Pilar Golçalves[1]
[1]REQUIMTE, Faculdade de Engenharia da Universidade do Porto, Porto, Portugal, [2]CIETI, Instituto Superior de Engenharia do Porto, Porto, Portugal, [3]REQUIMTE, Instituto Superior de Engenharia do Porto, Porto, Portugal

LH_P34 Pathogen mimicking poly(glycerol methacrylate) based nanoparticles for controlled immunostimulation
Lakshminarayanan Ragupathy[1], Douglas Millar[1,2], Nicola Tirelli[1,3], Francesco Cellesi[1]
[1]School of Pharmacy and Pharmaceutical Sciences, University of Manchester, Manchester, UK, [2]Faculty of Life Sciences, University of Manchester, Manchester, UK, [3]School of Biomedicine and School of Materials, University of Manchester, Manchester, UK

LH_P35 Targeted Drug Delivery by Plant Virus
Alaa Aljabali, David Evans
John Innes Centre, Norwich, UK

LH_P36 Polymer Demixed Nanotopographies to Control Cellular Response
Raechelle A D'Sa, Jog Raj, Peter J Dickinson, Fiona McKavanagh, J. Anthony Byrne, Brian J Meenan
University of Ulster, Belfast, UK

LH_P37 Rice husk as a low-cost adsorbent for Cu, Ni and Zn removal from polluted water
Kafia Surchi, Huda Yousif
Salahaddin University, Erbil, Iraq

LH_P39 Determination of minerals composition of Iraqi Nigella Sativa L. seed by Atomic absorption spectrophotometer
Nagham A. Jasim, Fadhil M. Abid
Ministry of Science and Technology, Baghdad, Iraq

LH_P40 Nanoremediation: A green approach to metal decontamination from waste water
Abhishek Kardam, Shalini Srivastava
Dayalbagh Educational Institute, Agra, U.P, India

LH_P42 Characterisation of co-solvent effects in poly(vinyl alcohol) films by tensile analysis and swelling studies.
Emma Wright, Gavin Andrews, David Jones
Queen's University Belfast, Belfast, UK

LH_P43 Non-Attrition Based Formation of Pure Drug Nanoparticles
Tom McDonald, Marco Giardiello, Darren Smith, Phil Martin, Andrew Owen, Steve Rannard
University of Liverpool, Liverpool, UK

SM_P26 SYNTHESIS AND CHARACTERISATION OF NEW MONONUCLEAR COPPER (I) COMPLEXES FOR OLEDs
Inmaculada Andres-Tome, Paolo Coppo, Christopher J. Winscom, John Fyson
Brunel University, Uxbridge, Middlesex, UK

SM_P27 New Polyamides and Polyoxazoles Based on Diphenyl ether Segments inthe Polymers Backbone

Mahmoud Hussein[1,2], Abdullah Asiri[1,3], Kamal Aly[2]
[1]King AbdulAziz University, Jeddah, Saudi Arabia, [2]Assiut University, Assiut, Egypt, [3]The Center of Excellence for Advanced Materials Research, Jeddah, Saudi Arabia

SM_P28 Carbazole-based “double cable” polymers for application in photovoltaic cells

Abdulaziz Alghamdi[1], Achim Fischereder[1], Ahmed Iraqi[1], David Mohamad[2], David Lidzey[2]
[1]Department of Chemistry University of Sheffield, Sheffield, UK, [2]Department of Physics and Astronomy University of Sheffield, Sheffield, UK

SM_P29 Hybrid titanium oxide-polymeric nanoparticles for biomedical applications. Sol-gel preparation and surface functionalisation.

Christopher Cadman, Nicola Tirelli, Francesco Cellesi
The University of Manchester, Manchester, UK

SM_P30 Carbazole and Pyrrolyl Benzo[1,2,5]Thiadiazole Based Alternating Polymers for Application in Solar Cells

Mohammed Almeataq, Ahmed Iraqi
Department of Chemistry, University of Sheffield, Sheffield, UK

SM_P31 Highly Processable Donor-Acceptor Carbazole and Thienyl Benzo[1,2,5]thiadiazole Based Polymers for Application in Photovoltaic Cell.

Solyman Al-Faifi[1], Hunan Yi[1], Ahmed Iraqi[1], Darren Watters[2], James Kingsley[2], David Lidzey[2]
[1]Department of Chemistry, University of Sheffield, sheffield, UK, [2]Department of Physics and Astronomy, University of Sheffield, sheffield, UK

SM_P32 *Time Resolved Small Angle X-Ray Scattering Study of Enzymatic Catalysed Synthesis and Gelation of Ionic Peptides*

Jean-Baptiste GUILBAUD, Aline MILLER, Alberto SAIANI
The University of Manchester, Manchester, UK

SM_P33 Exploration of Structure of Polymer Micelles with Anomalous Small-angle X-ray Scattering

Isamu Akiba, Aturo Takechi, Megumi Sakou, Kazuo Sakurai
The University of Kitakyushu, Kitakyushu, Fukuoka, Japan

SM_P34 Segmented Flow Synthesis of Optoelectronic Polymers in Microfluidic Devices

James Bannock[1], Cyril Jean[1,2], John de Mello[1], Martin Heeney[1]
[1]Imperial College London, London, UK, [2]Ecole Normale Superieure, Paris, France

SM_P35 Carbazole-based polymers for application in photovoltaic cells

Abdelqader Imragaa[1], Ahmed Iraqi[1], David Mohamad[2], David Lidzey[2]
[1]Department of Chemistry, University of Sheffield, sheffield, UK, [2]Department of Physics and Astronomy, University of Sheffield, sheffield, UK

SM_P36 Soft Matter Nanocomposites by Grafting a Versatile Organogelator to Carbon Nanostructures

Stefano Cicchi[1,2], Luisa Lascialfari[1], Claudia Vinattieri[1], Giuliano Giambastiani[2], Debora Berti[1], Matteo Mannini[3], Alberto Brandi[1], Giacomo Ghini[4]
[1]Università di Firenze, Sesto Fiorentino-Firenze, Italy, [2]ICCOM-CNR, Sesto Fiorentino-Firenze, Italy, [3]INSTM, Sesto Fiorentino-Firenze, Italy, [4]IFAC-CNR, Sesto Fiorentino-Firenze, Italy

SM_P37 Rheological and Structural Characterisation of Nanostructured Gels From Aromatic Short Peptide Amphiphiles

Claire Tang[1,2], Rein V. Ulijn[3], Alberto Saiani[1]
[1]School of Materials, The University of Manchester, Manchester, UK, [2]Manchester Interdisciplinary Biocentre, The University of Manchester, Manchester, UK, [3]WestCHEM, Department of Pure & Applied Chemistry, University of Strathclyde, Glasgow, UK

SM_P38 Raspberry-like Hollow Silica Particles Synthesized by Using Negatively Charged Vesicles as Templates

Haruyuki Ishii, Kumi Sato, Daisuke Nagao, Mikio Konno
Department of Chemical Engineering, Graduate School of Engineering, Tohoku University, Sendai, 980-8579, Japan

SM_P39 Polymer gel electrolyte for lithium batteries based on novel functionalized mesoporous fillers

Monika Osinska, Mariusz Walkowiak, Monika Pokora, Agnieszka Martyla
Institute of Non-Ferrous Metals Branch in Poznan Central Laboratory of Batteries, Poznan, Poland

SM_P40 Spatial shrinking of pH-responsive hydrogels utilizing photo-triggered acid generation reaction

Prapatsorn Techawanitchai[1,2], Mitsuhiro Ebara[2], Takao Aoyagi[1,2]
[1]University of Tsukuba, Tsukuba/ Ibaraki, Japan, [2]National Instituite for Materials Science, Tsukuba/ Ibaraki, Japan

SM_P41 Novel Chiral Binaphthyl Compounds

LIN CHIEN-WEN, Cheng Kung-Lung, Liu Shih-Hsien, Wu Chun-Ming
Industrial Technology Research Institute, Hsinchu, Taiwan

SM_P42 Supramolecular assemblies of TTFcalix[4]pyrroles

Kent Nielsen, Steffen Hansen, Charlotte Rasmussen, Maria Slot, Kirstine Skytte
University of Southern Denmark, 5230 Odense M, Denmark

SM_P43 Induction and Transfer of Stir-Induced Optical Activity in Aqueous Solution

Kunihiko Okano, Takashi Yamashita
Tokyo University of Science, Chiba, Japan

SM_P44 Surface-Initiated ATRP Modification of Tissue Culture Substrates: Poly(glycerol monomethacrylate) as an Antifouling Surface

Elena Patrucco[1], Sihem Ouasti[2], Cong-Duan Vo[2], Piero De Leonardis[2], Antonino Pollicino[3], Steve P. Armes[4], Mariastella Scandola[1], Nicola Tirelli[2]
[1]Department of Chemistry "G. Ciamician" and INSTM UdR Bologna, University of Bologna, via Selmi 2,40126 Bologna, Italy, [2]Laboratory of Polymers and Biomaterials, School of Materials and School of Medicine, University of Manchester, Manchester M13 9PT, UK, [3]Dipartimento Metodologie Fisiche e Chimiche per l'Ingegneria, Universita` di Catania and INSTM UdR Catania, V.le Andea Doria 6, Catania, Italy, [4]Department of Chemistry, The University of Sheffield, Sheffield S3 7HF, UK

SM_P45 Manipulating the mechanical properties of self-assembling peptide hydrogels by chemical cross-links

Jonathan Gibbons, Aline Miller
University of Manchester, Manchester, UK

SM_P46 Synthesis of New Ladder and Semi-ladder Polymers Based on Indolocarbazoles for Organic Field Effect Transistors
Nicolas Cocherel, Ben Lidster, Michael Turner
The University of Manchester, Manchester, UK

SM_P47 Protein Hydrogels as Tissue Engineering Scaffolds
Khairunnisa Nabilah Haji Ruslan, Aline Miller
The University of Manchester, Manchester, UK

SM_P48 Addressing the solubility of carbon nanotubes in thermotropic liquid crystals
Yan Ji, Yan Yan Huang, Eugene Terentjev
University of Cambridge, Cambridge, UK

SM_P49 Developing A Structure-Property Relationship for the Solubility of PIM-1
Louise Maynard-Atem, Peter Budd, Christopher Mason
University of Manchester, Manchester, UK

SM_P50 Photo-polymerization of polyacrylamide onto natural rubber and application
Phanthakan Kaewarsa, Paveena Khansawai, Choosak Poonsawat
Khon Kaen University, Khon Kaen, Thailand

Wednesday 6 July 2011

Poster Session 2

17:15 - 18:30 Foyer & Exhibition Area, Renold Building

AT_P01 Monodisperse porous silica spheres and hierarchical structures
Adham Ahmed, Peter Myers, Haifei Zhang
University of Liverpool, Liverpool, UK

AT_P02 Maintaining a Stable Engineered Nanomaterials Process through Material Characterization
Andrew Salamon, Patrick Courtney
PerkinElmer Corporation, Shelton, CT, USA

AT_P03 Effect of the power supply on the synthesis of carbon nanostructures by arc discharge method
Stancu Mihaela, Ruxanda Grigore, Ciuparu Dragos
Universitatea Petrol-Gaze din Ploiesti, Ploiesti, Romania

AT_P04 Well-defined Polystyrene Nanofibers via Electrospinning
Hossein Roghani-Mamaqani[1], Vahid Haddadi-Asl[1,2], Mohammad Najafi[2], Mehdi Salami-Kalajahi[1,2]
[1]Amirkabir University of Technology, Tehran, Iran, [2]Research Institute of Petroleum Industry, Tehran, Iran

AT_P05 Fluorescent polymer particles for bioimaging and cellular delivery
Jonathan Behrendt, Michael Turner
University of Manchester, Manchester, UK

AT_P06 Towards the Conductivity of Elastomeric Material "Conductive Blends of Polyaniline Dodecylbenzenesulfonate and Polychloroprene"
Elaheh Bakhtiarian[1], Peter Foot[2]
[1]Dept. of Chem. Eng., Islamic Azad University, South Tehran Branch, Tehran, Iran, [2]Materials Research Group, Faculty of Science, Kingston University, Penrhyn Road, Kingston upon Thames, Surrey KT1 2EE, UK

AT_P07 Novel Multifunctional Rod-like Microampules for Encapsulation of Oils and Foam Stabilisation
Vesselin Paunov[1], Andrew Campbell[1], Benjamin Holt[1], Simeon Stoyanov[2]
[1]University of Hull, Hull, UK, [2]Unilever Research, Vlaardingen, The Netherlands

AT_P08 Modified properties of PU coating with considering to self-healing property using (Desmodure Z 4470) as isocyanate and the different Desmophens as polyalcohols
Ali Shokuhi Rad[1], Mehdy Ardjmand[2]
[1]Islamic Azad University, Qaemshahr branch, Qaemshahr, Iran, [2]Islamic Azad University, South Tehran Branch, Tehran, Iran

AT_P10 Purification of multiwall carbon nanotubes obtained by AC arc discharge method
Stancu Mihaela[1], Ruxanda Grigore[1], Ciuparu Dragos[1], Dinescu Adrian[2]
[1]Petroleum-Gas University of Ploiesti, Ploiesti, Romania, [2]National Institute for Research and Development in Microtechnologies, Bucuresti, Romania

AT_P12 Electrochemical biosensor for Hydrogen peroxide by immobilizing horseradish peroxidase on Ag nanoparticles matrix / GC electrode
Ali Shokuhi Rad
Islamic Azad University, Qaemshahr branch, Qaemshahr, Iran

AT_P14 Aerosol assisted chemical vapour deposition of titanium dioxide Thin films
CYNTHIA EDUSI, Geoffrey Hyett, Gopinathan Sankar, IVAN PARKIN
UNIVERSITY COLLEGE LONDON, LONDON, UK

AT_P16 Comparison of APTMS and low-conductivity polymer for biomolecules encapsulation on TiO_2-nanowire field-effect transistor
Chi-Chang Lin[1], Yung-Ming Chu[2], Hsien-Chang Chang[2]
[1]Department of Chemical and Materials Engineering, Tunghai University, Taichung, Taiwan, [2]Institute of Biomedical Engineering, National Cheng Kung University, Tainan, Taiwan

AT_P17 Separation of hydrogen from water molecules by ion implantation into thin Ti films
Liudas Pranevicius[1,2], Simona Tuckute[1], Marius Urbnavicius[1]
[1]Vytautas Magnus University, Kaunas, Lithuania, [2]Lithuanian Energy Institute, Kaunas, Lithuania

AT_P20 Investigation of the Formation of $CuInS_2$ Nanoparticles by the Oleylamine Route – Comparison of Microwave-Assisted with Conventional Syntheses
Mostafa Baghbanzadeh[1], Andreas Pein[2], Gregor Trimmel[2], C. Oliver Kappe[1]
[1]Christian Doppler Laboratory for Microwave Chemistry, University of Graz, Graz, Austria, [2]Christian Doppler Laboratory for Nanocomposite Solar Cells, Graz University of Technology and NanoTecCenter Weiz Forschungsgesellschaft GmbH, Graz, Austria

AT_P21 Silver Nano Paste and Reverse Offset Printing for Organic Thin-Film Transistors
Minseok Kim[1,2], Jae Bon Koo[1], Hyun Han[1,3], Tae-Youb Kim[1], Kang-Jun Beag[1], Soon-Won Jung[1], Young Suk Yang[1], In-Kyu You[1], Byeong-Kwon Ju[2]
[1]ETRI, Daejeon, Republic of Korea, [2]Korea University, Seoul, Republic of Korea, [3]Hanbat National University, Daejeon, Republic of Korea

AT_P22 The Nano-aggregates of Molybdenum Complexes
Xiaoming Lu, Jun Feng, Shizhen Du
Department of Chemistry, Capital Normal University, Beijing, China

AT_P23 Solution-processed CuSe Quantum Dots Photovoltaics
Nosipho Moloto, Hendry Puggens
University of the Witwatersrand, Johannesburg, South Africa

AT_P24 Organic Electronics: Synthesis and Characterization of Poly (3-octylthiophene) for Photovoltaic applications
Vineet Jain[1], Rajiv Singh[2]
[1]Delhi College of Engineering, Delhi, India, [2]National Physical laboratory, Delhi, India

AT_P25 HDA-capped ZnO nanoparticles prepared from the acetylacetonato zinc complex using single-source precursor route:Making them water soluble
Nobathembu Faleni, Makwena J. Moloto, Tshinyadzo R. Tshikhudo
University of Johannesburg, Johannesburg, South Africa

AT_P26 HDA-capped ZnO nanoparticles prepared from the acetylacetonato zinc complex using single-source precursor route:Making them water soluble
Nobathembu Faleni, Makwena J. Moloto, Tshinyadzo R. Tshikhudo
University of Johannesburg, Johannesburg, South Africa

AT_P28 New emissive layer for polymeric light emitting diodes with low threshold voltage
Fábio Correia[1], Laura Peres[2], Emerson Santos[1], Fernando Fonseca[1], Adnei Andrade[1], Wang Hui[1]
[1]Escola Politécnica da Universidade de Sao Paulo, Sao Paulo, Sao Paulo, Brazil, [2]Universidade Federal de Sao Paulo, Sao Paulo, Sao Paulo, Brazil

AT_P29 γ-RAY *IN SITU* SYNTHESIS OF SILVER NANOPARTICLES IN GELATIN HYDROGEL WITH ANTIBACTERIAL ACTIVITIES

Panprung Sikareepaisan[1,2], Uracha Ruktanonchai[2], Pitt Supaphol[1]
[1]The Petroleum and Petrochemical College, Chulalongkorn University, Pathumwan, Bangkok, Thailand, [2]The Center for Petroleum, Petrochemicals and Advanced Materials, Chulalongkorn University, Pathumwan, Bangkok, Thailand, [3]National Nanotechnology Center, Thailand Science Park, Klong Luang, Phathumthani, Thailand

AT_P30 Synthesis and characterization of Water soluble Covellite Copper Sulphide Quantum Dots

Swikisani Nelwamondo[1], Makwena Moloto[2], Rui Krause[1], Nosipho Moloto[3]
[1]University of Johannesburg, Johannesburg, South Africa, [2]Vaal university of technology, Vanderbijlpark, South Africa, [3]Witwatersrand University, Johannesburg, South Africa

AT_P31 Physical characterization of ophthalmic polymer containing glycerol dimethacrylate

A-Young Sung, Tae-Hun Kim
Deabul University, Jeonnam, Republic of Korea

AT_P32 UV-blocking effect and physical characterization of vinylaniline-containing hydrogel polymer

A-Young Sung, Tae-Hun Kim, Seon-Ahr Cho
Daebul University, Jeonnam, Republic of Korea

AT_P33 Effect of yttrium doping on structural and magneto-electrical properties of $La_{0.7}Ca_{0.3}MnO_3$ manganites

Abderrezak Amira[1], Fahima Lazghed[1], Mustafa Akdogan[2], Ahmet Varilci[2], Cabir Terzioglu[2], Mohammed Fayçal Mosbah[3]
[1]Faculty of Science and Technology, Jijel University, Jijel, Algeria, [2]Faculty of Arts and Sciences, Bolu University, Bolu, Turkey, [3]Faculty of Exact Sciences, Constantine, Algeria

AT_P34 Effects of Alcohol Additives on Dispersion State of ZnO Nanoparticles in ZnO/MEH-PPV Hybrid Films

Tanita Hirunpratеep[1,2], Nisanart Traiphol[1,2], Toemsak Srikhirin[3], Rakchart Traiphol[3,4]
[1]RU of Advanced Ceramics, Department of Materials Science, Faculty of Science, Chulalongkorn University, Bangkok, Thailand, [2]Center for Petroleum, Petrochemicals, and Advanced Materials, Chulalongkorn University, Bangkok, Thailand, [3]NANOTEC Center of Excellence at Mahidol University, Bangkok, Thailand, [4]Laboratory of Advanced Polymers and Nanomaterials, Department of Chemistry and Center for Innovation in Chemistry, Faculty of Science, Naresuan University, Phitsanulok, Thailand

AT_P35 Preparation of activated carbons from various biomasses with H_3PO_4 activation using microwave radiation

Esra Geyik, Tugce Aktar, Emine Yagmur, Zeki Aktas
Ankara University, Ankara, Turkey

AT_P36 Preparation and Characterization of Organic-inorganic Layered Compounds Composed of Two Metal Hydroxides by Self-assembly Reaction

Hideyuki Tagaya, Yugo Takahashi, Bunpei Akiba
Yamagata University, Jonan, Yonezawa, Yamagata, Japan

AT_P37 New composite films based on $Ca(OH)_2$ and biodegradable polymer
Shingo Nonaka, Hongyan Tian, Hideyuki Tagaya
Yamagata University, Jonan, Yonezawa, Yamagata, Japan

AT_P38 Preparation of Bio-compatible Layered Materials Based on Metal Hydroxide by Self-assembly Reaction
Takeshi Shimizu, Tatsuya Takahashi, Hideyuki Tagaya
Yamagata University, Jyonan, Yonezawa, Yamagata, Japan

AT_P39 Role of epoxides and oxetanes in the sol-gel synthesis of metallic oxide aerogels
Michaël LEMOINE, Laurent KOCON
CEA Le Ripault, Monts, France

AT_P41 Plasma surface treated UHMWPE fibers for dental FRCs: Surface nanostructure and chemistry
Niloofar Bahramian[1], Mohammad Atai[2], Mohammad Reza Naimijamal[3]
[1]Department Of Biomaterial, Science and Research Branch, Islamic Azad university, Tehran, Iran, [2]Iran Polymer and Petrochemical Institute (IPPI), P. O. Box 14965/115, Tehran, Iran, [3]Faculty of Chemistry, Iran University of Science and Technology, 16846, Tehran, Iran

AT_P42 pH-Triggered Drug Delivery Platform Based on Mesoporous Silica Nanoparticles
Mingyi Guo, Faheem Muhammad, Guangshan Zhu
Jilin University, Changchun, China

AT_P44 Towards Intelligent Insulation
Alex Holt[1], Richard Brown[1], Paul Lewin[1], Alun Vaughan[1], Peter Lang[2]
[1]University of Southampton, Southampton, UK, [2]UK Power Networks, Crawley, UK

AT_P45 Mesoporous Pt Metal with a Double Gyroid Bicontinuous Cubic Structure
Kaleem Asghar, Joanne Elliott, Adam Squires
Department of Chemistry, Reading, UK

AT_P46 Novel synthesis of single channelled inverse bicontinuous cubic nanostructured platinum with *Fd3m* and $I4_132$ symmetry
Samina Akbar, Joanne Elliott, Adam Squires
University of Reading, Reading, UK

AT_P47 Controlled integration of gold nanoparticles and organic fluorophores using synthetically modified bacteriophage MS2 viral capsids
Stacy Capehart, Matthew Francis
University of California, Berkeley, Berkeley, California, USA

AT_P49 Immobilized Palladium Nanoparticles on Silica Functionalized Kriptofix as a Recyclable Catalyst for the Synthesis of 1,4-Distyrylbenzenes Towards OLED Application
Khodabakhsh Niknam[1], Alireza Gharavi[2], Farhad Panahi[1], Abdollah Deris[1]
[1]Department of Chemistry, Persian Gulf University, Bushehr, Iran, [2]Departmnt of Electrical and Computer Engineering, Shiraz University, Shiraz, Iran

AT_P50 Microemulsions as Reaction Media for the Synthesis of Bimetallic Nanoparticles: Size and Composition of Particles
Ramona Y. G. Baum[1], Luis M. Magno[2], Wilfried Sigle[3], Peter A. van Aken[3], Daniel G. Angelescu[4], Cosima Stubenrauch[1,2]
[1]Institute of Physical Chemistry, University of Stuttgart, Stuttgart, Germany, [2]School of Chemical and Bioprocess Engineering, University College Dublin, Belfield, Dublin, Ireland, [3]Max-Planck-Institut für Metallforschung, Stuttgart, Germany, [4]Institute of Physical Chemistry, I.G. Murgulescu Romanian Academy, Bucharest, Romania

AT_P52 Molecular transport in ordered porous media: how guest-host attractions affect transport on different length scales
Aljaž Godec, Tina Ukmar, Miran Gaberscek, Franci Merzel
National Institute of Chemistry, Ljubljana, Slovenia

AT_P53 Thermal stability and mechanical properties of epoxy resins containing siloxane or phosphorus monomers
Piotr Murias[1], Henryk Galina[1], Hieronim Maciejewski[2]
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AT_P54 Synthesis of CdHgTe Nanoalloys Using Room-temperature "Molecular Welding" Effect
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AT_P56 Electron Transporters Based On Lithium Complexes for OLEDs: Transition from Electron Injecting to Electron Transporting Characteristics
Sivagnanasundram Surendrakumar, Juan Antipan-Lara, Seenivasagam Ravichandran, Poopathy Kathirgamanathan
Brunel University, London, UK

AT_P57 Discovery of Two New Phases of Zirconium tetrakis(8-hydroxyquinolinolate): Synthesis, Crystal Structure and their Electron Transporting Characteristics in Organic Light Emitting Diodes (OLEDs)
Poopathy Kathirgamanathan[1], Sivagnanasundram Surendrakumar[1], Seenivasagam Ravichandran[1], Juan Antipan-Lara[1], Subramaniam Ganeshamurugan[1], Muttulingam Kumaraverl[1], Vanga R Reddy[1], Vincent Arkley[1], Alexander J Blake[2], Daniel Bailey[2]
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AT_P58 Novel Phenanthroline Derivatives for Electron Transport in Organic Light Emitting Diodes (OLEDs)
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AT_P59 Highly Efficient Organic Light Emitting Diodes Based on Iridium(III) Bis (2-phenypyridinato) pyrazolonate
Poopathy Kathirgamanathan, Sivagnanasundram Surendrakumar, Seenivasagam Ravichandran, Muttulingham Kumaraverl, Ganeshamurugan Subramaniam, Juan Antipan-Lara
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AT_P60 Effect of Method of Electrodeposition on the Electrical and Photoelectrochemical Properties of Zinc Oxide Nano-Rods.
Yuji Suzuki[1], Seenivasagam Ravichandran[2], Poopathy Kathirgamanathan[2], Arokia Nathan[1]
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AT_P62 The core-shell, bariumtitanate/block-copolymer particles for high dielectric and high energy density composite films
Hyun Min Jung[1], Sunwoo Lee[2], Jong Chan Won[3], Yong Seok Kim[3]
[1]Kumoh National Institute of Technology, Gumi, Republic of Korea, [2]Chonam National University, Gwangju, Republic of Korea, [3]Korea Research Institute of Chemical Technolgoy, Daejeon, Republic of Korea

AT_P63 High surface area hybrid nanoporous materials via a facile, single-step preparation
Ian Teasdale, Ivo Nischang, Oliver Brüggemann
JKU, Linz, Austria

AT_P64 Inhomogeneous Distribution of Solid state Photochromic Reaction of Diarylethene Dervatives and their Memory Effect
Toshihiko Kato, Kunihiko Okano, Takashi Yamashita
Tokyo University of Science, Noda, Chiba, Japan

AT_P66 LATICES SYNTHESIS STABILIZED WITH NON-IONIC SURFACTANTS, FILM TOPOGRAPHY, AND ELECTRICAL POTENCIAL MAPS
Ziarat Shah, Maria do Carmo, Fernando Galembeck
Instituto de Química, Campinas, Sao Poulo, Brazil

AT_P67 Influence of Tacticity and Substituents on Thermal and Solution Properties of Captodatively Substituted Polymer Materials
Hitoshi Tanaka, Miki Niwa
University of Tokushima, Tokushima, Japan

AT_P68 Incorporation of long-chain carboxylate ions into layered zinc hydroxides in liquid-liquid systems and their conversion to nanostructured ZnO
Shinobu Fujihara, Sara Inoue
Keio University, Yokohama, Japan

AT_P70 A novel self-organizable anisotropic conductive film (SO-ACF) with silver acetate for ultra-fine pitch applications
Oh Hyeong Kwon[1], Ju-Yeol Kim[2], Dae-Young Ku[2], Jin-Sang Hwang[2], Cheol Joo Kim[1]
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AT_P71 SELF ASSEMBLY OF LANTHANIDE COMPLEXES ON SILICON WAFERS
Jakub Waldemar Trzcinski[1], Kasjan Misztal[1], Cristina Tudisco[2], Guglielmo G. Condorelli[2], Joanna Malicka[3], Nicola Armaroli[3], Enrico Dalcanale[1]
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AT_P72 Gd-CONTAINING CONJUGATED POLYMER NANOPARTICLES: BIFUNCTIONAL MATERIALS FOR FLUORESCENCE AND MRI IMAGING
Zeina Hashim[1], Mark Green[1], Lea Ann Dailey[2], Maya Thanou[3]
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AT_P73 Evaluating the effect of the precipitation procedure on the size, shape, heating and magnetic properties of γ-Fe_2O_3 nanoparticles

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AT_P74 Langmuir-Blodgett films of a quinoline-fluorene based copolymer

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AT_P75 Spin-Crossover $Fe^{II}N_6$ Complexes of Nonplanar Tridentate Ligands: An Overview

Saleem Javed, Rabindranath Mukherjee
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AT_P76 Dielectric breakdown process of alumina ceramics

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AT_P77 The Effect of Graphene Size on the Physical Properties of Polyurethane/Functionalized

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AT_P78 Size effect and luminescent properties of star-shaped ZnO particles prepared by a simple aqueous solution method

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AT_P79 Synthesis and characterization of palladium carbon nanostructure composites

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AT_P80 Phase Engeneering and Size Adjustability of Inorganic Nanoscale Hollow Spheres via reverse Microemulsions

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AT_P81 Synthesis and Characterization of Advanced Materials Based of Nanogold on Carbon Nanowall Templates

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AT_P82 Fabrication of Clickable Low Fouling Thin-Film Composite Membranes
Matthias Haeussler, Simon Harrisson, Guoxin Li, Jana Habsuda, Ezio Rizzardo, Marek Jasieniak, Hans Griesser, Christopher Barner-Kowollik, Maude Le Hellaye, Vicky Chen, Jaleh Mansouri, Ian Dagley
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AT_P83 Photo-Chemically-Induced Surface Free Energy Control of Polyimides
Fumiaki Kodera, Kunihiko Okano, Takashi Yamashita
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AT_P84 Nitrogen, palladium - codoped TiO_2 for efficient visible light photocatalytic dye degradation
Alex Kuvarega, Rui Krause, Bhekie Mamba
University of Johannesburg, Johannesburg, South Africa

AT_P85 Planar Transition Metal Complexes for use in Field Effect Transistors
Alexander Whyte[1], Michio Matsushita[2], Kunio Awaga[2], Neil Robertson[1]
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AT_P86 Correction of colour pigments in nano-ceramics from waste
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AT_P87 Nano ceramics with insulating properties of industrial waste
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AT_P88 Generation of Silver Nanoparticles in the Presence of Oligoproline Derivatives
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AT_P89 Synthesis of Yttrium and Erbium selenite and selenide
Miluvka Stancheva, Tsvetan Dimitrov, Veska Mateva
RU Angel Kanchev Razgrad Branch, Razgrad, Bulgaria

CS_P01 Successive Compressive Stress Model for the Rapid Growth of Tin Whiskers on the Surface of Rare Earth Containing Alloys
Tung-Han Chuang
Department of Materials Science and Engineering, National Taiwan University, Taipei, Taiwan

CS_P02 Electrical and magnetic properties of Nb_2VSbO_{10}
Tadeusz Gron[1], Elzbieta Filipek[2], Mateusz Piz[2], Henryk Duda[1], Tadeusz Mydlarz[3]
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CS_P03 Paramagnetic and superparamagnetic-like behaviour in $CdRE_2W_2O_{10}$ (where RE = Y, Nd, Sm, Gd, Tb, Dy, Ho and Er)

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CS_P04 Influence of 3-*d* transition-metal ion on the magnetic order in $MPr_2W_2O_{10}$ (M = Mn, Co, Cd)

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CS_P06 Self-Assembly of Chiral Bisbenzimidazole-Containing Metal-Organic Framework

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CS_P07 12-Aminododecanoic acid as carbon steel corrosion inhibitor

Saad Ghareba, Sasha Omanovic

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CS_P08 New substituted nickel aluminates spinelic oxides, $Ni_xZn_{1-x}Al_2O_4$ (x = 0.1,0.2,0.4,0.6, 0.8, 1) obtained following a starch-assisted routine: structural, optical and catalytic properties

Diana Beatrice Visinescu[1], Oana Carp[1], Ioan Balint[1], Adelina Ianculescu[2], Carmen Paraschiv[3]

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CS_P09 Rare earth metal chloride-impregnated aluminium oxide-pillared bentonite clays and iron oxide-pillared clays as mesoporous materials catalysts for the Friedel-Crafts benzoylation

Piyarat Trikittiwong, Warinthorn Chavasiri

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CS_P10 Structural and dynamical properties of a model molecule in mesoscopic confinement

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CS_P11 Synthesis and Characterization of Mixed Ligand Uranium Complexes with some Amino Acids

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CS_P12 Atomic Layer Deposition of MOF-5 and IRMOF-8 Thin Films
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CS_P13 Studies on Mixed Ligand Complexes of Ni(II) with Polydentate Ligands
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CS_P14 Synthesis, Spectral and Biological Studies on Mixed Ligand Cobalt (II) Complexes with Polydentate Ligands
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CS_P15 Thermal Study on Mixed Ligand Dioxouranium (VI) Complexes with some Amino Acids
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CS_P16 A Thermal Study on Mixed Ligand Ni(II) Complexes with Polydentate Ligands
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CS_P17 A Thermal Study on Mixed Ligand Co(II) Complexes with Polydentate Ligands
Sanjay Patil
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ES_P01 A New Arrangement Of Conical 3D Roughness For Energy and Heat transfer Enhancement
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ES_P03 In situ observation of network formation in soggy sand electrolytes
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ES_P05 SYNTHESIS AND CHARACTERISATION OF PEROVSKITES DOPED WITH OXYANIONS FOR APPLICATION AS SOFC CATHODE MATERIALS
Peter Slater, Jose Porras, Cathryn Hancock, Colin Greaves
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ES_P06 Strategies for promoting new energy technologies to school pupils and the public
Peter Slater[1], Tom Jeavons[1], Cathryn Hancock[1], John Varcoe[2], Julia Percival[2]
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ES_P07 Biodiesel Production by Esterification of Oleic Acid via Zirconia-based Compounds as Heterogeneous Superacid Catalysts
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ES_P08 Tetra-constituent co-assembly to an ordered mesoporous carbon-silica-titania nanocomposite as a novel anode material in lithium ion secondary batteries
Yuanyuan Zhou[1,2], Songhun Yoon[1,2], Chulwee Lee[1,2]
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ES_P10 Direct photo-patterning of submicron scale diffraction gratings on photosensitive TiO2 sol-gel films for solar applications
Valentin Gâté[1,2], Samir Briche[2], Yannick Bourgin[1], Yves Jourlin[1], Michel Langlet[2], Francis Vocanson[1]
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ES_P11 Preparation of Cr Added $Li_4Ti_5O_{12}$ Anode Materials by sol-gel method
Byung-Ki Na[1], Sun-Ah Kim[1], Byung-Won Cho[2]
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ES_P13 Excess Gibbs Energies of heptan-2-one + 1,1,2-trichloroethane or Pentachloroethane mixtures at differente temperatures
Ouahiba Tafat-igoudjilene[1], Ahmed Aitkaci[2], Jacque Jose[3]
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ES_P14 Synthesis and photophysical properties of donor-acceptor block copolymers
Erika Bicciocchi[1,2], Ken Ghiggino[1], Ezio Rizzardo[2], Ming Chen[2]
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ES_P15 Post combustion capture of CO_2 via adsorption : process stability of SBA15-PEI adsorbent.
Gregory Knowles[1,2], Alan Chaffee[1,2]
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ES_P16 Preparation of chemical bath deposited titanium oxide for its application in inverted bulk-heterojunction polymer solar cells
Takayuki Kuwabara, Mitsuhiro Kuzuba, Takahiro Yamaguchi, Kohshin Takahashi
Kanazawa university, Kanazawa, Japan

ES_P18 Onboard Partial Dehydrogenation of Kerosene Jet A-1 with Pt-Sn/γ-Al_2O_3 catalyst for hydrogen and dehydrogenated fuel generation for aircraft application.
Kan-Ern Liew[1,2], Alexander Ohnesorge[2], Christian Wolff[2], Helmut Oberpriller[2], Carlo Resini[1], Juergen Steinwandel[2], Deborah Jones[1]
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ES_P19 A New Class of Organic Dyes for Dye-sensitized Solar Cells
David Danner, Ameneh Bamedi, Markus Obermaier, Gabriele Nelles, Gerda Fuhrmann
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ES_P20 Syntheses of Nanoparticles and Thin Films of $Cu(In,Ga)(S,Se)_2$

Ji-Hyun Cha[1], YeJi Lee[1], SeJin Noh[1], Ji-Hyun Kim[1], JongHyun Lee[2], Duk-Young Jung[1]

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ES_P21 Comparison of ZnO and Al-doped ZnO in the Oxide/Metal/Oxide Transparent Electrode Structure

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ES_P22 Density functional theory studies of point defetcs in $LiNiO_2$

Hungru Chen, Colin Freeman, John Harding, Tony West

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ES_P23 Anode Materials for Li-ion Battery Based on Rutile-TiO_2

Nouf Alotaibi, Anthony West

University of Sheffield, Sheffield, UK

ES_P24 Heterogeneous amphiphilic catalysts for biodiesel synthesis

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ES_P25 Synthesis, characterization and electrical properties of $Li_2MP_2O_7$ (M=Fe, Mn, Co) cathode materials for lithium-ion batteries

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LH_P01 Catalytic ozonation of VOCs in water with ZSM-5 zeolites and alumina

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LH_P02 Preparation of Organic Selenocystine using Saccharomyces cerevisiae Yeast

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LH_P03 Cooperation of phosphates and carboxylates controls kidney stone-related calcium oxalate crystallization

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LH_P04 New technology for porous alloys fabrication

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LH_P05 Duel-effects of adsorption and photodegradation of dyes using TiO_2-zeolite X photocatalyst synthesized by kaolin: An investigation of the effects of operational parameters

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LH_P06 Composite scaffolds of fibers and micro- or nanoparticles *in-situ* prepared by electrohydrodynamic jetting
Harim Bae, Nae-Oh Chung, Jonghwi Lee
Chung-Ang University, Seoul, Republic of Korea

LH_P07 A Rapid Colorimetric Visualization Assay of Fluoride Ion by Using Gold Nanoparticles
Jiun-An Gu, Sheng-Tung Huang
National Taipei University of technology, Taipei, Taiwan

LH_P08 Effect of Poly (Ethylene Glycol)-Grafted Phospholipids on the Morphology of Zwitterionic and Negatively-Charged Membranes and their Interactions with Insulin.
Muhammad Naeem Shahid, Kanwal Tanwir, Valeria Tsoukanova
York University, Toronto, ON, Canada

LH_P09 Kinetic Studies of the Ring-Opening Bulk Polymerization of ε-Caprolactone Initiated by Titanium(IV) n-Butoxide Using Differential Scanning Calorimetry
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LH_P10 Control of specific gravity of alginate gel beads for easy collection of adsorbent from bottom sediment and water
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LH_P11 Interactions of Cancer Cells & Inorganic Materials; Towards a Selective Surface.
Graham Hickman[1,2], David Boocock[1,2], Robert Rees[1,2], Carole Perry[1]
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LH_P12 New materials from chemically modified proteins: viral capsid based targeted imaging agents for atherosclerosis detection
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LH_P14 Biological activity of gentamicin coated ZnO
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LH_P17 Cellulosic and non-cellulosic antimicrobial materials for water disinfection
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LH_P18 Preparation and characterization of an injectable hydrogel for prevention of post-operative tissue adhesions
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LH_P19 Polyphosphazenes designed for use as macromolecular drug delivery agents
Ian Teasdale, Sandra Wilfert, Oliver Brüggemann
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LH_P20 Magnetic properties and applications of cobalt-ferrite nanoparticles formed in a cage-shaped protein, and their three-dimensional crystals
Mitsuhiro Okuda, Jean-Charles Eloi, Sarah Ward Jones, Andrei Sarua, Walther Schwarzacher
University of Bristol, Bristol, UK

LH_P21 A General Strategy for the Control of the Interfacial Behaviour of Materials with Biomolecules.
Emily Parker[1,2], Mark Moloney[1], Cleo Choong[3], Jon-Paul Griffiths[2]
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LH_P22 Development of Luminescent Labels for use in Miniaturised Immunoassay Devices
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SM_P01 Polymeric nanofibers by freezing dilute solutions
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SM_P02 Investigation about Important properties of Polymer Latex Coating Used in Lost Foam Casting
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SM_P03 Polymer brushes: A resourceful opportunity towards functional materials
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SM_P04 Smart green composite materials: Cuttlebone as a reinforcing filler for natural rubber vulcanizates
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SM_P06 Novel method for fabricating microgel core vesicle using lecithin based microemulsion
Eunjung An, Do Hoon Kim, Junoh Kim
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SM_P07 Chemically linking fragrance containing microcapsules to increase retention on fabrics.
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SM_P08 Microencapsulation of probiotics in sporopollenin microcapsules
Shwan Hamad[1], Simeon Stoyanov[2], Vesselin Paunov[1]
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SM_P09 Calculation of bulk elastic constants of a Gay- Berne nematic liquid crystals from new direct correlation and pair distribution functions.
Abolghasem Avazpour[1], Hosain Askari[2], Roholla Gheisari[3], Foroogh Lotfi[4]
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SM_P10 novel star anise-like nano aggregate from amphiphilic crystalline-coil copolymer using poly(p-dioxanone) as hydrophobic crystalline segments and poly(ethylene glycol) as hydrophilic segments
Si Chong Chen, Hao Wang, Gang Wu, Yu Zhong Wang
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SM_P11 thermally-induced shape memory segmented PPDO-PTMEG poly(ether-ester)s
Jing-Jing Zhang, Ke-Ke Yang, Cai-Li Huang, Chao Chen
College of Chemistry, Sichuan University, Chengdu, China

SM_P12 in situ reinforced and flame-retarded polycarbonate by a novel phosphorus-containing thermotropic liquid crystalline copolyester
Li Chen, Rong Yang, Heng-Zhen Huang, Hong-Bing Chen, Yu-Zhong Wang, Si-Chong Chen
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SM_P13 Photo-chemically Induced Extraordinary Refractive Index Change of Poly(phenylene vinylene) Derivatives
Takashi Yamashita, Yosuke Nakatoh, Kota Shinohara, Kunihiko Okano
Tokyo university of Science, Chiba, Japan

SM_P14 The Structure of Liquid Al-Si alloys with Chemical Short range Order
Ruchi Shrivastava
Department of Chemistry, ITS Engineering College, Knowledge Park – III, Greater Noida, U. P., India

SM_P15 Exclusions of Model Impurity Particles to the Grain Boundaries of Charged Colloidal Crystals.
Koki Yoshizawa, Toru Okuzono, Junpei Yamanaka
Nagoya City University, Nagoya, Japan

SM_P16 Composite Hydrogel-Actuated Nanostructured Surfaces as Dynamic Materials

Michael Aizenberg[2], Philseok Kim[2], Lauren Zarzar[1,2], Mughees Khan[2], Joanna Aizenberg[1,2]

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SM_P17 Understanding Hydrogelation Using Molecular Rotors

Jaclyn Raeburn, Lin Chen, Steven Revel, Dave Adams

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SM_P18 Thermophysical and thermodynamic studies of chalcogenide glass (As_2S_3)

Raj Kumar Mishra

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SM_P19 Magnetically-Guided Self-Assembly of Triphenylene-Based Discotic Liquid Crystals

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SM_P20 Exploiting CH-π interactions in supramolecular hydrogels of aromatic carbohydrate amphiphiles

Louise S. Birchall[1], Sangita Roy[1], Vineetha Jayawarna[1], Meghan Hughes[1], Eleanore Irvine[1], Gabriel T. Okorogheye[2], Nabil Saudi[2], Emiliana De Santis[2], Tell Tuttle[1], Alison A. Edwards[2], Rein V. Ulijn[1]

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SM_P21 Energy transfer in self-assembled dipeptide hydrogels

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SM_P22 Study of crystallisation in isotactic polypropylene processed by different mesh extrusions

Fabiola Navarro-Pardo[1,2], Ana Beatriz Morales-Cepeda[2], Tomás Lozano-Ramírez[2], Ricardo Obregón-Guerra[3]

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SM_P23 Mesoporous polymer monolith: functional group modification and application

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SM_P24 Tunable Fluorescent Dendron Nanotubes for Sensory Platform

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