

Tuesday 12 April 2011

Poster session

17:00 - 18:30 University Place, Exhibition Area

- EP_P01 Co-processing of Crude Palm Oil with Petroleum Gas Oil in a Hydrotreating Process
Apiwat Iamborisuth¹, Siriporn Jongpatiwut¹, Thirasak Rirksomboon^{1,2}, Thammanoon Sreethawong^{1,2}, Somchai Osuwan², Suchada Butnark³, Sander van Schalkwijk⁴
¹The Petroleum and Petrochemical college, Bangkok, Thailand, ²Chulalongkorn University, Bangkok, Thailand, ³Ptt Research and Technology Institute, Ayutthaya, Thailand, ⁴Thai Oil Public Company Ltd, Chonburi, Thailand
- EP_P02 Role of carbon aerogels and catalysts on the hydrogen sorption kinetics of LiAlH₄
Phunsap Purasaka, Pramoch Rangsunvigit, Boonyarach Kitiyanan, Santi Kulprathipaya, Thayalak Chaisuwan
The petroleum and petrochemical college, Soi Chulalongkorn 12, Phayathai road, Pathumwan, Bangkok 10330, Thailand
- EP_P03 An intermolecular heterobimetallic system for photocatalytic water reduction
Sven Hansen, Torsten Beweries, Uwe Rosenthal
Leibniz-Institut fuer Katalyse e. V., Rostock, Germany
- EP_P04 Energy and Photochemistry
Harrison Chukwukere
Nekede Poythekni, Festac Town, Nigeria
- EP_P05 Abstract on Energy and Photochemistry
Harrison Chukwukere
Nekede Poytheknic, Festac Town, Nigeria
- EP_P06 Photocatalytic Degradation of Triflurin using Nano-size Thermo-chemically synthesized TiO₂
Samriti Monga, O. P. Yadav, Beena Kumari
Chaudhary Charan Singh Haryana Agriculture University, Hisar, Haryana, India
- EP_P07 Fabrication and Photoactivity Study of Titania Nanotube with Oxovanadium(IV) Complex in a Photoelectrochemical Cell with an Aqueous Electrolyte
Asma M. Milad¹, Aisha A. Al-abbass², Wan Ramli Wan Daud^{3,1}, Mohammad B. Kassim^{2,1}
¹Fuel Cell Institute, Universiti Kebangsaan Malaysia, 43600 Bangi, Selangor, Malaysia, ²School of Chemical Sciences & Food Technology, Faculty of Science & Technology, Universiti Kebangsaan Malaysia, 43600 Bangi, Selangor, Malaysia, ³Department of Chemical & Process Engineering, Faculty of Engineering & Built Environment, Universiti Kebangsaan Malaysia, 43600 Bangi, Selangor, Malaysia
- EP_P08 Mono and Dinuclear Ruthenium Complexes as Catalysts for Water Oxidation
Laura Vigara, Stephan Röeser, Antoni Llobet
Institute of Chemical Research of Catalonia (ICIQ), Tarragona, Spain
- EP_P09 Synthesis of novel porphyrin sensitizers for solar cell applications
Kalliopi Ladomenou, Georgios Charalambidis, Dimitra Daphnomili, Athanassios G. Coutsolelos
University of Crete, Heraklion, Crete, Greece

- EP_P10 Harvesting Sunlight using Copper(I) Dyes
Tracy Hewat, Neil Robertson, Lesley Yellowlees
 University of Edinburgh, Edinburgh, Midlothian, UK
- EP_P11 Lanthanide complexes for Luminescent Solar Concentrators
Martina Congiu¹, Patricia Richardson¹, Serena Ciorba², Bryce Richards²,
 Anita Jones¹, Neil Robertson¹
¹University of Edinburgh, Edinburgh, UK, ²Heriot-Watt University, Edinburgh,
 UK
- IM_P01 High-temperature CO₂ adsorbents derived from layered double hydroxides:
 influence of alkali metal carbonate
Hui Huang Tay, Qiang Wang, Jizhong Luo, Armando Borgna
 Institute of Chemical and Engineering Sciences, A*STAR, Singapore,
 Singapore
- IM_P02 FIR Study of the Prussian Blue Analogue Na₂Co₄[Fe(CN)₆]_{3.3}·11H₂O:
 Interplay between Transition Metal Ions Electronic Switch and Sodium Ions
 Displacement
Julien LEJEUNE¹, Pascale ROY^{2,1}, Anne BLEUZEN¹
¹Institut de Chimie Moléculaire et des Matériaux d'Orsay, Orsay, France,
²Soleil Synchrotron, Gif-sur-Yvette, France
- IM_P03 Antimony doped tin oxide (ATO) coating from basic solutions of
 peroxytannate and peroxyantimonate
Sergey Sladkevich¹, Alexey Mikhaylov², Petr Prikhodchenko^{1,2}, Ovadia Lev¹
¹The Hebrew University of Jerusalem, Jerusalem, Israel, ²Kurnakov Institute
 of General and Inorganic Chemistry, Russian Academy of Sciences, Moscow,
 Russian Federation
- IM_P04 Investigations of Novel Molecular Nanomagnets
Joris van Slageren
 Universität Stuttgart, Stuttgart, Germany
- IM_P05 Solution Synthesis and Characterisation of Mesoporous and Nanostructured
 Powdery Oxide Materials
Elena Trusova
 Institution of Russian Academy of Science A.A. Baikov Institute of Metallurgy
 and Materials Science of RAS, Moscow, Russian Federation
- IM_P07 Novel Hybrid Materials of Metal-Containing Spherosilicate
hongzhi liu, Michael Puchberger, Ulrich Schubert
 Institute of Materials Chemistry, Vienna, Austria
- IM_P08 Lead-free solder alloys: Thermodynamic properties of the Au-Sb-Sn-system
Michael Hindler, Zhongnan Guo, Adolf Mikula, Jakob Steiner
 Department of Inorganic Chemistry / Materials Chemistry, University of
 Vienna, Vienna, Austria
- IM_P09 The surface tension and density of Cu-Bi-Sn alloys
Zhongnan Guo, Michael Hindler, Adolf Mikula
 Department of Inorganic Chemistry / Materials Chemistry, University of
 Vienna, Vienna, Austria
- IM_P10 Synthesis, characterization, magnetic properties and OLED's application of
 aluminium(III) tris-8-hydroxyquinolate
Nelcari T Ramirez¹, Camilo J. Viasus², A. M. Ardila¹, Ana Esperanza Burgos
 C²
¹Grupo de Física Aplicada, Universidad Nacional de Colombia, Bogotá D.C.,
 Colombia, ²Universidad de Ciencias Aplicadas y Ambientales, Bogotá D.C.,
 Colombia

- IM_P11 Metal complexes of alkyl-aryl dithiocarbamate as single source precursors for nanoparticles
Peter Aijbade
University of Fort Hare, Alice, South Africa
- IM_P12 Plant Virus Templated Synthesis of Monodisperse Inorganic Nanoparticles
Alaa Aljabali, Elaine Barclay, George Lomonossoff, David Evans
John Innes Centre, Norwich, UK
- IM_P13 DISCOVERY OF ADVANCED NANO-MATERIALS (KCC-1 & KCC-2) AND ITS APPLICATIONS IN CATALYSIS
VIVEK POLSHETTIWAR, JEAN-MARIE BASSET
King Abdullah University of Science and Technology, Thuwal, Jeddha, Saudi Arabia
- IM_P14 Nano-structured metallic bismuth obtained from colloidal dispersions
Selene Rubí Islas Sánchez, *Silvia Elena Castillo Blun*
Universidad Nacional Autónoma de México, Mexico City, Mexico
- IM_P15 Analytical method developement for extractive spectrophotometric determination of Platinum (II) using 1,2-Propanedione-1-phenyl-1-(2-hydroxy-5-bromobenzilidiazine)2-oxime as a new analytical reagent
Rama S. Lokhande, Poonam P. Shevde, Sushama M. Lele
Department of Chemistry, University of Mumbai, Mumbai, Maharastra, India
- IM_P16 SYNTHESIS, CHARACTERIZATION AND MAGNETIC PROPERTIES OF COORDINATION COMPOUNDS WITH CHIRAL LIGANDS
Yenny Avila-Torres¹, *Ramon Vicente*^{1,2}, *Edgar Mijangos*^{1,3}, *Angelina Flores-Parra*^{1,3}, *Rosalinda Contreras*^{1,3}, *Norah Barba-Behrens*¹
¹*Universidad Nacional Autónoma de México, Mexico, D.F., Mexico,*
²*Universitat de Barcelona, Barcelona, Spain,* ³*Centro de Investigacion y Estudios Avanzados, Mexico, D.F., Mexico*
- IM_P17 Polynuclear Coordination compound with benzazoles: Structure, spectroscopic and magnetic study
Francisco Yoe¹, *Edgar Mijangos*², *Rosalinda Contreras*², *Norah Barba-Behrens*¹
¹*Departamento de Química Inorgánica, Facultad de Química, Universidad Nacional Autónoma de México, México 04510, DF, Mexico,* ²*Departamento de Química, Cinvestav, México 07000, DF, Mexico*
- IM_P18 EICC-1
Oussama M El-Kadri¹, *Mary Jane Heeg*², *Charles H Winter*²
¹*American University of Sharjah, Sharjah, United Arab Emirates,* ²*Wayne State University, Detroit, MI, USA*
- OC_P01 Reactivity of alkyne substituted metal clusters: activation of C-Si bonds and formation of C-N, C-P and C-S bonds.
Vianney González-López, Indira Torres-Sandoval, Aldo Estrada-Montaña, María J. Rosales-Hoz
Departamento de Química, Centro de Investigación y de Estudios Avanzados, México D. F., Mexico
- OC_P02 Synthesis, Coordination, and Electronic Structure of a Mesoionic Pseudo-Amido Ligand
Robert J. Thatcher, *David G. Johnson, John M. Slattery, Richard E. Douthwaite*
University of York, York, UK
- OC_P03 Quantification of Backbonding in Metal-Dioxygen Complexes
Danielle Covelli, *Pierre Kennepohl*
The University of British Columbia, Vancouver, BC, Canada

- OC_P04 Iron-carbene complexes for small molecule activation
Sergey Zlatogorsky, Laura Wylde, Michael Ingleson
The University of Manchester, Manchester, UK
- OC_P05 Di- and Polynuclear Tungsten, Iron and Rhenium Acetylides, Cumulenes and Carbynes.
Heinz Berke, Sergey Semenov, Carolina Egler, Franziska Lissel, Olivier Blacque, Thomas Fox, Koushik Venkatesan
University of Zurich, Institute of Inorganic Chemistry, 8057 Zurich, Switzerland
- OC_P06 Direct cellulose conversion into hydroxymethylfurfural (HMF): catalysis under sustainable conditions in aqueous media in absence of polluting chemicals.
Angela Dibenedetto^{1,2}, Michele Aresta^{1,3}, Carlo Pastore², Stefano Paolo¹
¹University of Bari, Bari, Italy, ²Metec-Valbion, Bari, Italy, ³CIRCC, Bari, Italy
- OC_P07 Novel sterically bulky phosphines on ruthenium: Effects on dinitrogen coordination
Leslie Field, Ryan Gilbert-Wilson
University of New South Wales, Sydney, New South Wales, Australia
- OC_P08 Aromatization of n-Pentane over modified HZSM-5 Catalysts
Suppakit Kittammakulnij¹, Siriporn Jongpatiwut^{1,2}, Thirasak Rirksomboon^{1,2}, Boonyarach Kittiyanan^{1,2}
¹The Petroleum and Petrochemical College, Bangkok, Thailand, ²Chulalongkorn University, Bangkok, Thailand
- OC_P09 C-H activation mediated by manganese(III) salen complex, n-heptane transformation
Camilo J. Viasus¹, Ana Esperanza Burgos C¹
¹Universidad de Ciencias Aplicadas y Ambientales, Bogotá D.C., Colombia, ²Universidad Nacional de Colombia, Bogotá D.C., Colombia
- OC_P10 n-Butanol obtention by C-H bond activation mediated by cobalt(III), manganese(III) and oxovanadium(IV) salen complexes, waste oil transformation
Patricia Ospina¹, Angie Penagos¹, Catherin Catolico¹, Ana Esperanza Burgos C², Camilo J. Viasus^{1,2}
¹Universidad de Ciencias Aplicadas y Ambientales, Bogotá D.C., Colombia, ²Universidad Nacional de Colombia, Bogotá D.C., Colombia
- OC_P11 Deoxygenation of Beef Fat over Different Pd Supported Catalysts
Rutkorn Chinsutthi¹, Siriporn Jongpatiwut¹, Thammanoon Sreethawong¹, Somchai Osuwan²
¹Chulalongkorn University, Bangkok/Center, Thailand, ²National Center of Excellence for Petroleum, Petrochemicals and Advanced Materials, Bangkok/Center, Thailand
- OC_P12 Cyclopropanation of olefins with ethyl diazoacetate catalyzed by electron deficient tin(IV) porphyrins
shadab gharaati, majid Moghadam, shahram Tangestaninejad, Valiollah Mirkhani, Iraj Mohammadpoor-Baltork
Esfahan university, Esfahan, Esfahan, Iran
- OC_P13 Platinum group metal complexes derived from pyridine-2-telluroate ligand: serendipitous isolation of a Te(0) complex [Pt(Te)(TepyR)₂(PPh₃)]
ROHIT SINGH CHAUHAN, G. KEDARNATH, A. WADWALE, VIMAL KUMAR JAIN
BHABHA ATOMIC RESEARCH CENTRE, MAHARASTRA, India
- OC_P14 Wilkinson's Iridium Acetate Trimer as a Molecular Model for Iridium Oxide
Alexander R. Parent, James D. Blakemore, Meng Zhou, Gary W. Brudvig, Robert H. Crabtree
Yale University, Department of Chemistry, PO Box 208107, New Haven, CT, USA

- OC_P15 Intramolecular CH-Activation at a ruthenium(II) complex: A key step for base free catalytic transfer hydrogenation
Leila Taghizadeh Ghoochany, Saeid Nalchigar, Yu Sun, Werner R. Thiel
Technische Universität Kaiserslautern, Kaiserslautern, Germany
- OC_P16 Coordination Chemistry of [Zn₂Cp*₂]: Formation of Novel {ZnZnCp*} Ligands Coordinating to Transition Metals
Timo Bollermann¹, Kerstin Freitag¹, Christian Gemel¹, Moritz von Hopffgarten², Gernot Frenking², Roland A. Fischer¹
¹Ruhr University Bochum, Bochum, Germany, ²Philipps University Marburg, Marburg, Germany
- OC_P17 Tuning the Energy of the Charge Transfer Band in N,N'-Heterocyclic Complexes of the Group 6 Carbonyls
Franz Wimmer
Universiti Brunei Darussalam, Gadong, Brunei Darussalam
- OC_P18 Synthesis and Characterization of Novel Palladium Complexes Containing NN' Pyridyl-Imine Ligands as Efficient Catalysts for Suzuki-Miyaura Cross-Coupling Reactions
CHENG-WEI YEH, YI-ZHEN CHEN, KUO-CHEN SHIH, MAO-LIN HSUEH
Industrial Technology Research Institute, Hsinchu, Taiwan
- OC_P19 Synthesis and X-ray crystal structure of a novel organometallic (m₃-oxido)(m₃-imido) trinuclear iridium complex
Magnus Schau-Magnussen^{1,2}, Phillip Malcho^{1,2}, Konrad Herbst¹, Michael Brorson¹, Jesper Bendix²
¹Haldor Topsøe A/S, Lyngby, Denmark, ²Department of Chemistry, University of Copenhagen, Copenhagen, Denmark
- OC_P20 The Reactivity of f-Element Carbene Complexes
David Mills, Oliver Cooper, Lyndsay Soutar, Stephen Liddle
University of Nottingham, Nottingham, UK
- OC_P21 Functionalisation of Multi-dentate Amido Uranium (IV) Complexes
David King, Stephen Liddle
University of Nottingham, Nottingham, UK
- OC_P22 Unsupported Uranium-Transition Metal Bonds
Dipti Patel, David King, Benedict Gardner, Stephen Liddle
University of Nottingham, Nottingham, UK
- OC_P23 The Synthesis and Reactivity of Uranium Carbene Complexes.
Oliver Cooper, David Mills, Ashley Wooles, Stephen Liddle
University Of Nottingham, Nottingham, UK
- OC_P24 Imidotungsten(VI) chlorides as ROMP catalyst precursors
Juuso Hakala¹, Mikko Hänninen², Ari Lehtonen¹
¹University of Turku, Turku, Finland, ²University of Jyväskylä, Jyväskylä, Finland
- RM_P01 Reactions of Radicals with Metal and Semiconductor Nanoparticles and Powders Immersed in Aqueous Solutions.
Tomer Zidki^{1,2}, Ronen Bar-Ziv^{1,3}, Haim Cohen⁴, Dan Meyerstein^{1,4}
¹Ben-Gurion University, Beer-Sheva, Israel, ²Brookhaven National Laboratory, Upton, NY, USA, ³Nuclear Research Centre Negev, Beer-Sheva, Israel, ⁴Ariel University Center of Samaria, Ariel, Israel

- RM_P02 Synthesis, and Kinetics of Substitution Reactions in a Water-Soluble Mo₃S₄ Cluster Bearing Hydroxypropyl Diphosphine Ligands: the opening and closing of chelate rings with alkoxy groups.
Jose Angel Pino-Chamorro¹, Manuel Garcia Basallote¹, Maria Jesús Fernández-Trujillo¹, Rosa Llusar², Cristian Vicent², Ivan Sorribes², Tomás Beltrán Álvarez²
¹Departamento de Ciencia de los Materiales e Ingeniería Metalúrgica y Química Inorgánica, Facultad de Ciencias, Universidad de Cádiz, Puerto Real, Cádiz, Spain, ²Departament de Química Física i Analítica, Universitat Jaume I, Castelló de la Plana, Valencia, Spain
- RM_P03 The energy level calculation of bond displacement procedure of Zn-Cl on cyclopenta diene by Theoretical method and NBO analysis
Reza Soleymani
 Chemistry Department, Faculty of Sciences, Islamic Azad University, Shahre-Rey Branch Tehran, Iran
- RM_P04 Reaction Screening of Polyoxometalate Syntheses Using Network Reactor Arrays
Craig Richmond, Haralampos Miras, Leroy Cronin
 University of Glasgow, Glasgow, UK
- RM_P05 Mechanistic fundamentals of Lewis acid-Lewis base driven hydrogenation of unsaturated organic compound
Timofei Privalov
 Stockholm University, Stockholm, Sweden
- RM_P06 Reaction mechanisms of carbonate radical with aminocarboxylate complexes in aqueous solutions. A pulse radiolysis study.
Amir Mizrahi^{1,2}, Israel Zilbermann¹, Eric Maimon^{1,4}, Haim Cohen^{2,3}, Dan Meyerstein^{2,3}
¹NRCN, Beer-Sheva, Israel, ²Ben-Gurion University of The Negev, Beer-Sheva, Israel, ³Ariel University Center of Samaria, Ariel, Israel, ⁴University of Maryland, Washington DC, USA
- RM_P07 Mono- and Bi-Nuclear Pathways of Catalytic Water Oxidation: an Involvement of Lewis Acid-Lewis Base Cooperation and Radical Coupling
Timofei Privalov¹, Licheng Sun^{2,3}, Björn Åkermark¹
¹Stockholm University (SU), Stockholm, Sweden, ²Royal Institute of Technology (KTH), Stockholm, Sweden, ³DUT-KTH, Dalian University of Technology, Dalian, China
- RM_P08 Regeneration of Oxidized Photo - Sensitizers in Grätzel Solar Cells: Quantum - Chemical Attempt to Derive a General Mechanism
Timofei Privalov¹, Jonas Nyhlen¹, Anders Hagfeldt³, Gerrit Boschloo³, Lars Kloo²
¹Stockholm University (SU), Stockholm, Sweden, ²Royal Institute of Technology (KTH), Stockholm, Sweden, ³Uppsala University (UU), Uppsala, Sweden
- SP_P42 M³⁺ complexes containing a three-fold axis as molecular bricks for self-assembly of octahedral cages.
Damien Simond, Céline Besnard, Alan Williams
 Université de Genève, Genève, Switzerland
- SP_P43 Molecular [Co(III)Co(II)]x2 Assemblies of a New bis-phenol/pyrazolyl Ligand and Molecular Linear Arrays of Co Stabilized by β-Diketone Based Ligands
LEONI A. BARRIOS¹, DAVID AGUILA¹, GAVIN A. CRAIG¹, JOSE SANCHEZ COSTA¹, OLIVIER ROUBEAU², SIMON J. TEAT³, GUILLEM AROMI¹
¹University of Barcelona, BARCELONA, Spain, ²University of Zaragoza, ZARAGOZA, Spain, ³Advanced Light Source, Berkeley Laboratory, BERKELEY, USA

- SP_P44 Controlled assembly of $[\text{Mn}^{\text{III}}_2\text{Mn}^{\text{II}}_2]$ single-molecule magnets through $[\text{M}(\text{pic})_2]$ linking units (Hpic = picolinic acid)
Je-Rang Jeon^{1,2}, Rodica Ababei^{1,2}, Lollita Lecren¹, Yang-Guang Li^{1,3}, Wolfgang Wernsdorfer⁴, Olivier Roubeau⁵, Corine Mathonière², Rodolphe Clérac¹
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- SP_P45 Templated Assembly of Nanoscopic Coordination Cages
Lei Zhang, Wolfgang Schmitt
 Trinity College Dublin, Dublin, Ireland
- SP_P46 The estimation of lyotropic liquid crystal interaction with polymeric orientates
Aliya Galeeva, Natalia Sautina, Yury Galyametdinov, Svetlana Bogdanova
 Kazan Physicotechnical Institute KSC RAS, Kazan, tatarstan, Russian Federation
- SP_P47 Synthesis and magnetic properties of cyanide-based bimetallic materials
Céline Pichon^{1,2}, Tapas Senapati^{1,2}, Corine Mathonière^{1,3}, Rodolphe Clérac^{1,2}
¹CNRS, UPR 8641, Centre de Recherche Paul Pascal (CRPP), Equipe Matériaux Moléculaires Magnétiques, 115 Avenue du Dr. A. Schweitzer, F-33600, Pessac, France, ²Université de Bordeaux, UPR 8641, F-33600, Pessac, France, ³Institut de Chimie de la Matière Condensée de Bordeaux (ICMCB), UPR 9048, 87 Avenue du Dr. A. Schweitzer, F-33600, Pessac, France
- SP_P48 Thermodynamic and crystallographic studies of new Lanthanide(III) β -diketonate complexes $[\text{Ln}(\text{L})(\text{hfa})_3]$ incorporating bis-benzimidazolepyridine ligands.
Amir Zaim, Homayoun Nozary, Céline Besnard, Laure Guénée, Claude Piguet
 University of Geneva, Geneva, Switzerland
- SP_P49 Solvothermal synthesis of oxamate-based coordination clusters.
Laurent Lisnard^{1,2}, Yanling Li^{1,2}, Lise-Marie Chamoreau¹, Rafael Ruiz-García^{3,4}, Yves Journaux^{1,2}
¹Institut Parisien de Chimie Moléculaire, UPMC Univ Paris 06, Paris, France, ²CNRS, UMR7201, Institut Parisien de Chimie Moléculaire, Paris, France, ³Departament de Química Inorgànica/Instituto de Ciencia Molecular, Universitat de València, València, Spain, ⁴Fundació General de la Universitat de València, València, Spain
- SP_P50 Polyoxometalate clusters and metal-organic frameworks for catalysis, gas sorption and separation
Camelia Onet, Wolfgang Schmitt
 Trinity College Dublin, Dublin, Ireland
- SP_P51 Tridentate nitrogen-containing ligands producing six-membered chelate rings: structural and thermodynamic properties
Thi Nhu Y Hoang, Laure Guénée, Emmanuel Terazzi, Claude Piguet
 University of Geneva, Geneva, Switzerland
- SP_P52 Acetylene trimerisation as a new route to heteroatom doped graphenes
Lankani P. Wijesinghe, Sylvia M. Draper
 Trinity College Dublin, Dublin, Ireland

- SP_P53 Bis(imidate)palladium(II) complexes with labile ligands. Mimics of classical precursors?
José Luis Serrano¹, José Pérez¹, Luis García¹, Eduardo Pérez¹, Marina Martínez², Joaquín García², Gregorio Sánchez², Maria Dolores Santana², Anant Kapdi³
¹Universidad Politécnica de Cartagena, Cartagena, Spain, ²Universidad de Murcia, Murcia, Spain, ³Ramnarain Ruia College, Matunga, Mumbai, India
- SP_P54 Synthesis, recognition and separation studies of a triple helical molecule
Sylvain Duval, Raphaël Ballesteros-Garrido, Jerôme Lacour, Alan Williams
 University of Geneva, Geneva, Switzerland
- SP_P55 Unusual Structural Features, Exciting Ligands' Transformations and Interesting Magnetic Properties in Manganese and Manganese/Lanthanides Clusters based on Oximate Ligands
Harikleia Sartz¹, Constantinos Stoumpos¹, Vasilios Duros¹, Olivier Roubeau², Simon Teat³, Christine Beavers³, Ross Inglis⁴, Euan Brechin⁴, Spyros Perlepes¹
¹Department of Chemistry, University of Patras, Patras, Greece, Patras, Greece, ²Instituto de Ciencia de Materiales de Aragón, CSIC and Universidad de Zaragoza, Zaragoza, Spain, Zaragoza, Spain, ³Advanced Light Source, Lawrence Berkeley National Laboratory, Berkeley, California, United States, Berkeley, California, USA, ⁴School of Chemistry, The University of Edinburgh, Edinburgh, United Kingdom, Edinburgh, UK
- SP_P56 Spin-Switchable Iron(II) Complexes – Surface Patterning and Bistability in Ensembles on HOPG Surfaces
K. Student¹, A. Grohmann¹, M. S. Alam², M. Stocker², K. Gieb², P. Müller²
¹Technische Universität Berlin, Berlin, Germany, ²Universität Erlangen-Nürnberg, Erlangen, Germany
- SP_P57 Computational Studies of Metal-Organic Frameworks
Jason Loader, Ben Irving, Anthony Meijer, Lee Brammer
 University of Sheffield, Sheffield, UK
- SP_P58 Trapping multi-nuclear, earth-abundant transition metal architectures using polyoxometalate scaffolds
Elizabeth F. Wilson, Karsten Meyer
 Friedrich-Alexander-Universitaet Erlangen-Nuernberg, Erlangen, Bavaria, Germany
- SP_P59 The disulfato-metallates $[M(S_2O_7)_3]^{2-}$ (M = Si, Ge, Sn, Ti): Syntheses, Properties, and Bonding
Christian Logemann, Katja Rieß, Julia Witt, Thorsten Klüner, Mathias S. Wickleder
 University of Oldenburg, Institute of Pure and Applied Chemistry, Oldenburg, Germany
- SP_P60 Novel sulfonic acids for new MOF architectures
Christina Zitzer, Thomas Muesmann, Stefan Ahlers, Jens Christoffers, Mathias S. Wickleder
 University of Oldenburg, Institute of Pure and Applied Chemistry, Oldenburg, Germany
- SP_P61 Frameworking with methanesulfonic acid: The three thallium examples $Tl(CH_3SO_3)_3$, $TlCl_2(CH_3SO_3)$ and $TlBr_2(CH_3SO_3)$
Kai Neuschulz, Wilke Dononelli, Mathias S. Wickleder
 University of Oldenburg, Institute of Pure and Applied Chemistry, Oldenburg, Germany
- SP_P62 Synthesis and characterization of the complex of Ruthenium(II) pyrazolyl-thiosemicarbazone with potential biological activity
Ana E. Burgos, Lenka Tamayo L
 Universidad Nacional de Colombia, Bogotá D.C. /Cundinamarca, Colombia

- SP_P63 Synthesis, characterization and biological activity of Cu(II) compounds of Schiff bases derivatives from S-benzylthiocarbamate
Ana E. Burgos, Karen G. Ospina C.
Universidad Nacional de Colombia, Bogotá D. C., Colombia
- SP_P64 Syntheses and Structural Study of Novel Tetranuclear Bis(phenoxo)-Bridged Cu(II) complexes.
Antti Riisio, Mikko Hanninen, Reijo Sillanpää
University of Jyväskylä, Jyväskylä, Finland
- SP_P65 The synthesis of bis-tridentate 2-benzimidazole-8-hydroxyquinoline ligands incorporating thiolated alkyl chains with a view to capturing silver(I) ions.
Nicholas Tart, Emmanuel Terazzi, Daniel Emery, Jiri Mareda, Laure Guénée, Claude Piguet
University of Geneva, Geneva, Switzerland
- SP_P66 Synthesis and Characterization of New Homo- and Heterometallic Chain Compounds
Hanne Nuss, Dilahan Aydin-Cantürk
Max Planck Institute for Solid State Research, Stuttgart, Germany
- SP_P67 Metal-directed Self-assembly of a Universal 3-Ravel
Jack Clegg^{1,2}, Feng Li², Leonard Lindoy²
¹Department of Chemistry, University of Cambridge, Cambridge, UK, ²School of Chemistry, The University of Sydney, NSW, Australia
- SP_P68 Synthesis, crystal structures and spectroscopic characterization of the oxalate-bridged networks {[Cu(bpy)₃][M₂(C₂O₄)₃·H₂O]_n (M = Cu²⁺, Mn²⁺)
Marijana Juric, Kresimir Molcanov, Dijana Zilic, Pavica Planinic
Rudjer Boskovic Institute, Zagreb, Croatia
- SP_P69 Study of Structural and Magnetic Properties of New Tetrametallic Copper Complexes
Mauricio Lanznaster¹, Jackson Resende¹, Natalia Silva¹, Luiza Mercante¹, Carlos Pinheiro^{1,2}
¹Universidade Federal Fluminense, Niteroi, Rio de Janeiro, Brazil,
²Universidade Federal de Minas Gerais, Belo Horizonte, Minas Gerais, Brazil
- SP_P70 Polynuclear complexes based on manganese metal ions and thiosemicarbazone ligands
Palamarcu Oleg^{1,4}, Revenco Mihail¹, Ababei Rodica⁴, Bourosh Paulina², LE GOFF Xavier³, Clerac Rodolphe^{4,5}
¹State University of Moldova, Mateevici 60, Chisinau, MD-2009, Republic of Moldova, ²Institute of Applied Physics, Academy of Sciences of Moldova, Academiei 5, Chisinau 2028, Republic of Moldova, ³Ecole Polytechnique, CNRS, Route de Saclay, F-91128 Palaiseau, France, ⁴Centre de Recherche Paul Pascal Centre de Recherche Paul Pascal (CRPP), Equipe "Matériaux Moléculaires Magnétiques", 115 avenue du Dr. Albert Schweitzer, Pessac, F-33600, France, ⁵Université Bordeaux I, UPR 8641, Pessac, F-33600, France
- SP_P71 Recipes for Enhanced Molecular Cooling
Thomas Hooper¹, Marco Evangelist², Stuart Langley³, Keith Murray³, Euan Brechin¹
¹University of Edinburgh, Edinburgh, UK, ²CSIC-Universidad de Zaragoza, Zaragoza, Spain, ³Monash University, Clayton, Australia
- SP_P72 Base Chlorometallate Solvent Extraction
Jennifer Turkington¹, Philip J. Bailey¹, Ross J. Ellis¹, David K. Henderson¹, Eduardo Kamenetzky², Thomas Sass², Kathryn C. Sole³, Peter A. Tasker¹
¹University of Edinburgh, Edinburgh, UK, ²Cytotec Industries Inc., Connecticut, USA, ³Anglo Research, Johannesburg, South Africa

- SP_P73 Palladium extraction from acidic chloride streams using simple oxime ligands
Sarah Belair², Richard Grant², David Henderson¹, Jason Love¹, Peter Tasker¹, Matthew Wilson¹
¹University of Edinburgh, Edinburgh, Lothian, UK, ²Johnson Matthey Technology Centre, Sonning Common, Oxfordshire, UK
- SP_P74 Palladium coordination compounds with 8-formylquinoline thiosemicarbazone
Bulmaga Petru¹, Jora Elena¹, Bourosh Paulina², Revenco Mihail¹, Corja Ion¹, Lipkowski Janush³, Gdaniec Maria⁴, Palamarciuc Oleg¹
¹State University of Moldova, Mateevici 60, Chisinau, MD-2009, Republic of Moldova, ²Institute of Applied Physics, Academy of Sciences of Moldova, Academiei 5, Chisinau 2028, Republic of Moldova, ³Institute of Physical Chemistry, Polish Academy of Sciences, Kasprzaka 44, 01-224, Warsaw, Poland, ⁴Faculty of Chemistry, A.Mickiewicz University, Grunwaldzka 6, 60-780, Poznan, Poland
- SP_P75 Heterometallic [Cr^{III}Co^{II}, Cr^{III}Ni^{II}, Cr^{III}Cu^{II}] oxalate-bridged systems obtained by using new self-assembly species
Pavica Planinic, Lidija Andros, Marijana Juric, Kresimir Molcanov
 Rudjer Boskovic Institute, Zagreb, Croatia
- SP_P76 Interface perturbation in liquid-crystalline lanthanides complexes: Toward a thermodynamic approach for controlling phase sequences.
Thibault Dutronc, Emmanuel Terazzi, Claude Piguet
 University of Geneva, Geneva, Switzerland
- SP_P77 A Self-Assembled M8L6 Cubic Cage that Selectively Encapsulates Large Aromatic Guests
Wenjing Meng¹, Jack Clegg¹, Boris Breiner¹, John Thoburn¹, Kari Rissanen², Jonathan Nitschke¹
¹Department of Chemistry, University of Cambridge, Cambridge, UK, ²Department of Chemistry, Nanoscience Centre, University of Jyväskylä, Post Office Box 35, 40014 JYU, Finland
- SP_P78 Lanthanide-Mediated Tetrahedral Cages: Host-Guest Interactions with Anions
Badr El Aroussi, Laure Guénée, Josef Hamacek
 University of Geneva, Geneva, Switzerland
- SP_P79 Synthesis and electrochemical characterisation of new group 8 complexes containing the versatile tris[2-(diphenylphosphino)ethyl]phosphine ligand
Michael Inkpen, Tim Albrecht, Nicholas Long
 Imperial College London, London, UK
- SP_P80 Synthesis and coordination chemistry of new N-centred N(CH₂PR₂)₃ tripodal phosphine ligands
Philip Miller, Andrew White
 Imperial College London, London, UK
- SP_P81 Hydrogen peroxide as a perspective cocrystallizing agent for biological molecules.
Petr V. Prikhodchenko^{1,2}, Alexander G. Medvedev¹, Tatiana A. Tripol'skaya¹, Andrei V. Churakov^{1,3}, Vladimir M. Novotortsev¹, Judith A.K. Howard³, Ovadia Lev²
¹Institute of General and Inorganic Chemistry, Russian Academy of Sciences, Moscow, Russian Federation, ²The Casali Institute of Applied Chemistry, The Institute of Chemistry, The Hebrew University of Jerusalem, Jerusalem, Israel, ³Department of Chemistry, University of Durham, Durham, UK
- SP_P82 In-situ Spectroscopic Interrogation of Diisocyanate Self-Assembled Monolayers (DiSAMs) as they Organise Themselves in Atomically-thick Films
Paul Sermon¹, M Worsley¹, A Bhatti¹, J Tomkinson²
¹Brunel University, London, UK, ²Rutherford Appleton Laboratory, Didcot, UK

Wednesday 13 April 2011

Poster session

17:00 - 18:30 University Place, Exhibition Area

- BM_P01 New bioinspired alkoxo-bridged Mn₂-complexes with catalase activity. Influence of bridging ligands and vacant coordination sites on catalysis
Sandra Signorella^{1,2}, Gabriela Ledesma², Salvador Drusin¹, Ernesto Schulz Lang³
¹Universidad Nacional de Rosario, Facultad de ciencias Bioquímicas y Farmacéuticas, Rosario, Santa Fe, Argentina, ²Instituto de Química Rosario (IQUIR) - CONICET - UNR, Rosario, Santa Fe, Argentina, ³Universidade Federal de Santa Maria, Santa Maria - RS, Brazil
- BM_P02 Crystal structure, EPR, Antioxidative and Antibacterial activity of Adducts of Copper (II) complexes containing 1-(2-hydroxy-6-isopropyl-3-methylbenzylidene)thiosemicarbazide and heterocyclic bases
RAKESH SANCHETI, KAPIL SURYAWANSHI, POPAT CHAVAN, JAYESH AHIRE, Archana Jogdand, Vedavati Puranik, RATNAMALA BENDRE
NORTH MAHARASHTRA UNIVERSITY, JALGAON, India
- BM_P03 Influence of the Chelate Effect on the Electronic Structure of Oxidized Metal(II)-(disalicylidene)diamine Complexes
Yuichi Shimazaki
Ibaraki University, Mito, Japan
- BM_P04 Syntheses of new isomeric analogues of HYNIC for evaluation as bifunctional chelators for Technetium-99m
Anica Dose¹, Levente Meszaros², Stefano Biagini¹, Philip Blower²
¹University of Kent, Canterbury, UK, ²King's College London, London, UK
- BM_P05 Evaluation of structural and electronic effects on the activity of cobalt complexes against melanoma murine cell line (B16F10)
Elizabeth T. Souza¹, Érica M. Azevedo¹, Paulo J. S. Maia¹, Tassiele A. Heinrich², Roberto S. Silva², Jackson A. L. C. Resende³, Marciela Scarpellini¹
¹UFRJ, Rio de Janeiro, RJ, Brazil, ²USP/RP, Ribeirão Preto, SP, Brazil, ³UFF, Niteroi, RJ, Brazil
- BM_P06 [NiFe₂] complexes as catalyst for the light-driven production of dihydrogen and as proton relays.
Fabio Ghiotto, Peter Summers, E. Stephen Davies, Mike George, Khuong Vuong, Xue-Zhong Sun, Jonathan McMaster, Martin Schroder
School of Chemistry - University of Nottingham, Nottingham, UK
- BM_P07 Crystal structure of new metal based drug and their interaction with CT-DNA
Waddhaah. M. Al-Asbahy, Farukh Arjmand, Sartaj Tabassum
Aligarh Muslim University, Aligarh, U.P, India
- BM_P08 Novel Cu(II) complexes of pyruvate based hydrazones as potential antitubercular agents
Abeda Jamadar¹, Anne-K Duhme-Klair¹, Subhash Padhye²
¹University of York, York, UK, ²University of Pune, Pune, India
- BM_P09 Salan Titanium(IV) Complexes – Stereoselective Synthesis for Investigation of Mechanistic Aspects of Cytotoxic Activity
Cesar M. Manna, Edit Y. Tshuva
Hebrew University of Jerusalem, Jerusalem, Israel

- BM_P10 The effect of pyrophosphate, tripolyphosphate and ATP on the rate of the Fenton reaction
Alexandra Massarwa¹, Sandra Rachmilovich-Calis¹, Naomi Meyerstein², Dan Meyerstein^{1,3}
¹Ben Gurion University, Chemistry Department, Beer Sheva, Israel, ²Ben Gurion University, Department of Physiology, Beer Sheva, Israel, ³Ariel University Center of Samaria, Department of Biological Chemistry, Ariel, Israel
- BM_P12 Effect of Electron-withdrawing substituents on the redox potential and catalytic activity of manganese superoxide dismutase mimics
Claudia Palopoli^{1,2}, Carina Beltramino², M. Victoria C6vol6², Luciana Ghinamo², Facundo Farabollini¹, Sandra Signorella^{1,2}
¹IQUIR-CONICET, Rosario, Argentina, ²Facultad de Ciencias Bioqu6micas y Farmac6uticas. UNR, Rosario, Argentina
- BM_P13 Targeting chemokine receptors with metal complexes: molecular imaging
Benjamin Burke, Abid Khan, Jon Silversides, Stephen Archibald
University of Hull, East Yorkshire, UK
- BM_P14 NAD⁺/NADH-cycling by a catalytic moiety of the Soluble Hydrogenase from *Ralstonia eutropha* H16 studied by Protein Film Electrochemistry
Zulkifli Idris¹, Lars Lauterbach², Oliver Lenz², Kylie Vincent¹
¹University of Oxford, Department of Chemistry, Inorganic Chemistry Laboratory, South Parks Road, OX1 3QR, Oxford, UK, ²Humboldt University of Berlin, Institute of Biology/Microbiology, Chausseestrasse 117, 10115 Berlin, Germany
- BM_P15 Exploring the DNA binding, cleavage studies, accumulation and topoisomerase inhibition of 3-(aminomethyl)naphthoquinone Pt(II) complexes
Amanda Neves¹, Maria Vargas¹, Nicholas Farrell², Erica Peterson², Floriano Silva Junior³, Michelle Pereira³
¹Universidade Federal Fluminense, Niter6i, Brazil, ²Virginia Commonwealth University, Richmond, USA, ³Funda666o Oswaldo Cruz, Instituto Oswaldo Cruz, Rio de Janeiro, Brazil
- BM_P16 Infrared spectroelectrochemical studies of metalloenzyme chemistry using europium complexes as low potential mediators
Adam Healy, Henry Waite, Charlotte Mckenna, Kylie Vincent
University of Oxford, Oxford, UK
- MG_P01 Tin hydroperoxocomplexes - precursors of tin oxide nanoparticles and thin films
Petr Prikhodchenko^{1,2}, Sergey Sladkevich¹, Alexey Mikhaylov², Andrei Churakov², Tatiana Tripol'skaya², Ovadia Lev¹
¹The Casali Institute of Applied Chemistry, The Institute of Chemistry, The Hebrew University of Jerusalem, Jerusalem, Israel, ²Kurnakov Institute of General and Inorganic Chemistry, Russian Academy of Sciences, Moscow, Russian Federation
- MG_P02 Synthesis, Structure and Reactivity of Zinc(I) Complexes
Stephan Schulz, Sebastian Gondzik, Raphaela Sch6per, Daniella Schuchmann
University of Duisburg-Essen, Essen, Germany
- MG_P03 Hydroalumination of Germanium centered Oligoalkynes
Martina Rohling, Werner Uhl
Westf6lische Wilhelms Universit6t, M6nster, Germany
- MG_P04 Use of an Analytical Reagent 5-Bromo salicylidine-2-amino thiophenol (BSATP) for the Extractive Spectrophotometric Determination of Fe (III)
Sanjay Patil, Ram Lokhande
Changu Kana Thakur Arts, Commerce & Science College, New Panvel, Navi Mumbai, State-Maharashtra, India

- MG_P05 Formation of carbene-stabilized P(III)-centered Cations $[LPX_2]^+$ and $[L_2PX]^2+$ (X = CN, N₃) via substitution reactions on related $[LPCl_2]^+$ and $[L_2PCl]^2+$ Cations
Florian D. Henne, Kai-Oliver Feldmann, Jan J. Weigand
Department of Inorganic and Analytical Chemistry, Münster, Germany
- MG_P06 Functionalized Molecular Heterometallic Aluminoxanes
Monica Moya-Cabrera^{1,2}, Sandra Hidalgo-Bonilla², Vojtech Jancik^{1,2}
¹Centro Conjunto de Investigación en Química Sustentable, UAEM-UNAM, Toluca, Estado de México, Mexico, ²Instituto de Química, UNAM, Mexico, Distrito Federal, Mexico
- MG_P07 Soluble Molecular Aluminosilicates Containing Lanthanide Metals
Vojtech Jancik^{2,1}, Raul Huerta-Lavorie², Kimberly Thompson-Montero²
¹Centro Conjunto de Investigación en Química Sustentable UAEM-UNAM, Toluca, Estado de Mexico, Mexico, ²Instituto de Química, Universidad Nacional Autónoma de México, Mexico, D.F., Mexico
- MG_P08 Selective Deoxygenation of Jatropha Oil over Different Active Metal Catalysts
Teeralak Tharawut, Siriporn Jongpatiwut
The Petroleum and Petrochemical College, Chulalongkorn University, Bangkok, Thailand
- MG_P09 Production of Bio-jet Fuel from Jatropha Oil over H-Y-Supported Catalysts
Siriporn Jongpatiwut, Teerarut Montai
The Petroleum and Petrochemical Chulalongkorn University, Bangkok, Thailand
- MG_P10 Modification of Commercially Available Adsorbents for Carbon Dioxide Selective Adsorption
Tawpath Pichaichanlert, Pramoch Rungsanvigit, Santi Kulprathipaja
The Petroleum and Petrochemical College, Chulalongkorn University, Bangkok, Thailand
- MG_P11 Catalytic dehydrocoupling of Me₂NHBH₃ with Al(NMe₂)₃
Rebecca Melen
University of Cambridge, Cambridge, UK
- MG_P12 Group 13 Tris-Pyridyl Complexes
Hayley Simmonds, Dominic Wright
University of Cambridge, Cambridge, UK
- MG_P13 Metal Free Transfer Hydrogenation of Polar Unsaturated Compounds with Ammonia-Borane: A Mechanistic Study
Xianghua Yang, Thomas Fox, Heinz Berke
Institute of Inorganic Chemistry, University of Zurich, Zurich, Switzerland
- MG_P14 Main Group Chemistry
Harrison Chukwukere
nekede poytheknic, Festac Town, Nigeria
- MG_P15 Co-ordination compounds of the Pentacyanocyclopentadienide anion
Thomas Wilson, Robert Less
University of Cambridge, Cambridge, UK
- MG_P16 Molecular Gallosilicates and their Multimetallic Derivatives
Diego Solis-Ibarra, Vojtech Jancik
Centro Conjunto de Investigación en Química Sustentable UAEM-UNAM, Toluca, Edo. de México, Mexico

- MG_P17 Structural Study of Alkaline-Earth Heterocycles comprising M–E (E = S, Se) bonding
Raymundo Cea-Olivares¹, Monica Moya-Cabrera², Vojtech Jancik², Jhon Balanta¹, Jesus Morales-Juarez³
¹Instituto de Química, UNAM, México D.F., Mexico, ²Centro Conjunto de Investigación en Química Sustentable UAEM-UNAM, Toluca, Estado de México, Mexico, ³Facultad de Química, UAEM, Toluca, Estado de México, Mexico
- IM_P19 Rare earth metal chloride impregnated aluminium oxide-pillared bentonite and iron oxide-pillared clay catalyst for benzylation of anisole with benzoyl chloride
Piyarat Trikitiwong, Warinthron Chavasiri
 Chulalongkorn University, Bangkok, Thailand
- IM_P20 Synthesis, Structure, and Vibrational assignment of bis(3-amino-1-phenyl-2-buten-1-onato)copper(II) and comparison with bis (4-aminopent-3-en-2-onato) copper(II)
Mina Jamialahmadi, Faramarz Tayyari, Mohammad Hosein Habibi
 Ferdowsi University of Mashhad, Mashhad Razavi Khorasan, Iran
- IM_P22 Geographical Distribution of Soil Pollution and Toxic Elements in Birjand
Rostam Saberifar, Ebrahim Shamsi
 Payamnoor University, Ferdows, South Khorasan, Iran
- IM_P23 Synthesis and crystal characterization of a new cerium(IV) aquasulphate as a precursor of magnetic materials
Camilo J Viasus P^{1,2}, Ana Esperanza Burgos Castellanos², Jesus Sigifredo Valencia Rios³, Nivaldo L Spezial⁴
¹Grupo de Investigacion en Compuestos de Coordinación y Catálisis - Universidad de Ciencias Aplicadas y Ambientales, Bogotá, Colombia, ²Laboratorio de Compuestos de Coordinación y Bioinorgánica - Universidad Nacional de Colombia Sede Bogotá, Bogotá, Colombia, ³Aplicaciones Fisicoquímicas del Estado Sólido - Universidad Nacional de Colombia Sede Bogotá, Bogotá, Colombia, ⁴Laboratório de Cristalografia, Departamento de Física – ICEx – UFMG, Av. Antônio Carlos, 6627 Pampulha, Belo Horizonte, Brazil
- IM_P24 New precursors for precious metals
Jörn Bruns, Frauke Gerlach, Mandus Necke, Thomas Wich, Tim Luttermann, Katharina Al-Shamery, Mathias S. Wickleder
 University of Oldenburg, Institute of Pure and Applied Chemistry, Oldenburg, Germany
- IM_P25 A Simple, Greener Route to Semiconductor Nanoparticles
 Rajasekhar Pullabhotla, Neerish Revaprasadu, Nhlaphika Mntungwa
 University of Zululand, Empangeni, South Africa
- IM_P26 CO₂ Capture in Metal-organic Frameworks
Ana Paulina Gomora-Figueroa, Jeffrey R. Long
 University of California, Berkeley, Berkeley, California, USA
- IM_P27 Chemical tailoring of tetrairon(III) Single-Molecule Magnets featuring thioacetyl-terminated ligands for deposition on gold surfaces
Erik Tancini, Maria Jesus Rodriguez-Douton, Andrea Cornia
 University of Modena and Reggio Emilia, Department of Chemistry and INSTM Research Unit, Modena, Italy
- IM_P28 Synthesis, structure, dielectric, ferroelectric, and piezoelectric properties of new Aurivillius oxides: Bi_{2+2x}Sr_{1-2x}Nb_{2-x}Sc_xO₉
Thathan Sivakumar, Itoh Mitsuru
 Materials and Structures Laboratory, Tokyo Institute of Technology, 4259 Nagatsuta, Yokohama 226-8503, Japan

- IM_P29 Variation metal impregnated on the aluminium oxide pillared bentonite using in phenols alkylation
Patsararat Kaewbuarom
Chulalongkorn, Bangkok, Thailand
- IM_P30 The synthesis and testing of mesostructured highly ordered siliceous adsorbents
Izabela Naczelnik¹, H Grajek¹, Z Witkiewicz^{1,2}
¹University of Technology, Warsaw, Poland, ²Jan Kochanowski University and University of Arts and Sciences, Kielce, Poland
- IM_P31 The mechanism elucidation of oxide ion conduction in LaAlO₃ perovskite
Taku Onishi¹
¹Mie University, Tsu, Mie, Japan, ²University of Oslo, Oslo, Norway
- IM_P32 Patternable Nanoporous Silcion Manufacture by a Novel Mask-Free Method of Interfering Electrochemical Anodization Technology
Jia-Chuan Lin¹, Meng-Kai Hsu¹, Hsi-Ting Hou², Sin-Kai Wang¹
¹St. John's University, Taipei, Taiwan R.O.C., Taiwan, ²Tamkang University, Taipei, Taiwan R.O.C., Taiwan
- IM_P33 New Chalcogenide Clusters via Reaction in Ionic Liquids
Dominic Freudenmann, Claus Feldmann
Karlsruhe Institute of Technology (KIT), Karlsruhe, Germany
- IM_P34 Solid State Chemistry
Harrison Chukwukere
Nekede Poythechnic, Festac Town, Nigeria
- IM_P35 Ionic Liquid based Syntheses of Polybromide Networks – [C₄MPyr]₂[Br₂₀] and [(n-Bu)₃MeN]₂[Br₂₀] –
Michael Wolff, Claus Feldmann
Karlsruhe Institute of Technology (KIT), Karlsruhe, Germany
- IM_P36 Gas-solid reactions in non-porous crystalline materials
Inigo Vitorica-Yrezabal, Rachel Sullivan, Lee Brammer
University of Sheffield, Sheffield, UK
- IM_P37 Homonuclear Clusters of the Heavy Trier Elements.
Ulrich Wedig, Vyacheslav Saltykov, Jürgen Nuss, Prasad L. V. K. Dasari, Martin Jansen
Max Planck Institute for Solid State Research, Stuttgart, Germany
- OC_P25 Novel Aminopyrimidinylphosphine Ligands and Their Application to the Palladium-Catalyzed Suzuki Reaction at Room Temperature
Saeid Nalchigar, Leila Taghizadeh Ghoochany, Yu Sun, Werner Thiel
Technische Universität Kaiserslautern, Kaiserslautern, Rheinland-Pfalz, Germany
- OC_P26 The Remarkable Stability of a Diaminobromoborane
Sarah Robinson, William Lewis, Alexander Blake, Stephen Liddle
University of Nottingham, Nottingham, UK
- OC_P27 Uranium in Non-Conventional Ligand Environments
Ben Gardner, Alexander Blake, William Lewis, Stephen Liddle
University of Nottingham, Nottingham, UK
- OC_P28 Investigating the Reactivity of Halogenated N-Heterocyclic Carbenes
Marcus L. Cole, Samantha K. Furfari, Matthew R. Gyton
University of New South Wales, Sydney, New South Wales, Australia
- OC_P29 Gas-Phase Monomethylation of Ammonia by "Bare" Zn(CH₃)⁺: An Unusual S_N2 Reaction with Atomic Zinc as a Leaving Group
Robert Kretschmer, Maria Schlangen, Helmut Schwarz
Technical University, Berlin, Germany

- OC_P30 Synthesis of permethyltitanocene(III)-complexes and reactions with water - Investigation of elemental steps in photocatalytic water splitting
Monty Kessler, Torsten Beweries, Sven Hansen, Marcus Klahn, Anke Spannenberg, Uwe Rosenthal
Leibniz-Institut für Katalyse e. V., Rostock, Germany
- OC_P31 Synthesis of sodium acrylate from CO₂ and ethylene: New insights in a key step of the catalytic cycle
Gabriella Bodizs¹, Peng Cao¹, Stephan Schunk², Michael Limbach^{1,3}
¹CaRLa-Catalysis Research Laboratory, Im Neuenheimer Feld 584, D-69120 Heidelberg, Germany, ²hte Aktiengesellschaft, Kurpfalzring 104, D-69123, Germany, ³BASF SE, Basic Chemicals Research, GCB/C-M313, Carl-Bosch-Strasse 38, D-67065 Ludwigshafen, Germany
- OC_P32 The synthesis of mixed carbene/sulfur ligands and their coordination to transition metal complexes
Miriam Slivarichova, Gareth Owen, Mairi Haddow
University of Bristol, Bristol, UK
- OC_P33 Catalytic Dehydrocoupling of Dimethylamine-Borane Adduct by Group 4 Metallocene Alkyne Complexes
Torsten Beweries, Marcus Klahn, Uwe Rosenthal
Leibniz-Institut für Katalyse e. V. an der Universität Rostock, Rostock, Germany
- OC_P34 IMMOBILISED ARENE-RUTHENIUM COMPLEXES AS CATALYSTS
Andrea Rodriguez Barzano, Patrick McGowan
University of Leeds, Leeds, UK
- OC_P35 A paramagnetic *trans*-[Pd(NHC)₂(η¹-O₂)₂] complex. Synthesis, structure and reactivity.
George C. Fortman^{1,2}, Xiaochen Cai², Subhojit Majumdar², Catherine S. J. Cazin¹, Alexandra M. Z. Slawin¹, Charles Lhermitte², Rajeev Prabhakar², Steven P. Nolan¹, Burjor Captain², Carl D. Hoff²
¹University of St. Andrews, St. Andrews, Fife, UK, ²University of Miami, Miami, FL, USA
- OC_P36 Synthesis and Catalytic Application of Tunable Abnormal 1,2,3-Triazolylidene Complexes.
Daniel Canseco-Gonzalez, Aur lie Poulain, Helge M ller-Bunz, Martin Albrecht
School of Chemistry & Chemical Biology, University College Dublin, Belfield, Dublin 4, Ireland
- OC_P37 SYNTHESIS OF β-DIKETONATE ALUMINIUM DIMERS AND THEIR USE IN LACTIDE POLYMERISATION
David Crabtree, Christopher Pask, Patrick McGowan
University of Leeds, Leeds, UK
- OC_P38 Production of aromatics from syngas using Fe based Fischer-Tropsch catalyst and Pt/KL and HZSM5 aromatization catalysts
Kodagoda Gamage Harinda Kodagoda¹, Siriporn Jongpatiwut^{1,2}, Thirasak Rirksomboon^{1,2}, Somchai Osuwan²
¹The Petroleum and Petrochemical College, Chulalongkorn University, Bangkok, Thailand, ²National Center of Excellent for Petroleum Petrochemical and Advanced Materials, Bangkok, Thailand
- OC_P39 Conformation of MnCp(CO)₂-thienothiophene carbene complexes
Marile Landman
University of Pretoria, Pretoria, South Africa
- OC_P40 Group 4 metallocene complexes of bis(pentafluorophenyl)borane
Elizabeth Jacobs, Anna-Marie Fuller, Simon Lancaster
University of East Anglia, Norwich, UK

- OC_P41 THE SUBSTITUTION OF N AND P BIDENTATE LIGANDS IN $[\text{CrCl}_3(\text{THF})_3]$
Peet van Rooyen, Simon Lotz, Nick Brennan, Dave Liles
 University of Pretoria, Pretoria, South Africa
- OC_P42 N-H bond cleavage of ammonia by bifunctional activation on silica-grafted Ta(V) imido amido surface complex. Importance of an additional NH_3 assistance.
Yasemin Kaya¹, Eric Goure¹, Priscilla Avenier¹, Laurent Veyre¹, Anne Baudouin¹, Mostafa Taoufik¹, Jean-Marie Basset¹, Xavier Solans-Monfort¹, Odile Eisenstein¹, Elsje Alessandra Quadrelli¹
¹Université de Lyon, ICL, Villeurbanne, France, ²Universitat Autònoma de Barcelona, Barcelona, Spain, ³Université Montpellier 2, Montpellier, France
- OC_P43 Polypyridylic ruthenium complexes and their application in homogeneous and heterogeneous catalysis.
Lydia Vaquer, Carlo Di Giovanni, Paola Riente, Xavier Sala, Antoni Llobet, Miquel Pericàs
 Institut Català d'Investigació Química, Tarragona, Spain
- OC_P44 Chiral Diamines from Monosaccharides as Ligands in Hydrogen-Transfer Catalysis
Matthias Boege, Christian Fowelin, Stefanie Lerch, Sebastian Tschersich, Juergen Heck
 Institute of Inorganic and Applied Chemistry, University of Hamburg, Hamburg, Germany
- OC_P45 Monosaccharide Modified Cyclopentadienyl Compounds as Chelating Ligands
Sebastian Tschersich, Juergen Heck
 Institute of Inorganic and Applied Chemistry, University of Hamburg, Hamburg, Germany
- OC_P46 Palladium catalysed oxidative aminocarbonylation reactions of organobismuth reagents
Philip Miller, Nicholas Long, Ramon Vilar
 Imperial College London, London, UK
- OC_P47 Synthesis of Group IV Supported Complexes through Surface Organometallic Chemistry and their use as Single-Site Polymerization Catalysts
Nicolas Popoff
 Laboratoire de chimie organométallique de surface (LCOMS) CNRS-CPE UMR 5265, Villeurbanne, France
- RM_P09 Mechanistic studies on the reactions of cyanide with a water soluble iron(III) porphyrin and their effect on the binding of NO
Maria Oszajca^{1,2}, Alicja Franke¹, Malgorzata Brindell², Grazyna Stochel², Rudi van Eldik¹
¹Inorganic Chemistry, Department of Chemistry and Pharmacy, University of Erlangen-Nürnberg, Egerlandstr. 1, 91058 Erlangen, Germany, ²Faculty of Chemistry, Jagiellonian University, Ingardena 3, 30-060 Krakow, Poland
- RM_P10 Electron Transfer-Oxygen Transfer Oxygenation of Sulfides Catalyzed by the H₅PV₂Mo₁₀O₄₀ Polyoxometalate
Alexander Khenkin, Ronny Neumann
 Weizmann Institute of Science, Rehovot, Israel
- RM_P11 HYDROAMINATION REACTIONS IN HIGHLY IONIC MEDIA: MECHANISTIC CONSIDERATIONS AND SPECIES IN SOLUTION
Gabriel Aullón¹, Susanna Jansat¹, Manuel Martínez¹, Rinaldo Polí², Mireia Rodríguez-Zubiri²
¹Universitat de Barcelona, Barcelona, Spain, ²CNRS, LCC, Toulouse, France

- RM_P12 Kinetics and the mechanism of the substitution reactions of some Pt(II) and Pd(II) complexes
Jovana Bogojeski, Mirjana Djurovic, Aleksandar Mijatovic, Biljana Petrovic, Zivadin Bugarcic
Faculty of Science, University of Kragujevac, Kragujevac, Serbia
- RM_P13 Kinetics and mechanism of the substitution reactions between some bifunctional Au(III) complexes and biologically relevant N-donor ligands
Ana Djekovic¹, Biljana Petrovic², Rudi van Eldik³, Zivadin Bugarcic²
¹*State University of Novi Pazar, Novi Pazar, Serbia*, ²*University of Kragujevac, Faculty of Science, Kragujevac, Serbia*, ³*Inorganic Chemistry, University of Erlangen-Nurnberg, Erlangen, Germany*
- RM_P14 Kinetic studies on the formation and oxidation of the Iron-tetramethylcyclam complex.
L. ACOSTA-RUEDA, M.G. BASALLOTE, G. BELLER, M.J. FERNANDEZ-TRUJILLO, J.A. PINO-CHAMORRO
Universidad de Cádiz, Cádiz, Spain
- RM_P15 Reactivity of an Antitumor Ru-triazole Complex towards DNA Purines within a Fluorinated Sol-Gel Silica Matrix
Luís M. F. Lopes¹, Maximilian N. Kopylovich², Armando L. Pombeiro², Laura M. Ilharco¹
¹*Centro de Química-Física Molecular, Instituto Superior Técnico, Universidade Técnica de Lisboa, Lisboa, Portugal*, ²*Centro de Química Estrutural, Instituto Superior Técnico, Universidade Técnica de Lisboa, Lisboa, Portugal*
- RM_P16 FORMATION OF DISCRETE CYANIDE-BRIDGED POLYNUCLEAR MIXED-VALENCE COMPOUNDS: A KINETICO-MECHANISTICO STUDY
Paul Bernhardt², Manuel Martinez¹, Carlos Rodriguez¹
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- RM_P17 On the life time of (NP)-CH₃ (NP = Ag⁰, Au⁰ nanoparticles) in aqueous solutions
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- SP_P02 Synthesis, Cytotoxic activity and DFT studies of palladium(II) and platinum(II) complexes with 2-substituted benzimidazole
Nour Abdel-Ghani, Ahmed Mansour
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- SP_P03 Nanostructured Liquid Crystalline Assemblies of Functional Mn₁₂ Clusters
Emmanuel Terazzi¹, Cyril Bourgogne², Richard Welter³, Jean-Louis Gallani², Daniel Guillon², Guillaume Rogez², Bertrand Donnio²
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- SP_P04 Self-assembly of molecular helicates and coordination networks: Synthesis, structural characterisation and magnetic properties.
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- SP_P05 Magnetic anisotropy in five, six and seven-coordinate Ni(II) complexes
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- SP_P06 Iron(II) complexes of tripodal ligands anchored on gold(111)
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of Poznan, Poznan, Poland, ³University of St Andrews, St Andrews, UK
- SP_P07 The Adaptable Coordination Chemistry of Oxazine- and Oxazolidine-type
Ligands
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- SP_P08 Host-guest chemistry of a fluoro-metallocrown [16]-MC-8
Thomas B. Faust¹, Paul G. Heath¹, Christopher A. Muryn¹, Grigore A. Timco¹,
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- SP_P09 3d-4f Phosphonate Complexes as Magnetic Cooler
Yan-Zhen Zheng, Richard Winpenny
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- SP_P11 Engineering Magnetic Molecular Compounds: Design of Single Chains
Magnets and Magnetic Metal Organic Framework
Emilio Pardo², Jesus Ferrando-Soria², Rodrigue Lescouezec¹, Laurent
Lisnard^{1,6}, Lise-Marie Chamoreau¹, Yanling Li^{1,6}, Cynthia Pereira³, Miguel
Novak⁴, Rafael Ruiz-Garcia², Francesc Lloret², Miguel Julve², Joan Cano²,
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- SP_P12 Coordination behaviour of bis-azole derivatives and transition metal ions
Chemical and structural analyses
Norah Barba-Behrens¹, Alma L. Garcia-Oriz¹, Adriana Esparza-Ruiz¹,
Guadalupe González-Gómez¹, Francisco Yoe¹, Edgar Mijangos², Raul
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- SP_P13 Novel ball-type four dithio erythritol bridged metallophthalocyanines and their
water-soluble derivatives: Synthesis and characterization, and
electrochemical, electrocatalytic, electrical and gas sensing properties
Tanju Ceyhan, Ahmet Altindal, Ali Riza Özkaya, Bekir Salih, Özer Bekaroglu
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- SP_P14 Intercluster Compounds for Nanosized Materials
Fabienne Gschwind, Franziska Gruber, Martin Jansen
Max-Planck Institute for Solid State Research, Stuttgart, Germany
- SP_P15 Synthesis and Physicochemical studies of nickel(II) and copper(II) complexes
of 2-substituted- β -diketone, 2,2'-bipyridine and 1,10-phenanthroline adducts.
Helen Omoregie, Joseph Woods
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- SP_P16 Studies on Mixed Ligand Complexes of Ni(II) with Polydentate Ligands
Bhushan Langi
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- Mumbai, Maharashtra, India*
- SP_P17 Synthesis, Structural, Spectral And Electrochemical Properties Of Novel Oxovanadium(IV) Complexes Of Benzoylthiourea And Tris(3,5-dimethylpyrazolyl)borate Ligands
Aisha A. Al-abbasi, Mohammad B. Kassim
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- SP_P18 Synthesis and Characterization of Mixed Ligand Uranium Complexes with some Amino Acids
Sunil Patil, Manzoor Shaikh
Changu Kana Thakur Arts, Commerce & Science College, New Panvel, Navi Mumbai, Maharashtra, India
- SP_P19 Everything you want to know about tetranuclear lanthanide complexes!
Josef Hamacek
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- SP_P20 Stepwise self-assembly of 'layered' tungstotellurite polyanions
Jing Gao, Jun Yan, Deliang Long, Leroy Cronin
University of Glasgow, Glasgow, UK
- SP_P21 Mixed-metal polyoxometalate based cages templated by non-conventional heteroatoms
Maria-Nieves Corella-Ochoa, Haralampos Miras, Leroy Cronin
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- SP_P22 Synthesis and first host-guest studies of polynuclear complexes derived from calix[6]arene receptors functionalized at the large rim
Cyrille Monnereau, Olivia Bistri, Jean-Noël Rebilly, Olivia Reinaud
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- SP_P23 Synthesis and Magnetic Properties of a Nine-numbered Homometallic Chromium Ring
Grigore A. Timco², Piotr Kozłowski¹, Michal Antkowiak¹, Grzegorz Kamieniarz¹, Robin J. Pritchard², Floriana Tuna², Richard E. P. Winpenny²
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- SP_P24 Synthesis and Characterization of Mixed Ligand Complexes of Zinc(II) with Polydentate Ligands
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- SP_P25 Zinc-Promoted Nucleophilic Addition of Amines with Dicyanonitrosomethanode, [C(CN)₂(NO)]⁻
Mohd Rizal Razali, Stuart Batten, Glen Deacon, Jonathan Maclellan
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- SP_P26 Distortion in the Square-Planar Metal Dithiolene Complexes: Pivotal Role of Supramolecular Chemistry
Ravada Kishore, Samar Kumar Das
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- SP_P27 Influence of Molecular Structure on the Occurrence of Spin-Crossover
Malcolm Halcrow
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- SP_P28 Drug Delivery by Water-Soluble Organometallic Cages
Bruno Therrien
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- SP_P29 CATALYSIS WITHIN A SOLUBLE METAL-OXIDE FRAMEWORK NANO-REACTOR

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- SP_P30 Linear discriminant analysis of ³¹P NMR data for identification and enantiodiscrimination of amino acids
Esteban P. Urriolabeitia, Sonia Nieto, Carlos Cativiela
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- SP_P31 Synthesis and processing of bioinspired iron complexes for oxidation catalysis
Véronique Jollet¹, Frédéric Banse¹, Belén Albela², Laurent Bonneviot²
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- SP_P32 New Structural Motifs and Interesting Magnetic Properties in Manganese Cluster Chemistry from the Use of 2-Pyridyl Oximate Ligands
Dimitris Alexandropoulos¹, Constantina Papatriantafyllopoulou², Manolis Manos⁶, Guillem Aromí³, Olivier Roubeau⁴, Simon Teat⁵, Spyros Perlepes¹, George Christou², Theocharis Stamatatos¹
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- SP_P33 EPR Study of Iron(III) Coordination Compounds with Benzimidazolic Ligands
Sandra González Martínez, Silvia Castillo Blum
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- SP_P34 Introducing *in situ* Generated Ligands in Manganese Cluster Chemistry: A Large Family of Mixed-Valence Mn(II/III) Complexes with Unprecedented Topologies and Interesting Magnetic Properties
Evangelia Koumoussi¹, Constantina Papatriantafyllopoulou⁵, Catherine Raptopoulou², Vassilis Psycharis², Manolis Manos³, Simon Teat⁴, George Christou⁵, Spyros Perlepes¹, Theocharis Stamatatos¹
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- SP_P35 Ligand functionalization of molecular materials: toward magnetic soft matter
Diana Siretanu, Pierre Dechambenoit, Rodolphe Clérac
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- SP_P36 Losing rotational degrees of freedom: Are neutral ligands for triple-stranded dinuclear lanthanide helicates really affected?
Patrick E. Ryan, Elliott Croset, Claude Piguet
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- SP_P37 Pentasubstituted Ferrocene and Dirhodium(II) Tetracarboxylate as Building Blocks for Discrete Fullerene-like and Extended Supramolecular Structures
Lok H Tong, Laure Guénée, Alan F Williams
University of Geneva, Geneva, Switzerland

- SP_P38 Seven-coordinate tetranuclear (4+4) and ring-contracted Mn(II) complexes, their SOD activities and catalysts for the disproportion of hydrogen Peroxide
Muhammet Kose, Vickie McKee
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- SP_P39 Higher J coupling of trimetallic bis(oxamidato) complexes by increasing the spin population within corresponding monometallic complexes
Mohammad Abdulmalic, Tobias Rueffer
Chemnitz University of Technology, Chemnitz, Saxony, Germany
- SP_P40 A quadruple helical complex using malic acid bisbenzimidazole derivatives as ligand
Claire Deville, Céline Besnard, Alan F. Williams
University of Geneva, Geneva, Switzerland
- SP_P41 Self-Assembly of Macrocyclic Schiff base complex
Giovanni Salassa, Ana Maria Castilla, Arjan W. Kleij
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- MG_P18 Unexpected Reactivity of Dichlorogallanes - Formation of Polylithium compounds and an inverted crown ether
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- IM_P38 SUBSTITUTION LEAD BY SAMARIUM IN THE COMPOUND
 $\text{Pb}_8\text{Na}_2(\text{PO}_4)_6 \cdot x/2$
Evgeny Getman, Alexi Ignatov, Mohammed Abdul Jabar
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- IM_P39 systematic chemistry in a family of SnW_5 lindqvist-type polyoxometalates
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