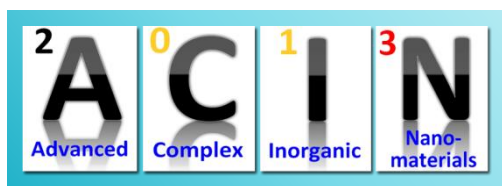
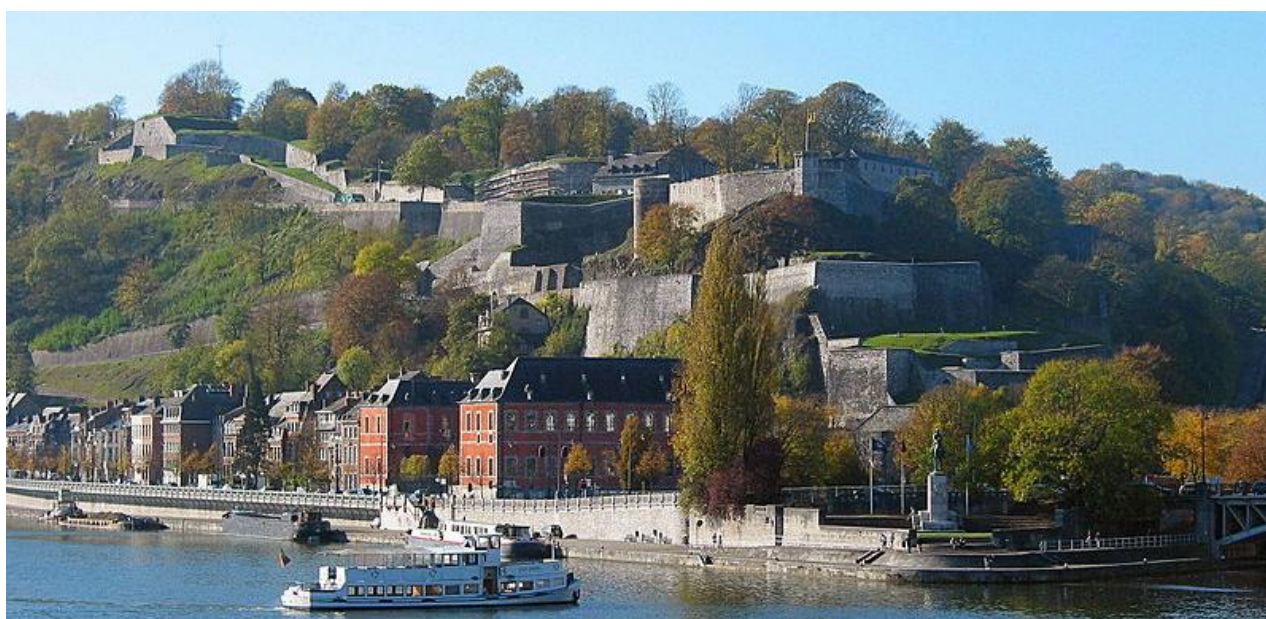


Second International Conference on Advanced Complex Inorganic Nanomaterials



## Conference Programme



## ACIN 2013 – Evolution and Revolution

15 - 19 July 2013

Namur, Belgium



Dear Colleagues,

On behalf of the Scientific Committee of the Second International Conference on Advanced Complex Inorganic Nanomaterials, ACIN2013, we cordially welcome you to Namur.

This conference is jointly organised by the Laboratory of Inorganic Materials Chemistry at the University of Namur and the Institute of Condensed Matter and Nanoscience at the Catholic University of Louvain. The aim of this international meeting is to offer an update of recent innovations in both fundamental and applied aspects and to highlight the latest advances and progress in the field of inorganic nanomaterials (inorganics, ceramics, hybrids and bio-inspired materials). The emphasis will be put on interdisciplinarity and on future directions. The organisers would also like to make this meeting a discussion forum between scientists and those who would like to become acquainted with new developments, perspectives and applications of inorganic nanomaterials.

Energy, environmental issues and health care are amongst the top priorities of modern society. Such issues have sparked phenomenal interest in inorganic nanomaterials as they hold great promise to develop new advanced devices and equipment which revolutionise the way we live. Investigating the structuration of materials on the nanoscale has revealed unprecedented physical (optics, magnetism, etc.) and chemical (e.g. catalysis) properties that are absent in bulk matter of the same chemical composition. These specific functionalities are the consequence of a complex multi-level organisation (chemical, structural, textural) of the architecture of inorganic nanomaterials. The global properties and functional performances largely depend on the extent to which these levels are mastered during the synthesis process.

During the course of ACIN 2013 you will have the chance to attend several plenary, keynote and invited lectures from eminent scientists as well as many oral and poster presentations given by our peers and covering a wide variety of domains. We also have the great privilege of a Nobel Prize Lecture given by Prof. Jean-Marie Lehn which will bring this conference to a close on Friday.

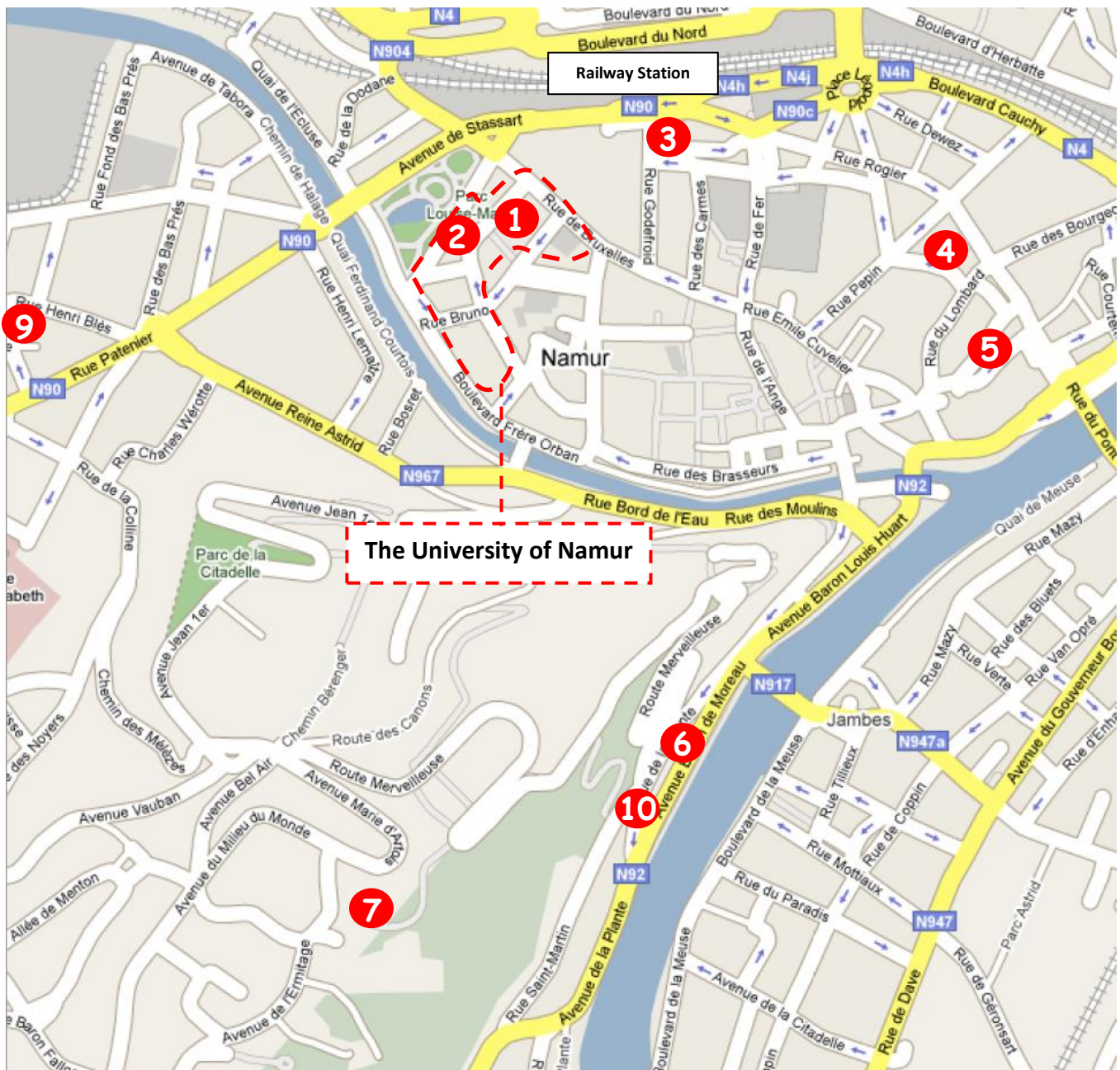
We wish to extend our sincere gratitude to the session chairs and the various committees that have helped organise this event, but above all we wish to thank you the participants for the high standard you have set in the research you present to us all here at ACIN 2013, without you this conference would not be possible.

We are grateful to our sponsors, supporting organisations and exhibitors. The organisers would also like to acknowledge the support provided from the University of Namur.

Finally we would like to wish you all a pleasant stay and we hope that you enjoy the social events we have arranged especially for you.

Bao-Lian Su, Yann Garcia,  
Alain Krief, Joanna Rooke

The Organising Committee



Towards Wépion 8

1. Conference Venue - Pedro Arrupe Auditoriums (PA01 & PA02)
2. Parking FUNDP
3. Grand Hôtel de Flandre (3' walking)
4. Hôtel IBIS (10-15' walking)
5. Hôtel Les Tanneurs (10-15' walking)
6. Hôtel Beauregard (10-15' walking)
7. Hôtel Château de Namur (5' by Taxi/Shuttle)
8. Hampton's Hotel Namur-Wépion (15' by Taxi/Shuttle)
9. University Accommodation (33bis rue Henri Blès) (10-15' walking)
10. The Royal Snail Hotel (10-15' walking)

## Useful Information

Emergency Call : 100 (or 112 from a cellular phone)

Police : 101

Out of Hours Pharmacy: 0900 10500



Laboratory of Inorganic Materials Chemistry : +32 81 72 54 16

Laboratory of Inorganic Materials Chemistry (**FAX**) : +32 81 72 54 14

In case of **extreme** emergency : +32 494 74 06 35; +32 496 54 04 99 (organiser's personal phone)

Brussels Airport Info Phone : 0900 700 00; +32 2 753 77 53

Hôtel Les Tanneurs: +32 81 24 00 24

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Hôtel Beaugard : +32 81 23 00 28

The Royal Snail Hotel : +32 81 57 00 23

University Accommodation : +32 81 73 68 48



## Symposium Committees

### Organising Committee

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Prof. Yann Garcia, co-chair  
*Université Catholique de Louvain, Belgium*

Prof. Alain Krief  
*Université de Namur, Belgium*

Dr. Joanna Rooke  
*Université de Namur, Belgium*

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Prof. Mathias Drieß  
*Technische Universität Berlin, Germany*

Prof. Yao Li  
*Harbin Institute of Technology, China*

Prof. Bao-Lian Su  
*Université de Namur, Belgium*

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Emeric Danloy

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Benjamin Delcourt

Cassandra Toni

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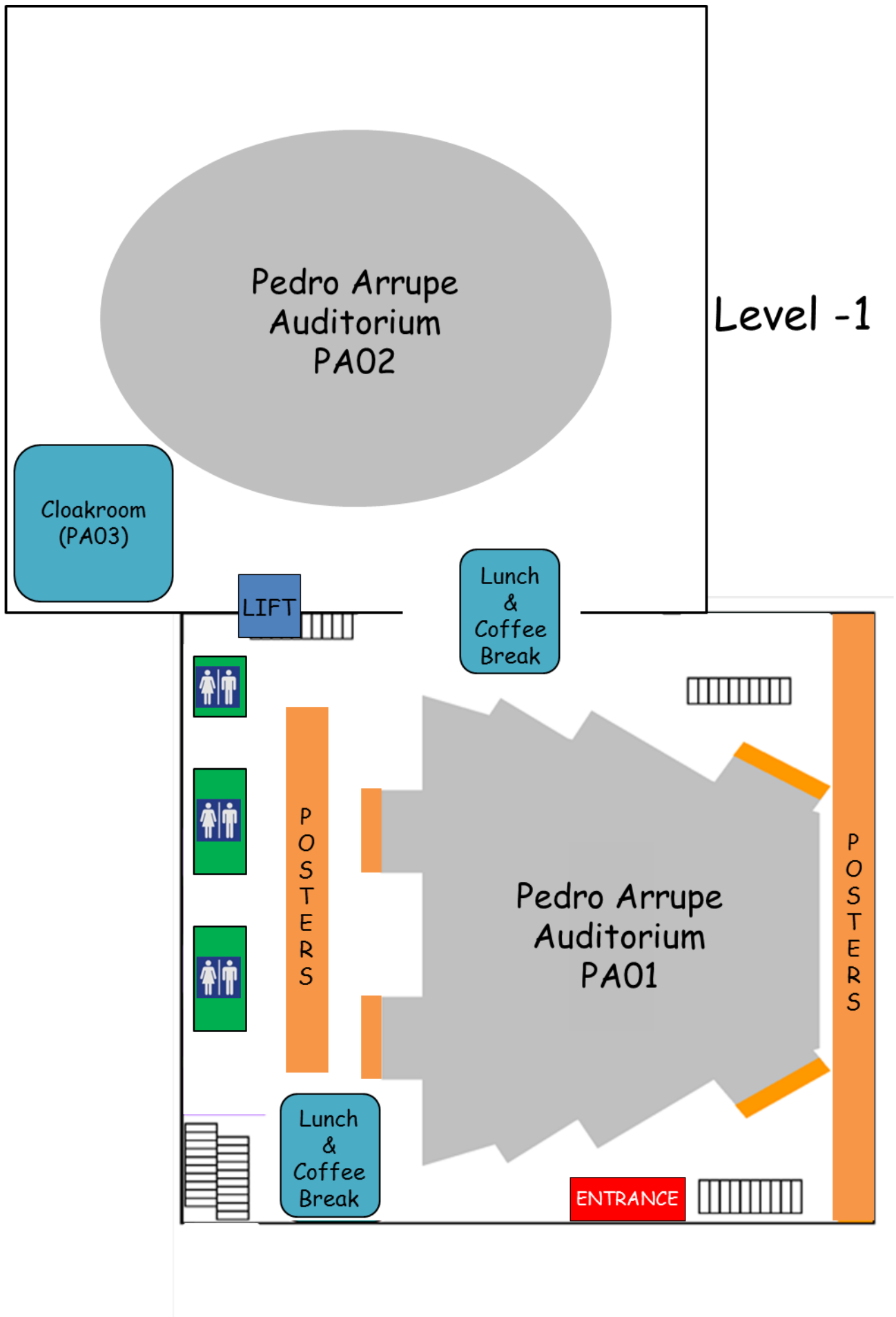
Laurent Demelenne

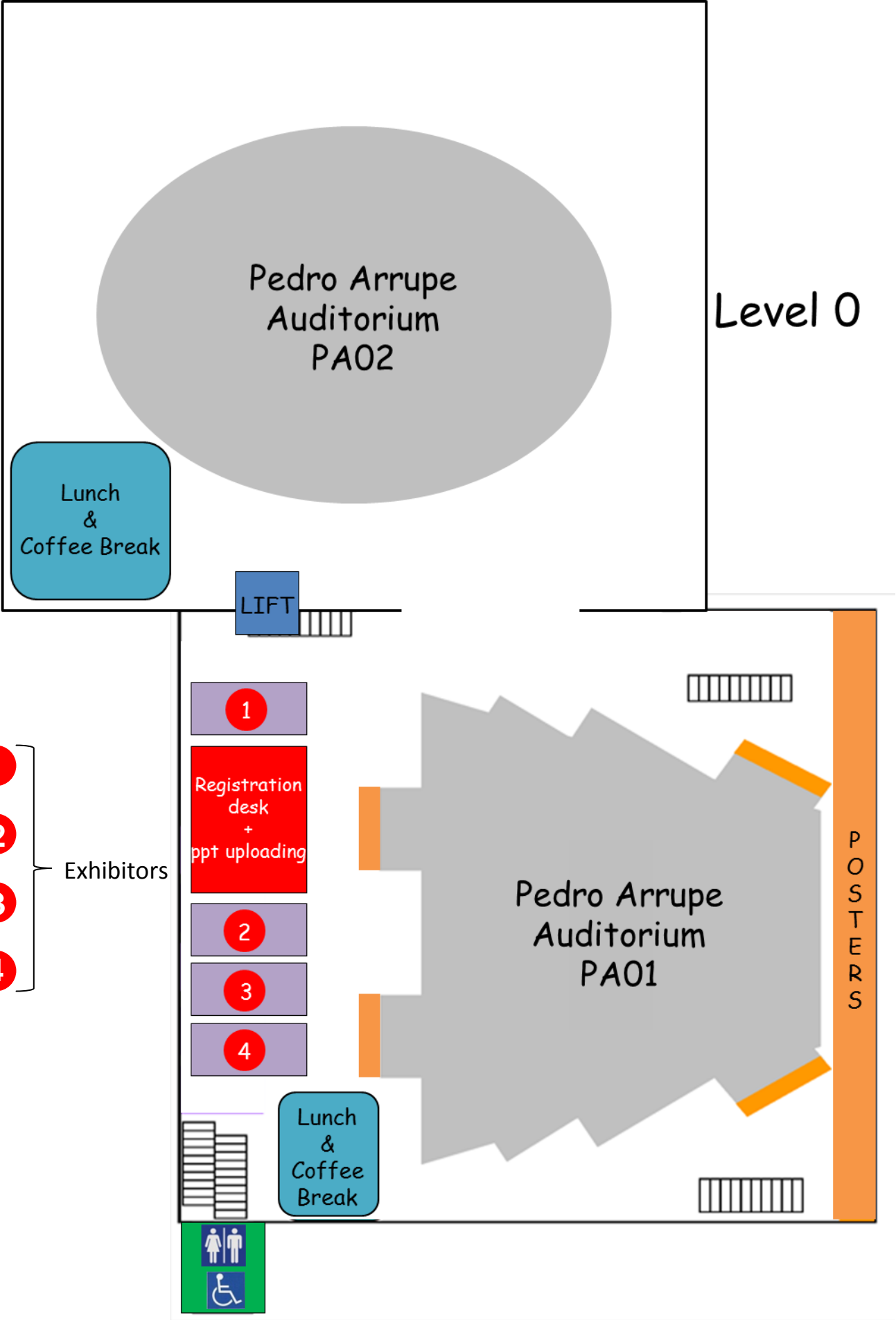
Benoit Van der Schueren

Jonathan Desmet

Reginald le Maire

# Map of the Conference Venue





Pedro Arrupe Auditorium PA02

Level 0

Lunch & Coffee Break

LIFT

1

Registration desk + ppt uploading

2

3

4

Exhibitors

Pedro Arrupe Auditorium PA01

POSTERS

Lunch & Coffee Break

- 1
- 2
- 3
- 4



# Conference Schedule

15 <sup>th</sup> July		16 <sup>th</sup> July		17 <sup>th</sup> July		18 <sup>th</sup> July		19 <sup>th</sup> July	
		PL3		PL4		PL5		PL6	
		KN5		KN8		KN11		KN14	
		KN6		KN9		KN12		KN15	
		KN7		KN10		KN13		KN16	
		Coffee Break							
11h00	Registration	IL1	IL5	IL19	IL23	IL37	IL41	KN17	
		IL2	IL6	IL20	IL24	IL38	IL42	Nobel Prize Lecture	
		IL3	IL7	IL21	IL25	IL39	IL43		
		IL4	IL8	IL22	IL26	IL40	IL44		
		O1	O2	O19	O20	O35	O36	Closing	
		Lunch + Coffee + Poster (I and II – see programme)							Drinks
		IL9	IL12	IL27	IL30	IL45	IL48		
		IL10	IL13	IL28	IL31	IL46	IL49		
		IL11	IL14	IL29	IL32	IL47	IL50		
		O3	O6	O21	O24	O37	O40		
		O4	O7	O22	O25	O38	O41		
		O5	O8	O23	O26	O39	O42		
		Coffee Break							
		14h45-15h15	Opening	IL15		IL17		IL33	
15h15-16h00	PL1	IL16		IL18		IL34		IL36	
16h00-16h45	PL2	O9		O14		O27		O31	
16h45-17h15	KN1	O10		O15		O28		O32	
17h15-17h45	KN2	O11		O16		O29		O33	
17h45-18h15	KN3	O12		O17		O30		O34	
18h15-18h45	KN4	O13		O18		Free time		O47	
		F1 – F4		F5 – F8				F9 - F12	
								F13 - F17	
19h00-22h00	Walking Dinner + Poster (I)	18h15-19h00		Social Activity (18h30)					
		19h00-20h30 (-22h00)		Drinks + Poster (I)		Informal Dinner + Belgian Beer Party + Poster (II)		Banquet Gala	

PL : Plenary Lecture (40 minutes + 5 minutes question) ; KN : Keynote Lecture (27 minutes + 3 minutes question); IL: Invited Lecture (17 + 3 minutes); O : Oral Presentation (12 minutes + 3 minutes question); F: Flash Presentation (5 minutes)

## Poster Session Timetable:

**Session I: P-001 → P-112**

Monday 15<sup>th</sup> July 19h00 – 22h00

Tuesday 16<sup>th</sup> July 12h35 – 13h45 & 19h00 – 20h30

**Session II: P-113 → P-226**

Wednesday 17<sup>th</sup> July 12h35 – 13h45 & 19h00 – 21h30

Thursday 18<sup>th</sup> July 12h35 – 13h45



**Monday 15<sup>th</sup> July 2013**

**(Auditorium PA01)**

**11h00 – 18h00: Registration**

**14h45 – 15h15: Opening Remarks**

**Chairmen: Bao-Lian Su and Yann Garcia**

**15h15 - 16h00:** (PL-01) **Michael Graetzel**, *Ecole Polytechnique Fédérale de Lausanne, Switzerland*

Mesoscopic Systems for the Generation of Electricity and Fuels from Sunlight

**16h00 – 16h45:** (PL-02) **Zhong Lin Wang**, *Georgia Institute of Technology, USA*,  
Nanogenerators and Piezotronics – from Basic Science to Novel Applications

**16h45 – 17h15:** (KN-01) **Min Gu**, *Swinburne University of Technology, Australia*  
Green-Photonics with Metallic Nanoparticles

**17h15 – 17h45:** (KN-02) **Leone Spiccia**, *Monash University, Australia*  
Water Oxidation Catalysis by Manganese Oxide Nanoparticles

**17h45 – 18h15:** (KN-03) **Sally Brooker**, *University of Otago, New Zealand*  
Spin Crossover with Hysteresis

**18h15 – 18h45:** (KN-04) **Zhang Di**, *Shanghai Jiao Tong University, China*  
Bio-mimetic Functional Hierarchical Materials Inspired from Nature Species

**19h00 – 22h00: Welcome Reception + Walking Gala + Poster (I)**

**Tuesday 16<sup>th</sup> July 2013**

**Plenary Session (Auditorium PA01)**

**Chairmen: Min Gu and Alexandra Chaumonot**

- 8h30 – 9h15:** (PL-03) **Mathias Drieß**, *Technische Universität Berlin, Germany*  
New Directions in Materials Synthesis for Energy-Saving and Unifying Catalysis
- 9h15 – 9h45:** (KN-05) **Lee Brammer**, *University of Sheffield, United Kingdom*  
Chemical Reactions in Molecular Crystals and Framework Materials
- 9h45 – 10h15:** (KN-06) **Shin-Ichi Ohkoshi**, *University of Tokyo, Japan*  
Novel Magnetic Functionalities on Cyano-Bridged Bimetal Assemblies and Iron Oxide Nanomaterials
- 10h15 – 10h45:** (KN-07) **Paolo Samori**, *Université de Strasbourg, France*  
Hybrid Supramolecular Electronics: Towards Multifunctional Systems and Devices
- 10h45 – 11h00: Coffee Break**

## Session A (Auditorium PA01): Catalysis and Photocatalysis (1)

**11h00 – 12h35 Chairmen: Leone Spiccia and Elsje Alessandra Quadrelli**

- 11h00 – 11h20:** (IL-01) **Erwin Reisner**, *University of Cambridge, United Kingdom*  
Solar Water Splitting with Enzymes and Synthetic Catalysts Integrated in Nanostructured Materials
- 11h20 – 11h40:** (IL-02) **Artur Braun**, *EMPA Swiss Federal Laboratories for Materials Science and Technology, Switzerland*  
Nanostructured Iron Oxide: The Inorganic Backbone for Artificial Photosynthesis
- 11h40 – 12h00:** (IL-03) **Xuchuan Jiang**, *University of New South Wales at Sydney, Australia*  
Engineering Silver@TiO<sub>2</sub> Nanostructures for Highly Efficient Photocatalysts
- 12h00 – 12h20:** (IL-04) **Andre ten Elshof**, *University of Twente, The Netherlands*  
Core-Shell and Segmented Metal Oxide-Metal Composite Nanowires for Photocatalytic Generation of Hydrogen
- 12h20 – 12h35:** (O-01) **Biaohua Chen**, *Beijing University of Chemical Technology, China*  
Ni-Pd Nanochains with Enhanced Catalysis Activity for Selective Hydrogenation of Acetophenone

**12h35 – 13h45: Lunch Break + Poster (I)**

## Session B (Auditorium PA02): Atomic Understanding of Nanomaterials

**11h00 – 12h35 Chairmen: Jean Juraszek and Chang-Jun Liu**

- 11h00 – 11h20:** (IL-05) **Petra de Jongh**, *Universiteit Utrecht, The Netherlands*  
The Stability of Supported Catalysts-Impact of Metal Nanoparticle Distribution and Support Morphology
- 11h20 – 11h40:** (IL-06) **Sefik Suzer**, *Bilkent University, Turkey*  
XPS for Charge-Sensitive Analysis of Nanomaterials
- 11h40 – 12h00:** (IL-07) **Raphaël Hermann**, *Forschungszentrum Jülich, Germany*  
Specificities of the Lattice Dynamics in Thermoelectric Nanomaterials
- 12h00 – 12h20:** (IL-08) **Federico Rosei**, *Institut National de la Recherche Scientifique, Canada*  
Strategies for Controlled Assembly at the Nanoscale
- 12h20 – 12h35:** (O-02) **Monique A. van der Veen**, *Katholieke Universiteit Leuven, Belgium*  
Nonlinear Optical Spectroscopy Reveals the External Surface and Phase Transitions of Metal-Organic Frameworks

**12h35 – 13h45: Lunch Break + Poster (I)**

## Session C (Auditorium PA01): Catalysis and Photocatalysis (2)

**13h45 – 15h30 Chairmen: Andre ten Elshof and Xuchuan Jiang**

- 13h45 – 14h05:** (IL-09) **Dongling Ma**, *University of Quebec, Canada*  
Nanohybrids for Catalysis and Solar Cell Applications.
- 14h05 – 14h25:** (IL-10) **Jean-François Lamonier**, *Université Lille1 Sciences et Technologies, France*  
Engineered Materials for the Low Temperature Catalytic Removal of Formaldehyde: Can Noble Metal Free Nanomaterials be Efficient for the Reaction?
- 14h25 – 14h45:** (IL-11) **Sharifah Bee Abd Hamid**, *University of Malaya, Malaysia*  
Palm Tree Biomass Catalytic Biorefining: Opportunities and Challenges
- 14h45 – 15h00:** (O-03) **Tao Zhang**, *Dalian Institute of Chemical Physics, China*  
One-Step Synthesis of Au-Pd Nanodendrites with Homogeneous Alloy Structure and Their Electrocatalytic Activity
- 15h00 – 15h15:** (O-04) **Tamez Uddin**, *University of Bordeaux, France*  
Heterostructure RuO<sub>2</sub>/TiO<sub>2</sub> and RuO<sub>2</sub>/ZnO Nanomaterials: Amazing Heterojunction Metal Oxide Photocatalysts for the Degradation of Organic Pollutants
- 15h15 – 15h30:** (O-05) **Yan Kong**, *Nanjing University of Technology, China*  
The Preparation and Catalytic Performance of Porous Silica Nanotube Functioned with Heteroatoms
- 15h30 – 16h00: Coffee Break**

## Session D (Auditorium PA02): Spin Crossover, Spintronics and Magnetic Properties (1)

**13h45 – 15h30 Chairmen: Sally Brooker and Mir Wais Hosseini**

- 13h45 – 14h05:** (IL-12) **Kamel Boukheddaden**, *Université de Versailles, France*  
Velocity of the High-Spin Low-Spin Interface Inside the Thermal Hysteresis Loop of a Spin-Crossover Crystal, via the Photo-Control of the Interface Motion
- 14h05 – 14h25:** (IL-13) **Martin Albrecht**, *University College Dublin, Ireland*  
Supramolecular Approaches for Tailoring Spin Crossover Materials
- 14h25 – 14h45:** (IL-14) **Jean Juraszek**, *Université de Rouen, France*  
Tuning the Spintronic Properties of BiFeO<sub>3</sub> by Strain Engineering
- 14h45 – 15h00:** (O-06) **Birgit Weber**, *Universität Bayreuth, Germany*  
Schiff-Base Like Spin-Crossover Complexes: Nanoparticles and Lamellar Structures with Hysteresis
- 15h00 – 15h15:** (O-07) **Takafumi Kitazawa**, *Toho University, Japan*  
Crystal Structure and Magnetic Property of Spin Crossover Complex Fe<sup>II</sup>(Ethyl Nicotinate)<sub>2</sub>[Au<sup>I</sup>(CN)<sub>2</sub>]<sub>2</sub>
- 15h15 – 15h30:** (O-08) **Eva Rentschler**, *University of Mainz, Germany*  
Controlling Magnetism by Controlling the Dimensionality of Metallophosphonates
- 15h30 – 16h00: Coffee Break**

## Session E (Auditorium PA01): Catalysis and Photocatalysis (3)

**16h00 – 18h20 Chairmen: Stéphane Siffert and Sharifah Bee Abd Hamid**

- 16h00 – 16h20:** (IL-15) **Damien Debecker**, *Université Catholique de Louvain, Belgium*  
Advanced One-Step Methods for the Preparation of Highly Active MoO<sub>3</sub>/SiO<sub>2</sub>-Al<sub>2</sub>O<sub>3</sub> Metathesis Catalysts
- 16h20 – 16h40:** (IL-16) **Yu Li**, *Wuhan University of Technology, China*  
Increasing Light Absorption of Titania Inverse Opal Films by Photonic Effect for Photocatalysis Enhancement
- 16h40 – 16h55:** (O-09) **Hanane Ben Boubaker**, *Université Tunis-El Manar, Tunisia*  
Advanced Pd/CexZr<sub>1-x</sub>O<sub>2</sub>/SBA-15 Catalysts for Methane Combustion from Biohybrid Nanomaterials
- 16h55 – 17h10:** (O-10) **Karine Assaker**, *Université de Lorraine, France*  
Preparation of ordered mesoporous titania and its application to the photocatalytic oxidation of methyl orange
- 17h10 – 17h25:** (O-11) **Stéphanie Lambert**, *Université de Liège, Belgium*  
Physico-Chemical Properties and Photocatalytic Activity of P/Ag-doped TiO<sub>2</sub> Xerogels
- 17h25 – 17h40:** (O-12) **Pascal Van Der Voort**, *Ghent University, Belgium*  
Metal Organic Frameworks in Adsorption and Catalysis-Focus on Vanadium Containing MOFs
- 17h40 – 17h55:** (O-13) **Kenji Saito**, *Niigata University, Japan*  
Complex Oxide Nanowire Possessing UV and Visible Light Response

**Chairman: Yu Li**

- 17h55 – 18h00:** (F-01) **Yu-Xue Zhou**, *Yangzhou University, China*  
Ethylene Glycol Assisted Solvothermal Fabrication of ZnWO<sub>4</sub> Nanostructure with Tunable Size, Optical Properties and Photocatalytic Activities
- 18h00 – 18h05:** (F-02) **Ross Winter**, *University of Glasgow, United Kingdom*  
Towards the Design of Polyoxotungstate-Based Nanostructures using Transition Metal Control
- 18h05 – 18h10:** (F-03) **Víctor Sebastian**, *University of Zaragoza, Spain*  
Selective synthesis of Au clusters on Fe<sub>3</sub>O<sub>4</sub> Nanoparticles by Alternating Magnetic Fields (AMF)
- 18h10 – 18h15:** (F-04) **Sebastian Wohlrab**, *University of Rostock, Germany*  
Porous Glass as Support for Methane Oxidation Catalysts

**18h15 – 19h00: Free Time**

**19h00 – 20h30: Drinks + Poster (I)**



## Session F (Auditorium PA02): Spin Crossover, Spintronics and Magnetic Properties (2)

**16h00 – 18h20 Chairmen: Martin Albrecht and José Antonio Real**

- 16h00 – 16h20:** (IL-17) **Rodolphe Clérac**, *Centre de Recherche Paul Pascal, France*  
“Single Molecule Magnets”: New Building Blocks for Magnetic Materials
- 16h20 – 16h40:** (IL-18) **Osamu Sato**, *Kyushu University, Japan*  
Phototunable Single Chain Magnets
- 16h40 – 16h55:** (O-14) **Sabrina Disch**, *Institut Laue-Langevin, France*  
Iron Oxide Nanoparticle Mesocrystals for Determination of Directionally Resolved Magnetization Relaxation
- 16h55 – 17h10:** (O-15) **Antoine Tissot**, *University of Geneva, Switzerland*  
Photoswitchable Nanoparticles of Spin-Crossover Iron Complexes
- 17h10 – 17h25:** (O-16) **Corine Mathonière**, *Institut de Chimie de la Matière Condensée de Bordeaux, France*  
Magnetic and Optical Bistability of Molecular Fe/Co Complexes
- 17h25 – 17h40:** (O-17) **Marat M. Khusniyarov**, *Friedrich-Alexander-University, Germany*  
Room Temperature Photomagnetic Molecular Switches: Transition Metal Complexes with Photoisomerizable Ligands
- 17h40 – 17h55:** (O-18) **Jorge Linares**, *Université de Versailles Saint-Quentin, France*  
2D Nanosystems Described by a Ising-like Model with Short- and Long-Range Interactions: a Three-step Spin Transition

**Chairman: Jean-François Lamonier**

- 17h55 – 18h00:** (F-05) **Carine Yvon**, *University of Glasgow, United Kingdom*  
Peptide-Polyoxometalate Hybrids for Nanostructured Materials
- 18h00 – 18h05:** (F-06) **Carminna Ottone**, *Istituto Italiano di Tecnologia, Italy*  
Ultralong ZnO Nanowire Arrays Using a Template- Assisted Approach for Piezoelectric
- 18h05 – 18h10:** (F-07) **Hiroko Tokoro**, *The University of Tokyo, Japan*  
Zero-Thermal Expansion Film Based on Rubidium Manganese Hexacyanoferrate
- 18h10 – 18h15:** (F-08) **Stephan Schlamp**, *University of Bayreuth, Germany*  
Spin Crossover Complexes with Amphiphilic Ligands
- 18h15 – 19h00: Free Time**
- 19h00 – 20h30: Drinks + Poster (I)**

Wednesday 17<sup>th</sup> July 2013

Plenary Session (Auditorium PA01)

Chairmen: Lee Cronin and Silvio Decurtins

- 8h30 – 9h15:** (PL-04) **Susumu Kitagawa**, *Kyoto University, Japan*  
Gas Science and Technology by Porous Coordination Polymers/Metal-Organic Frameworks
- 9h15 – 9h45:** (KN-08) **Xiao-Dong Zou**, *Stockholm University, Sweden*  
3D Structure Determination of Advanced Complex Inorganic Nanomaterials by Electron Crystallography
- 9h45 – 10h15:** (KN-09) **Shilun Qui**, *Jilin University, China*  
Porous Organic Frameworks for Carbon Capture and Clean Energy Storage
- 10h15 – 10h45:** (KN-10) **Kazuyuki Kuroda**, *Waseda University, Japan*  
Silica and Silicate Based Nanomaterials
- 10h45 – 11h00: Coffee Break**

## Session G (Auditorium PA01): MOF and Hybrid Materials

**11h00 – 12h35 Chairmen: Shilun Qiu and Kazuyuki Kuroda**

- 11h00 – 11h20:** (IL-19) **Elsje Alessandra Quadrelli**, *Université de Lyon 1, France*  
Mo-Doped MOF Ni<sub>2</sub>(dihydroxyterephthalate) as Precursor for 3-Layer Ni-Doped MoS<sub>2</sub> HDS Catalyst
- 11h20 – 11h40:** (IL-20) **Wei Zhou**, *National Institute of Standards and Technology, USA*  
Mechanical and Thermal Properties of Nanoporous Metal-Organic Frameworks, and their Implications on Gas Storage Applications
- 11h40 – 12h00:** (IL-21) **Silvio Decurtins**, *Universität Bern, Switzerland*  
Targeting Redox-Active Ligand Systems
- 12h00 – 12h20:** (IL-22) **Zhong-Yong Yuan**, *Nankai University, China*  
Mesoporous Non-Silica-Based Organic-Inorganic Hybrid Materials for Sustainable Energy and Environment
- 12h20 – 12h35:** (O-19) **Xiao-Chun Huang**, *Shantou University, China*  
The Rational Design and Crystal Structures of Metal-Organic Nanotubular Frameworks

**12h35 – 13h45: Lunch + Poster (II)**

## Session H (Auditorium PA02): Multifunctionality of Nanomaterials

**11h00 – 12h35 Chairmen: Sefik Suzer and Petra de Jongh**

- 11h00 – 11h20:** (IL-23) **Tawfique Hasan**, *University of Cambridge, United Kingdom*  
2-dimensional NanoMaterials: Solution Processing for Optoelectronic Applications
- 11h20 – 11h40:** (IL-24) **Jinbo Bai**, *Ecole Centrale Paris, France*  
Preparation of Carbon Nanotubes Based Nano/Micro Hybrid Reinforcement for Multifunctional Polymer Matrix Composites Application
- 11h40 – 12h00:** (IL-25) **Thierry Visart de Bocarmé**, *Université Libre de Bruxelles, Belgium*  
Field Emission Techniques to Study NO<sub>x</sub> Hydrogenation over Platinum Group Metal Nanocrystallites
- 12h00 – 12h20:** (IL-26) **Wolfgang Tremel**, *Johannes-Gutenberg-Universität, Germany*  
Flexible Minerals: Self-Assembled Calcite Spicules with Extreme Bending Strength
- 12h20 – 12h35:** (O-20) **Valentina Cauda**, *Istituto Italiano di Tecnologia, Italy*  
Piezoelectric Evaluation of Ultra-Thin Nano-Confined Polymeric Nanowires

**12h35 – 13h45: Lunch + Poster (II)**

## Session I (Auditorium PA01): Advanced Materials for Energy and Environment (1)

**13h45 – 15h30 Chairmen: Xiaodong Chen and Bertrand Vilquin**

- 13h45 – 14h05:** (IL-27) **Dina Fattakhova-Rohlfing**, *Universität München, Germany*  
Ultrasmall Metal Oxide Nanoparticles for Energy Conversion and Storage
- 14h05 – 14h25:** (IL-28) **Dan Wang**, *Institute of Process Engineering, China*  
Controllable Synthesis of Nanostructural Materials and Their Applications in DSSC
- 14h25 – 14h45:** (IL-29) **Rudi Cloots**, *Université de Liège, Belgium*  
High Performance DSSC Based on Semiconducting Oxides Prepared Through Soft Chemistry Processes
- 14h45 – 15h00:** (O-21) **Rüdiger Klingeler**, *University of Heidelberg, Germany*  
Morphology- and Size-Control, and a New Polymorph of  $\text{Li}(\text{Co},\text{Mn},\text{Ni})\text{PO}_4$  Nano- and Microcrystals
- 15h00 – 15h15:** (O-22) **Sherif A. El-Safty**, *Waseda University, Japan*  
Optical Mesosensor/Captor as a Multi-pH-Dependent Design for Toxic Metals
- 15h15 – 15h30:** (O-23) **Michael Challenor**, *University of Western Australia, Australia*  
Iron Oxide Induced Thermal Effects on the Solid State Upconversion Emissions in  $\text{NaYF}_4:\text{Yb}^{3+},\text{Er}^{3+}$  Nanocrystals
- 15h30 – 16h00: Coffee Break**

## Session J (Auditorium PA02): Advanced Technology for Materials Synthesis (1)

**13h45 – 15h30 Chairmen: Philippe Miele and Yao Li**

- 13h45 – 14h05:** (IL-30) **Jianguo Guan**, *Wuhan University of Technology, China*  
The Fabrication of Advanced Nanomaterials and Hemocompatible Micromotors by in-situ Generated Microbubbles
- 14h05 – 14h25:** (IL-31) **Michel Wong Chi Man**, *Institut Ch. Gerhardt Montpellier, France*  
New Route to Functional Organosilicas
- 14h25 – 14h45:** (IL-32) **Xiaojun Peng**, *Dalian University of Technology, China*  
FRET Spectral Unmixing: A Ratiometric Fluorescent Nanoprobe for Hypochlorite
- 14h45 – 15h00:** (O-24) **Louise B. Hamdy**, *University of Bath, United Kingdom*  
Engineering Extended Architectures using Metal Coordination in the Presence of Hydrogen Bonding
- 15h00 – 15h15:** (O-25) **Katerina Soulantica**, *Université de Toulouse, France*  
Solution Epitaxial Growth of Metallic Nanostructures on Solid Substrates
- 15h15 – 15h30:** (O-26) **Guillaume Rogez**, *Institut de Physique et Chimie des Matériaux de Strasbourg, France*  
Prussian Blue Analogue Nanoparticles in Layers by Pseudomorphic Replication
- 15h30 – 16h00: Coffee Break**

## Session K (Auditorium PA01): Advanced Materials for Energy and Environment (2)

**16h00 – 17h50 Chairmen: Liqiang Mai and Dina Fattakhova-Rohlfing**

- 16h00 – 16h20:** (IL-33) **Xiaodong Chen**, *Nanyang Technological University, Singapore*  
Programmed Architected Nanomaterials for Energy Conversion
- 16h20 – 16h40:** (IL-34) **Bertrand Vilquin**, *Ecole Centrale de Lyon, France*  
Functional Oxide Nanostructures for Energy Harvesting
- 16h40 – 16h55:** (O-27) **Hong En Wang**, *Wuhan University of Technology, China*  
Porous TiO<sub>2</sub> Microstructures as Anode Materials for Lithium Ion Batteries
- 16h55 – 17h10:** (O-28) **Jia-Qi Huang**, *Tsinghua University, China*  
Hierarchical Graphene/Carbon Nanotube Hybrids for Energy Storage
- 17h10 – 17h35:** (O-29) **Masaaki Ohba**, *Kyushu University, Japan*  
Chemo-Responsive Porous Compounds Interlocking Magnetic Properties
- 17h35 – 17h50:** (O-30) **Anthony F. Masters**, *University of Sydney, Australia*  
Tuning the Photocatalytic Water Splitting Activity of CdS Nanocrystals with Ionic Liquids
- 17h50 – 19h00: Free Time**
- 19h00 – 21h30: Informal Dinner + Belgian Beer Party + Poster (II)**



## Session L (Auditorium PA02): Advanced Technology for Materials Synthesis (2)

**16h00 – 17h50 Chairmen: Viorica Parvulescu and Michel Wong Chi Man**

- 16h00 – 16h20:** (IL-35) **Yao Li**, *Harbin Institute of Technology, China*  
Construction of 3D Ordered Functional Materials and their Applications
- 16h20 – 16h40:** (IL-36) **Philippe Miele**, *ENSC, Montpellier, France*  
Boron- and Silicon-based Polymer Derived Nano - Ceramics
- 16h40 – 16h55:** (O-31) **Jian-Zhong Yin**, *Dalian University of Technology, China*  
Controllable Synthesis of Nano Ag in Mesoporous Silica Using Supercritical Carbon Dioxide as Solvent and the Role of the Co-solvent Ethylene Glycol
- 16h55 – 17h10:** (O-32) **Andrea Lamberti**, *Istituto Italiano di Tecnologia, Italy*  
BaTiO<sub>3</sub> Nanotubes by Hydrothermal Conversion of Vertically Aligned TiO<sub>2</sub> Nanotubes
- 17h10 – 17h35:** (O-33) **Daniel Ruiz-Molina**, *Universitat Autònoma de Barcelona, Spain*  
Stimuli-Responsive Multifunctional Coordination Nanoparticles and their growth @ Surfaces
- 17h35 – 17h50:** (O-34) **Haralampos N. Miras**, *University of Glasgow, UK*  
Pyramidal Anions as Synthons for the Engineering of Modular Polyoxometalates
- 17h50 – 19h00 : Free Time**
- 19h00 – 21h30 : Informal Dinner + Belgian Beer Party + Poster (II)**

**Thursday 18<sup>th</sup> July 2013**

**Plenary Session (Auditorium PA01)**

**Chairmen: Mathias Drieß and Xiao-Dong Zou**

- 8h30 – 9h15:** (PL-05) **Xinhe Bao**, *Dalian Institute of Chemical Physics, China*  
Nano-Structured Carbon Materials for Catalysis
- 9h15 – 9h45:** (KN-11) **Ren-Hua Jin**, *Kanagawa University, Japan*  
Shape- and Chirality-Controlled Inorganic Nanomaterials Directed by  
Supramolecular Organic Templates
- 9h45 – 10h15:** (KN-12) **Christian Bonhomme**, *Université Pierre et Marie Curie, France*  
Solid State NMR: From Synthetic Inorganic Nanomaterials to Pathological  
Calcifications
- 10h15 – 10h45:** (KN-13) **Hiroki Oshio**, *University of Tsukuba, Japan*  
Metal Complexes with Multi-Bistability
- 10h45 – 11h00 : Coffee Break**

## Session M (Auditorium PA01): Catalysis and Bio-Catalysis

### 11h00 – 12h35 Chairmen: Lee Brammer and Artur Braun

- 11h00 – 11h20: (IL-37) **Raed Abu-Reziq**, *The Hebrew University of Jerusalem, Israel*  
Nanomaterials for Bridging Between Homogeneous and Heterogeneous Catalysis
- 11h20 – 11h40: (IL-38) **Alexandra Chaumonnot**, *IFP Énergies Nouvelles (IFPEN), France*  
Spray Drying Process as a Promising Route for the Preparation of Efficient Catalysts: Application to Hydrotreating Reactions
- 11h40 – 12h00: (IL-39) **Li-Hua Chen**, *Wuhan University of Technology*  
Multimodal Zeolites with Hierarchically Micro-Meso-Macroporous Structure
- 12h00 – 12h20: (IL-40) **Stéphane Siffert**, *Université du Littoral - Côte d'Opale, France*  
Investigation on the Strange Oscillating Effect Observed in the Catalytic Oxidation of VOCs
- 12h20 – 12h35: (O-35) **Jing-Yun Wang**, *Dalian University of Technology, China*  
Lipase Entrapment in Bio-inspired Zirconia Particles: Characterization and Application to the Resolution of (R, S)-1-Phenylethanol

### 12h35 – 13h45: Lunch + Poster (II)

## Session N (Auditorium PA02): Advanced Technology for Materials Synthesis (3)

### 11h00 – 12h35 Chairmen: Jinbo Bai and Paula E. Colavita

- 11h00 – 11h20: (IL-41) **Myrtil Kahn**, *Université de Toulouse, France*  
Thermotropic Liquid Crystals as Templates for Anisotropic Growth of Nanoparticles
- 11h20 – 11h40: (IL-42) **Chang-Jun Liu**, *Tian Jin University, China*  
Preparation and Characterization of Nanoparticles on the Thermally Non-Stable Substrate
- 11h40 – 12h00: (IL-43) **Hua Wu**, *Eidgenössische Technische Hochschule Zurich, Switzerland*  
From Shear-Activated Gelation of Nanoparticles to Innovative Materials
- 12h00 – 12h20: (IL-44) **Katharina Fromm**, *Université de Fribourg, Switzerland*  
Molecular Precursors for Nanomaterials and their Applications
- 12h20 – 12h35: (O-36) **Cheng-Fu Yang**, *National University of Kaohsiung, Taiwan*  
Effects of Hydrogen Treatment on the Properties of Al-Doped ZnO Thin Films

### 12h35 – 13h45 : Lunch + Poster (II)

**Session O (Auditorium PA01): Advanced Materials for Energy and Environment (4)**

**13h45 – 15h30 Chairmen: Dan Wang and Malcolm Halcrow**

- 13h45 – 14h05:** (IL-45) **Liqiang Mai**, *Wuhan University of Technology, China*  
Inorganic Nanowire Devices for High-Performance Energy Storage
- 14h05 – 14h25:** (IL-46) **Hyung-Man Kim**, *Inje University, South Korea*  
Challenges to Sustainable Energy for Global Environment
- 14h25 – 14h45:** (IL-47) **Xiangdong Yao**, *Griffith University, Australia*  
Recent Trends in Research of Hydrogen Storage

**Session P (Auditorium PA01): Spin Crossover, Spintronic and Magnetic properties (3)**

- 14h45 – 15h00:** (O-37) **Hans-Jörg Krüger**, *University of Kaiserslautern, Germany*  
Controlling Spin Crossover Properties in Iron(II) and Cobalt(II) Complexes Containing N,N'-Dimethyl-2,6-diaza[3.3](2,6)pyridinophane as Coligand
- 15h00 – 15h15:** (O-38) **José Antonio Real**, *Universidad de Valencia, Spain*  
New Discrete and Polymeric Spin Crossover Materials (Cooperativity, Phase Transitions and Porosity)
- 15h15 – 15h30:** (O-39) **Mia Milos**, *Université de Strasbourg, France*  
A New Multifunctional Hybrid Material, Spin-Crossover Coordination Polymer Embedded in Mesoporous Silica
- 15h30 – 16h00: Coffee Break**

## Session Q (Auditorium PA02): Carbon and Porous Materials

**13h45 – 15h30 Chairmen: Martin Hartmann and Zhong-Yong Yuan**

- 13h45 – 14h05:** (IL-48) **Yongde Xia**, *University of Exeter, United Kingdom*  
Functional Nanoporous Carbon Materials for Energy Gases Storage
- 14h05 – 14h25:** (IL-49) **Jean-François Colomer**, *University of Namur, Belgium*  
Synthesis by Atmospheric Pressure Chemical Vapor Deposition, Functionalization and Characterization of Carbon Nanostructures: From Aligned Carbon Nanotubes Towards Graphene
- 14h25 – 14h45:** (IL-50) **Jose Manuel Domínguez**, *Instituto Mexicano del Petróleo, Mexico*  
Synthesis and Functionalization of Carbon Nanofibers for Hydrogen Production and Storage
- 14h45 – 15h00:** (O-40) **Shinya Hayami**, *Kumamoto University, Japan*  
Ferromagnetic Graphene Hybrids with Conductivity
- 15h00 – 15h15:** (O-41) **Shih-Kai Chou**, *National Cheng Kung University, Taiwan*  
A Functional Organic-Inorganic Hybrid Structure Based on Hemin as a Heterogeneous Catalyst for the Detection of Bilirubin
- 15h15 – 15h30:** (O-42) **Graham A. Rance**, *University of Nottingham, United Kingdom*  
Click Chemistry in Carbon Nanoreactors
- 15h30 – 16h00: Coffee Break**

## Session R (Auditorium PA01): Bio-Active Processes and Advanced Properties

### 16h00 – 18h20 Chairmen: Ren-Hua Jin and Raed Abu-Reziq

- 16h00 – 16h20:** (IL-51) **Martin Hartmann**, *Friedrich-Alexander-Universität Erlangen-Nürnberg, Germany*  
Nanoporous Hybrid Materials for Enzyme Immobilization
- 16h20 – 16h40:** (IL-52) **Viorica Parvulescu**, *Institute of Physical Chemistry “Ilie Murgulescu”, Romania*  
Hybrid Materials for Bioelectrodes with Conductive Polymers Containing Fe<sub>2</sub>O<sub>3</sub>-TiO<sub>2</sub> Nanoparticles
- 16h40 – 16h55:** (O-43) **Nguyen Kim Nga**, *Hanoi University of Science and Technology, Vietnam*  
Controlled Synthesis of Hydroxyapatite Nanorods and their Bioactivity for Bone Tissue Engineering
- 16h55 – 17h10:** (O-44) **Wolfgang Tremel**, *Johannes-Gutenberg-Universität, Germany*  
Paints and Coatings Containing Bactericidal V<sub>2</sub>O<sub>5</sub> Nanoparticles Combat Marine Fouling
- 17h10 – 17h25:** (O-45) **Yue-Xia Wang**, *Fudan University, China*  
The Shaping of Au Particle Induced by the Curvature of Supporting CNT
- 17h25 – 17h40:** (O-46) **Anna May-Masnou**, *Universitat de Barcelona, Spain*  
Controlling Internal Hemorrhage with Functionalized Nanoparticles
- 17h40 – 17h55:** (O-47) **Valérie Marvaud**, *Université Pierre et Marie Curie, France*  
Switchable Hetero-tri and Hetero-tetra Metallic Compounds

### Chairman: Hong En Wang

- 17h55 – 18h00:** (F-09) **Ruifeng Li**, *Taiyuan University of Technology, China*  
Electrocatalytic Oxidation of Methanol on Ni Schiff Base Encapsulated in Mesozeolite NaA Modified Glassy Carbon Electrode
- 18h00 – 18h05:** (F-10) **Gleb Veryasov**, *Jožef Stefan Institute, Slovenia*  
Molybdenum Sulphides and Nitrides Synthesized from Molybdenum Coordination Compounds
- 18h05 – 18h10:** (F-11) **Jiu-Peng Zhao**, *Harbin Institute of Technology, China*  
Ordered Macroporous Germanium Electrodeposited from ionic liquid as Negative Electrodes for Lithium Ion
- 18h10 – 18h15:** (F-12) **Jihong Sun**, *Beijing University of Technology, China*  
Transesterification Performance of Waste Oil Catalyzed by Bimodal Mesoporous SiO<sub>2</sub> Supported Phosphotungstic Acid
- 18h30 -19h45:** **Social Activity (Place Saint-Aubain)**
- 20h00 – 22h30:** **Departure for Banquet Gala (Château de Namur)**



## Session S (Auditorium PA02): Materials Synthesis to Advanced Properties

### 16h00 – 18h20 Chairmen: Yongde de Xia and Christian Bonhomme

- 16h00 – 16h20:** (IL-53) **Paula E. Colavita**, *Trinity College Dublin, Ireland*  
Synthesis of Porous Metal/Carbon and Metal Oxide Nanostructured Scaffolds
- 16h20 – 16h40:** (IL-54) **Sara Bals**, *University of Antwerp, Belgium*  
Atomic Resolution Electron Tomography For Nanomaterials: Seeing Atoms in 3 Dimensions
- 16h40 – 16h55:** (O-48) **José L. Hueso**, *University of Zaragoza, Spain*  
Halloysite Nanotubes as Tunable Plasmonic Platforms
- 16h55 – 17h10:** (O-49) **Orlando Trejo**, *Stanford University, USA*  
Interfacial Atomic Arrangement between PbS Quantum Dots and TiO<sub>2</sub>
- 17h10 – 17h25:** (O-50) **Saira Riaz**, *University of the Punjab, Pakistan*  
Magnetic and Magnetization Properties of AAO Template Assisted Growth of Iron Oxide (Fe<sub>3</sub>O<sub>4</sub>) Nanotubes
- 17h25 – 17h40:** (O-51) **Tran Thu Huong**, *Vietnam Academy of Science and Technology, Vietnam*  
Fabrication and Optical Characterization of Multimorphological Nanostructured Materials Containing Eu(III) in Phosphate Matrices
- 17h40 – 17h55:** (O-52) **Isaac J. Sugden**, *University College London, UK*  
Thermal Rearrangement Mechanisms in Icosahedral Carboranes and Metallo-carboranes; a Possible Understanding of the Self Healing in Boron carbide
- Chairman: Li-Hua Chen**
- 17h55 – 18h00:** (F-13) **Jun Li**, *Chinese Academy of Sciences, China*  
Mass Production of Fullerene-like WS<sub>2</sub> Nanoparticles in a Fluidized Bed
- 18h00 – 18h05:** (F-14) **Wolfgang Tremel**, *Johannes-Gutenberg-Universität, Germany*  
Engineered Peptides that can Differentiate between all Crystalline Calcium Carbonate Polymorphs
- 18h05 – 18h10:** (F-15) **Nan Jiang**, *Wuhan University of Technology, China*  
A Stable, Reusable and Active Strategy for Cell Encapsulation: Interfacing An Individual Photosynthetic Cell with Biohybrid Layer
- 18h10 – 18h15:** (F-16) **Dan Li**, *Shantou University, China*  
Metal Azolate Coordination Compounds and Their Functions
- 18h15 – 18h20:** (F-17) **Yvens Chérémond**, *University of Fribourg, Switzerland*  
New Iron(III) Aryloxide Complexes as Ceramic Precursors and Initiators for Ring-Opening Polymerization

**18h30 – 19h45: Social Activity (Place Saint-Aubain)**

**20h00 – 22h30: Departure for Banquet Gala (Chateau de Namur)**

Friday 19<sup>th</sup> July 2013

**Plenary Session (Auditorium PA01)**

**Chairmen: Zhang Di and Katharina Fromm**

- 8h30 – 9h15:** (PL-06) **Marie-Paule Pileni**, *Université Pierre et Marie Curie, France*  
Nano and Supra Crystals: Specific Chemical and Physical Properties
- 9h15 – 9h45:** (KN-14) **Malcolm Halcrow**, *University of Leeds, United Kingdom*  
Structural and Supramolecular Aspects of Spin-Crossover Chemistry
- 9h45 – 10h15:** (KN-15) **Song Gao**, *Peking University, China*  
Molecular Nanomagnets: From SMM, SCM to SIM
- 10h15 – 10h45:** (KN-16) **Mir Wais Hosseini**, *Université de Strasbourg, France*  
Molecular Tectonics: From Metals and Ligands to Complex Co-ordination Networks

**10h45 – 11h00: Coffee Break**

**Chairman: Marie-Paule Pileni**

- 11h00 – 11h30:** (KN-17) **Lee Cronin**, *University of Glasgow, United Kingdom*  
New Formats for the Discovery of Complex Gigantic Inorganic Clusters and Cluster-Based Nanomaterials
- 11h30 – 12h20:** (Nobel Prize Lecture) **Jean-Marie Lehn**, *Université de Strasbourg, France*  
Self-Organization of Functional Metallosupramolecular Nanostructures: Design, Selection, Dynamics

**12h25 – 13h00: Concluding Remarks**

**13h00 – 14h00: Concluding Drinks**

## **Poster Session Timetable:**

### **Session I: P-001 → P-112**

Monday 15<sup>th</sup> July 19h00 – 22h00

Tuesday 16<sup>th</sup> July 12h35 – 13h45 & 19h00 – 20h30

### **Session II: P-113 → P-226**

Wednesday 17<sup>th</sup> July 12h35 – 13h45 & 19h00 – 21h30

Thursday 18<sup>th</sup> July 12h35 – 13h45

- Synthesis, Characterization and Properties of ZnO Nanoparticles Produced from a Zn(II) Coordination Polymer Derived from 5-(3-pyridyl)-1,3,4-Oxadiazole-2-thiol and Benzimidazole **P-001**  
**Maged S. Al-Fakeh**, *Taiz University, Yemen*
- Bundlet* Model of Single-Wall C, BC<sub>2</sub>N and BN Nanotubes, Cones and Horns **P-002**  
**Francisco Torrens**, *Universitat de València, Spain*
- TiO<sub>2</sub> Templated Films used as Photoelectrode for Solid-State DSSC Applications: Study of the Pore Filling by Rutherford Backscattering Spectroscopy **P-003**  
**Jennifer Dewalque**, *University of Liège, Belgium*
- Synthesis and Characterization of Polysaccharide / Polysiloxane Biohybrids and Biocomposites **P-004**  
**Nouria Agoudjil**, *Université des Sciences et de la Technologie Houari Boumediene, Algeria*
- Hexanuclear Complexes of Palladium with Mercaptoethanol **P-005**  
**Dilgam Tagiyev**, *Azerbaijan Medical University, Azerbaijan*
- Numerical Study of Nanoscale AlGa<sub>N</sub>/Ga<sub>N</sub> High-Electron Mobility Transistors Using a Metal Gate Field-Plated Structure **P-006**  
**Mourad Kaddeche**, *Université Mentouri de Constantine, Algeria*
- Resistive Switching of TaN/Cu-SiO<sub>2</sub>/TaN Devices **P-007**  
**Shyankay Jou**, *National Taiwan University of Science and Technology, Taiwan*
- Preyssler Heteropolyanions as New Nanocatalysts **P-008**  
**Ali Gharib**, *Islamic Azad University, Iran*

- The Structure of Self-Assembled Multilayers of Polyoxometalate Nanoclusters **P-009**  
**Ali Gharib**, *Islamic Azad University, Iran*
- Vanadium Based Metal-Organic Frameworks: Synthesis, Flexible Structures and Remarkable CO<sub>2</sub> Uptake **P-010**  
**Ying-Ya Liu**, *Ghent University, Belgium*
- Investigation of Dielectric and Magnetic Properties of Ni Doped La<sub>0.7</sub>Sr<sub>0.3</sub>FeO<sub>3</sub> Nanoparticles Synthesized via Reverse Micelle Technique **P-011**  
**Abdullah A. Saad**, *Aligarh Muslim University, India*
- Synthesis and Characterization of Benzotriazole Incorporated Mesoporous Film: Efficient Anticorrosive Surface Treatment for 2024 Aluminium **P-012**  
**Isaline Recloux**, *University of Mons, Belgium*
- Shape Control and Characterization of ZnO Nanostructures **P-013**  
**Geun-Hyoung Lee**, *Dong-eui University, South Korea*
- A Neutral Trinuclear 1,2,4-Triazole-Bridged Fe<sup>II</sup> Compound with Solvent-Dependent SCO **P-014**  
**Verónica Gómez**, *Institut Català d'Investigació Química, Spain*
- IGZO Nanoparticle Modified Silicon Nanowire as Extended-Gate Field-Effect Transistor pH Sensor **P-015**  
**Bohr-Ran Huang**, *National Taiwan University of Science and Technology, Taiwan*
- Hybrid Nanocomposites of Poly(acrylic acid)-Grafted MWNTs and Palladium Nanoparticles with Cubic Silsesquioxanes **P-016**  
**Kyung-Min Kim**, *Korea National University of Transportation, South Korea*
- Composite Materials "A Binary Salt System Inside A Porous Matrix": Design of the Adsorbents with Predetermined Properties **P-017**  
**Alexandra Grekova**, *Boriskov Institute of Catalysis, Russia*
- Controlling the Morphology and Properties of Cerium Tungstate Nano- and Microstructures Through the Use of Surfactants **P-018**  
**Anna M. Kaczmarek**, *Ghent University, Belgium*
- A Rod Packing Cd<sup>II</sup> MOF Exhibiting Thermodynamic and Kinetic Gas Adsorption **P-019**  
**Mian Li**, *Shantou University, China*
- Solvothermal Subcomponent Self-Assembly of Gyroid Metal-Organic Frameworks **P-020**  
**Xiao-Ping Zhou**, *Shantou University, China*
- Impact of Silica Structure of Copper and Iron-Containing SBA-15 and SBA-16 Materials on Toluene Oxidation **P-021**  
**Ágnes Szegedi**, *Hungarian Academy of Sciences, Hungary*
- Anisotropic Properties of Magnetic Deflagration and Detonation in Crystals of Nanomagnets **P-022**

**Oleksii Jukimenko**, *Umeå University, Sweden*

- Cross-linked Cassava Starch Microspheres: Preparation, Characterization, and Carmine Adsorption **P-023**  
**Zhang-Fa Tong**, *Guangxi University, China*
- Construction of Ceramometals with Hierarchical Pore Structure from MeAl-Containing Powders **P-024**  
**Serguei Tikhov**, *Boreskov Institute of Catalysis, Russia*
- Switching Behavior of Vanadium Oxide Thin Films under Temperature Dependent Phase Transformation **P-025**  
**Yi Hu**, *Tatung University, Taiwan*
- Transformation of the Ethylbenzene-m-Xylene Mixture over MCM-22 Zeolites of Different Acidities **P-026**  
**Magdolna R. Mihályi**, *Institute of Materials and Environmental Chemistry, Hungary*
- A Highly Selective and Sensitive Luminescent Chemosensor for Zn<sup>2+</sup> Ion Based on Cyclometalated Platinum(II) Complexes **P-027**  
**Qing-Xiao Tong**, *Shantou University, China*
- Nano-Structured Manganese Oxides as Water Oxidation Catalysts: A Boost from Precursor Chemistry **P-028**  
**Prashanth W. Menezes**, *Technische Universität Berlin, Germany*
- Microwave Assisted Synthesis of Mesoporous Titania Functionalized with Gold Nanoparticles **P-029**  
**Mieke Meire**, *Ghent University, Belgium*
- Advanced Periodic Mesoporous Organosilicas Functionalized via Different Strategies for Catalytic Applications **P-030**  
**Els De Canck**, *Ghent University, Belgium*
- Nanostructuring of Metals by High Pressure Torsion in Liquid Nitrogen **P-031**  
**Vladimir Popov**, *Institute of Metal Physics, Russia*
- Dual Tuning the Emission Energy of Trinuclear Gold(I) Complexes and Application to White Organic Light-Emitting Devices **P-032**  
**Wen-Xiu Ni**, *Shantou University, China*
- Hydrothermal Syntheses, Crystal Structures and Characterizations of Copper Complexes of Pyridine-2,3-dicarboxylate: From Discrete Cu(II) Monomer to Mixed-Valence Cu(I/II) Coordination Polymer **P-033**  
**Fatih Semerci**, *Eskişehir Osmangazi University, Turkey*
- Quantitative Structure Determination of Large Three-Dimensional Nanoparticle Assemblies **P-034**

**Thomas Altantzis**, *University of Antwerp, Belgium*

- Temperature and Substrates Effects on Structural and Photoluminescence Spectroscopy of Planar  $\text{Y}_2\text{O}_3:\text{Eu}^{3+}$  Nanophosphor Deposited by Sol-Gel Deposition Method **P-035**  
**Lakhdar Guerbous**, *Laser Department/Nuclear Research Center of Algiers-CRNA, Algeria*
- Sol-Gel Synthesis and Spectroscopic Properties of  $\text{Y}_2\text{O}_3:\text{Ln}^{3+}$  ( $\text{Ln}^{3+} = \text{Ce}^{3+}, \text{Pr}^{3+}, \text{Sm}^{3+}$  and  $\text{Eu}^{3+}$ ) Nanometer Scale Phosphors **P-036**  
**Lakhdar Guerbous**, *Laser Department/Nuclear Research Center of Algiers-CRNA, Algeria*
- Olefin Hydrogenation Reaction with New Pd Complex in Ionic Liquid Media **P-037**  
**Hakan Ünver**, *Anadolu University, Turkey*
- One-Step Synthesis of Highly Monodispersed and Thermally Stable PtPd Bimetallic Nanoparticles in Mesocellular Silica Foam **P-038**  
**Jie. Ying**, *Wuhan University of Technology, China*
- Synthesis, Characterization And Catalytic Activity Of Ni Based Heteropolycompounds In Adipic Acid Production **P-039**  
**Tassadit Mazari**, *Université Mouloud Mammeri Tizi Ouzou, Algeria*
- Nanoporous Metal-Organic Framework Based on Chiral  $[\text{Cu}_7\text{I}_4]^{3+}$  Cluster **P-040**  
**Ye-Gao Yin**, *Shantou University, China*
- Mesoporous Tungsten Oxide Supported Pt Catalyst for Hydrogenolysis of Glycerol to 1,3-Propanediol **P-041**  
**Tao Zhang**, *Dalian Institute of Chemical Physics, China*
- Seashells Derived Calcium Hydroxyapatite: Synthesis and Characterization **P-042**  
**Juste Trinkunaite-Felsen**, *Vilnius University, Lithuania*
- Luminescent MOFs as Chemopalette: Tuning the Thermochromic Behavior of Dual Emissive Phosphorescence by Adjusting the Supramolecular Microenvironments **P-043**  
**Shun-Ze Zhan**, *Shantou University, China*
- Preparation and Characterization of Polylactide/Vermiculite Nanohybrides **P-044**  
**Chean-Cheng Su**, *National University of Kaohsiung, Taiwan*
- Exploring the Formation and Properties of Periodic Mesoporous Organosilica Materials with EPR **P-045**  
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