

 OMICS International

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Scientific Program

International Conference and Exhibition on

Materials Chemistry

March 31-April 01, 2016 Valencia, Spain

OMICS International Conferences:

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08:00-09:00 Registrations

Melia Meeting 4 & 5



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09:00-09:25

Opening Ceremony

Keynote Forum

- 09:25-09:30 **Introduction**
- 09:30-09:55 **Title: Photocatalytic Redoxreactions**
Michael W. Tausch, University of Wuppertal, Germany
- 09:55-10:20 **Title: Scalable functional nanocoatings**
Jas Pal Badyal, Durham University, UK

Track 1: Materials Science and Engineering
Track 2: Informatics in Various Fields of Materials

Session Introduction

Session Chair: Urs Meier, Swiss Federal Laboratories for Materials Science and Technology, Switzerland

Session Co-chair: Jijeesh R Nair, Polytechnic University of Turin, Italy

- 10:20-10:40 **Title: Molecular magnetic switches**
Marat M. Khusniyarov, Friedrich-Alexander-University of Erlangen-Nuremberg, Germany
- 10:40-11:00 **Title: The role of polymer electrolyte in constructing an aging resistant high energy lithium battery for wide temperature application**
Jijeesh R Nair, Polytechnic University of Turin, Italy

Group Photo

Coffee Break 11:00-11:15 @ Foyer

- 11:15-11:35 **Title: The prediction of long-term creep data of fibrous polymer composites based on short term experiments**
Urs Meier, Swiss Federal Laboratories for Materials Science and Technology, Switzerland
- 11:35-11:55 **Title: Group III-Nitride semiconductor nanostructures for novel photonic applications**
Yong-Hoon Cho, Korea Advanced Institute of Science and Technology (KAIST), Republic of Korea
- 11:55-12:15 **Title: Polymer derived boron nitride ceramics for energy applications**
Philippe Miele, University of Montpellier, France
- 12:15-12:35 **Title: Teaching from practice to theory**
Mario Pablo Spector, National Technological University, Argentina
- 12:35-12:55 **Title: Novel biological method for iron rust removal**
S.Rajendran, Madurai Kamaraj University, India

Lunch Break 12:55-13:55 @ Restaurant

Young Researchers Forum

- 13:55-14:05 **Title: Towards more efficient upconverting materials based on NaYF₄ nanoparticles: Phase and size controlled synthesis and optical evaluation**
Fabrizio Guzzetta, Universitat Jaume I, Spain
- 14:05-14:15 **Title: High efficiency for photo-polymerizable VCP ester-amide resins: A universal concept providing low volume shrinkage, high reactivity and selectivity**
Paul Pineda, University of Bayreuth, Germany

14:15-14:25 **Title: Non-ionic UCST-type polymers: Synthesis and analysis of new thermoresponsive properties in aqueous media**

Beatriz A Pineda-Contreras, University of Bayreuth, Germany

14:25-14:35 **Title: Expanding the NMR palette: Insights on artificial charge separators**

Brijith Thomas, Leiden Institute of Chemistry, Netherlands

Track 3: Role of Materials Chemistry in Pharmacy

Track 4: Design and Synthesis of Materials

Session Chair: Wlodzimierz Stanczyk, Polish Academy of Sciences, Poland

Session Co-chair: Bruno Bureau, Institut Universitaire de France, France

14:35-14:55 **Title: Synthesis of the first POSS cage - anthracycline nano-conjugates**

Wlodzimierz Stanczyk, Polish Academy of Sciences, Poland

14:55-15:15 **Title: Synthesis of fine-controlled subnano-metal particles using a dendrimer reactor**

Kimihisa Yamamoto, Tokyo Institute of Technology, Japan

15:15-15:35 **Title: Tellurium based glasses for far infrared and thermoelectric applications**

Bruno Bureau, Institut Universitaire de France, France

15:35-15:55 **Title: Game-based materials to teaching and learning the periodic table**

Antonio Joaquín Franco-Mariscal, University of Malaga, Spain

Coffee Break 15:55-16:10 @ Foyer

16:10-16:30 **Title: Fibre structures for energy harvesting in wearables**

Elias Siores, Bolton University, UK

16:30-16:50 **Title: Microstructure evolution at different cooling rates of a low carbon microalloyed steel**

Elena Brandaleze, National Technological University, Argentina

Day 2 April 01, 2016

Melia Meeting 4 & 5

Keynote Forum

09:00-09:25 **Title: Inorganic nanotubes and fullerene-like nanoparticles at the crossroad between materials science and nanotechnology and their applications**

Reshef Tenne, Weizmann Institute, Israel

09:25-09:50 **Title: Novel Functional Polymeric Nanomaterials : Synthesis, Optoelectronic, Selective Dispersion of SWNTs and Photovoltaics Applications**

Der-Jang Liaw, National Taiwan University of Science and Technology, Taiwan

Track 5: Foundational Challenges in Predictive Materials Chemistry

Track 6: Rational Chemical Synthesis on Nanoscale and Nanostructured Materials

Track 7: Polymer Materials and their Technology

Session Chair: Michael W. Tausch, University of Wuppertal, Germany

Session Co-chair: Ruben D. Costa, Friedrich-Alexander-Universität Erlangen-Nürnberg, Germany

Session Introduction

09:50-10:10 **Title: Photoprocesses in science education**

Michael W. Tausch, University of Wuppertal, Germany

10:10-10:30 **Title: Hybrid organic-inorganic materials for thin-film lighting technologies**

Ruben D. Costa, Friedrich-Alexander-Universität Erlangen-Nürnberg, Germany

Coffee Break 10:30-10:45 @ Foyer

10:45-11:05 **Title: Novel polymer-peptide conjugates and polymer-based peptidomimetics**

Marc Devocelle, Royal College of Surgeons in Ireland (RCSI), Ireland

- 11:05-11:25 **Title: Conjugated copolymers and their optimization for ambipolar field effect transistors**
Martin Baumgarten, Max Planck Institute for Polymer Research, Germany
- 11:25-11:45 **Title: Spectroscopic tools to study and interpret macromolecular dynamics at a molecular scale**
Jorge Teno Diaz, Carlos III University of Madrid, Spain
- 11:45-12:05 **Title: Ultrasonic fabrication of microfluidic polymer chips**
Werner Karl Schomburg, RWTH Aachen University, Germany
- 12:05-12:25 **Title: Synthetic polymers from easily available monosaccharides**
M. Gracia García-Martín, University of Seville, Spain

Lunch Break: 12:25-13:25 @ Restaurant

Poster Presentations 13:25 - 14:10 @ Foyer

- PPMC001 **Title: Inclusion complexes of propiconazole nitrate with substituted β -cyclodextrins II: *In vitro* assessment of antifungal properties**
Irina Rosca, Petru Poni Institute of Macromolecular Chemistry, Romania
- PPMC002 **Title: Inclusion complexes of propiconazole nitrate with substituted β -cyclodextrins: Synthesis, characterization and in silico assessment**
Narcisa Laura Marangoci, Petru Poni Institute of Macromolecular Chemistry, Romania
- PPMC003 **Title: Silver nanoclusters doped in mordenite zeolite as photocatalysts toward pesticides**
Imad A Abu-Yousef, American University of Sharjah, UAE
- PPMC004 **Title: Improving PLA properties through the incorporation of electrospun nanofibers based on PVA and cellulose nanowhiskers**
Carol Lopez de Dicastillo, Santiago de Chile University, Chile
- PPMC005 **Title: Antimicrobial supercritical impregnation of nanocomposites for food packaging**
Maria Jose Galotto, Santiago de Chile University, Chile
- PPMC006 **Title: Preparation and characterization of chitosan-co-hyaluronic acid cryogels**
Tugce Kutlusoy, Marmara University, Turkey
- PPMC007 **Title: Synthesis and characterization of high performance polyimide nanofibers and application on lithium-ion batteries**
Emre Aytan, Marmara University, Turkey
- PPMC008 **Title: Molecularly imprinted polymeric nanoparticle: Preparation and characterization**
Merve Yasar, Marmara University, Turkey
- PPMC009 **Title: Novel macroporous poly-pickering-HIPE composites for heterogeneous photocatalysis**
Elif Yüce, Yalova University
- PPMC010 **Title: Poly-pickering-HIPEs as heterogeneous photocatalysts**
Fatma Nur Parin, Yalova University

Track 8 : Applied Materials Chemistry

Track 9 : Current Innovations and Emerging Areas in Materials Chemistry

Track 10 : Research Aspects of Materials Chemistry

Track 11 : Science of Advanced Materials

Session Chair: Yan Huang, Brunel University London Institute of Materials and Manufacturing, UK

Session Co-chair: Yo Tanaka, RIKEN, Japan

- 14:10-14:30 **Title: Solute effect on grain boundary migration in ultrafine/nanostructured materials**
Yan Huang, Brunel University London Institute of Materials and Manufacturing, UK
- 14:30-14:50 **Title: Application of ultra-thin flexible glass sheets to microfluidic devices**
Yo Tanaka, RIKEN, Japan
- 14:50-15:10 **Title: Nanoscale strategies towards development of advanced Mn-based permanent magnets**
Felix Jimenez-Villacorta, Materials Science Institute of Madrid (ICMM-CSIC), Spain
- 15:10-15:30 **Title: Sialon nano-composites matrix reinforced by cubic boron nitride prepared by using spark plasma sintering**
Abbas Saeed Hakeem, King Fahd University of Petroleum & Minerals, Saudi Arabia

15:30-15:50 **Title: Segregation of ions in deliquesced droplets of alkali halide nano-crystals on SiO₂**
Kenta Arima, Osaka University, Japan

15:50-16:10 **Title: Nanomechanics with nanotubes and fullerene-like-WS₂ (MoS₂)**
Reshef Tenne, Weizmann Institute, Israel

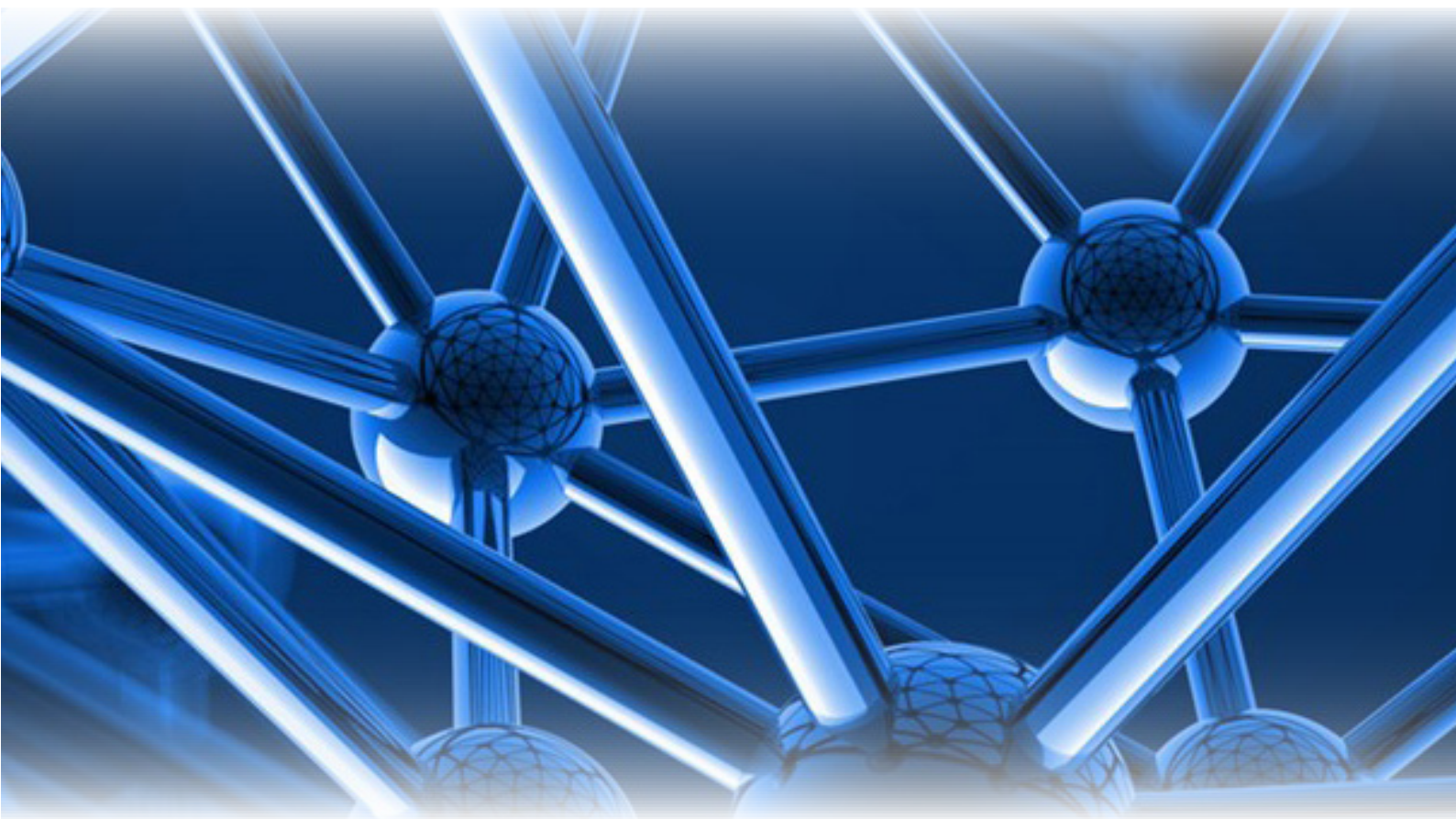
Coffee Break 16:10-16:25 @ Foyer

16:25-16:45 **Video Presentation: One-pot waterborne superhydrophobic pigment coatings at high solids with improved scratch and water resistance**

Agne Swerin, SP Technical Research Institute of Sweden – Chemistry, Sweden

16:45-17:05 **Title: On the peculiar mechanical and tribological behavior of polymer nanocomposites with nanotubes of WS₂ and nanowires of Mo₆S₂I₈**

Johann G Meier, ITAINNOVA Instituto Tecnológico de Aragón, Spain



Bookmark your dates

2nd International Conference and Exhibition on

Materials Chemistry

April 24-26, 2017 Frankfurt, Germany

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