

Joint Event on
12th International Conference and Exhibition on Materials Science and Chemistry
&
30th World Nano Conference
May 20-22, 2019 | Zurich, Switzerland

Scientific Program

Day 1 May 20, 2019

St. Gallen II

08:30-09:00	Registrations
09:00-09:20	Opening Ceremony
09:20-09:30	Introduction
Keynote Session	
09:30-10:05	<p>Title: Nanostructuring of thin films an alternative solution for hard chromium coating replacement</p> <p>Angeline Poulon-Quintin, ICMCB, University of Bordeaux, France</p>
10:05-10:40	<p>Title: Quasi <i>in situ</i> XPS characterization applied to PEALD selective deposition of TiO₂ The IMPACT 300mm project and platform: Merging academic research and industrial applications in microelectronic</p> <p>Bernard Pelissier, CNRS, LTM, MINATEC Campus, France</p>
10:40-11:15	<p>Title: Nanoclay application to geotextiles to improve adsorption function for removal</p> <p>Han-Yong Jeon, Inha University, South Korea</p>
Networking & Refreshments 11:15-11:35 @ Foyer	
11:35-12:10	<p>Title: Atomic scaled surface decoration promises oxygen reduction performance of nanocatalyst</p> <p>Tsan-Yao Chen, National Tsing Hua University, Taiwan</p>
<p>Sessions: Materials Science and Chemistry Materials Science and Engineering Materials Chemistry in Developing Areas Analytical Techniques and Instrumentation in Materials Chemistry Polymeric Materials</p>	
Session Chair: TBC	
Session Co-Chair: TBC	
Session Introduction	
12:10-12:30	<p>Title: Nano-scale membranes based on polystyrene sulfonic acid blends</p> <p>Thieo E Hogen-Esch, University of Southern California, USA</p>
12:30-12:50	<p>Title: From prebiotic chemistry to materials science: Deposition of aminomalonnitrile based films</p> <p>Vincent BALL, University of Strasbourg, France</p>
Group Photo-12:50-13:00	
Lunch Break 13:00-13:50 @ Foyer	
13:50-14:10	<p>Title: Salt-bridge (SB) interaction at work in building extended supramolecular networks: Experimental and theoretical study</p> <p>Saikat Kumar Seth, Jadavpur University, India</p>

14:10-14:30	Title: Piezo response of defects mediated methylammonium lead iodide (MAPbI₃)
	Partha Pratim Ray , Jadavpur University, India
Sessions: Nanoscience and Technology Nano Medicine Nanoparticles Nano Electronics Materials Chemistry Nano Materials Synthesis and Characterisation	
Session Chair: Sidorenko Anatolie, Institute of Electronic Engineering and Nanotechnologies, Moldova	
Session Co-Chair: Myung Chul Chang, Kunsan National University, South Korea	
Session Introduction	
14:30-14:50	Title: Greener and selective synthesis of various aromatic amines by TiO₂ nanocatalyst under light irradiation
	Bonamali Pal , Thapar Institute of Engineering and Technology, India
14:50-15:10	Title: Optimizing the structure of quantum dot intermediate-band solar cells
	Yoshitaka Okada , The University of Tokyo, Japan
15:10-15:30	Title: Two dimensional lateral complicated structure
	Xidong Duan , Hunan University, China
15:30-15:50	Title: Fast low-temperature plasma calcination of ceramic nanofibres
	Mirko Černák , Masaryk University, Czech Republic
Networking & Refreshments 15:50-16:10 @ Foyer	
16:10-16:30	Title: Tuball™ single wall carbon nanotubes: Health, safety & environmental issues
	Van Kerckhove Gunthe , OCSiAl Europe Sarl, Luxembourg
16:30-16:50	Title: NFFA-Europe: Enhancing European competitiveness in nanoscience research and innovation
	Elisabetta Travaglia , Istituto Officina dei Materiali, Italy
Poster Presentations 16:50-17:30 @ Foyer	
Poster-01	Title: Selective adsorption of mercury (Hg²⁺) on a metal-organic framework obtained from aluminium and mercaptosuccinic acid
	Sol M Mejia , Pontificia Universidad Javeriana, Colombia
Poster-02	Title: Photoinitiating efficiency of visible light initiators based on tetraacyl derivatives of germanium and tin
	Urs K. Fischer , Ivoclar Vivadent AG, Liechtenstein
Poster-03	Title: NFFA-Europe: Enhancing European competitiveness in nanoscience research and innovation
	Elisabetta Travaglia , Istituto Officina dei Materiali, Italy
Panel Discussion	
Day 2 May 21, 2019	
St. Gallen II	
09:50-10:00	Introduction
Keynote Session	
10:00-10:35	Title: Physical properties of metal-matrix composite materials
	Jean-Francois Silvain , ICMCB-CNRS, France

10:35-11:10	Title: Preparation and fabrication studies of three dimensionally ordered gyroid network structure of calcium phosphate crystallites for artificial bone materials
	Myung Chul Chang, Kunsan National University, South Korea
Networking & Refreshments 11:10-11:25 @ Foyer	
11:25-11:45	Title: Innovative chemistry and nanotechnology-based surface engineering of hydrophobic tungsten disulfide (WS₂) Inorganic Nanotubes (WS₂-INTs) - Novel nanoscale functional Bio-Active Inorganic "Nanofillers" (f-WS₂-INTs)
	Jean-Paul Lellouche, Bar-Ilan University, Israel
11:45-12:05	Title: Functional S/F nanostructures for superconducting electronics
	Sidorenko Anatolie, Institute of Electronic Engineering and Nanotechnologies, Moldova
Sessions: Nanomaterials Inorganic Materials Chemistry Organic Materials Chemistry Materials Chemistry and Physics Science and Technology of Advanced Materials	
Session Chair: TBC	
Session Co-Chair: TBC	
Session Introduction	
12:05-12:25	Title: Nitrogen fixation at conjugated oxidation by hydrogen peroxide
	Tofik M Nagiev, Nagiev Institute of Catalysis and Inorganic Chemistry, Azerbaijan
12:25-12:45	Title: A novel and facile route for CuMn-MgAl mixed oxides catalysts to catalytic degradation of violet crystal in water
	Alejandro Perez Florez, Pontificia Universidad Javeriana, Colombia
Lunch Break 12:45-13:30 @ Foyer	
13:30-13:50	Title: Observing giant room temperature magnetodielectric response in silica-based oxide nanoglass
	Debasish Biswas, Jadavpur University, India
13:50-14:10	Title: Thermal and thermomechanical properties of graphite flakes and carbon fibres reinforced aluminum matrix composites
	Jean-Francois Silvain, ICMCB-CNRS, France
14:10-14:30	Title: Transformation directed functionality in dynamic metal-organic framework based materials
	Debasish Biswas, Jadavpur University, India
14:30-14:50	Title: X-ray absorption spectroscopy and in-operando neutron diffraction studies on local structure fading induced irreversibility in a 18650 cell with P2-Na₂/3Fe₁/3Mn₂/3O₂ cathode in long cycle test
	Tsan-Yao Chen, National Tsing Hua University, Taiwan
14:50-15:10	Title: Photonic crystal hybrid lasers
	Liam O'Faolain, Tyndall National Institute and Cork Institute of Technology, Ireland
15:10-15:30	Title: Superconducting supercomputer: Challenges and solutions
	Vladimir Krasnov, Stockholm University, Sweden
Networking & Refreshments 15:30-15:45 @ Foyer	
Panel Discussion	
Day 3 May 22, 2019	
Networking Lunch 12:30-13:30 @ Foyer	
Award Ceremony	