



Scientific Program

12th International Conference and Exhibition on

Materials Science and Chemistry

&

30th World Nano Conference

May 20-22, 2019 | Zurich, Switzerland

UK: Conference Series LLC Ltd
47 Churchfield Road, London, W3 6AY
Toll Free: +0-800-014-8923

DAY-1

May 20, 2019

Meeting Hall: **St. Gallen II**

08:30-09:00 Registrations

Opening Ceremony 09:00-09:20

KEYNOTE FORUM

09:20-09:30 Introduction

09:30-10:05 **Title: Nano structuration of thin films an alternative solution for hard chromium coating replacement**
Angeline Poulon-Quintin, ICMCB, University of Bordeaux, France

10:05-10:40 **Title: Quasi *in situ* XPS characterization applied to PEALD selective deposition of TiO₂ the IMPACT 300mm project and platform: Merging academic research and industrial applications in microelectronic**
Bernard Pelissier, CNRS, LTM, MINATEC Campus, France

10:40-11:15 **Title: Nanoclay application to geotextiles to improve adsorption function for removal of heavy metal and toxic components in waste landfill sites**
Han-Yong Jeon, Inha University, South Korea

Networking & Refreshments 11:15-11:35 @ Foyer

11:35-12:10 **Title: Atomic scaled surface decoration promises oxygen reduction performance of nanocatalyst**
Tsan-Yao Chen, National Tsing Hua University, Taiwan

Sessions: Materials Science and Chemistry | Materials Science and Engineering | Materials Chemistry in Developing Areas | Analytical Techniques and Instrumentation in Materials Chemistry | Polymeric Materials

Chair: Debajyoti Ghoshal, Jadavpur University, India

INTRODUCTION

12:10-12:30 **Title: Nano-scale membranes based on polystyrene sulfonic acid blends**
Thieo E Hogen Esch, University of Southern California, USA

12:30-12:50 **Title: From prebiotic chemistry to materials science: Deposition of aminomalononitrile based films**
Vincent Ball, University of Strasbourg, France

GROUP PHOTO 12:50-13:00

Lunch Break 13:00-13:50 @ Foyer

13:50-14:10 **Title: Salt-bridge (SB) interaction at work in building extended supramolecular networks: Experimental and theoretical study**
Saikat Kumar Seth, Jadavpur University, India

14:10-14:30 **Title: Piezo response of defects mediated Methyl Ammonium 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

Chair: Sidorenko Anatolie, Institute of Electronic Engineering and Nanotechnologies, Moldova

Co-Chair: Myung Chul Chang, Kunsan National University, South Korea

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**
Duan Xidong, 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 Gunther, OCSIA Europe Sarl, Luxembourg

16:30-16:50 **Title: NFFA-Europe: Enhancing European competitiveness in nanoscience research and innovation**
Elisabetta Travaglia, Consiglio Nazionale delle Ricerche, 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, Consiglio Nazionale delle Ricerche, Italy

Panel Discussion

DAY-2

May 21, 2019

Meeting Hall: **St. Gallen II**

KEYNOTE FORUM

09:50-10:00 Introduction

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 (WS_2) Inorganic Nanotubes (WS_2 -INTs) - novel nanoscale functional Bio-Active Inorganic "Nanofillers" (f- WS_2 -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

Chair: Jean-Francois Silvain, ICMCB-CNRS, France

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 magneto dielectric response in silica-based oxide nano glass**
Debasish Biswas, Jadavpur University, India

13:50-14:10 **Title: Thermal and thermomechanical properties of graphite flakes and carbon fibers 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**
Debajyoti Ghoshal, 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 $P_2-Na_{2/3}Fe_{1/3}Mn_{2/3}O_2$ 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

15:45-16:05

Title: Physiological correction methods for heart rhythm functional disorders

Sidorenko Ludmila, Nicolae Testemitanu State University of Medicine and Pharmacy, Moldova

PANEL DISCUSSION

DAY-3

May 22, 2019

Meeting Hall: **St. Gallen II**

Networking Lunch 12:30-13:30 @ Foyer

Awards & Closing Ceremony

Bookmark your Dates

13th International Conference and Exhibition on Materials Science and Chemistry

May 25-26, 2020 Rome, Italy

E: materialschemistry@chemistryspeakerexperts.org
Website: materialschemistry.chemistryconferences.org

31st World Nano Conference

May 18-19, 2020 Berlin, Germany

E: nano@nanotechnologyexpert.org
Website: nano.expertconferences.org