

Program for EMN Meeting on Nanoparticles 2016

Monday May 9th

14:00-18:00 **Onsite Registration & Sign up**

**Tuesday May 10th
Room A**

08:30-08:40 **Opening Ceremony**

Session: Keynote talk

08:40-09:15

A01: Plasmonic Structures and Configurations for Strong Light Matter Interactions

Ibrahim Abduihalim
Ben-Gurion University of the Negev, Israel

Session: Nanoparticles in the Environment 1 Chair: Štěpán Stehlík

09:15-09:40

A02: Preparation of 'powder' cellulose nanocrystal (nanowhisker) for filler applications

Toshihiko Arita
Tohoku University, Japan

09:40-10:05

A03: Eco-friendly Synthesis of ZnO Nano-pencils and ZnO-Ag Nano Custard Apples for Efficient Photocatalytic Degradation of Methylene blue in Presence of Sunlight

Kaviya Somasundaram
Indian Institute of Technology Madras (IITM), India

10:05-10:30

A04: Nanomaterials in Soil Environment

Prabhakar Sharma
Nalanda University, India

10:30-10:45

Session Break

Session: Nanoparticles in the Environment 2 Chair: Toshihiko Arita

10:45-11:10

A05: Nanoporous silica aerogel membranes for CO₂ capture

Yi-Feng Lin
Chung Yuan University, Taiwan

11:10-11:35

A06: Environmental Gas Sensors Based on Semiconductor Oxide Nanostructures

Geyu Lu
Jilin University, China

11:35-12:00

A07: Size control of nanodiamonds down to 1 nm

Štěpán Stehlík
Institute of Physics ASCR, Czech Republic

12:00

Lunch Break

Session: Colloidal Nanoparticles1 Chair: Takaaki Tsuruoka		
13:30-13:55	A08: Optical trapping of gold aerosols and optically-induced heating	Liselotte Jauffred University of Copenhagen, Denmark
13:55-14:20	A09: A Route for Phase Control in Metal Nanoparticles: Syntheses and Catalytic Properties	Kohei Kusada Kyoto University, Japan
14:20-14:45	A10: Plant-mediated synthesis of gold and silver nanoparticles: case studies from South Africa	Shakira Shaik University of KwaZulu-Natal, South Africa
14:45-15:10	A11: Synthesis of Hierarchically Metal Nanoparticle/Mesoporous Silica/Metal-Organic Frameworks Nanostructures	Takashi Ohhashi Konan University, Japan
15:10-15:25	Session Break	
Session: Colloidal Nanoparticles2 Chair: Shakira Shaik		
15:25-15:50	A12: Selective Growth of Metal-Organic Frameworks on Metal Nanoparticles for Constructing Hybrid Nanostructures	Takaaki Tsuruoka Konan University, Japan
15:50-16:15	A13: New sulfur hydride H ₃ S and excellent superconductivity under high pressures	Cui Tian Jilin University, China
16:15-16:40	A14: Methods for quantifying cellular uptake of metallic nanoparticles and effects of shear stress on uptake and targeting	Henrik Klingberg University of Copenhagen, Denmark
17:40	Dinner Social	

**Wednesday May 11th
Room A**

Session: Plasmonics for extreme light concentration and manipulation III Chair:

08:30-09:05 Keynote	A15: Extreme Control of Light-Matter Interaction in Nanoplasmonic Cavities: From Single-Molecule Strong Coupling to Stopped-Light Lasing	Ortwin Hess Imperial College London, United Kingdom
09:05-09:30	A16: UV Emission Enhancement of ZnMgO by Quadrupole Plasmons of Ag Nanoparticles.	LIU Ke-Wei Changchun Institute of Optics, Fine Mechanics and Physics (CIOMP), China
09:30-09:55	A17: Laser-nucleus reactions	Guillaume Binard University of Pierre et Marie Curie, France
09:55 -10:10	Session Break	
Session: Nanoparticles in Sensing Chair: Judy Loo		
10:10-10:35	A18: Nanomaterials for dosimetry and magnetic sensing	Grant Williams Victoria University of Wellington, New Zealand
10:35-11:00	A19: Stimuli-responsive metallo-supramolecular polymers	Masayoshi Higuchi National Institute for Materials Science (NIMS), Japan
11:00-11:25	A20: 2D imaging of nanoparticles	Saburo Tanaka Toyohashi University of Technology, Japan
11:25-11:50	A21: Alloy materials for plasmonics nanoparticles	Yoshiaki Nishijima Yokohama National University, Japan
12:05	Lunch Break	

Session: Nanoparticles in Medicine1 Chair: Elena Aznar		
13:30-13:55	A22:Superparamagnetic iron oxide nanoparticles for real-time MRI of intra-arterial, predicted and precise drug and stem cell delivery.	Mirosław Janowski Johns Hopkins University School of Medicine, USA
13:55-14:20	A23: A novel nanoparticle-based formulation for bone regeneration	Horacio Bach Jack Bell Research Centre, Canada
14:20-14:45	A24: Using mixed ZnMgO nanoparticles as a new antibacterial agent with low toxicity towards mammalian cells	Jasmina Vidic INRA-VIM, France
14:45-15:10	A25:The application of nanotechnology to treat bacterial biofilm infections.	Judy Loo The University of Sidney, Australia
15:10-16:00	Poster Session	
Session: Nanoparticles in Medincine2 Chair: Mirosław Janowski		
16:00-16:25	A26:Gated nanoparticles for biomedical applications	Elena Aznar Biomedical Research Networking Center, Spain
16:25-16:50	A27:Design and Processing of Nanoparticles for Fluorescence Bioimging in the Second Biological Window	Kohei SOGA Tokyo University of Science, Tokyo
16:50-17:15	A28:Role of nanotechnology in drug delivery for cancer treatment	Wing Hin Lee The University of Sidney, Australia
17:15-17:40	A29:Chlorin–Polyoxometalate and Chlorin–Gold Nanorod Complexes for Efficient Photosensitization	IL Yoon Inje University, Korea
17:40	Dinner Social	

**Wednesday May 11th
15:10-16:00**

Poster Session

P1	Pressure-induced Structural Changes in NH ₄ Br	Yanping Huang Jilin University, China
P2	New Synthetic Method of single crystal CrN	Xiaokang Feng Jilin University, China
P3	Intravenous Injection of RNA Interference/Polyethylenimine (jetPEI) Nanoparticles Inhibits the Pulmonary Metastasis of B16-F10 Melanoma Cells in Mice	Fernando L. De Lucca University of S ão Paulo, Brazil
P4	Characterization of Fe-Ru bimetallic nanoparticles prepared by liquid phase plasma method	Sang-Chul Jung Sunchon National University, Republic of Korea

Friday May 13th

One day Academic exchange & Excursion