

NANOSUMMIT2024



SYNERGIA SUMMITS
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WORLD SUMMIT AND EXPO ON NANOSCIENCE AND NANOTECHNOLOGY

Venue: **CROWNE PLAZA LYON - CITE INTERNATIONALE HOTEL, LYON, FRANCE**

MAY 20-21, 2024 | LYON, FRANCE



CONTACT INFO

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Conference Day-1
Monday, May 20, 2024
Opening Ceremony

08:45-09:15 Onsite Registrations

Conference Chair: Prof. Jin-Ho Choy, Dankook University, Republic of Korea

Plenary Talks

09:15-09:55 Jin-Ho Choy, Dankook University, Republic of Korea

Title: 2D van der Waals nanohybrids for antiviral therapy

09:55-10:35 Vladimir Torchilin, Northeastern University, USA

Stimuli-Sensitive Pharmaceutical Nanocarriers for Site-Specific Drug Delivery

10:35-11:15 Xuanhui Qu, University of Science and Technology Beijing, China

Title: Sintering Behavior of Nano-size Tungsten Powders

11:15-11:30

Coffee Break

11:30-12:10 Suk-Ho Choi, Kyung Hee University, Republic of Korea

Title: Multi-dimensional novel materials, heterostructures, and device applications

12:10-12:50 Ning Dai, Chinese Academy of Sciences, China

Title: Few-layered MoS₂ based vertical van der Waals homojunction FET photodetectors

12:50-13:30

Lunch and Networking

13:30-14:10 Kwang Leong Choy, Duke Kunshan University, China

Title: Empowering Sustainability: Earth abundant Nanostructured Materials and eco-friendly Process Innovation

Keynote Talks

14:10-14:40 Paul W. Bohn, University of Notre Dame, USA

Title: Massively Parallel Nanopore Electrode Arrays for the Capture, and Electrochemical Manipulation of Single Entities from Molecules to Bacteria

14:40-15:10 Kin Liao, Khalifa University of Science & Technology (KUST), UAE

Title: 3D Lattices from 2D Materials: Mechanical Properties and Performance

15:10-15:40 Tetsuya Yamamoto, Kochi University of Technology, Japan

Title: Manipulating of carrier transport of less-than-10-nm-thick highly transparent conductive oxide films

Invited Talks

15:40-16:05 Hsien-Hung Wei, National Cheng Kung University, Taiwan

Title: Utilizing Semiconductor Quantum Dots to Expedite On-Chip Molecular Sensing

16:05-16:20

Coffee Break

16:20-16:45 Vladimir Muzykantov, University of Pennsylvania, USA

Title: Targeting nanomedicine in the vascular system

16:45-17:05 Robert Tournier, Laboratoire National des Champs Magnétiques Intenses, France

Title: 1st-Order Transitions below and above the Melting Temperature T_m , separated by constant enthalpies of glassy states up to about $3T_m$

17:05-17:25 Luca Monticelli, IBCP, CNRS, France

Title: Modeling bio and nano-materials with the Martini force field

17:25-17:50 Mireille Blanchard Desce, CNRS-University of Bordeaux, Institute of Molecular Science, France

Organic Fluorescent Nanoparticles Made from Polar and Polarizable Dyes: A Versatile Class of Organic Nanoparticles for Bioimaging Purposes

17:50-18:15 Rudeesun Songmuang, Institut Neel - CNRS, France

Title: Toward Flexible Piezoelectric III-Nitride Nanowire-based Nanogenerators

End of Day-1 Conference

Conference Day-2
Tuesday, May 21, 2024
Keynote Talks

- 09:00-09:30** **Li Li**, The University of Queensland, Australia
 Title: Biomimetic Nanocomposites for Precision Targeting in Cancer Treatment
- 09:30-10:00** **Yi Huang**, Bournemouth University, UK
 Title: Applying severe plastic deformation technique to fulfil solid mixing of different bulk metals and to synthesis metal-metal nanocomposites
- 10:00-10:30** **Zhiping Xu**, Shenzhen Bay Laboratory, China
 Title: Tailoring clay nanoparticles for efficient combination cancer therapy
- 10:30-11:00** **Lingxiao Zhang**, Aarhus University, Denmark
 Title: Emerging NanoAlum for Cancer Immunotherapy

11:00-11:15 **Coffee Break**
Invited Talks

- 11:15-11:40** **Michael Whittaker**, Monash University, Australia
 Title: Soft Matter Enabled Nanomedicines
- 11:40-12:05** **Huiyong Deng**, Chinese Academy of Sciences, China
 Title: Fabrication and photoelectric properties of nanostructured Bi₂Te₃ infrared thermoelectric films
- 12:05-12:30** **RANDRIAMAHAZAKA Hyacinthe**, Université Paris Cité, CNRS, PRINTUP Institute, France
 Title: All-printed Flexible Quasi-Solid State Microsupercapacitor
- 12:30-12:55** **Romain Bachelet**, Lyon Institute of Nanotechnology (INL), France
 Title: On-chip thermal energy harvesting with functional oxides

12:55-13:40 **Lunch and Networking**

- 13:40-14:05** **Yonghyun Lee**, Ewha Womans University, South Korea
 Title: Hyaluronic acid-bilirubin Nanomedicine for Biomedical Applications
- 14:05-14:30** **Kevin Alhada-Lahbabi**, Université Claude Bernard Lyon, France
 Title: Machine Learning for Accelerating Ferroelectric Material Numerical Simulations
- 14:30-14:55** **Min-Ho Lee**, Chung-Ang University, Seoul. Korea
 Title: Multiplex biosensors: Electrochemical platform and Microfluidic focusing based platform
- 14:55-15:20** **Hatice Ceylan Koydemir**, Texas A&M University, USA
 Title: Engineering portable devices for point-of-care diagnostics and analysis
- 15:20-15:45** **Jinghao Cui**, Soochow University, China
 Title: Finasteride-Loaded Micelles for Androgenic Alopecia Treatment Using Dissolving Microneedles
- 15:45-16:10** **Coelho Gusmao Rui Jorge**, University of Chemistry and Technology Prague (UCT Prague), Czech Republic
 Title: 2D MPX₃ Synthesis and applications in electrochemical energy reactions

16:10-16:25 **Coffee Break**

- 16:25-16:50** **Yasmine Fatima zohra Assas**, Department of Chemistry - Faculty of Exact and Applied Sciences- University Oran 1 Ahmed Ben Bella
 Title: New Insights in the Use of Boron Nitrogen and Carbon nanotubes as Cisplatin Nanovector
- 16:50-17:15** **Slavica Stankic**, CNRS, Institut des Nanosciences de Paris (INSP), France
 Title: To be Confirmed

NANOSUMMIT2024 | SCIENTIFICPROGRAM

- 17:15-17:40 Ali Belarouci**, CNRS - Lyon Institute of Nanotechnology, France
Title: Hybrid metal-dielectric nanostructures: applications for lasing and sensing
- 17:40-18:05 Baicheng Zhang**, University of Science and Technology Beijing, China
Title: Research progress of continuous graded alloy fabrication by LPBF
- 18:05-18:30 Yongchang Liu**, University of Science and Technology Beijing, China
Title: High-Performance Nanostructured Cathode Materials for Next-Generation Metal-Ion Batteries
- 18:30-18:55 Lin Zhang**, University of Science and Technology Beijing, China
Title: Precipitation B2 phase strengthened ODS alloys

Poster Presentations

- P-001 Assohoun Roméo Fulgence KRAIDY**, University of Picardie Jules Verne, France
Title: Natural Dye Sensitized Solar Cell using Gd₂Ru₂O₇ or Nd₂Ru₂O₇ pyrochlore materials as photoanodes
- P-002 Meriem Moutataouia**, Faculty of Science Ain Chock, Morocco
Title: Investigation on structural, morphological, optical and photocatalytic activity of Co(1-x)Ca_xMoO₄ nano-photocatalyst elaborated via simple co-precipitation method
- P-003 Borowiak Alexis**, Kanazawa University, Japan
Title: Nanoendoscopy-AFM: probing the elastic properties of the nucleus in living cells
- P-004 Tatyana Levchenko**, Northeastern University, USA
Title: Combination of RFA and liposomal GM-CSF can stimulate anti-tumor immunity

End of Day-2 Conference

NANOSUMMIT2024 - Virtual Program

Wednesday, May 22, 2024

Time Zone: London, UK

- 10:00-10:25 Arnaud Caron**, Herbert Gleiter International Institute, Liaoning Academy of Materials, China
Title: Gaining insights into materials from their surfaces
- 10:25-10:50 Yang Liu**, Soochow University, China
Title: Study on The Catalytic and Interfacial Properties of Carbon Dots Photoelectrocatalysts
- 10:50-11:15 Guerino Avallone**, University of Salerno, Italy
Title: Comparative Analysis of Electrochemical Properties of Eco Friendly Nanomaterial-Based Supercapacitors
- 11:15-11:40 Amrita Chatterjee**, BITS-Pilani, India
Title: To be confirmed
- 11:40-12:05 Mayur Patel**, Nirma University, India
Title: To be confirmed
- 12:05-12:30 Neeraj Goel**, Netaji Subhas University of Technology, India
Title: To be confirmed

- 12:30-12:55** Ahmad Ilyas Bin Rushdan, Universiti Teknologi Malaysia, , Malaysia
Title: To be confirmed
- 12:55-13:20** Paulo Cesar de Moraes, University of Brasilia, Brazil
Title: Unveiling antibacterial activity of tin oxide nanoparticles
- 13:20-13:45** Yangzhi Zhu, Terasaki Institute for Biomedical Innovation, USA
Title: Lab-on-a-Contact Lens: A Promising and Intelligent Paradigm for Personalized Healthcare
- 13:45-14:10** Sarma Raktim, Yale University, USA
Title: Integrated photonic encoding systems for ultrafast data processing
- 14:10-14:35** Oscar A. Marcos-Contreras, University of Pennsylvania, USA
Title: Targeted nanomedicine for stroke
- 14:35-15:00** Raman Singh, Monash University, Australia
Title: Circumventing Challenges in Developing CVD Graphene Coating on Mild Steel: A Disruptive Approach to Remarkable/Durable Corrosion Resistance
- 15:00-15:25** Behzad Mehrafruz, Beckman Institute, USA
Title: To be confirmed

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2ND WORLD SUMMIT AND EXPO ON

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