

# Schedule of the Keynote Reports

**Tuesday, 1 August, Conference Hall, 2F**

<b>Time</b>	<b>Topic</b>	<b>Speaker</b>
<b>Session Chair: He Tian</b>		
08:20 – 08:50	Development of a Commercial Inspecting Tool for Detecting nm-size Phase Defects on a Multilayer EUV Mask Blank	Toshihisa Tomie (Japan)
08:50 – 09:20	Towards CMOS/2D Hybrid Microchips	Mario Lanza (Saudi Arabia)
<b>Session Chair: Min Li</b>		
09:20 – 09:50	Low-dimensional Semiconductor Materials for Stretchable Electronics and Tactile Sensing	Caofeng Pan
09:50 – 10:20	The Importance of Nano-scale Omics in Attaining the UN Sustainable Development Goals	Michael James Cardwell Crabbe (UK)
<b>Session Chair: Lei Liu</b>		
10:40 – 11:10	Controlled Materials Engineering via Microfluidic Technologies	Josep Puigmartí Luis (Spain)
11:10 – 11:40	Phospholipid Assembly Based Artificial Cells	Xiaojun Han
<b>Session Chair: Qiwu Shi</b>		
11:40 – 12:10	Single-molecule Electrical Characterization on a Controllable-break-junction Chip Through Electrostatic Microactuators	Junyang Liu

12:10 – 12:40	Funding Opportunities for Individual Researchers under Horizon Europe	Anna Facchinetti (Italy)
---------------	---	-----------------------------

**Tuesday, 1 August 2023, Conference Hall, 2F**

<b>Time</b>	<b>Topic</b>	<b>Speaker</b>
<b>Session Chair: Shuai Zhang</b>		
14:00 – 14:30	Highly Functional Magnetic Miniature Robots	Guo Zhan Lum (Singapore)
14:30 – 15:00	Nano-Micro Materials Science and Engineering for Optofluidics	Zhiming Wang
<b>Session Chair: Yufeng Zhou</b>		
15:00 – 15:30	Development of Lubricated Biomaterials for Various Biomedical Applications	Hongyu Zhang
15:30 – 16:00	Characterisation of Hydrogen in Nanoporous Hydrogen Storage Materials via Neutron Scattering	Valeska Ting (UK)
<b>Session Chair: Adam Willis Perriman</b>		
16:20 – 16:40	Super-resolution Scanning ion conductive microscopy for Quantitative measurements	Mingdong Dong
16:40 – 17:00	Publishing in Wiley Material Science & Physics Journals - How to Maximize Your Success	Huan Wang

17:00 – 17:30	Dynamic Structural Biology Driven by High-Speed Atomic Force Microscopy	Takayuki Uchihashi (Japan)
<b>Session Chair: Deyang Ji</b>		
17:30 – 18:00	High-Frequency Nanoelectromechanical Interactions Between Sound and Matter: A New Method for the Synthesis, Processing and Manipulation of Two-Dimensional and Bulk Crystals	Leslie Yeo (Australia)

**Thursday, 3 August 2023, Conference Hall, 2F**

<b>Time</b>	<b>Topic</b>	<b>Speaker</b>
<b>Session Chair: Yuda Zhao</b>		
14:00 – 14:30	Micro-/NanoRobotic Systems: Physical Integration and Applications	Lixin Dong
14:30 – 15:00	Surface Nano-Structuring of Semiconductors by Nanosecond Pulsed Laser Interference	Mark Hopkinson (UK)
<b>Session Chair: Chongjian Zhou</b>		
15:00 – 15:30	Quantum Regimes of Coherent X-ray Generation with Strongly Correlated Electron Dynamics and Attosecond Rabi Oscillations for Advanced Nanoimaging	Chanmin Su

15:30 – 16:00	Quantum Regimes of Coherent X-ray Generation with Strongly Correlated Electron Dynamics and Attosecond Rabi Oscillations for Advanced Nanoimaging	Tenio Popmintchev (USA)
<b>Session Chair: Zegao Wang</b>		
16:20 – 16:50	Engineered Living and Dead Materials: From 3D Printable Enzyme Plastics to Living Bacterial Microreactors	Adam Willis Perriman
16:50 – 17:20	Polarization-Sensitive Photodetector and Image Sensor Based on 2D Materials	Zhongming Wei
<b>Session Chair: Mingdong Dong</b>		
17:20 – 17:50	Multifunctional Materials for Emerging Technologies	Federico Rosei (Canada)
17:50 – 18:20	COVID-19 Vaccines Induce Protective Immunity Against Omicron Variant	Yuquan Wei