

Symposia – F01
Micro-nano Materials and Devices

October 15 (Sunday), 2023

Conference Room: 7th hall, room 3

9:00-10:45 Session I

Chair: Kai Zhang

9:00-9:30 (F01-01)

Phase Engineering of Nanomaterials (PEN)
(Keynote)

Hua Zhang, City University of Hong Kong, China

9:30-9:55 (F01-02)

Some Cutting-edge Applications of Fast Electron Nano-Spectroscopy Technology (Invited)

Peng Gao, Peking University, China

9:55-10:20 (F01-03)

Controlled Preparation of Wafer-Scale Two-Dimensional Material Heterostructures (Invited)

Libo Gao, Nanjing University, China

10:20-10:45 (F01-04)

Atomically Sharp Interface of van der Waals Heterostructures Enabled High-Performance Electronic Devices (Invited)

Institute of Physics, Chinese Academy of Sciences, China

10:45-11:00 Coffee Break

11:00-11:50 Session II

Chair: Peng Gao

11:00-11:25 (F01-05)

Tuning Degree of Disorder in Amorphous Monolayer Carbon (Invited)

Lei Liu, Peking University, China

11:25-11:50 (F01-06)

Narrow-Gap 2D Semiconductors for Infrared and Terahertz Optoelectronics (Invited)

Kai Zhang, Suzhou Institute of Nano-Tech and Nano-Bionics (SINANO), Chinese Academy of Science, China

12:00-14:00 Lunch

14:00-15:30 Session III

Chair: Lei Liu

14:00-14:25 (F01-07)

Interface Engineering of 2D Materials for High-Temperature Intelligent Devices (Invited)

Kai Liu, Tsinghua University, China

14:25-14:50 (F01-08)

Low-Temperature Growth and Optoelectronic Properties of 2D Semiconductors (Invited)

Lijie Zhang, Wenzhou University, China

14:50-15:15 (F01-09)

Unlocking the Potential of Ionic Minerals: Large-Scale Production and Advanced Applications of Memristor Devices (Invited)

Rongjie Zhang, Tsinghua Shenzhen International Graduate School, China

15:15-15:30 (F01-10)

Directional Migration and Rapid Coalescence of Au Nanoparticles on Anisotropic ReS₂ (Invited)

Yadi Cao, The University of Science and Technology Beijing, China

15:30-15:50 Coffee break

15:50-16:20 Session IV

Chair: Kai Liu

15:50-16:05 (F01-11)

Self-Supported Twined PtNi Nanosheets for Efficient Hydrogen Evolution Reaction (Invited)

Xueai Teng, University of Science and Technology Beijing, China

16:05-16:20 (F01-12)

Controllable Preparation of Degradable Polymer Nanofiber Membranes and Their Applications in Health Protection

Jiangchuan Liu, Nanjing Tech University, China

16:20-16:35 (F01-13)

布鲁克光谱在红外光电材料与器件表征方面的应用

雷浩东, 布鲁克(北京)科技有限公司

17:30 Dinner