The 24th InterAcademy Workshop

Multiscale Light-Matter Interaction for Sustainable Materials



May 26 ~ 28, 2026
Lund University, Lund, Sweden

BASIC SCIENCE NETWORKING CENTER

KAST 한국과학기술한림원
The Korean Academy of Science and Technology

KNTEC

The Embassy of the Republic of Korea in Sweden

LUND UNIVERSITY | Light and materials

The 24th InterAcademy Workshop

Multiscale Light-Matter Interaction for Sustainable Materials

Venue The Pufendorf Institute, Lund University

May 26 (Tue)	
Opening I Chair: **Nam-Gyu Park / Sungkyunkwan University**	
14:40-15:00	Congratulatory remarks (Group photo) **H. E. Hyung Jong Lee / Ambassador of the Republic of Korea in the Kingdom of Sweden** **Ji-Beom Yoo / President of Sungkyunkwan University** **Kristina Eneroth / Pro Vice-Chancellor of Lund University**
15:00-15:40	The world of atoms at the attosecond time scale **Anne L'Huillier / Lund University (Nobel Prize in Physics 2023)** *※ This lecture will take the form of a Swedish fika.*
18:00-20:00	**Welcoming Dinner (Venue: Mat & Destillat)**

Venue The View, Faculty of Medicine, Lund University

May 27 (Wed)	
Opening II Chair: **Ki Tae Nam / Seoul National University**	
09:30-09:40	Opening remarks **Nam-Gyu Park / Distinguished University Professor of Sungkyunkwan University** Congratulatory remarks **H. E. Hyung Jong Lee / Ambassador of the Republic of Korea to the Kingdom of Sweden** **Ji-Beom Yoo / President of Sungkyunkwan University**
09:40-09:45	Group photo

Session I	Chair: **Sohee Jeong / Sungkyunkwan University**
09:45-10:15	Ultrafast Spectroscopy and Strong Light-Matter Interaction **Tönu Pullerits / Lund University**
10:15-10:45	Pepride Encoded Chiral Inorganic Nanomaterials **Ki Tae Nam / Seoul National University**
10:45-11:15	Nanoscale Chirality and Biomimetic Complexity **Nicholas Kotov / University of Michigan**
11:15-11:30	**Coffee Break**
11:30-12:00	Development of High-Performance P-type Semiconductors **Yong-Young Noh / POSTECH**
12:00-12:30	On Sensitive Optical Detection of Nanoparticles **Vahid Sandoghdar / Max Planck Institute**
12:30-13:30	**Lunch (Venue: The View)**
Session II	Chair: **Ki Tae Nam / Seoul National University**
13:30-14:00	Steering CO_2 Electroreduction Pathways via Dynamic Catalyst Reconstruction **Dae-Hyun Nam / Korea University**
14:00-14:30	Chirality and Electron Spin: Driving Efficiency in Chemistry **Ron Naaman / Weizmann Institute of Science**
14:30-15:00	Beyond Silicon: Why Perovskite? **Nam-Gyu Park / Sungkyunkwan University**
15:00-15:30	Centro-Symmetry Breaking in FAPbI3 (Formamidinium Lead Tri-iodide) Films for Highly Efficient Perovskite Solar Cells **Hyunjung Shin / Sungkyunkwan University**
15:30-15:50	**Coffee Break**
15:50-16:20	Disorder-mediated Non-equilibrium Photocurrent Redistribution in Organic-Inorganic Heterostructured Photoabsorbers **Sae Byeok Jo / Sungkyunkwan University**
16:20-16:50	The Promise of Programmable Optical Metasurfaces **Laura Na Liu / University of Stuttgart**
16:50-17:20	Supramolecular Functionalization Strategy for High Performance Secondary Batteries **Pil Jin Yoo / Sungkyunkwan University**
18:00-20:00	**Dinner (Venue: M.E.A.T.)**

Venue **The View, Faculty of Medicine, Lund University**

May 28 (Thu)	
Session III	Chair: **Pil Jin Yoo / Sungkyunkwan University**
10:00-10:30	Photonic Time Crystals and the Dawn of Timetronics **Nikolay Zheludev / University of Southampton**
10:30-11:00	Linking Structure to Electronic Function in Quantum Dot Solids **Sohee Jeong / Sungkyunkwan University**
11:00-11:30	Towards Sustainable Perovskite Photovoltaics **Feng Gao / Linköping University**
11:30-12:00	Toward Sustainable Perovskite Solar Cells: Advancements in Recycling, Green Processing, and Commercial Viability **Hyun Suk Jung / Sungkyunkwan Univeristy**
Closing	
12:00-12:10	Closing **Ki Tae Nam / Seoul National Univeristy**
12:10-13:30	**Lunch (Venue: The View)**