

3rd Energy LEDARE Workshop

Date : 20 - 21 May 2024

Venue : World Trading Center Stockholm, Casablanca



* Abstract book is available in the link above

May 20 (Day 1, Monday)

11:00-11:20

Registration

11:20-11:30

Opening Remark (KNTEC and Nam-Gyu Park)

11:30-13:00

Lunch

Session I (13:00-15:00) *Presider: Hyunjung Shin*

13:00-13:30

Tönu Pullerits

Ultrafast Excited State Dynamics in Metal Halide Perovskite Films and Nanostructures

13:30-14:00

Ki Tae Nam

Chirality in Plasmonic Gold Nanoparticle

14:00-14:30

Xiaodong Zou

High-throughput electron diffraction techniques accelerate the development of nanoporous materials

14:30-15:00

Pil J. Yoo

Advancing Post-Secondary Batteries under Lean Electrolyte Conditions through Interfacial Modification Strategies

15:00-15:30

Coffee Break

Session II (16:00-17:30) *Presider: Thomas Edvinsson*

15:30-16:00

Anders Hagfeldt

The dual use of SAM molecules for efficient and stable perovskite solar cells

16:00-16:30

Nam-Gyu Park

On the P-I-N Perovskite Solar Cells

16:30-17:00

William Jo

Optoelectronic properties of halide perovskite crystals and thin-films

17:00-17:30

Marianna Kemell

Atomic layer deposition of binary iodides and other heavier halides as a route to halide perovskites

18:00-21:00

Dinner

May 21 (Day 2, Tuesday)

Session III (10:00-11:30) *Presider: Ki Tae Nam*

- 10:00-10:30 **Erik Garnet**
Perovskite plasticity for improved solar cell performance and understanding
- 10:30-11:00 **JooHo Moon**
Chirality-Induced Spin Selectivity Enabling High-Performance Photoelectrochemical Water Splitting
- 11:00-11:30 **Lars Kloo**
Lab robotization as a tool for the discovery of new light-harvesting materials

11:30-13:00 Lunch

Session IV (13:00-15:00) *Presider: William Jo*

- 13:00-13:30 **Eva Olsson**
Advanced and *in situ* electron microscopy of nanostructured materials for energy applications
- 13:30-14:00 **Hyun Suk Jung**
Sustainable Materials and Process for Ecofriendly Perovskite Solar Cells
- 14:00-14:30 **Jin Young Kim**
Perovskite-based tandems: Perovskite/Si 2J and beyond
- 14:30-15:00 **Feng Gao**
Towards Sustainable Perovskite Photovoltaics

15:00-15:30 Coffee Break

Session V (15:30-17:00) *Presider: Marianna Kemell*

- 15:30-16:00 **Thomas Edvinsson**
Pathway to utilize IR photons for efficient solar fuel generation
- 16:00-16:30 **Min Jae Ko**
High Performance Electron Charge Transport Layers for the Flexible Perovskite Solar Cells
- 16:30-17:00 **Hyunjung Shin**
Breaking Centro-Symmetry in Formamidinium Lead Triiodide (FAPbI₃)

17:00-17:10 Concluding Remark (Ji-beom Yoo, President of SKKU)

18:00-21:00 Dinner
