

Sophia Symposium 2025

Technological Progeress in Perovskite solar cells

October 24, 2025

Venue : Building No.2, 17th Floor, International Conference Hall

Opening remarks

13:00 - 13:05 Prof. Yuko Takeoka

13:05 - 13:10 Prof. Masayuki Akahori

(Vice President for Academic Research Affairs)

Plenary session 1 (Chair: Yasuhiro Shirai)

13:10 - 13:55 Prof. Atsushi Wakamiya (Kyoto University)

Interface Chemistry of High-Performance Perovskite Solar Cells

13:55 - 14:40 Prof. Reinhold H. Dauskardt (Stanford University)

*Pioneering Affordable Solar: Open-Air Perovskite Manufacturing
Slashes Module Costs and Challenges Silicon Dominance*

14:40 - 14:50 rest

Plenary session 2 (Chair: Kazuhiro Ema)

14:50 - 15:35 Dr. Martin Ledinsky (The Czech Academy of Sciences)

Universal Formation Mechanism of Halide Perovskite Thin Films

15:35 - 16:15 Prof. Yuko Takeoka (Sophia University)

*Control of Low-Dimensional Perovskite Structure for Optical
Application*

16:15 - 16:25 rest

Plenary session 3 (Co-chair: Naoki Shimosako, Hideyuki Kunugida)

16:25 - 17:10 Prof. Yasuhiro Tachibana (RMIT University)

*Charge Carrier Dynamics of Metal Halide Perovskite in Correlation
with Solar Cell Performance*

17:10 - 17:55 Prof. Shuzi Hayase (The University of Electro-Communications)

*Tin-based Perovskite Solar Cells and Application to All-perovskite
Tandem Solar Cells*

-Efficiency Enhancement and Stability Improvement-

18:00 - 19:30 Banquet (Faculty Club, 17th floor, Building #6)

October 25, 2025

Venue : Building No.2, 17th Floor, International Conference Hall

Plenary session 4 (Chair: Masatoshi Yanagida)

9:00 - 9:45 Dr. Takurou Murakami (AIST)

*Research and Development towards the Commercialization of
Perovskite Solar Cells at AIST*

9:45 - 10:30 Prof. Hiroyuki Hasegawa (Shimane University)

*Exploring Fundamental Electronic Properties of Hybrid Perovskites:
Following the Legacy of Prof. Tamotsu Inabe*

10:30 - 10:40 rest

Plenary session 5 (Chair: Yuko Takeoka)

10:40 - 11:25 Dr.Hisashi Uzu (Kaneka Corporation)

*Development of Perovskite/Si Tandem Solar Cells and its Application
to BIPV and VIPV Modules*

11:25 - 11:30 Closing remarks

Prof.Yuko Takeoka



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