
WORKSHOP

Industrialization of Perovskite Thin Film Photovoltaic Technology



Virtual via Zoom

Wednesday, 14 December 2022

from 13:00 to 16:30 CET

SWISS*PHOTONICS

TOPIC

More than a decade of organic-inorganic perovskite solar cell research and development has propelled this thin film technology out of the research laboratories into real world. Several companies worldwide are taking up the challenge of scale-up in a multitude of ways and have already reached the 100 MWp/year production capacity.

One strategy consists of single junction perovskite architectures rivaling with established photovoltaic technologies. Another one aims at flexible customizable solar panels with single- or tandem junction cell structures entering more specialize markets with only few competitors. Yet a third approach consists of «marrying» established technologies in a joint tandem architecture. This workshop brings together the foremost actors in this fascinating industrial development.

With this workshop we intend to update and inform about the progresses made and challenges faced by companies pushing forward industrialization of perovskite solar cells. Targeted are scientists and engineers in the field of solar cells as well as industrialists and investors being interested in this vibrant field.

TARGET AUDIENCE

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POSTER

3 minute poster pitches are welcome during the coffee break. You will have the opportunity to share two slides during the presentation. Please send your poster abstract to the conference office.

REGISTRATION

The event is free of charge.

Please register:

www.empa-akademie.ch/perovskite22

Deadline: 12 December 2022

PROGRAM COMMITTEE

Prof. Frank A. Nüesch
Prof. Ayodhya Tiwari
Empa
Prof. Christophe Ballif
Prof. Michael Grätzel
Prof. Anders Hagfeldt
Prof. Md. K. Nazeeruddin
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PROGRAM

- 13:00 Opening**
Prof. F. Nüesch, Empa, Dübendorf (CH)
- 13:15 New phase of perovskite mass production Microquanta's 100 MW line and its progress**
Dr. B. Yan, Microquanta Semiconductor, Hangzhou (CN)
- 13:30 Printable mesoscopic perovskite solar cells**
Prof. H. Han, Huazhong University of Science and Technology (HUST), Wuhan (CN)
- 13:45 Recent progress of GCL's 100 MW PVSK pilot line**
Prof. B. Fan, GCL Nano Technology, Suzhou (CN)
- 14:00 Solutions and steps towards industrialisation of perovskite photovoltaic technology**
Dr. C. Zheng, UtmoLight Technology, Wuxi (CN)
- 14:15 Coffee break – Poster session**
- 14:45 Update on the commercial progress of perovskite PV for IoT applications**
Dr. D. Forgács, Saule Technologies, Warsaw (PL)
- 15:00 Stable and efficient architectures for perovskite solar modules and tandems**
Dr. T. Aernouts, R&D manager Thin-Film PV, imec, partner in EnergyVille & Solliance, Eindhoven (NL)
- 15:15 Perovskite solar cells for low light applications**
A. Verma, PEROVSKIA SA, Aubonne (CH)
- 15:30 Will perovskite PV be sustainable? Technology and economic considerations**
Dr. C. Case, Oxford PV, Oxford (UK)
- 15:45 Swift Solar: From research to manufacturing to product integration**
Dr. R. Prassana, Swift Solar, Colorado (USA)
- 16:00 Towards a perovskite tandem PV future**
Dr. Adam Lorenz, CubicPV, Massachusetts (USA)
- 16:15 Short conclusions**
Prof. F. Nüesch, Empa, Dübendorf (CH)

