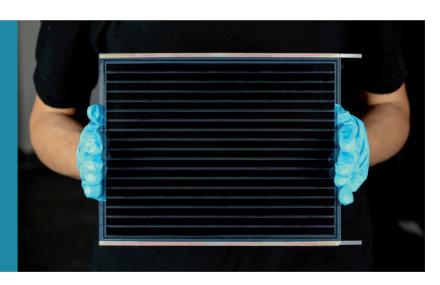


## WORKSHOP

# Industrialization of Perovskite Thin Film Photovoltaic Technology



Virtual via Zoom
Wednesday, 14 December 2022
from 13:00 to 16:30 CET







#### 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**

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 raising field.

#### **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

**Prof. Dr. Beat Ruhstaller** ZHAW

Dr. Roman Rudel

## CONFERENCE OFFICE

Prof. Frank A. Nüesch frank.nueesch@empa.ch +41 58 765 4740 Dr. Fan Fu fan.fu@empa.ch +41 58 765 4777

#### **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
  - 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)
- 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)