

Session Program

13-17 Sept 2021

**EUROPEAN CONGRESS AND EXHIBITION ON
ADVANCED MATERIALS AND PROCESSES -
EUROMAT 2021**

***E5_New concepts, materials and technologies
for photovoltaic devices***

Virtual

Wednesday 15 September

17:30

E5 New concepts, materials and technologies for photovoltaic devices: E5_1 Modern technologies in PV modules

Session | **Location:** Room 13

17:30–17:50

Self-cleaning, PV panels on the flexible subgrade integrated with the acoustic screen

Speaker

Dr Kazimierz Drabczyk

17:50–18:10

Photocatalytic coatings based on TiOx for application on elastic PV panels

Speaker

Dr Damian Wojcieszak

18:10–18:30

Surface modification of solar glass as a method of passive soiling mitigation

Speaker

Mr Javier Núñez

18:30–18:50

Environmentally friendly electrodes and electrolytes for aqueous photovoltaics

Speaker

Federico Bella

18:50

Thursday 16 September

09:50

E5 New concepts, materials and technologies for photovoltaic devices: E5_2 Novel approaches in thin film photovoltaic structures

Session | Location: Room 13

09:50–10:10

Towards defect engineering in earth-abundant semiconductors for photovoltaic thin film applications

Speaker

Dr Mirjana Dimitrievska

10:10–10:30

Development of earth-abundant chalcogenide perovskites for photovoltaic applications

Speaker

Dr Mirjana Dimitrievska

10:30–10:50

Highly conductive and transparent Mo-doped ITO thin films for energy applications

Speaker

Dr Melanie Micali

10:50–11:10

Surfactant-free miniemulsion approach for low band-gap rod-coil block copolymer:fullerene blend water-processable nanoparticles as active layer for organic photovoltaics

Speaker

Dr Stefania Zappia

11:10–11:30

Scalable additive fabrication of electron transport layers for perovskite solar cells

Speaker

Ms Dongli Lu

11:30

11:50

E5 New concepts, materials and technologies for photovoltaic devices: E5_3 Advanced methods of obtaining progressive photovoltaic structures

Session | Location: Room 13

11:50–12:10

High-throughput extraction of singlet fission chromophores for photovoltaics applications

Speaker

Dr Julia Romnaova

12:10–12:30

Colloidal Quantum Dots as Band-Gap-Tunable Materials for Thermophotovoltaics

13:10

Speaker Iñigo Ramiro	
12:30–12:50	Top-down fabricated GaAs nanowire solar cell
Speaker Ilya Kolpakov	
12:50–13:10	Advanced chemical etching for high-performance silicon solar cells
Speaker Dr David Pera	