

Thursday, 29.02.2024

Fundamental photophysics

Presentations 1

10:30 24 min	Many-body interactions in two-dimensional halide perovskites: exciton-electron complexes & electron-phonon coupling
11:00 12 min	Coherent exciton dynamics in lead-free double perovskites
11:15 24 min	Understanding and suppressing interfacial charge recombination for high performance perovskite solar cells (SURPRISE II)
11:45 12 min	Spin dynamics of excitons, carriers and nuclei in metal halide perovskite nanostructures
12:00 18 min	Spatially resolved studies on addressable defects in hybrid organic-inorganic perovskite micro-crystals prepared in the gas phase

Crystals & film formation

Presentations 2

14:00 18 min	Electroluminescent perovskite nanocrystals – From tailor-made assemblies to optoelectronic properties
14:25 12 min	Dielectric effects in hybrid perovskites and charge selective trap states
14:40 12 min	Control over grain size and crystallinity: Role of trap states in perovskites II (Perocryst)
14:55 12 min	Coupled exp. & theo. Investigation of the process parameters controlling the perovskite structure formation: towards thick defect-free layers
15:10 12 min	Control of exciton recombination and transfer with tailored material design

Friday, 01.03.2024

Defects

Presentations 3

Mixed Compositions

Stacks & Interfaces

Presentations 4

09:00 12 min	Correlating defect densities with recombination losses in halide-perovskite solar cells (CRE-ATIVE)
9:15 12 min	Improving intrinsic stability of perovskite solar cells by additives
9:30 12 min	Defect Spectroscopy and Device Characterization (Projekt PERFECT)
9:45 12 min	Understanding the evolution on structure, ion migration and defect properties during (de)mixing of lead-halide perovskites (DE-MIX)
10:00 12 min	Hybrid multi-junction solar cells based on a monolithic integration of a wide-bandgap organo-metal-halide perovskite and low-bandgap organic polymer sub-cells (MUJUPO2)
10:15 12:min	Two-dimensional perovskites – from fundamental understanding to their application at interfaces in perovskite solar cells
11:00 24 min	Highly efficient all-perovskite tandem solar cells with reduced recombination losses and improved stability by innovative characterization (HIPSTER-PRO)
11:30 18 min	Interfaces in all-perovskite tandem solar cells
11:55 18 min	Perovskite solar cells with graphite electrodes: advanced interfaces for highest performance and stability (PeroGAIN)