HI-SCORE

Schedule of the HI-SCORE All-Hands-Meeting November 21-23, 2022

November 21st		
Time	**Name**	**Title**
09:00 Berlin time	Organizers	Welcome (incl. mentioning of all graduates – Patrick, Hannah, Johannes, Hampus, Adi, Yoni, Anat plus whereabouts)
Session 1		
Chair	**Iris Visoly-Fisher**	
09:10	Gopinath Paramasivan	Semitransparent Perovskite Modules: Challenges
09:25	Stav Rahmany	Two-dimensional or passivation treatment: the effect of hexylammonium post-deposition treatment on 3D halide perovskite-based solar cells
09:40	Max Grischek	Understanding the Voltage Loss in Inorganic CsPbI2Br Solar Cells
09:55	Jitendra Kumar	Benign solution-processed Sb2Se3 and Bi-alloyed Sb2Se3 solar cells for the short-wavelength infrared region solar cells
10:10	Yaniv Dror	(BixSb1−x)2Se3 Thin Films for Short Wavelength Infrared Region Solar Cells
10:25	Anchal Vashishta	Surface Potential Variation Across(hk1) and non-(hk1) Grain Boundaries of Antimony Triselenide
10:40-11:00 Coffee Break		
Session 2		
Chair	**Roel Van de Krol**	
11:00	Fatima Akhundova	Combinatorial investigation of optoelectronic properties of CsSnI3
11:15	Manuel Vasquez	Stabilization of Layered halide perovskites in aqueous solutions
11:30	Tal Binyamin	Controlled assembly of perovskite nanoparticles by photo-switchable functional ligands
11:45	Dan Wargulski	First results from TEM analyses on halide-perovskite-type nanocrystals

12:00	Ana Palacios	Does the solvent matter? - Influence of the Solvent in Hybrid Halide Perovskites Precursor Solution
12:15	Maxim Simmonds	Study of mixed halide Perovskite Microplatelets
12:30 – 13:30 Lunch Break		
13:30 - 14:30	**Meet the experts**	
	END of 1st day	

Meet the experts (2 or 3 breakout rooms)

#	**Subject**	**Expert**
1	Perovskite and solar water splitting: what can we learn from each other?	Roel van de Krol
2	Optoelectronic characterization of energy materials and devices (QFLS, PLQY, …)	Thomas Unold
3	Electrical characterization of energy materials and devices (j-V, interfaces, …)	Martin Stolterfoht
4	What I always wanted to know about crystal structures of energy materials, but I never dared to ask	Susan Schorr Joachim Breternitz

November 22nd		
Session 3		
Chair	**Daniel Abou-Ras**	
09:30	Ahmed Saleh	Investigating the electronic and chemical structure of 2D/3D halide perovskite interfaces
09:45	Yahel Soffer	Strong Linear Photoluminescence Modulation by an External Electric Field in Epitaxial Halide Perovskite Nanowires
10:00	Ekaterina Shabratova	Investigating fine electronic structure in transition metal-doped Carbon Nitride by Electron Paramagnetic Resonance technique
10:15-10:45 Coffee Break		

Session 4		
Chair	**David Cahen**	
10:45	Kumaraswamy Miriyala	Effect of doping on mobile charge carrier photogeneration yield spectrum of ultrathin film iron-based metal-oxide photoelectrodes
11:00	Erwin Fernandez	Alternate-target Layer-by-Layer Pulsed Laser Deposition of Epitaxial BiVO4 Thin Films
11:15	Radu Bors	Optimizing Photoelectrochemical Water Splitting Devices Using Simulations
11:30		Final discussion
12:00 – 13:30 Lunch Break		
13:30 -	**Student Retreat**	
	END of 2nd day	

November 23rd		
09:00	Organizers	Overview and Introduction of objective of Workshop, Gregor Hartmann
09:10-10:00	Gregor Hartmann	Workshop: What can Machine Learning do for me and my scientific Data
10:00-12:00	all	Presentation of datasets and scientific questions for machine learning
NOTE: For this workshop, we need your input in terms of datasets to analyse using machine-learning algorithm! Please send corresponding ideas (very brief description suffices) in advance to Daniel Abou-Ras!		