

# PSCO23 – POSTERS

Note – blue highlighted lines indicate poster pitch presentations on 18 September 2023.

Poster presenters are listed alphabetically by surname below.

Numbers may change prior to the event. The final list will be posted on the website on 18 September.

1	Amritha	A Raj	Indian Institute of Science	India	Photoelectromagnetic effect in lead-based perovskite crystal
2	Lamiaa	Abdelrazik	FTMC	Lithuania	Energy Transfer Dynamics in CsPbCl <sub>3</sub> Perovskite Doped with Various Contents of Yb <sup>3+</sup>
3	Eric	Ahlswede	ZSW	Germany	Optimization of Electron Transport Layers for p-i-n Perovskite Solar Cells
4	Ahmed	Ahmed	KAUST	Saudi Arabia	Sublimed C <sub>60</sub> for repeatable and efficient perovskite-based solar cells
5	Ece	Aktas	University of Napoli Federico II	Italy	Tailoring the Optoelectronic Properties of Tin-Based Perovskite Light-Emitting Diodes in Nonoxidative Solvent
6	Saleem	Al Dajani	KAUST	Saudi Arabia	Achieving nearly 100% quantum-efficient lead-free perovskite solar cells with 34.67% power-conversion efficiencies through band and defect engineering-based material design optimization
7	Kilian	Alcocer	CEA	France	Functional P-I-N perovskite solar cell using low-damage pulsed laser deposited tin (IV) oxide electron transport layer
8	Esra	Alhabshi	Imperial College London	UK	CsPbI <sub>2</sub> Br Intermediate Phase Effect of Final Film Quality: Crystallinity, Morphology, And Phase Purity
9	Jules	Allègre	CEA	France	Optimization of wide and narrow bandgap absorbers for all perovskite tandem solar cell
10	Jules	Allègre	CEA	France	Analysis of the functionalization of ITO layers with SAMs by Inverse PES to understand shunt issues in perovskite/Si tandem devices
11	Asayil	Alsulami	KAUST	Saudi Arabia	Unveiling the Degradation Mechanism of Hybrid Tin-Lead Perovskites
12	Nisheka	Anadkat	Indian Institute of Science, Bangalore	India	Quantifying Defects in CH <sub>3</sub> NH <sub>3</sub> PbI <sub>3</sub> Perovskite Solar Cells using Capacitance Spectroscopy Techniques
13	Erkan	Aydin	KAUST	Saudi Arabia	Enhanced optoelectronic coupling for monolithic perovskite/silicon tandem solar cells
14	Folusho Helen	Balogun	University of Warwick	UK	The Effect of Antimony Substitution on the Optoelectronic Properties of MAPbI <sub>3</sub>
15	Jessica	Barichello	Università degli studi di Roma Tor Vergata	Italy	An underwater city solar: high-band gap bromide-based perovskite solar cells for underwater application

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16	Mehmet	Baskurt	Chalmers University of Technology	Sweden	Charge Localization in Cs <sub>2</sub> AgBiBr <sub>6</sub> Halide Double Perovskite: Small Polarons and Self-Trapped Excitons
17	Felix	Battran	ZSW	Germany	Sequentially hybrid vacuum-processed Multi-Cation Halide Perovskite
18	Tobias	Bertram	Helmholtz-Zentrum Berlin (HZB)	Germany	Scalable Perovskite Top Cells for Monolithic PSTSCs
19	Shubhangi	Bhardwaj	Indian Institute of Science Bangalore	India	Passivation of defects in perovskite solar cell using Enamine Analogue of Tetra-Phenylethylene: A New systematic Pathway to Achieve High Performance
20	Juliane	Borchert	Fraunhofer Institute for Solar Energy Systems	Germany	Scaling of Perovskite Silicon Tandem Solar Cells – Progress and Challenges
21	Rosemary	Bramante	NREL	USA	Bifacial Module for 4-Terminal Hybrid Tandem
22	Robbe	Breugelmans	UHasselt	Belgium	Unraveling the Mysteries of Potential-Induced Degradation: A Precise Method for Revealing Critical Insights on Perovskite Solar Cells
23	Edward	Butler-Caddle	University of Warwick	UK	Distinguishing Carrier Transfer and Recombination at Perovskite-Transport Layer Interfaces Using Time-Resolved Spectroscopy
24	Luigi Angelo	Castriotta	University of Rome Tor Vergata	Italy	How to get over 25.5mA cm <sup>-2</sup> integrated current density in perovskite solar cells and modules: substrate choice, annealing, additives and passivation strategies investigation
25	Dimitris	Chalkias	Brite Solar Technologies	Greece	New insights for developing lower-toxicity and stable inkjet-printable perovskite precursor inks for fully-printed annealing-free perovskite PVs manufacturing
26	Subhash	Chander	CSIR-Central Scientific Instruments Organisation (CSIR-CSIO)	India	Cesium Tin Halide based Absorber Layers for Graphene-derived all-inorganic Flexible Perovskite Solar Cells
27	Jakapan	Chantana	EneCoat Technologies Co.,Ltd.	Japan	NiOx nanoparticle including in hole transport layer of inverted p-i-n perovskite solar cell for improvement of its stability
28	Zhigang	Che	Beijing Huairou Laboratory	China	Organic chloride salt incorporated SnO <sub>2</sub> electron transport layers for improving the performance of perovskite solar cells

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29	Ihor	Cherniukh	Empa	Switzerland	Functional Multicomponent Nanocrystal Superlattices Comprising Lead Halide Perovskite Nanocrystals
30	Hyeonmin	Choi	Seoul National University	South Korea	Defect Passivation Effects in 2-D Halide Perovskite Field-Effect Transistor by Lewis-base Molecules
31	Ennio	Comi	ZHAW Zurich University of Applied Sciences	Switzerland	Investigation of Time and Location Dependent Variations in Electroluminescence Images of Perovskite Solar Cells
32	Hannah	Contreras	University of Washington	USA	Optimal Interface Engineering through SAM Energy Alignment and Functionalization
33	Pia	Dally	KAUST	Saudi Arabia	Investigation of the band alignment at the interface between 2D/3D halide perovskite films and charge extraction layers
34	Sahil	Dani	IIT Ropar	India	Integrated: experimental and theoretical study on structural and magnetic properties of thin films of double perovskite ruthenates; Ba <sub>2</sub> DyRuO <sub>6</sub> & Sr <sub>2</sub> DyRuO <sub>6</sub>
35	Parsa	Darman	Tarbiat Modares University	Iran	Engineering polycrystalline Ruddlesden Popper perovskite to achieve wavelength dependent response of MSM photodetector
36	Akash	Dasgupta	University of Oxford	UK	Visualizing Macroscopic Inhomogeneities in Perovskite Solar Cells
37	Elke	Debroye	KU Leuven	Belgium	Advanced study of carrier transport in lead-free double perovskite materials
38	Marielle	Deconinck	Technische Universität Dresden	Germany	Visualizing buried interfaces in solution-processed perovskites
39	Matteo	Degani	Università degli studi di Pavia	Italy	Cation passivation and 2D/3D heterostructure: strategies toward high efficient and stable perovskite solar cells
40	Krishanu	Dey	University of Oxford	UK	Suppressed Ionic Migration Effects in Mixed Lead-Tin Halide Perovskite Semiconducting Devices
41	Matthew	Dingley	University of Warwick	UK	Investigating the viability of solution processed metal oxides as the hole-extracting layer in tin perovskite photovoltaics
42	Yueyao	Dong	Queen Mary University of London	UK	Photophysics of Tin-Lead Halide Perovskites for Tandem Photovoltaics
43	Aida	Drevilkauskaitė	Kaunas University of Technology	Lithuania	Structure and properties investigations of carbazole-based monolayers with different functional groups for perovskite solar cells

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44	Jake	Drysdale	University of Oxford	UK	Factors Affecting Combined Thermal and Light Stability of Inverted Architecture Formamidinium-Cesium Lead Triiodide Perovskite Solar Cells
45	Alan	Dunbar	University of Sheffield	UK	In-situ characterization of metal halide perovskite formation from environmentally friendly solvents using in situ wide and small angle X-ray scattering
46	Lisanne	Einhaus	University of Twente	The Netherlands	Investigating the Interplay between Microstructure and Carrier Dynamics in Two-Dimensional Perovskites
47	Muhammad	Fahim	City University of Hong Kong	Hong Kong	Interface and Device Engineering Toward High Performance Flexible Perovskite Solar Cells
48	Leon	Feld	ETH Zürich	Switzerland	Probing and quantifying Förster-like energy transfer from single perovskite quantum dots to organic dyes
49	Irum	Firdous	City University of Hong Kong	Hong Kong	Electrostatically triggered autonomous self-healable and stretchable hydrogel for flexible perovskite solar cells
50	Giulia	Folpini	CNST	Italy	Designing Ytterbium-doped perovskite near-IR emitters: the role of dimensionality and crystal geometry
51	Marius	Franckevicius	Center for Physical Sciences and Technology	Lithuania	Transient Electroabsorption Spectroscopy Reveals Direct Tracking and Extraction of Charge Carriers from Hybrid Perovskites
52	Xiaoxin	Gao	EPFL	Switzerland	Using the Ionic Liquids (ILs) as the Additives to Enhance the Perovskite Solar Devices Stability and Efficiency
53	Daniel	Gau	Universidad de la República	Uruguay	Experimental determination of exciton binding energy, exciton-phonon interaction and Urbach energy in $\gamma$ -CsPbI <sub>3</sub> nanoparticles.
54	Mohammadreza	Golobostanfard	EPFL	Switzerland	Evaporation-Solution Deposition of >20% Efficient FAPbI <sub>3</sub> -Based Perovskite Solar Cell as Mid-cell for Triple Junction Solar Cells
55	Thomas	Gomes	CEA	France	Treatment of perovskite solar cells by cesium chloride: towards inorganic Ruddlesden-Popper phase passivation for hybrid perovskite
56	Isabel	Gonçalves	IIT	Italy	Interlayer engineering enhances sensitivity and dark current of perovskite lateral photoconductors for X-ray detection

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57	Thomas William	Gries	Helmholtz-Zentrum Berlin (HZB)	Germany	Achieving Balanced Charge Extraction via Concerted Co-Doping of Charge-Selective Layers for Stable CsPbI <sub>3</sub> Solar Cells
58	Maria	Hadjipanayi	University of Cyprus	Cyprus	Learning curves from long-term outdoor testing and indoor optoelectronic characterization of perovskite mini-modules
59	Cintia	Hajdu	University of Szeged	Hungary	The effect of solution phase bromide-iodide exchange on the structural and optoelectronic properties of Cs <sub>3</sub> Cu <sub>2</sub> Br <sub>5</sub> layers
60	Javid	Hajhemati	IPVF - CNRS	France	Interface formation between halide perovskites and NiOx studied by photoemission spectroscopy
61	David	Hardy	Linköping University	Sweden	Expanding the Compatibility of P3HT Hole Transport Layers for Stable Perovskite Solar Cells
62	Yanmei	He	Lund University	Sweden	Reversible Thermochromic Self-trapped Excitonic Emission in One Dimensional Tin-based Halide Perovskite Thin Film
63	Yarong	He	IIT	Italy	Defect passivation of 2D tin perovskites for lasing applications
64	Vladimir	Held	Slovak Academy of Sciences	Slovakia	Unraveling the Defects Passivation During Perovskite Vacuum Co-deposition by In-situ Grazing-Incidence X-ray Scattering and Photoluminescence
65	Jonathan	Henzel	TNO	The Netherlands	Where does the current flow? – Spatial inhomogeneity of the reverse bias current and its impact on degradation
66	Minasadat	Heydarian	Fraunhofer-Institut für Solare Energiesysteme ISE	Germany	Development of Perovskite Absorbers for Application in Perovskite/Perovskite/Silicon Triple-Junction Solar Cells
67	Nisha	Hiralal Makani	Indian Institute of Technology Gandhinagar	India	Spacer Layer Dependent AC conductivity of Two-dimensional Dion-Jacobson Halide Perovskites
68	Yvonne	Hofstetter	TU Dresden	Germany	Exploring the Energetic Landscape of Mixed Iodine-Bromide Perovskites
69	Philippe	Holzhey	University of Oxford	UK	Towards commercialisation with lightweight, flexible perovskite solar cells for residential photovoltaics
70	Esther	Hung	University of Oxford	UK	A novel, lead-free halide perovskite derivative for ferro- and piezo-electric applications
71	Rohitkumar	Jadhav	IEM Montpellier	France	Static moisture induced structural and optical evolution of 2D and 3D perovskites

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72	Inyoung	Jeong	Korea Institute of Energy Research	South Korea	Perovskite-based bifacial and flexible tandem solar cells
73	Minji	Jeong	Chungnam National University	South Korea	FAPbI <sub>3</sub> -based perovskite thin film using Co-evaporation method
74	Heon	Jin	University of Oxford	UK	Alumina nanoparticle interfacial buffer-layer for narrow bandgap perovskite solar cells
75	Isabella Antony	Kalluvila Justin	University of Valencia	Spain	Development of luminescent halide perovskite films through CSS
76	Shaoni	Kar	University of Oxford	UK	Dimethylammonium-incorporated mixed halide perovskite nanocrystals for stabilized red emission
77	Masahiro	Kashiwazaki	AIST	Japan	Development of n-type self-assembled monolayers for performance enhancements of perovskite solar cells
78	Mayank	Kedia	Institute for Photovoltaics, University of Stuttgart	Germany	Light Makes Right: Laser Polishing for Surface Modification of Perovskite Solar Cells
79	Rashi	Kedia	CSIR-National Physical Laboratory	India	Copper(I) selenocyanate: A Solution-processed Hole Transport Layer for Organic and Perovskite Solar Cells
80	Hanki	Kim	Sungkyunkwan University	South Korea	Plasma damage-free deposition of transparent top cathode using linear facing target sputtering for semi-transparent perovskite solar cells
81	Sunkyu	Kim	Chungnam National University	South Korea	Study on Charge Carrier Transport in HTL via Optoelectronic Analysis
82	Yongjin	Kim	Seoul National University	South Korea	Modulating Electrical Conductivity of Metal Halide Perovskite Thin Films through Surface Metal Halide Deposition
83	Erik	Kirstein	TU Dortmund	Germany	Mode locking of hole spin coherences in CsPb(Cl,Br) <sub>3</sub> perovskite nanocrystals generated via positively charged excitons
84	Manuel	Kober-Czerny	University of Oxford	UK	Using Bayes' Theorem to Evaluate Time-Resolved Photoluminescence Data
85	Giulio	Koch	University of Rome Tor Vergata	Italy	Atmospheric neutron resilience of flexible perovskite solar cells with thoughtfully designed organic hole transport material
86	Markus	Kohlstädt	Fraunhofer Institute for Solar Energy Systems	Germany	Developments for the industrialization of graphite-based, in-situ crystallized perovskite solar cells
87	Daisuke	Kubota	AIST	Japan	Encompassing Tetrafluoroborate Anion into FAPbI <sub>3</sub> Photoabsorber Layer for Efficient and Stable Perovskite Solar Cells

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88	Jitendra	Kumar	Lund University	Sweden	Horse measurement” for accurate quantification of information on the charge dynamics in halide perovskites
89	Jamie	Laird	University of Melbourne	Australia	Coordinated Image and Bulk Electrical Characterisation for Better Elucidating the Role Heterogeneity Plays in Perovskite Solar Cell Degradation
90	Valentina	Larini	University of Pavia	Italy	Sustainable and Circular Management of Perovskite Solar Cells via Green Recycling
91	Martin	Ledinsky	Institute of Physics	Czechia	Surface or Bulk Defects - Halide Perovskites Probed by Photothermal Deflection Spectroscopy
92	Gayoung	Lee	Ewha Womans University	South Korea	Strategies for low threshold and photo-stable amplified spontaneous emission from halide perovskite thin films
93	Wonjong	Lee	Chungnam National University	South Korea	Elucidating Photostability of the Perovskite Films via Anti-Solvent Additive passivation
94	Jinzhao	Li	Helmholtz-Zentrum Berlin (HZB)	Germany	Combinatorial slot-die coating of metal halide perovskite solar cells
95	Jinghui	Li	Huazhong University of Science and Technology	China	Efficient all-thermally evaporated perovskite light emitting diodes for active matrix displays
96	Xuan	Li	Queen Mary University of London	UK	In-situ analysis of solvent extraction process for large area perovskite film formation
97	Jongchul	Lim	Chungnam National University	South Korea	Understanding the Space Charge Limited Current in Metal Halide Perovskite (SCLC)
98	Benyu	Liu	Beijing Huairou Laboratory	China	Efficient HTL-free Perovskite Solar Cells via Surface P-type Doping
99	Tino	Lukas	University of Oxford	UK	Exploiting the synergies - p-i-n carbon perovskite solar cells with fully ambient pressure compatible processes
100	Erica	Magliano	CHOSE-University of Tor Vergata Rome	Italy	Two-Step Hybrid Perovskite Deposition: a Novel Crystal Engineering Approach and Vacuum-processed HTLs for Tandem Solar Cells.
101	Artiom	Magomedov	Kaunas University of Technology	Lithuania	Mixed Monolayers as a Strategy to Improve the Performance of the Perovskite Solar Cells
102	Paolo	Mariani	CHOSE-University of Tor Vergata Rome	Italy	Novel low-temperature laminable encapsulants based on two-dimensional hexagonal boron nitride for perovskite solar cells and modules

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103	Daniela	Marongiu	University of Cagliari	Italy	Single crystal 2D perovskite thin films for solar cells
104	Arthur	Maufort	Hasselt University	Belgium	2D layered hybrid perovskites featuring benzotriazole-based organic cations: a fundamental study of structural and optical properties
105	Dorothee	Menzel	Helmholtz-Zentrum Berlin (HZB)	Germany	Dipole modification of the perovskite/C60 interface upon piperazinium iodide treatment - a Near-UV photoemission spectroscopy study
106	Ganghong	Min	Queen Mary University of London	UK	Origin of the Voc growth in perovskite solar cell with Br substitution
107	George	Morgan	University of Oxford	UK	Two-step evaporation of low-bandgap mixed lead-tin perovskites for solar cells
108	Seyede Maryam	Mousavi	Aalto University	Finland	Multifunctional Leek-Inspired Light Management Layer for improving the performance of perovskite solar cells
109	Nada	Mrkyvkova	Institute of Physics	Slovakia	Unrevealing Defects during Lead-Halide Perovskite Film Formation
110	Kunnummal Mangott	Muhammed Salim	IPVF - CNRS	France	Scalable Fabrication of Pure Formamidinium based Perovskite Solar Cells by Slot-Die Coating Process
111	Artem	Musiienko	Helmholtz-Zentrum Berlin (HZB)	Germany	Defect tolerance and improved stability in 1.8 eV bandgap perovskite solar cells activated by Ionic Liquid Passivation
112	Nursultan	Mussakhanuly	University of New South Wales	Australia	Thermal disorder-induced carrier localisation activates reverse halide segregation
113	Stefan	Nicholson	University of Strathclyde	UK	Unveiling the translational impact of electron transport layers on perovskite film formation.
114	Hafez	Nikbakht Kashkooli	CHOSE-University of Tor Vergata Rome	Italy	Strategy for in-air deposition of perovskite cell and modules: Comparison between TiO <sub>2</sub> and SnO <sub>2</sub> transporting layers
115	Naoyuki	Nishimura	AIST	Japan	N-Octylammonium Bis(trifluoromethylsulfonyl)imide as a Highly Functional Additive for Spiro-OMeTAD Layer in Perovskite Solar Cells
116	Elisa	Nonni	CHOSE-University of Tor Vergata Rome	Italy	CsPbI <sub>3</sub> towards Tandem application



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117	Virginia	Oddi	IBM Research Zurich	Switzerland	Polarimetric measurements of the bright triplet emission of single cesium lead halide perovskite quantum dots at cryogenic temperature
118	Efrain	Ochoa	University of Fribourg	Switzerland	Flash Annealed Nickel Oxide for Large Area Perovskite Solar Cells
119	Andrea	Olivati	IIT	Italy	Fundamental analysis of all inorganic germanium perovskite
120	Sanika	Padelkar	Indian Institute of Technology Bombay	India	Lead-free Magnetic Halide Perovskite Photovoltaics
121	Ulrich	Paetzold	KIT	Germany	Innovative concepts to improve optical gain in CsPbBr <sub>3</sub> perovskite thin films
122	Ronja	Pappenberger	KIT	Germany	Bandgap Engineering of Two-Step Processed Perovskite Top Cells for Application in Perovskite-Based Tandem Photovoltaics
123	Gabor	Parada	Semilab Co. Ltd.		Characterization of perovskite layers using photoconductance techniques
124	Jihye	Park	Chungnam National University	South Korea	Characteristics of Stable Inorganic CsPbI <sub>3</sub> Perovskite films deposited by thermal evaporation
125	Elsa	Parrat	CEA	France	Pulsed laser deposition of inorganic halide perovskite thin films with various compositions
126	Sumaiya	Parveen	S. N. Bose National Centre for Basic Sciences	India	Analog Memristor of Cs <sub>4</sub> CuSb <sub>2</sub> Cl <sub>12</sub> Perovskite Nanocrystals as Solid-State Electronic Synapse
127	Vani	Pawar	Indian Institute of Science, Bangalore	India	Boosting device performance of low-dimensional perovskite solar cells by ionic liquid engineering
128	Meenakshi	Pegu	IIT	Italy	Synthesis of CsPbBr <sub>3</sub> Nanocrystals Employing a New X-Type Ligand Based on Sulphur-atom.
129	Hashini	Perera	University of Surrey	UK	Mitigating performance losses in perovskite solar cells incorporating ionic transport layers
130	Hashini	Perera	University of Surrey	UK	Nanoparticles for improved wettability and enhanced carrier lifetimes of perovskites on hydrophobic self-assembled monolayers

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131	Julius	Petrulevicius	Kaunas University of Technology	Lithuania	Asymmetric triphenylethylene-based hole transporting materials for highly efficient perovskite solar cells
132	Julian	Petry	KIT	Germany	How Substrate Surface Passivation Dictates Preferential Growth of Thermally Co-Evaporated Perovskite Thin Films
133	Julian	Petry	KIT	Germany	Advanced Laser-Patterned Interconnection Concepts for Perovskite (Tandem) Solar Modules
134	Himanshu	Phirke	University of Luxembourg	Luxembourg	Effect of charge extraction layer on optoelectronic properties of perovskite via Photoluminescence Imaging
135	Bhavya	Rakheja	Uppsala University	Sweden	Interface study between transport layers by atomic layer deposition and FA-based perovskites
136	Sankaran	Ramesh	Lund University	Sweden	Pronounced Room-Temperature Vibrational Coherence Coupled to Electronic Transitions in Cs <sub>2</sub> Au <sub>2</sub> Br <sub>6</sub>
137	Murillo	Rodrigues	UNICAMP	Brazil	The influence of the chemical composition of 3D perovskites on the formation and stability of 2D/3D structures
138	Marcel	Roß	Helmholtz-Zentrum Berlin (HZB)	Germany	Monolithic Perovskite/Silicon Tandem Solar Cells Prepared by Thermal Co-Evaporation with Optimized Top Cell Band Gap
139	Hadi	Rostamzadeh Kalkhoran	Eindhoven University of Technology	The Netherlands	Wind effects on the performance and hysteresis of building-integrated perovskite solar cells
140	Rajarshi	Roy	Universitat Stuttgart	Germany	Thermally Stable and Water-resistant using All-Inorganic CsPbI <sub>2</sub> Br Perovskite Solar cells
141	Monika	Salesh	IIT Bombay	India	Unravelling Lead Free Perovskites for White Light Emission by Charge Carrier Localization Amongst the Lattice Structure
142	Gergely	Samu	University of Szeged	Hungary	The effect of halide composition on the luminescent properties of cesium-copper halide pseudo-perovskites
143	Gennaro Vincenzo	Sannino	University of Naples Federico II	Italy	Tuning the electronic structure of SnO <sub>2</sub> via Mg-doping for application in perovskite solar cells

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144	Florian	Scheler	Helmholtz-Zentrum Berlin (HZB)	Germany	The influence of surface treatments on the efficiency and stability of 1.68eV bandgap triple-halide perovskite solar cells
145	Götz	Schuck	Helmholtz-Zentrum Berlin (HZB)	Germany	Anharmonicity of the lead-halide bond in chlorine-substituted MAPbI <sub>3</sub> in comparison to MAPbBr <sub>3</sub>
146	Xinyi	Shen	University of Oxford	UK	Chloride-based additive engineering for efficient and stable wide-bandgap perovskite solar cells
147	Severin	Siegrist	EMPA	Switzerland	Chlorine Incorporation for Scalable 1.8 eV Wide Bandgap Perovskite Solar Modules with Enhanced Efficiency and Photostability
148	Abhinav Kumar	Singh	University of Liverpool	UK	Optimising sputtering conditions to fabricate SnO <sub>2</sub> films as a reliable electron transport layer for perovskite solar cell
149	Shivam	Singh	Technical University of Dresden	Germany	Impact of Ion Migration on the Operational Stability of Perovskite Solar Cells: Insight from Photoemission Spectroscopy
150	Viktor	Škorjanc	Helmholtz-Zentrum Berlin (HZB)	Germany	Mitigating phase segregation in co-evaporated wide band gap perovskite films for perovskite-silicon tandem application
151	Nicholas	Sloane	University of New South Wales	Australia	The Impact of Surface Termination of MAPbI <sub>3</sub> Perovskite on the Electronic Structure at Interface with Rubrene
152	Emanuele	Smecca	CNR-IMM	Italy	Two-step MAPbI <sub>3</sub> deposition by low-vacuum proximity-space-effusion for high-efficiency inverted semitransparent perovskite solar cells
153	Joel	Smith	University of Oxford	UK	Characterising halide perovskite crystallisation using in situ GIWAXS
154	Zbigniew	Starowicz	Polish Academy of Sciences	Poland	The problem of vanishing photocurrent in inorganic, wide band gap CsPbBr <sub>3</sub> perovskite solar cells
155	Maurizio	Stefanelli	CHOSE-University of Tor Vergata Rome	Italy	Industrially Compatible FAPI Perovskite Solar Cells and Modules Fabrication by Meniscus Coating Technique
156	Thomas	Stergiopoulos	NCSR DEMOKRITOS	Greece	Superacid treatment of metal halide perovskites to improve the absorber/hole transport layer interface
157	Klara	Suchan	Lund University	Sweden	Multi-Stage Phase-Segregation of Mixed Halide Perovskites under Illumination: A Quantitative Comparison of Experimental Observations and Thermodynamic Models

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159	Margherita	Taddei	University of Washington	USA	Interpreting Halide Perovskite Semiconductor Photoluminescence Kinetics
160	Shun	Tian	EPFL	Switzerland	3D/2D heterojunction for efficient and stable perovskite solar cells based on chemical bath deposition SnO <sub>2</sub> electron transport layers
161	Bening	Tirta Muhammad	Newcastle University	UK	Encapsulation and Stability of Emerging Photovoltaic Technologies Outdoors in the UK
162	Abinash	Tiwari	IIT Bombay	India	Vacancy Ordered Double Perovskite Caged 2D- Light Absorbing Perovskite for Optical Humidity Sensing
163	Francesco	Toniolo	Università di Pavia	Italy	2D/3D Perovskite Heterojunction Solar Cells: Pairing performance with stability
164	Joanna	Urban	Fritz Haber Institute of the Max Planck Society	Germany	Driving Lattice Dynamics in 2D Perovskites via THz Kerr Effect
165	Liam	van Gaal	KU Leuven	Belgium	Synergistic approach towards enhanced stability and emission of FAPbBr <sub>3</sub> NCs for LED applications
166	Wouter	Van Gompel	Hasselt University	Belgium	Tailoring Interlayer Charge Transfer Dynamics in 2D Perovskites with electroactive ligands
167	Welmoed	Veurman	ISFH	Germany	Light dependency for current - voltage curve hysteresis in perovskite solar cells modelled by slow - shallow trap states
168	Heyong	Wang	IIT	Italy	Mastering the crystallization dynamic of FAPbI <sub>3</sub> thin film for high efficiency and stable light-emitting diodes
169	Hao	Wang	Being Huairou Laboratory	China	Stabilizing Perovskite Solar Cells via Compressive Strain
170	Yu	Wang	Linköping University	Sweden	Device Physics of Ion-defect-coupled Perovskite LEDs
171	Matthew	Wolf	RWTH Aachen	Germany	Vacancy-mediated Cs <sup>+</sup> and Br <sup>-</sup> ion migration in biaxially strained CsPbBr <sub>3</sub>
172	Chunsheng	Wu	IIT	Italy	The influences of excess FAI to ASE performances and carrier dynamics in FAPbI <sub>3</sub> perovskite

# PSCO23 – POSTERS

Note – blue highlighted lines indicate poster pitch presentations on 18 September 2023.

Poster presenters are listed alphabetically by surname below.

Numbers may change prior to the event. The final list will be posted on the website on 18 September.

173	Sheng-Chan	Wu	Leibniz Institute of Photonic Technology	Germany	Carrier–Phonon Interaction Induced Negative Thermal-Optic Coefficient at Near Band Edge of Quasi-2D (PEA)2PbBr4 Perovskite
174	Xun	Xiao	Linköping University	Sweden	Lead-Absorbing Encapsulation for Lead-safe Perovskite Solar Panel
175	Yuting	Xu	Northwestern Polytechnical University	China	Enhanced Hole Injection via Perovskite Band Alignment for High-Performance Blue light-emitting diode
176	Kohei	Yamamoto	AIST	Japan	Thermal Stability of Perovskite Solar Cells with Ionic liquid dopant to Spiro-OMeTAD
177	Jin	Yan	TU Delft	The Netherlands	Perovskite orientation growth and bandgap optimization via thermal evaporation
178	Siyu	Yan	University of Oxford	UK	A Templating Approach to Controlling the Growth of Co-evaporated Halide Perovskites
179	Linjie	Yang	University of St Andrews	UK	Manipulation of the optoelectronic properties of layered hybrid perovskites by molecular intercalation
180	Tae-Youl	Yang	Chungnam National University	South Korea	Laminated Perovskite Solar Cells with Enhanced Stability and Performance via Thermocompression Bonding
181	Sarah	Youn	Ewha Womans University	South Korea	Impact of charge transport at the interfaces of lead halide perovskite solar cells
182	Qimu	Yuan	University of Oxford	UK	Thermally Stable All-vacuum-deposited Perovskite Solar Cells with Copper Phthalocyanine Hole Transport Layer
183	Ceylan	Zafer	Ege University	Turkey	Enhanced Hole Mobility of p-Type Materials by Molecular Engineering for Efficient Perovskite Solar Cells
184	Francesca	Zarotti	University of Rome Tor Vergata	Italy	Study of co-evaporated $\alpha$ -FAPbI3 perovskite growth as function of time and temperature deposition
185	Xiao	Zhang	TNW-IMS	The Netherlands	Manipulation of Crystal Orientation and Phase Distribution of 2D Perovskite through Synergistic Effect of Additive Doping and Spacer Engineering
186	Zongbao	Zhang	Institute of Applied Physics, TU Dresden	Germany	Ultrathin semitransparent perovskite solar cells

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187	Haitao	Zhao	Shenzhen Institute of Advanced Technology, Chinese Academy of Sciences	China	A robotic platform assisted perovskite materials synthesis
188	Chenglian	Zhu	ETH Zürich	Switzerland	Many-body Correlations and Exciton Complexes in CsPbBr <sub>3</sub> Quantum Dots
189	Waqas	Zia	Universität Stuttgart	Germany	Impact of Low-Temperature Seed-Assisted Growth on the Structural and Optoelectronic Properties of MAPbBr <sub>3</sub> Single Crystals
190	Lea	Zimmermann	Helmholtz-Zentrum Berlin (HZB)	Germany	Optical and electrical optimization of the electron-selective top contact for perovskite single-junction and perovskite/silicon tandem solar cells