8TH INTERNATIONAL CONFERENCE ON PEROVSKITE SOLAR CELLS AND OPTOELECTRONICS – PSCO 2025

Program

September, 15 – 18 2025

Hotel Giò Wine e Jazz Area, Congress Center

Perugia, Italy

SCIENTIFIC AND ORGANIZING COMMITTEE

PSCO 2025

SCIENTIFIC COMMITTEE

Henry Snaith

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University of Perugia, Italy

Annamaria Petrozza

Istituto Italiano di Tecnologia, Italy

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Clare Moloney

Oxford University, United Kingdom

INVITED LECTURES

PSCO 2025

Alex Kwan Yue Jen

City University of Hong Kong, HKG

Annamaria Petrozza

Istituto Italiano di Tecnologia, IT

Daniele Cortecchia

University of Bologna, IT

Dewei Zhao

Sichuan University, CHN

Henk Bolink

UVEG, ES

Henry Snaith

Oxford University, United Kingdom

Hou Yi

National University Singapore, SG

Joseph M. Luther

National Renewable Energy Lab, US

Linn Leppert

University of Twente, NL

Maria Vasilopoulou

NCSR, GR

Martin Stolterfoht

The Chinese University of Hong Kong, HKG

Nam-Gyu Park

SKKU, KOR

Pablo Boix

ITQ (UPV-CSIC), ES

Rui Wang

Westlake University, CHN

Sascha Feldmann

EPFL, CH

Saiful Islam

Oxford University, GB

Seigo Ito

University of Hyogo, JPN

Selina Olthof

University of Wuppertal, DE

Shuxia Tao

Eindhoven University of Technology, NL

Shuzi Hayase

The University of Electro-Communications, JPN

Silvia Colella

CNR-NANOTEC, IT

Steve Albrecht

Helmholtz Zentrum Berlin, DE

Yuanyuan Zhou

HKUST, HKG

Day 1 - Monday, September 15th 2025		
08:30	08:50	**CONFERENCE DESK**
		Town Hall
	Session Chair	***Edoardo Mosconi, CNR – SCITEC "G.Natta" Perugia, Italy***
	Session Title	***Special Session - Catalysis***
08:50	09:00	Introduction to CATALYSIS Session **by Prof. Lorenzo Malavasi**, University of Pavia and INSTM, Italy
09:00	09:12	**Luca Gregori**, University of Perugia, Italy *Computational modeling of perovskite for photovoltaics and photocatalysis*
09:12	09:24	**Costanza Tedesco**, University of Pavia, Italy *Metal halide perovskites and graphitic carbon nitride heterojunctions for ammonia and hydrogen production*
09:24	09:36	**Diego Sorbelli**, University of Perugia, Italy *Cooperative CO_2 activation: lessons from molecular systems for emerging catalytic materials*
09:36	09:48	**Sofia Lerda,** University of Perugia, Italy *Computational insights into selective catalysis by dirhodium complexes*
09:48	10:00	**Irene Di Guida**, Prolabin & Tefarm, Italy *NiFe layered double hydroxides: new heterogeneous electrocatalysts for the Oxygen Evolution Reaction (OER)*
10:00	10:30	**COFFEE BREAK AM**
		Town Hall
	Session Chair	**Paola Delli Veneri, ENEA, Italy**
	Session Title	***Special Session - GoPV***
10:30	10:45	Introduction by **Paola Delli Veneri,** ENEA, Italy *GoPV Project: New generation materials for tandem solar cells*
10:45	11:00	**Gennaro V. Sannino,** ENEA and INSTM, Italy *Innovative materials for perovskite/Si tandem solar cells*
11:00	11:15	**Antonio Terrasi,** University of Catania, Italy *TCOs and selective contacts for tandem splar cells*
11:15	11:30	**Debendra Prasad Panda,** University of Naples "Federico II", Italy *Recent Progress in DMSO-Free Tin Perovskites*
11:30	11:45	**Annamaria Petrozza**, Istituto Italiano di Tecnologia, Italy *Design of Strong and Weak Intermolecular Interactions to Engineer Buried Interfaces in Inverted Wide-Bandgap Perovskite Solar Cells*
11:45	12:00	**Matteo Degani**, University of Pavia, Italy *Redefining Solar Energy with Low-Dimensional Perovskites: Breakthroughs in Active Materials and Interface Control*
12:00	12:15	**Marina Ustinova**, University of Rome "Tor Vergata", Italy *Materials for perovksite cells in single and tandem configurations*
12:15	12:30	**Filippo De Angelis**, University of Perugia, Italy *Modeling and Screening of Optimized Perovskite Material*
12:30	12:45	**Sanjay Thorat,** BeDimensional, Italy *The applications of two-dimensional materials in photovoltaic*
12:45	13:45	**REGISTRATION & LIGHT BUFFET LUNCH**

13:45	14:00	**OPENING PSCO 2025**	
		Town Hall	
		Session Chair **Filippo De Angelis, University of Perugia, Italy**	
		Session Title **Session 1 – Invited Lectures**	
14:00	14:25	1° INVITED LECTURE - **Nam Gyu Park,** SKKU, South Korea *Perovskite solar cells from nip to pin*	
14:25	14:50	2° INVITED LECTURE - **Rui Wang**, Westlake University, China *Recent progress on perovskite-based photovoltaics*	
14:50	15:15	3° INVITED LECTURE – **Pablo Boix**, ITQ (UPV-CSIC), Spain *Turning crystallization into a characterization tool for perovskite-based devices*	
15:15	15:40	4° INVITED LECTURE – **Seigo Ito**, University of Hyogo, Japan *Ion migration in carbon-based multi-porous-layered-electrode perovskite solar cells (MPLE-PSCS)*	
15:40	15:45	1° SPONSOR SPEACH - DJK Europe GmbH	
15:45	16:15	**COFFEE BREAK PM**	
		Town Hall	
		Session Chair **Filippo De Angelis, University of Perugia, Italy**	
		Session Title **Session 2 – Invited Lectures**	
16:15	16:40	5° INVITED LECTURE - **Saiful Islam**, Oxford University, United Kingdom *Like people, perovskites are not perfect: atomistic insights into molecular passivation & defect migration*	
16:40	17:05	6° INVITED LECTURE - **Joseph M. Luther**, National Renewable Energy Lab, United States *Chirality in hybrid metal halide semiconductors and quantum dots*	
17:05	17:30	7° INVITED LECTURE – **Sascha Feldmann**, Ecole Polytechnique Fédérale de Lausanne, Switzerland *Tracking charge, spin and light polarization in space & time in halide perovskites*	
17:30	17:33	2° SPONSOR SPEACH - NIREOS	
		Town Hall	**Trumpet**
		Session Chair **Maria Vasilopoulou, NCSR, Greece**	**Selina Olthof, University of Wuppertal, Germany**
		Session Title **Session 2A – Characterization 1**	**Session 2B – Stability 2**
17:33	17:45	**Matthias Diethelm**, Fluxim AG, Switzerland *Probing ionic conductivity and electric field screening in perovskite solar cells: a novel exploration through ion drift currents*	**Matteo Degani**, University of Pavia, Italy *Circular recovery of critical components in perovskite solar cells via green solvent processing for high-efficiency and low-impact devices*
17:45	17:57	**Cecilia Daniela Costa**, Istituto Italiano di Tecnologia, Italy *Water-based recycling strategies for lead recovery from end-of-life perovskite solar cells*	**Muhammad Bilal**, Queen Mary University of London, United Kingdom *Insights into degradation pathways of triple-cation perovskite thin films under outdoor and indoor conditions: a comparative analysis*
17:57	18:09	**Jiaxing Du**, Oxford University, United Kingdom *Inter-layer diffusion of excitations in 2D perovskites revealed by photoluminescence reabsorption*	**Gurpreet Kaur**, Oxford University, United Kingdom *Crystallization via aerosol processing mitigates intrinsic quantum confinement effects and boosts optoelectronic performance of FAPbI3 films*

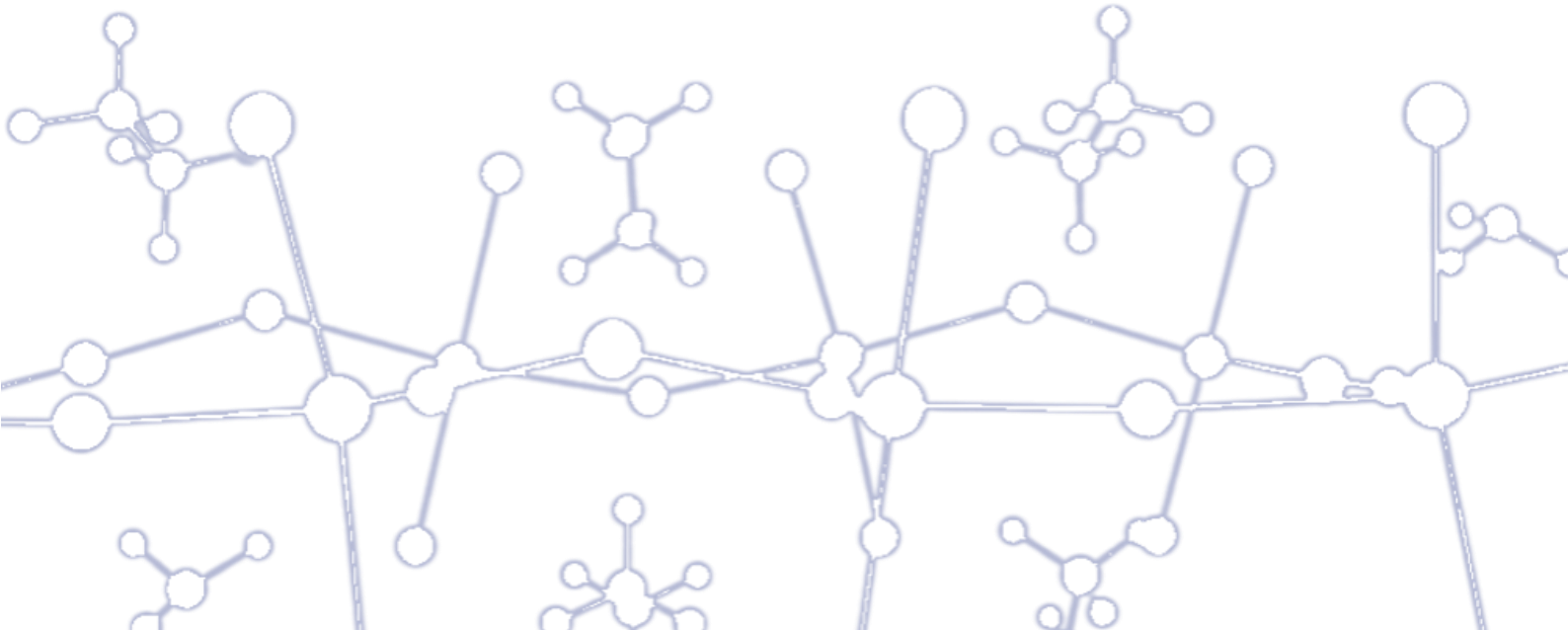
18:09	18:21	**Karen Radetzky**, Uppsala University, Sweden *In situ interface formation and characterization for inverted architecture perovskite solar cells*	**Markus Griesbach**, University of Bayreuth, Germany *Exploring photoinduced phase segregation in mixed halide perovskite powders*
18:21	18:25	**COMFORT BREAK**	
		Town Hall	
		Session Chair **Lorenzo Malavasi, University of Pavia and INSTM, Italy**	
		Session Title **Poster Pitch Presentations (2 minutes each)**	
18:25	18:27	**Tianshan Xu**, University of Bayreuth, Germany *MAPbBr3-MAPbI3 gradient films prepared at room temperature by Powder Aerosol Deposition (PAD) for controlled ion and electron transport*	
18:27	18:29	**Qimu Yuan**, Oxford University, United Kingdom *Atomistic and photo-physical insights into vapourdeposited CsPbBr3 and CsPbI3 perovskites for emission and phase-stability enhancement*	
18:29	18:31	**Allison Arber**, Oxford University, United Kingdom *Ion Migration and Dopant Effects in the Gamma-CsPbI3 Perovskite Solar Cell Material: Atomistic Insights through Ab Initio and Machine Learning Methods*	
18:31	18:33	**Ruohan Zhao**, Oxford University, United Kingdom *From solution to thin-film: approaches to improving the optoelectronic properties of halide perovskites*	
18:33	18:35	**Lars Sonneveld**, AMOLF, The Netherlands *Resolving local structure in metal halide perovskites using SEM-EBSD by minimizing beam damage*	
18:35	18:37	**Dilek Çırak**, Ege University Solar Energy Institute, Turkey *Unveiling the future of perovskite solar cells: the promising potential of additive for precursor stability*	
18:37	18:39	**Amanda Covarelli**, University of Perugia, Italy *Additives in metal-halide perovskite solar cells: a computational study*	
18:39	18:41	**Debrenda Prasad Panda,** University of Naples “Federico II”, Italy *Suppressing the Stereochemically Active Lone Pair Expression in Tin Perovskite Solar Cells*	
18:41	18:43	**Daphne Dekker**, AMOLF, The Netherlands *Greener and more stable mixed lead-tin halide perovskites using DMS*	
18:43	18:45	**Maximilian Spies**, University of Bayreuth, Germany *Solvated PbI2 clusters preceding the crystallization of lead halide perovskites – a UV/VIS in-situ study*	
18:45	18:47	**Sebastian Hedwig**, FHNW Univ. of Applied Sciences and Arts Northwestern Switzerland, Switzerland *Indium and silver recovery from perovskite thin film solar cell waste by means of nanofiltration*	
18:47	18:49	**Sevdiye Basak Turgut**, Ege University Solar Energy Institute, Turkey *Utilization of ionic liquids in triple-cation perovskite solar cells*	
18:49	18:51	**Gulay Zeynep Gunel**, Ege University Solar Energy Institute, Turkey *Functionalized P-type triazatruxene-based selfassembly monolayers for perovskite solar cells*	
18:51	18:53	**Müge Özdemir,** Ege University Solar Energy Institute, Turkey *Scalable fabrication of perovskite quantum dot layers with inkjet printing*	
18:53	19:45	**POSTER SESSION & SOCIAL APERITIVO**	
19:45	20:00	**FREE TIME**	
20:00	22:00	**WELCOME DINNER**	

Day 2 - Tuesday, September 16th 2025		
Session Chair *Session Title*		**Town Hall** **Saiful Islam, Oxford University, United Kingdom** **Session 1 – Invited Lectures**
08:45	09:00	**CONFERENCE DESK**
09:00	09:25	8° INVITED LECTURE - **Steve Albrecht**, Helmholtz-Zentrum Berlin, Germany *Integrating metal halide perovskite top cells with bottom cells formed by crystalline silicon or low band gap*
09:25	09:50	9° INVITED LECTURE - **Martin Stolterfoht**, The Chinese University of Hong Kong, Hong Kong *Understanding and improving the stability of perovskite solar cells based on their ionic properties*
09:50	10:15	10° INVITED LECTURE - **Shuzi Hayase**,The University of Electro-Communications, Japan *Tin-based perovskite solar cells Mechanism of degradation and direction to enhance stability*
10:15	10:40	11° INVITED LECTURE - **Selina Olthof**, University of Wuppertal, Germany *Investigation of the electronic structure of 2D halide perovskites as well as 3D/2D interfaces*
10:40	10:45	3° SPONSOR SPEACH - QYB
10:45	10:50	4° SPONSOR SPEACH – Korea Kiyon
10:50	11:20	**COFFEE BREAK AM**
Session Chair *Session Title*		**Town Hall** **Annamaria Petrozza, Istituto Italiano di Tecnologia, Italy** **Session 2 – Invited Lectures**
11:20	11:45	12° INVITED LECTURE – **Henry Snaith**, Oxford University, United Kingdom *Understanding Degradation and Enhancing Efficiency in Perovskite Solar Cells*
11:45	12:10	13° INVITED LECTURE - **Linn Leppert**, University of Twente, The Netherlands *Excitons in low-dimensional halide perovskites from first-principles calculations*
12:10	12:35	14° INVITED LECTURE - **Dewei Zhao**, Sichuan University, China *All-perovskite tandem solar cells*
12:35	12:40	Prof. Luca Gammaitoni for VITALITY Project
12:45	14:00	**LIGHT BUFFET LUNCH**

		Town Hall	
	Session Chair	**Henry Snaith, Oxford University, United Kingdom**	
	Session Title	**Session 3 – Invited Lectures**	
14:00	14:25	15° INVITED LECTURE - **Hou Yi**, National University Singapore, Singapore *Unlocking the Potential of Perovskite Solar Cells: from Single-Junction to Tandem*	
14:25	14:50	16° INVITED LECTURE - **Maria Vasilopoulou**, NCSR, Greece *Solving perovskite instability at its source next-generation photonic devices and solar cells*	
14:50	15:00	**COMFORT BREAK**	
		Town Hall	**Trumpet**
	Session Chair	**Maria Vasilopoulou, NCSR, Greece**	**Selina Olthof, University of Wuppertal, Germany**
	Session Title	**Session 1A – Engineering PV**	**Session 1B – Computational Insight**
15:00	15:12	**Liam Van Gaal,** KU Leuven, Belgium *Sn-Induced phase stabilization of CsPbI3 quantum dots for stable red light-emitting diodes*	**James McQueen**, Oxford University, United Kingdom *Multiscale Modelling of Perovskite Solar Cell Interfaces to Optimise Efficiency and Durability*
15:12	15:24	**Kasparas Rakstys**, Kaunas University of Technology, Lithuania *Molecular engineering of functional components towards high performance perovskite solar cells*	**Max Grischek**, Helmholtz-Zentrum Berlin, Germany *Predicting the stability of inorganic perovskite solar cells based on the influence of mobile ions*
15:24	15:36	**Thomas Gomes**, CEA, France *Cesium chloride additive for enhanced illumination stability: mechanisms and tandem integration*	**Pradeep Nair**, Indian Institute of Technology Bombay, India *Modeling of Perovskite Optoelectronics: from Photoluminescence and Recombination kinetics to Solar Cells and LEDs*
15:36	15:48	**Dane deQuilettes**, Optigon, Inc., United States *Rapid, Automated, Multimodal Characterization and Device Parameter Prediction of Perovskite Photovoltaics*	**Ana Palacios Saura**, Helmholtz-Zentrum Berlin, Germany *FAPbI3: the dynamic material*
15:48	16:00	**Larissa van de Ven**, University of Groningen/AMOLF, The Netherlands *Understanding the tin and lead arrangement in the atomic lattice of all inorganic tin-lead perovskites*	**Zhen Li**, Northwestern Polytechnical University, China *Efficient and robust flexible perovskite solar cells for space applications*
16:00	16:12	**Tom Savenije**, TU Delf, The Netherlands *Additive-free sequential thermal evaporation of nearintrinsic low bandgap perovskites: from thin film to device fabrication*	**Pabitra Kumar Nayak**, Indian Institute of Technology Delhi, India *Optimizing excited charge dynamics in layered halide perovskites through compositional engineering*

16:12	16:45	**COFFEE BREAK PM**	
		Town Hall	**Trumpet**
		Session Chair ***Hou Yi, National University Singapore, Singapore***	***Daniele Cortecchia, University of Bologna, Italy***
		Session Title **Session 3A – Advanced Perovskite Technologies**	**Session 3B – Characterization 2**
16:45	16:57	**Markus Lenz,** FHNW, Switzerland *PERCENT- An open access tool to predict environmental Pb concentrations and their possible impacts on soils.*	**Chuanxiao Xiao**, Ningbo Institute of Materials Technology & Engineering, Chinese Academy of Sciences, China *Characterization technique development and failure analysis of perovskite solar cells*
16:57	17:09	**Weilun Li**, Monash University, Australia *Connecting atomic structure to performance of perovskite solar cells*	**Sander Heester**, Zernike Institute for Advanced Materials, The Netherlands *The Red, White & Blue: Identifying the dominant recombination loss mechanism in perovskite solar cells*
17:09	17:21	**Marco Moroni**, University of Pavia, Italy *3D chiral hybrid perovskite derivatives: structural and functional insights*	**Rebecca Belisle**, Wellesley College, United States *Photodriven iodine expulsion and its impacts on microscale heterogeneity*
17:21	17:33	**Inna Ivashchenko**, Cracow University of Technology, Poland *Compositional design approach for pe-LED production based on 3D lead-free halide double perovskites*	**Nada Mrkyvkova**, CEMEA Slovak Academy of Sciences, Slovakia *Complete operando study tracking perovskite solar cells degradation*
17:33	17:45	**Xinyu Shen**, Oxford University, United Kingdom *Rational design of phosphine oxide for efficient perovskite light-emitting diodes*	**Iwan Zimmermann**, IPVF, France *Large scale deposition of uniform perovskite films in ambient atmosphere by combining slot-die coating and vacuum flash quenching*
17:45	17:57	**Zhongcheng Yuan**, Oxford University, United Kingdom *Applications of perovskite LEDs in multifunctional display and light communication system*	**Elnaz Ghahremani Rad**, The University of British Columbia, Canada *Exploring charge collection efficiency losses of perovskite solar cells using hysteresis and impedance measurements*
17:57	18:09	**Marcel Kouwenhoven**, AMOLF, The Netherlands *Writing with light: optical excitation-induced memory in mixed halide perovskites*	**Federico Ventosinos**, ICMOL - Universidad de Valencia, Spain *Unraveling ion transport and electronic states in perovskite thin films using moving grating techniques*
18:09	18:21	**Yasuhiro Yamada**, Chiba University, Japan *Anti-stokes optical cooling in $CsPbBr_3$/Cs_4PbBr_6 Dot-in-crystal perovskites: exploring the potential and fundamental limits*	**Roel Vanden Brande**, KU Leuven, Belgium *Chemical vapor deposited highly crystalline CsPbBr3 films for enhanced broad-range photodetection with ultra low dark current*
18:21	18:33	**Sownder Subramaniam**, imec, Belgium *Energetics and defect landscape of soft-sputtered SnO_x: implications for perovskite solar cells and lowleakage photodetectors*	**Yudi Wang**, Dalian University of Technology, China *Graphene oxide doping boosts efficiency of perovskite solar cells with carbon electrode towards 24%*
18:33	20:00	**POSTER SESSION**	
20:00	20:30	**FREE TIME**	
20:30	22:30	**SOCIAL DINNER**	

		Day 3 - Wednesday, September 17th 2025
08:45	09:00	**CONFERENCE DESK**
		Town Hall
		Session Chair ***Pablo Boix, ITQ (UPV-CSIC), Spain***
		Session Title **Session 1 – Invited Lectures**
09:00	09:25	17° INVITED LECTURE - **Alex Kwan Yue Jen**, City University of Hong Kong, Hong Kong *Molecular engineering of organic and hybrid materials for highly efficient and stable perovskite solar cells*
09:25	09:50	18° INVITED LECTURE - **Silvia Colella**, CNR-NANOTEC, Italy *Interface engineering of perovskite solar cells*
09:50	10:15	19° INVITED LECTURE - **Shuxia Tao**, Eindhoven University of Technology, The Netherlands *Materials theory of halide perovskites*
10:15	10:40	20° INVITED LECTURE - **Yuanyuan Zhou**, HKUST, Hong Kong *Perovskite microstructural disorder*
10:40	11:20	**COFFEE BREAK AM**
		Town Hall
		Session Chair ***Daniele Meggiolaro, CNR-SCITEC, Italy***
		Session Title **Session 2 – Invited Lectures – VALHALLA**
11:20	11:45	21° INVITED LECTURE - **Daniele Cortecchia**, University of Bologna, Italy *Lasing in 2D perovskites: the critical role of composition and structure*
11:45	12:10	22° INVITED LECTURE - **Annamaria Petrozza**, Istituto Italiano di Tecnologia, Italy *Tin-Halide Perovskite Semiconductors for Near-Infrared Light-Emitting Sources*
12:10	12:35	23° INVITED LECTURE - **Henk Bolink**, UVEG, Spain *Vapor Phase Deposited Perovskite Solar Cells*
12:35	12:40	**Jiří Junek**, Institute of Plasma Physics of the CAS - TOPTEC dept., Czech Republic *Novel time-resolved method for perovskite analysis*
12:40	14:00	**LIGHT BUFFET LUNCH**



		Town Hall	Trumpet
		Henk J. Bolink, UVEG, ES	***Silvia Colella, CNR-NANOTEC, Italy***
Session Chair			
Session Title		**Session 1A – VALHALLA**	**Session 1B – Stability**
14:00	14:12	**Introduction to VALHALLA Project by Prof. Henk J. Bolink**	**Cynthia Farha**, Institut Photovoltaïque d'Île-de-France, France *Evaluating 10×10 CM² perovskite module durability: performance under iec damp heat conditions*
14:12	14:24	**Tadas Malinauskas**, Kaunas University of Technology, Lithuania *Electron and hole selective self-assembling monolayers for perovskite solar cells*	**Hadi Mohammadzadeh**, Fraunhofer ISE, Germany *Pioneering metal-free perovskite solar cells: enhancing carbon electrode performance through post-lamination treatments*
14:24	14:36	**Daniele Meggiolaro**, CNR-SCITEC, Italy *Lattice and photo-stability of metal halide perovskites: a computational perspective*	**Muhammed Salim Kunnummal Mangott**, Institut Photovoltaïque d'Île-de-France, France *Scalable fabrication of efficient FAPbI3 perovskite solar modules using green solvent-based inks*
14:36	14:48	**Isabella Poli**, Istituto Italiano di Tecnologia, Italy *DMSO-Free mixed tin-lead perovskite solar cells with enhanced stability*	**Jongin Huh**, SKKU, South Korea *Fully eco-friendly solvent strategies for scalable, high-performance perovskite solar cells*
14:48	15:00	**Vladimir Held**, University of Valencia - Instituto de Ciencia Molecular, Spain *Insights from the in situ photoluminescence: growth, defect formation, and passivation during perovskite vacuum co-deposition*	**Zijing Dong**, National University of Singapore, Singapore *Thermostable perovskite solar cells enabling operational lifetime over 25 years*
15:00	15:10	**COMFORT BREAK**	
		Town Hall	**Trumpet**
Session Chair		***Yuanyuan Zhou, HKUST, Hong Kong***	**Steve Albrecht, Helmholtz-Zentrum Berlin, Germany**
Session Title		**Session 2A – Tandem PV 1**	**Session 2B – Interface**
15:10	15:22	**Lina Wang**, City University of Hong Kong, Hong Kong *Highly efficient monolithic perovskite/topcon silicon tandem solar cells*	**Yang Lu**, University of Cambridge, United Kingdom *Layer-by-layer heteroepitaxial growth of perovskite heterojunctions*
15:22	15:34	**Han-Ki Kim**, SKKU, South Korea *Isolated plasma soft deposition of NIR transparent IGTO top and bottom electrodes for semi-transparent perovskite solar cells*	**Tianwei Duan**, The Hong Kong University of Science and Technology, Hong Kong *On-Chip Light-Incorporated In Situ Transmission Electron Microscopy for Metal Halide Perovskites*
15:34	15:46	**Kilian Alcocer**, CEA, France *Scalable fabrication of large-area black phase CsPbI3 and inorganic contact layers on 707cm² substrates by PLD*	**Bhavya Rakheja**, Uppsala University, Sweden *Electron transport layer interfaces in inverted perovskite solar cells*
15:46	15: 58	**Xiao Guo**, National University of Singapore, Singapore *Suppressing halide phase segregation in wide-bandgap perovskite for perovskite-organic tandem solar cells*	**Aslihan Babayigit,** Hasselt University, Belgium *Artifact-induced ion gradients during time-of-flight secondary ion mass spectrometry in multilayered stacks of perovskite solar cells*

15:58	16:10	**Deniz Turkay**, EPFL/PV-LAB, Switzerland *Step-by-step evolution of stability: single-junction perovskite to perovskite-SI tandem solar cells*	**Pengfei Guo,** The Hong Kong University of Science and Technology, Hong Kong *Synthesis of a lattice-resolved laminate-structured perovskite heterointerface*
16:10	16:22	**Xuzheng Liu,** Karlsruhe Institute of Technology, Germany *Enhanced charge carrier transport and extraction for perovskite/silicon tandem solar cells*	**Gennaro Vincenzo Sannino**, University of Naples "Federico II", ENEA, Italy *Novel isoindigo derivatives as electron transport materials for perovskite solar cells*
16:22	16:52	**COFFEE BREAK PM**	
		Town Hall	**Trumpet**
		Session Chair **Filippo De Angelis, University of Perugia, Italy**	***Shuxia Tao, Eindhoven University of Technology, The Netherlands***
		Session Title **Session 3A – Tandem PV 2**	**Session 3B – Performance**
16:52	17:04	**Johanna Modes**, INATECH - University of Freiburg, Fraunhofer ISE, Germany *Scalable metal oxide passivation of the perovskite/C60 interface in perovskite-silicon tandem solar cells*	**Hao Mingwei**, The Hong Kong University of Science and Technology, Hong Kong *Nanoscopic cross-grain cation homogenization for high-performance perovskite solar cells*
17:04	17:16	**Kristell Carreric**, CEA INES, France *Up-scaling perovskite growth using hybrid methods for silicon/perovskite tandem solar cells*	**Florian Dupont**, CEA-Leti, France *High-efficiency polycristalline perovskite thin film color-conversion layers for high-brightness and ultrahigh-resolution MicroLED displays*
17:16	17:28	**Theresa Kuechle**, Karlsruhe Institute of Technology (KIT), Germany *Scalable and conformal perovskite-silicon tandem photovoltaics by hybrid 2-step inkjet printing*	**Weidong Xu,** University of Cambridge, United Kingdom *Unveiling the role of nanoscale heterogeneities on charge extraction efficiency in inverted perovskite solar cells*
17:28	18:00	**PSCO CLOSING/AWARDS**	

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