Conference Chairs: Henk Bolink and David Cahen

Conference Program

1st March – Day 1 (Wednesday)	
07.45	Registration Opened
08.45	Opening
	General Session G1 Room: Salón de Actos A
	Chair: Henk Bolink
09.00 G1.I1	Nazeeruddin, Mohammad (Ecole Polytechnique Fédérale de Lausanne) Perovskite Solar Cells: A New Paradigm in Energy Sector
09.30 G1.I2	Herz, Laura (University of Oxford) Hybrid Metal Halide Perovskites: Optoelectronic Properties and Stability
10.00 G1.I3	Hodes, Gary (Weizmann Institute of Science) Stability of Pb- and Sn-based Halide Perovskite PV Cells
10.30	Sponsor talk
10.45	**Coffee break**
	Session A1 Room: Salón de Actos A
	Chair: Germà Garcia Belmonte
11.15 A1.O1	Tarasov, Alexey (Lomonosov Moscow State University) A New Fabrication Strategy of Perovskite Films for Next Generation Solar Cells Using Melts of Novel Precursors
11.30 A1.O2	Ávila, Jorge (Universitat de València) Efficient Wide Band Gap Hybrid Perovskites for Monolithic Tandem Solar Cells
11.45 A1.O3	Grozema, Ferdinand (Delft University of Technology) Multilayer 2D Perovskites with Specific Functionality in the Organic Component
12.00 A1.O4	Giesbrecht, Nadja (Ludwig Maximilian University of Munich) Tuneable Mapbi3 Perovskite Crystal Alignment and their Impact in Optolectronic Applications
12.15 A1.O5	Kazes, Miri (The Weizmann Institute) Nucleation, Growth and Structural Transformations of Perovskite Nanocrystals
12.30 A1.O6	Zohar, Arava (Weizmann institute) Iodine-Doping Effects on MAPbI3 Charge Transport
12.45 A1.O7	Wang, Feng (Linköping University) Benzylamine Modification for Air-Stable and High-Efficiency Perovskite Solar Cells

	Session B1 Room: Salón de Grados G
	Chair: Satoshi Ushida
11.15 B1.O1	Hutter, Eline (Delft University of Technology) Charge Transfer from Methylammonium Lead Iodide Perovskite to Organic Transport Materials: Efficiencies, Transfer Rates and Interfacial Recombination
11.30 B1.O2	Levine, Igal (Weizmann Institute of Science) Mobility-lifetime Products in MAPbI3 Films
11.45 B1.O3	Wolff, Christian M. (Universität Potsdam) Reduced Recombination for High-Open-Circuit Voltages in Perovskite Solar Cells
12.00 B1.O4	Juan A, Anta (Universidad Pablo de Olavide) Whereabouts of recombination in Perovskite Solar Cells
12.15 B1.O5	Pockett, Adam (Swansea University) Understanding Recombination Processes in Perovskite Solar Cells Using Frequency and Time Domain Measurements to Deconvolve Electronic and Ionic Interactions
12.30 B1.O6	Bernard, Geffroy (Université Paris-Saclay) Direct Experimental Evidence of Ionic Migration in Halide Perovskite Films by GDOES Measurements
12.45 B1.O7	Knapp, Evelyne (ICP, ZHAW) Insight into the Transient Behaviour of a Perovskite Solar Cell
13.00 - 15.00	**Lunch**
	General Session H1 Room: Salón de Actos A
	Chair: Filippo de Angelis
15.00 H1.I1	Walsh, Aron (Imperial College London) Frontiers in Materials Modelling of Hybrid Perovskites: Electrons, Phonons and Dynamic Disorder
15.30 H1.I2	Olthof, Selina (Universität zu Köln) UHV Surface Science as Powerful Tool to Unravel Principles and Processes in Hybrid Perovskites
16.00 H1.I3	Miyano, Kenjiro (National Institute for Materials Science) Characterization of Perovskite Photovoltaic Cells with Capacitance Spectroscopy
	Session C1 Room: Salón de Actos A
	Chair: Shi Dong
16.30 C1.O1	Senes, Alessia (TNO) Stability of Perovskite Solar Cells: the Use of Different Stress Conditions to Identify Degradation Pathways
16.45 C1.O2	Smecca, Emanuele (National Research Council of Italy) Revealing a Discontinuity in the Degradation Behaviour Of CH3NH3PbI3 during Thermal Operation

	Session D1 Room: Salón de Grados G
	Chair: Juan Anta
16.30 D1.O1	Dewalque, Jennifer **(**University of Liege) Inverse Opal Photoanodes: Preparation and Optical Properties
16.45 D1.O2	Wang, Tianyi (Institute for Atomic and Molecular Physics, AMOLF) Indirect to Direct Bandgap Transition in Methylammonium Lead Halide Perovskite
17.00 18.30	**Poster Session**
20.30	**Social Dinner**
	2nd March - Day 2 (Thursday)
	General Session G2 Room: Salón de Actos A
	Chair: David Cahen
09.00 G2.I1	Mhaisalkar, Subodh (National Technological University) Multifunctional Cation Incorporated Perovskites and their Photophysical Investigations for High-Stability Solar Cells
09.30 G2.I2	Bisquert, Juan (Universitat Jaume I) Interpretation of Kinetic Processes Governing the Operation of Perovskite Solar Cells
10.00 G2.I3	Buecheler, Stephan (EMPA, Swiss Federal Laboratories for Materials Science and Technology) Halide Perovskite Solar Cells for All-Thin Film Tandem Devices
10.30	Sponsor talk
10.45	**Coffee Break**
	Session A2 Room: Salón de Actos A
	Chair: Ferdinand Grozema
11.15 A2.O1	De Angelis, Filippo (The Institute of Molecular Science and Technologies) Modeling the Photochemistry of Lead Halide Perovskites
11.30 A2.O2	Boyer-Richard, Soline (UMR FOTON, CNRS, INSA) Symmetry-Based Tight Binding Modeling of Halide Perovskite Semiconductors
11.45 A2.O3	Mora-Seró, Iván (Universitat Jaume I) Inductive Loop and Negative Capacitance in Perovskite Solar Cells, not Just an Exotic Behavior

12.00 A2.O4	Sherkar, Tejas S. (University of Groningen) Improving Perovskite Solar Cells: Insights From a Validated Device Model
12.15 A2.O5	Neukom, Martin (Fluxim AG) Explanation for Reduced IV-Curve Hysteresis in Highly Efficient Perovskite Solar Cells
12.30 A2.O6	Uchida, Satoshi (University of Tokyo) Simulation of I-V Curves for Inverted Structure Perovskite Solar Cells using Equivalent Circuit Model with Inductance
12.45 A2.O7	Anaya, Miguel (Consejo Superior de Investigaciones Cient) Optical Design of Perovskite Based Tandem Solar Cells
	Session B2 Room: Salón de Grados G Chair: Mmantsae Diale
11.15 B2.O1	Just, Justus (Helmholtz-Zentrum Berlin) Reaction Pathways and Kinetics during the Formation of Mixed-halide Perovskites by In-situ Optical Spectroscopy Combined with In-situ X-ray Spectroscopy and Diffraction
11.30 B2.O2	Jo, William (Ewha Womans University) Fabrication of Lead-Free MASn(I,Br)3 Solar Cells and Their Stability Probed by Scanning Probe Microscopy
11.45 B2.O3	Safdari, Majid (KTH Royal Institute of Technology) Chemical Structure and Physical Properties of Organic-Inorganic Metal Halide Materials for Solid State Solar Cells
12.00 B2.O4	Pistor, Paul (Catalonian Institute for Energy Research) Structural and Optical Investigation of the Double Perovskite Cs2AgBiBr6
12.15 B2.O5	Aygüler, Meltem (Ludwig Maximilian University of Munich) Effects of Annealing Temperature of Tin Oxide Electron Transport Layers on the Hysteresis of Perovskite Solar Cells
12.30 B2.O6	Hatton, Ross A. (University of Warwick) Enhancing the Efficiency and Stability of CsSnI3 Perovskite Photovoltaics
12.45 B2.O7	Mortan, Claudiu (TU Darmstadt, Surface Science) Perovskite Solar Cells: From Lead (Pb) to Tin (Sn). Spin-coating and Flash Evaporation
13.00 - 15.00	**Lunch**

	General Session H2
	Room: Salón de Actos A
	Chair: Ivan Mora-Sero
15.00 H2.I1	Qi, Yabing (Okinawa Institute of Science and Technology Graduate University) Surface and Interface Aspects of Organic-inorganic Halide Perovskite Solar Cells
15.30 H2.I2	Lovrincic, Robert (Technische Universität Braunschweig) Vibrations in Methylammonium Lead Halide Perovskites: Implications for Electronic Properties and Chemical Analysis
	Session C2
	Room: Salón de Actos A
	Chair: Martin Neukom
16.00 C2.O1	Momblona, Cristina (Universitat de València) Highly Efficient Vacuum Deposited p-i-n and n-i-p Perovskite Solar Cells Employing Doped Charge Transport Layers
16.15 C2.O2	Senders, Simon (RWTH Aachen University) Fabrication of Organometal Halide Perovskite Layers via Chemical Vapor Deposition
16.30 C2.O3	Berson, Solenn (Commissariat à l'Énergie Atomique et aux Énergies Alternatives) Perovskite/Silicon Tandem Solar Cells: Elaboration of the Transparent P-type Interfacial Layer and Transparent front Electrode
16.45 C2.O4	Palazon, Francisco (Istituto Italiano di Tecnologia) Fully Inorganic Perovskite Nanocrystal Inks for High-voltage Solar Cells
	Session D2
	Room: Salón de Grados G
	Chair: Alexey Tarasov
16.00 D2.O1	Sastre-Santos, Angela (Universidad Miguel Hernández) Perylenediimides and Phthalocyanines as Components in Perovskite Solar Cells
16.15 D2.O2	Hadipour, Afshin (IMEC) Solution-processed Metal Oxide Based Charge Extraction Buffer Layers at low Temperatures for Efficient and Stable Perovskite Solar Cells
16.30 D2.O3	Molina-Ontoria, Agustin (IMDEA Nanociencia) Molecular Engineering of Thiophene-rich Hole.Transporting Materials for Perovskite Solar Cells
16.45 D2.O4	Shi, Dong (University of Electronic Science and Technology of China) Enhanced Photovoltaic Merits in Perovskites and Spiro-OMeTAD Single Crystals
17.00	**Closing**

POSTERS

4563	Ludmila Cojocaru, Satoshi Uchida, Piyankarage V. V. Jayaweera, Shoji Kaneko, Jotaro Nakazaki, Takaya Kubo, Hiroshi Segawa	Physical Modeling of Hysteretic Behavior in I-V Curves of Perovskite Solar Cells
4564	Sudeep Maheshwari, Nicolas Renaud, Tom Savenije, Ferdinand Grozema	New designs of 2-D Lead iodide perovskites
4580	Gregorio García, Pablo Palacios, Ana Montejo-Alejo, Eduardo Menendez-Proupin, José Carlos Conesa, Perla Wahnón	Point Defect Impact on the Electronic Structure of Perovskite CH3NH3PbI3 from Fist Principles Quantum Calculations
4583	Clara Aranda, Antonio Guerrero	Reproducible Hybrid Halide Perovskites Solar Cells with High Efficiencies Fabricated in Ambient Conditions by Solvent and Additives Engineering
4587	Antonio Guerrero	Interfacial Reactivity Limits Perovskite Solar Cell Stability
4588	Eva M. Barea, Naemeh Aeineh, Iván Mora-Seró	Transformation of PbI2, PbBr2 and PbCl2 Salts into MAPbBr3 Perovskite by Halide Exchange as an Effective Method for Recombination Reduction
4593	Hiba Diab, Gaelle Trippé-Allard, Ferdinand Lédée, Khaoula Jemli, Christèle Vilar, Guillaume Bouchez, Vincent L. R. Jacques, Antonio Tejeda, Jacky Even, Jean-Sébastien Lauret, Emmanuelle Deleporte, Damien Garrot	Excitonic Emission and Electron-Phonon coupling in Organic-Inorganic Lead Iodide Perovskite single crystals
4594	Satyajit Gupta, Tatyana Bendikov, Gary Hodes, David Cahen	Optoelectronic and Structural Effects of SnF2 on Tin Halide Perovskites
4596	Markus Becker, Michael Wark	Morphology control of CH3NH3PbI3 layers for planar perovskite solar cells
4607	Javad Shamsi, Ahmed Abdelhady, Sara Accornero, Milena Arciniegas, Luca Goldoni, Ajay Kandada Kandada, Annamaria Petrozza, Liberato Manna	N-Methylformamide as a Source of Methylammonium Ions in the Synthesis of Lead Halide Perovskite Nanocrystals and Bulk Crystals
4608	Valero G. Alfonso, Rafael S. Sánchez, Elena Mas-Marzá	Light-induced crystal phase transition of lead halide perovskite: implications in the photovoltaic performance
4610	Carlos Echeverría-Arrondo, Sandheep Ravishankar, Juan Bisquert	Surface polarization model for dynamical hysteresis in perovskite solar cells
4611	Osbel Almora, Germà Garcia-Belmonte	Capacitive and Noncapacitive Hysteretic Currents in Perovskite Solar Cells
4612	Dengyang Guo, Haotong Wei, Jinsong Huang, Tom Savenije	Structure Dependent Charge Carrier Dynamics in (CH3NH3)PbBr3 Single Crystals

4613	Claudia Hartmann, Satyajit Gupta, Xeniya Kozina, Thomas Kunze, Gary Hodes, Roberto Félix, Regan G. Wilks, David Cahen, Marcus Bär	The chemical and electronic properties of inorganic lead-free CsSnX3 perovskites: Impact of SnF2 treatments, halide composition, and deposition route
4618	María Gélvez-Rueda, Eline Hutter, Duyen Cao, Nicolas Renaud, Constantinos Stoumpos, Joseph Hupp, Tom Savenije, Mercouri Kanatzidis, Ferdinand Grozema	Charge Transport and Excited State Dissociation in 2D Hybrid Lead Halide Perovskites
4619	Nuria Vicente, Germà Garcia-Belmonte	Lead Bromide Perovskite Fast Ionic Conductor for High-Power Charge Storage Battery Anodes
4626	Hye Ri Jung, Bich Phuong Nguyen, Trang Thi Thu Nguyen, Seokhyun Yoon, William Jo	Electronic Structure of MAPbBr3 Single Crystals Probed by Photoluminescence and Surface Potentials
4627	Alberto García-Fernández, Juan Manuel Bermúdez-García, Valero G. Alfonso, Zahra Moradi, Elena Mas-Marzá, Socorro Castro-Garcia, Manuel Sanchez-Andujar, Francisco Frabegat-Santiago, Maria Antonia Señaris-Rodriguez	Large values of dielectric constant on MAPbI3 compound induced by moisture
4631	Juan Ramon Sanchez-Valencia, Ana Borras, Jesus Idigoras, Juan Antonio Anta, Angel Barranco	One-Dimensional Organometal halide perovskite nanostructures fabricated by vacuum sublimation
4633	Elnaz Ghahremanirad, Saeed Olyaee, Kambiz Abedi, Vahid Ahmadi	Enhanced Light Confinement in Perovskite Solar Cells by Incorporating Plasmonic Nanorings
4636	Ralph Dachauer, Islam Elhelaly, Carolin Wittich, Michael Wußler, Christian Hoyer, Christian Ondobo, Tim Hellmann, Hans Köbler, Claudiu Mortan, Kerstin Lakus-Wollny, Oliver Clemens, Alexander Beneš, Christoph Loho, Mohammad Ali Nowroozi, Eric Mankel, Thomas Mayer, Wolfram Jaegermann	Closed Space Sublimation for lead and tin based perovskites
4650	Michael Wussler, Tim Hellmann, Islam Elhelaly, Claudiu Mortan, Hans Koebler, Ralph Dachauer, Carolin Wittich, Thomas Mayer, Chittaranja Das, Wolfram Jaegermann	Interface studies on lead and tin based perovskite solar cells
4653	Mmantsae Diale, Matshisa Legodi, John Rosenberg, David Cahen	Deep Level Transient Spectroscopy of Methylammonium lead bromide perovskite solar cells
4691	Andrey Petrov, Alexey Tarasov, Eugene Goodilin, Michael Graetzel	New insight into the formation of hybrid perovskite nanowires via structure directing adducts
4694	Luis Ono, Zafer Hawash, Sonia Raga, Emilio Juarez-Perez, Matthew Leyden, Yuichi Kato, Mikas Remeika, Shenghao	Spiro-MeOTAD Hole Transport Layer in Perovskite-based Solar Cells

	Wang, Michael Lee, Andrew Winchester, Atsushi Gabe, Yan Jiang, Yabing Qi	
4749	Zhuoneng Bi, Xueqing Xu, Kai Gao	A Fast Spray Deposition Approach for Perovskite Planar Solar Cells Based on HC(NH2)2PbI3
4769	Eline Hutter, Maria Gelvez-Rueda, Anna Osherov, Vladimir Bulovic, Ferdinand Grozema, Samuel Stranks, Tom Savenije	Direct-Indirect Character of the Band Gap in Methylammonium Lead Iodide Perovskite
4778	Sebastian Feihl, Nicola Gasparini, Gebhard Matt, Thomas Kunz, Michael Multerer, Christoph Brabec, Carl-Albrecht Schiller	Complementing Intensity Modulated Photo Spectroscopy Applied on Organic Solar Cells with Fast Intensity Transient Measurements
4787	Marta Valles-Pelarda, Eya Belarbi, Bruno Clasen Hames, Rafael S. Sanchez, Eva M. Barea, Hager Maghraoui-Meherzi, Ivan Mora-Sero	MAPbBr3 Perovskite Prepared by Halide Exchange
4788	Thi Tuyen Ngo, Isaac Suarez, Gabriella Antonicelli, Diego Cortizo-Lacalle, Juan P. Martinez-Pastor, Aurelio Mateo-Alonso, Ivan Mora-Sero	Performance Improvement of Perovskite Optoelectronic Devices by the Passivation Perovskite Layer Through Anti-solvent Additive Deposition
4789	Bruno Clasen Hames, Rafael Sánchez Sánchez, Iván Mora Seró	Study and Characterization of Light-Emitting Diodes Based on All Inorganic Perovskite Nanoparticles
4791	Julian Steele, Haifeng Yuan, Maarten Roeffaers, Johan Hofkens	High-temperature Raman and XRD study of oxygen intercalation during δ to α transition in formamidinium lead iodide
4880	Tomoyasu Yokoyama, Michio Suzuka, Yoshiko Miyamoto, Takeyuki Sekimoto, Ryusuke Uchida, Kenji Kawano,	The bandgap narrowing of organic-inorganic hybrid perovskite by the orientation of organic cations
4912	Fabio Gabelloni, Francesco Biccari, Erica Burzi, Massimo Gurioli, Sara Pescetelli, Antonio Agresti, Aldo Di Carlo, Francesco Bonaccorso, Emmanuel Kymakis, Anna Vinattieri	Probing graphene-based electron transport layer in perovskite solar cells by photoluminescence spectroscopy
4957	Pilar Lopez-Varo, Juan Antonio Jimenez-Tejada, Manuel Garcia-Rosell, Juan Bisquert	Effect of Anions and Cations on the Performance of Perovskite Solar Cells
4958	Damien Baron, Jennifer Dewalque, Catherine Henrist, Jérôme Loicq	Photonic Photoanode for Macroporous Perovskite Solar Cells
4962	Fabio Gabelloni, Giulia Andreotti, Francesco Biccari, Massimo Gurioli, Alessio Milanesi, Stefano Caporali, Marco Pagliai, Anna Vinattieri	Exciton Recombination Kinetics in High Quality CsPbBr3 Thin Films.

4969	Giulia Longo, Laura Martinez-Sarti, Maria-Grazia La-Placa, Michele Sessolo, Henk J. Bolink	Enhanced Photo- and electroluminescence in CH3NH3PbBr3-organic semiconductor Blends
4973	Daniel Pérez-del-Rey, Michele Sessolo	Strontium Insertion in Methylammonium Lead Iodide: Long Charge Carrier Lifetime and High Fill-Factor Solar Cells
4974	Laura Martínez-Sarti, Azin Babaei, Maria-Grazia La-Placa, Giulia Longo, Michele Sessolo, Henk J. Bolink	Quasi 2D Perovskite with PLQY Exceeding 80%
4976	Laura Martínez-Sarti, Teck Ming Koh, Maria-Grazia La-Placa, Pablo P. Boix, Michele Sessolo, Subodh G. Mhaisalkar, Henk J. Bolink	Efficient Photoluminescent Thin Films Consisting of Anchored Hybrid Perovskite Nanoparticles
4978	Justus Just, Klara Suchan, Pascal Becker, Charles J. Hages, Eva L. Unger, Thomas Unold	Reaction Pathways and Kinetics during the Formation of Mixed-halide Perovskites by In-situ Optical Spectroscopy combined with In-situ X-ray Spectroscopy and Diffraction
4979	Ehsan Hassanabadi, Niccolò Carlino, Paolo Bettotti, Masoud Latifi, Ivan Mora-Sero	Deposition of High Quality Halide Perovskite Films on Nanocellulose Substrates
4987	Thumu Udayabhaskararao, Miri Kazes, Lothar Houben, Ayelet Teitelboim, Dan Oron	Synthesis and optical properties of Cs4PbX6 nanocrystals

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