Interfaces in Organic and Hybrid Thin-Film Optoelectronics (INFORM)

València, Spain, 2019 March 5th - 7th
Conference Chairs: Natalie Stingelin, Henk Bolink and Michele Sessolo

Conference Program

March 5th - Day 1 (Tuesday)	
07:45 - 08:45	**Registration**
08:45 - 09:00	**Opening and announcement of the day**
	Session 1.1 Chair: Henk Bolink
09:00 - 09:30 1.1-I1	Mohammad Nazeeruddin *(École Polytechnique Fédérale de Lausanne EPFL, CH)* T.B.A
09:30 - 09:45 1.1-O1	Giulia Longo *(Department of Physics, University of Oxford)*, Suhas Mahesh, Jongchul Lim, Pabitra Nayak, Henry J. Snaith Vacuum-deposited Cs2AgBiBr6. Photovoltaic devices and fundamental characterization.
09:45 - 10:15 1.1-I2	Hernán Míguez *(Multifunctional Optical Materials Group, Instituto de Ciencia de Materiales de Sevilla, Consejo Superior de Investigaciones Científicas-Universidad de Sevilla)*, Laura Calió, Andrea Rubino, Mauricio E. Calvo Perovskite Nanocrystals in Mesostructured Media: from materials to devices
10:15 - 10:30 1.1-O2	Nico Leupold, Maximilian Schulz, Konstantin Schötz, Ralf Moos, Fabian Panzer *(Soft Matter Optoelectronics, University of Bayreuth, Bayreuth 95447, Germany)* A completely Solvent free Route for Hybrid Perovskite Film Processing Based on Pressure Treatment of Perovskite Powders – Decoupling Material Synthesis and Film Formation
10:30 - 11:00	**Coffee Break**
	Session 1.2
11:00 - 11:30 1.2-I1	Tae-Woo Lee *(Department of Materials Science and Engineering, Seoul National University)*, Min-Ho Park, Su-Hun Jeong, Himchan Cho Overcoming Fundamental Limitations for High-Efficiency Polycrystalline Perovskite Light-Emitting Diodes
11:30 - 11:45 1.2-O1	Iván Mora-Seró *(Institute of Advanced Materials (INAM), Universitat Jaume I, 12006 Castelló, Spain)* Different Strategies for Engineering of Halide Perovskite Interfaces
11:45 - 12:15 1.2-I2	Liberato Manna *(Department of Nanochemistry, Istituto Italiano di Tecnologia,Via Morego 30, 16163 Genova (Italy))* The Surface Chemistry of Colloidal Lead Halide Perovskites Nanocrystals
12:15 - 12:45 1.2-I3	Pablo P. Boix *(Instituto de Ciencia Molecular, Universidad de Valencia, C/ J. Beltrán 2, 46980, Paterna, Spain)*, Daniel Pérez-del-Rey, Ana M. Gil-Muñoz, Jorge Ávila, Benedikt Dänekamp, Michele Sessolo, Henk J. Bolink Interfacial engineering for single and multijunction vacuum-deposited perovskite solar cells
12:45 - 13:00 1.2-O2	Henry Herbol *(Johns Hopkins University)*, Matthias Poloczek, Paulette Clancy Taming the Large Combinatorial Species Space for Hybrid Organic-Inorganic Perovskites via Bayesian Optimization
13:00 - 15:00	**Lunch**
	session 1.3
15:00 - 15:30 1.3-I1	Georges Hadziioannou *(Laboratoire de Chimie des Polymères Organiques, CNRS - ENSCPB - Université de Bordeaux)* High Performance Polymer and Polymer/Inorganic Thermoelectric Materials

15:30 - 15:45 1.3-O1	Karen Strassel *(Empa – Swiss Federal Laboratories for Materials Science and Technology, Überlandstr. 129, CH-8600 Dübendorf, Switzerland)*, Santhanu Panikar Ramanandan, René Schneider, Frank Nüesch, Roland Hany All-Solution-Processed Organic Upconversion Device Comprising a Light-Emitting Electrochemical Cell
15:45 - 16:00 1.3-O2	Juozas Vidas Grazulevicius *(Kaunas University of Technology)*, Galyna Sych, Oleksandr Bezvykonnyi, Dmytro Volyniuk, Gintare Grybauskaite-Kaminskiene, Khrystyna Ivaniuk, Pavlo Stakhyra Exploitation of interface exciplexes towards highly efficient organic light-emitting devices
16:00 - 16:30 1.3-I2	Henry Snaith *(University of Oxford, GB)* T.B.A
16:30 - 16:45 1.3-O3	Juan Bisquert *(Institute of Advanced Materials INAM. Universitat Jaume I. Castelló. Spain)* Interfacial phenomena governing kinetics of perovskite solar cells
16:45 - 17:00 1.3-O4	Gustavo de Miguel *(Departamento de Química Física y Termodinámica Aplicada, Instituto Universitario de Investigación en Química Fina y Nanoquímica IUQFN, Universidad de Córdoba, Campus de Rabanales, Edificio Marie Curie, Córdoba, Spain)* Large guanidinium cation mixed with methylammonium in lead iodide perovskites for 19% efficient solar cells
17:00 - 17:15 1.3-O5	Francisco Palazon *(Instituto de Ciencia Molecular, Universidad de Valencia, C/ J. Beltrán 2, 46980, Paterna, Spain)*, Yousra El Ajjouri, Michele Sessolo, Henk J. Bolink Perovskites and Beyond: Dry Mechanochemical Synthesis of Multinary Metal Halides
17:15 - 17:30 1.3-O6	Silvia Motti *(Department of Physics, University of Oxford)*, Timothy Crothers, Rong Yang, Jianpu Wang, Laura Herz Energy Cascades in Mixed-Phase Perovskite Thin Films: Charge-Carrier Dynamics and Mobilities
17:30 - 17:45	
17:45 - 19:00	**Poster Session**

March 6th - Day 2 (Wednesday)

08:55 - 09:00	**Announcement of the Day**
	Session 2.1
09:00 - 09:30 2.1-I1	Seth Marder *(School of Chemistry and Biochemistry, School of Materials Science and Engineering, and Center for Organic Photonics and Electronics, Georgia Institute of Technology, Atlanta, GA 30332-0400 USA)* Interface Chemistry for Organic Electronics and Opto-electronics
09:30 - 09:45 2.1-O1	Elham Khodabakhshi *(Max Planck Institute for Polymer Research, Ackermannweg10, 55128 Mainz, Germany)*, Benjamin Klöckner, Jasper Michels, Rudolf Zentel, Paul Blom Suppression of electron trapping by quantum dot emitters using a grafted polystyrene shell
09:45 - 10:00 2.1-O2	Sangyoon Oh, Sang Kyu Park, Larry Lüer, Reinhold Wanemacher, Roland Resel, Soo Young Park, Johannes Gierschner *(Madrid Institute for Advanced Studies, IMDEA Nanoscience, Madrid, Spain)* Interfacing in Highly Luminescent Organic Charge-Transfer Co-Crystals
10:00 - 10:30	
10:30 - 11:00	**Coffee Break**
	Session 2.1
11:00 - 11:30 2.1-I1	Thuc-Quyen Nguyen *(Center for Polymers and Organic Solids and Department of Chemistry & Biochemistry, University of California, Santa Barbara, CA 93106, USA)* Doping of Conjugated Polymers by Lewis Acids
11:30 - 11:45 2.1-O1	Sophia Hayes *(Department of Chemistry, University to Cyprus)*, Elham Rezasoltani, Anthony Parker, Igor Sazanovich, Mike Towrie, Alise Virbule, Jenny Nelson, Michelle Vezie Evidence for Charged Species Formation in High Persistence Length Organic Semiconductors in Solution
11:45 - 12:15 2.1-I2	Demetra Tsokkou, Lisa Peterhans, David Xi Cao, Cheng-Kang Mai, Guillermo C. Bazan, Thuc-Quyen Nguyen, Natalie Banerji *(Department of Chemistry and Biochemistry, University of Bern, Freiestrasse 3, 3012 Bern, Switzerland)* Ultrafast Properties of a Self-Doped Conjugated Polyelectrolyte

12:15 - 12:30 2.1-O2	Matthew Dyson *(Molecular Materials and Nanosystems, Eindhoven University of Technology, P.O. Box 513, 5600 MB Eindhoven, Netherlands)*, Eirini Lariou, Jaime Martin, Ruipeng Li, Harikrishna Erothu, Guillaume Wantz, Paul Topham, Olivier Dautel, Sophia Hayes, Paul Stavrinou, Natalie Stingelin Managing Local Order in Conjugated Polymer Blends via Polarity Contrast
12:30 - 13:00 2.1-I3	Anna Köhler *(Soft Matter Optoelectronics, University of Bayreuth, 95440, Bayreuth, Germany)* Understanding and controlling aggregate formation during spin coating
13:00 - 15:00	**Lunch**
	Session 2.3
15:00 - 15:30 2.3-I1	Philip Schuz *(CNRS, Institut Photovoltaïque d'Île de France (IPVF), UMR 9006)* Photoemission Spectroscopy for Halide Perovskites Semiconductors
15:30 - 15:45 2.3-O1	Pietro Caprioglio *(University of Potsdam Institut für Physik und Astronomie Physik weicher Materie, Potsdam)*, Saul Daniel Cruz Lemus, Sabastian Caicedo-Davila, Martin Stolterfoht, Christian M. Wolff, Daniel Abu-Ras, Markus Antonietti, Bernd Rech, Steve Albrecht, Dieter Neher Interfacial Design through Poly-Ionic Liquid Surface Modification in Efficient pin Perovskite Solar cells
15:45 - 16:00 2.3-O2	Jaime Martín *(POLYMAT, University of the Basque Country UPV/EHU Avenida de Tolosa 72, 20018 Donostia-San Sebastián, Spain)*, Daniele Cangialosi, Natalie Stingelin Determining the Absolute Composition of Intermixed Domains in OPV cells by Fast Scanning Calorimetry
16:00 - 16:30 2.3-I2	Dargie Deribew, Axel Hedengren, Leif Ericsson, Ellen Moons *(Karlstad university)* Interface engineering by hole transport materials in polymer solar cells
16:30 - 16:45 2.3-O3	Tao Zhang, Dana Dement, Vivian Ferry, Russell Holmes *(Department of Chemical Engineering and Materials Science, University of Minnesota, Minneapolis, MN 55455, United States)* Intrinsic Measurements of Exciton Transport in Photovoltaic Cells
16:45 - 17:00 2.3-O4	Jaemin Lee *(University of Warwick, Department of Chemistry)*, Ross Hatton Dramatically improving the stability of transparent silver electrodes for high performance organic photovoltaics using a molecular monolayer
17:00 - 17:15 2.3-O5	Marta Ruscello *(InnovationLab, Heidelberg)*, Tanmoy Sarkar, Artem Levitski, Giovanni Maria Matrone, Nikolaos Droseros, Stefan Schlisske, Eleni Sachs, Patrick Reiser, Eric Mankel, Wolgang Kowalsky, Natalie Banerji, Natalie Stingelin, Gitti L. Frey, Gerardo Hernandez-Sosa Beneficial Interaction between nickel oxide nanoparticles and polyethylene oxide as printable nanocomposite hole injection layer for organic solar cells
17:15 - 17:30 2.3-O6	Bert Nickel *(Ludwig-Maximilians-University, Physics & CENS, Geschwister-Scholl-Platz 1, 80539 München, Germany)*, Batuhan Kalkan, Antony George, Andrey Turchanin Organic Nanosheet Transfer for Hybrid 2D/3D Devices
17:30 - 19:00	**Poster Session**
20:30 - 23:00	**Social Diner**
March 7th - Day 3 (Thursday)	
08:55 - 09:00	**Announcement of the Day**
	Session 3.1
09:00 - 09:30 3.1-I1	Claudia Draxl *(Institut für Physik & IRIS Adlershof, Humboldt-Universität zu Berlin, Berlin, Germany)* Theoretical spectroscopy at hybrid interfaces
09:30 - 09:45 3.1-O1	Mamatimin Abbas *(CNRS, University Bordeaux, Bordeaux INP, France)*, Abdulaziz Ablat, Adrica Kyndiah, Alexandre Bachelet, Kazuo Takimiya, Lionel Hirsch, Sophie Fasquel Low optical turn-on voltage in solution processed hybrid light emitting transistor
09:45 - 10:15 3.1-I2 10:15 - 10:30	David Cahen *(Institute of Nanotechnology and Advanced Materials, Bar Ilan University, ISRAEL)* Some basics to solve riddles of Halide Perovskites
10:30 - 11:00	**Coffee Break**

	Session 3.2
11:00 - 11:30 3.2-I1	Gert-Jan Wetzelaer *(Max Planck Institute for Polymer Research, Ackermannweg 10, 55128 Mainz, Germany)* Charge Injection and Transport in Organic Semiconductors
11:30 - 11:45 3.2-O1	Simon Züfle *(Institute of Computational Physics, ZHAW)*, Martin Neukom, Sandra Jenatsch, Beat Ruhstaller Comprehensive Analysis of Third-Generation Solar Cells Supported by Drift-Diffusion Simulations
11:45 - 12:15 3.2-I2	Kristofer Tvingstedt *(Experimental Physics VI, Julius Maximillian University of Würzburg, 97074 Würzburg, Germany)* Impact of interfaces and active layer thickness on the assignment of charge carrier recombination dynamics in thin film solar cells.
12:15 - 12:30 3.2-O2	Mehrad Ahmadpour *(SDU NanoSYD, Mads Clausen Institute, University of Southern Denmark)*, André L. F. Cauduro F. Cauduro, Mina Mirsafaei, John Lundsgaard Hansen, Brian Julsgaard, Horst-Günter Rubahn, Peter Balling, Nadine Witkowski, Andreas K. Schmid, Morten Madsen Crystalline metal oxide contact layers in organic and hybrid photovoltaics
12:30 - 13:00	**Closure**

Poster Contribution

002	Sooraj Kumar *(Undergraduate student(Department of Ceramic Engineering, IIT BHU, Varanasi))*, Md. Imteyaz Ahmad Rapid Thermal Processing of Absorber Layer (FAPbI3) and Compact-TiO2 Layer of Perovskite Solar Cell.
006	Ankur Solanki *(Nanyang Technological University (NTU), Singapore)*, Pankaj Yadav, Silver Tureen, Swee Sien Lim, Saliba Michael, Tze Chien Sum The role of inorganic cations (Cs+ and Rb+) on charge carrier dynamics in perovskite solar cells
009	Denys Priadko *(Soft Matter Optoelectronics, University of Bayreuth, 95440, Bayreuth, Germany)*, Christina Saller, Frank-Julian Kahle, Thomas Müller, Tobias Hahn, Steffen Tscheuschner, Peter Strohriegl, Heinz Bässler, Anna Köhler Studying interlayer molecular diffusion in donor-acceptor systems
010	Eirini Lariou *(Department of Chemistry, University of Cyprus, Nicosia, Cyprus)*, Giovanni Maria Matrone, Natalie Stingelin, Hazem Bakr, Konstantin Schötz, Fabian Panzer, Anna Köhler, Sophia C.Hayes Temperature Dependent Structural Evolution of PCE11
011	Roghayeh Imani *(Experimental Physics-Department of Engineering Sciences and Mathematics, Luleå University of Technology 971 87 Luleå, Sweden)*, Zhen Qiu, Reza Younesi, Meysam Pazoki, Daniel L. A. Fernandes, Pavlin D. Mitev, Tomas Edvinsson, Haining Tian Perovskite solar cells powered electrochemical cell for efficient CO2 conversion into hydrocarbons over Cu-based catalyst: in-situ monitoring of catalyst deformation
012	Shengyang Chen *(Centre for Plastic Electronics, Department of Materials, Imperial College London, South Kensington Campus, London SW7 2AZ, United Kingdom)*, Bastian Haehnle, Ioan Botiz, Alexander J.C. Kuehne, Paul Stavrinou, Natalie Stingelin How Can We Engineer Hierarchical Structures and Pattern Functional Organic Materials?
013	Mihirsinh Chauhan *(Soft Matter Optoelectronics, University of Bayreuth, Bayreuth 95447, Germany)*, Yu Zhong, Sven Hüttner, Anna Köhler, Fabian Panzer Understanding film formation of hybrid perovskites: Optical in situ characterization of MAPbI3 thin film formation during solution processing
019	Sofia Masi *(Institute of Advanced Materials (INAM), Universitat Jaume I, 12071 Castelló, Spain)* Room-temperature processed films of colloidal carved rod-shaped nanocrystals of reduced tungsten oxide as interlayers for perovskite solar cells
025	Antonio Guerrero *(Institute of Advanced Materials (INAM), Universitat Jaume I, 12006 Castelló, Spain)* Control of Defect Chemistry and ionic conductivity measurements in Leads Halide Perovskites
026	Agustín Bou *(Institute of Advanced Materials (INAM), Universitat Jaume I, 12006 Castelló, Spain)*, Bisquert Juan Surface Polarization in Perovskite Solar Cells and Inductive Loop in their Impedance Spectroscopy Response

029	Xiao Ma *(Molecular Materials and Nanosystems Group, Technical University of Eindhoven, Netherlands)*, Giulio Simone, Matt Dyson, Koen Hendriks, René Janssen, Gerwin Gelinck High Detectivity Near-Infrared Organic Photodiodes
030	Giovanni Maria Matrone *(Centre for Plastic Electronics, Department of Materials, Imperial College London, South Kensington Campus, London SW7 2AZ, United Kingdom)*, artem Levitsky, fabian panzer, konstantin Schotz, felix Thouin, ilaria bargigia, sebastian engmann, carlos silva, anna kohler, gitti frey, lee j. richter, natalie stingelin Beyond a facile definition of phase separation — A polymer science approach to predict and manipulate the morphology of bulk heterojunctions solar cells.
032	Marisé García-Batlle *(Institute of Advanced Materials INAM. Universitat Jaume I. Castelló. Spain)*, Osbel Almora, Germà García-Belmonte RELIABILITY OF ADMITTANCE TECHNIQUES TO EVALUATE GAP DEFECT DENSITIES IN PHOTOVOLTAIC PEROVSKITE MATERIALS
033	Jesús Rodríguez-Romero *(Institute of Advanced Materials INAM. Universitat Jaume I. Castelló. Spain)*, Bruno Clasen Hames, Iván Mora-Seró, Eva M Barea Effect of the fabrication´s temperature in morphological and electrical properties of 2D/3D perovskites
035	Tanmoy Sarkar *(Department of Materials Engineering, Technion-Israel Institute of Technology)*, Basel Shamieh, Gitti Frey, Gerwin Gelinck Self-segregated interlayers in organic field effect transistors
037	Dmytro Volyniuk *(Department of Polymer Chemistry and Technology, Kaunas University of Technology, Radvilenu rd. 19, LT-50254, Kaunas, Lithuania.)*, Galyna Sych, Oleksandr Bezvikonnyi, Juozas Vidas Grazulevicius Versatile exciplex-forming materials for simplified non-doped white OLEDs based on dual interface emission
040	Konstantin Schötz *(Soft Matter Optoelectronics, University of Bayreuth, Bayreuth 95447, Germany)*, Abdelrahman Askar, Wei Peng, Dominik Seeberger, Tanaji P. Gujar, Mukundan Thelakkat, Sven Hüttner, Osman Bakr, Karthik Shankar, Anna Köhler, Fabian Panzer Unravelling the origin of double peak emission of hybrid perovskites
044	Vittal Prakasam *(Holst Centre, High Tech Campus 31, Eindhoven, Netherlands)*, Daniel Tordera, Gerwin Gelinck, henk Bolink Device Stability of Perovskite Light-Emitting Diodes
048	Benedikt Dänekamp *(Instituto de Ciencia Molecular, Universidad de Valencia, C/ Catedrático J. Beltrán 2, 46980 Paterna, Spain)*, Nikolaos Droseros, Christian Müller, Michael Sendner, Francisco Palazon, Robert Lovrinčic, Natalie Banerji, Michele Sessolo, Henk Bolink Photo physical properties of stoichiometrically tuned methylammonium lead iodide (MAPI) films
054	Ana María Igual-Muñoz *(Universidad de Valencia - ICMol (Institute of Molecular Science))*, Henk Bolink, Pablo P.Boix Tin-lead perovskite synthesized through sublimation methods as the absorber of a solar cell
057	Jan Pospisil, Oldrich Zmeskal, Stanislav Nespurek, Jozef Krajcovic, Martin Weiter, Alexander Kovalenko *(Brno University of Technology, Faculty of Chemistry, Materials Research Centre, Purkyňova 118, 612 00 Brno, Czech Republic)* Density of bulk trap states of hybrid lead halide perovskite single crystals: temperature modulated space-charge-limited-currents
060	Sergio Castro-Hermosa *(CHOSE (Centre for Hybrid and Organic Solar Energy), Department of Electronic Engineering, University of Rome Tor Vergata, Via del Politecnico 1, 00133 Rome, Italy)*, Janardan Dagar, Matteo Gasbarri, Fabio Matteocci, Alessandro Lorenzo Palma, Emanuele Calabrò, Lucio Cina, Andrea Marsella, Aldo Di Carlo, Thomas Meredith Brown Effective Low Temperature Electron Transport Layers for Flexible Perovskite Solar Cell on Plastic and Paper Substrates
061	Maria Grazia La Placa *(Instituto de Ciencia Molecular, Universidad de Valencia, C/ Catedrático J. Beltrán 2, 46980 Paterna, Spain)*, Daniel Pérez-del-Rey, Lidon Gil-Escrig, Michele Sessolo, Henk J. Bolink Ultrathin Films as Cathode Interfaces in Efficient Vacuum Deposited Perovskite Solar Cells
062	Nikolaos Droseros *(Department of Chemistry and Biochemistry, University of Bern, Freiestrasse 3, CH-3012 Bern, Switzerland)*, Giulia Longo, Jan C. Brauer, Michele Sessolo, Henk J. Bolink, Natalie Banerji Correlation between the Photoluminescence Properties and the Crystal size in MAPbBr3 Perovskite Thin Films

063	Matthias Diethelm *(Empa, Swiss Federal Laboratories for Materials Science and Technology, Laboratory for Functional Polymers, 8600 Dübendorf, Switzerland)*, Quirin Grossman, Maciej Kawecki, Balthasar Blülle, Sandra Jenatsch, Andreas Schiller, Evelyne Knapp, Frank Nüesch, Roland Hany Unravelling the Dynamic Evolution of the Emission Zone in Sandwich Polymer Light-Emitting Electrochemical Cells
067	Junqing Shi, Anna Isakova, Abasi Abudulimu *(Madrid Institute for Advanced Studies, IMDEA Nanoscience, Calle Faraday 9, Campus Cantoblanco, 28049 Madrid, Spain)*, Marius van den Berg, Oh Kyu Kwon, Alfred J. Meixner, Soo Young Park, Dai Zhang, Johannes Gierschner, Larry Luer Photoexcitation Dynamics of Solution-processable All-small-molecule Bulk Heterojunction Photovoltaic Blends
074	Sara Marina *(POLYMAT, University of the Basque Country UPV/EHU, Avenida de Tolosa 72, 20018 Donostia-San Sebastián, Spain)*, Jaime Martin Exploring the Microstructure and Thermotropic Phase Behaviour of ITIC.
075	Timur Burganov *(Arbuzov Institute of Organic and Physical Chemistry, FRC Kazan Scientific Center of RAS, Arbuzov st. 8, 420088 Kazan, Russia)*, Sergey Katsyuba, Liliya Islamova, Guzel Fazleeva, Alexey Kalinin, Andreas Köhn Insight into the peculiarities of the excited state properties in the series of novel donor-acceptor indolizine-based systems