International Conference on Advances in Organic and Hybrid Electronic Materials (AOHM19)

Dubrovnik, Croatia, 2019 March 17th - 20th

Conference Chairs: Alejandro Briseno, Thuc-Quyen Nguyen and Natalie Stingelin

Conference Program

March 17th - Day 1 (Sunday)		
17:00 - 19:00	Registration	
17:30 - 18:30	Welcome drink	
March 18th	- Day 2 (Monday)	
08:55 - 09:00	Opening and Announcement of the Day	
	Session 1.1 Chair: Thuc-Quyen Nguyen	
09:00 - 09:30 1.1-O1	<u>David Jones</u> (School of Chemistry, Bio21 Institute, University of Melbourne, , Parkville, VIC 3010, Australia.) Liquid Crystallinity as a pre-organisation motif for high efficiency, solid-state singlet fission	
09:30 - 10:00 1.1-l1	Garry Rumbles (Chemistry and Nanoscience National Renewable Energy Laboratory) Tracking Triplet Dissociation using Microwave Conductivity	
10:00 - 10:15 1.1-O2	Shengyang Chen (Department of Chemistry and Centre for Plastic Electronics, Imperial College London), Bastian Haehnle, Ioan Botiz, Alexander J.C. Kuehne, Paul Stavrinou, Natalie Stingelin How Can We Engineer Hierarchical Structures and Pattern Functional Organic Materials?	
10:15 - 10:45	Coffee	
	Session 1.2 Chair: Natalie Stingelin	
10:45 - 11:15 1.2-O1	Myung-Han Yoon (School of Materials Science and Engineering, Gwangju Institute of Science and Technology, Gwangju 61005, Republic of Korea) Organic Bioelectronic Interfaces Based on PEDOT:PSS-Based Crystalline Films, Microfibers, and Fibrillar Hydrogel	
11:15 - 11:30 1.2-02	Micah Barker (Laboratoire de Chimie des Polymères Organiques – LCPO, UMR5629 Université de Bordeaux, Allée Geoffroy Saint Hilaire, Bâtiment B8 CS50023, 33615 Pessac Cedex, France), Tommaso Nicolini, Georges Hadziioannou, Natalie Stingelin Enhanced Electrochemical Doping Kinetics in Conjugated Polymers by Blending with Hydrophilic Block Copolymers	
11:30 - 11:45 1.2-O3	sadok ben dkhil (Dracula Technologies), Florent Pourcin, Donia Fredj, Marie Chabrolle, Elena Barulina, Pavlo Perkhun, Olivier Margeat, Jörg Ackermann, Jérome Vernet, Brice Cruchon, Pascal Pierron Towards Commercially Viable Printable high efficiency OPV modules for indoor applications	
11:45 - 12:15 1.2-K1	Antonio Facchetti (Northwestern University and Flexterra Inc., 8025 Lamon Avenue Skokie, IL 60077 (USA)) Strategies to semiconducting polymer and polymer-metal oxide alloy materials for flexible technologies	
12:15 - 12:30 1.2-O4	Fabio Cicoira (Polytechnique Montréal) Flexible, stretchable and healable electronics	
12:30 - 14:30	Lunch	
	Session 1.3 Chair: Elizabeth von Hauff	
14:30 - 15:00 1.3-l1	Chihaya Adachi (OPERA, Kyushu University) Exciton Management in Organic Semiconductor Laser Diodes	

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15:00 - 15:15	Karolis Kazlauskas (Institute of Photonics and Nanotechnology, Vilnius University, Saulėtekio av. 3, LT-10257
1.3-01	Vilnius, Lithuania), Steponas Raišys, Ona Adomėnienė, Povilas Adomėnas, Alexander Rudnick, Anna Köhler
	Triplet Exciton Diffusion and Quenching in Matrix-Free Solid Photon Upconversion Films
15:15 - 15:45	lain McCulloch (King Abdullah University of Science & Technology (KAUST))
1.3-12	Semiconducting Polymers for High Performance OFET and OECT Applications
15:45 - 16:00	Tracey Clarke (Department of Chemistry, University College London)
1.3-02	Manipulating Energy Levels in Organic Photovoltaic Materials
16:00 - 16:30	Roisin Owens (Department of Chemical Engineering and Biotechnology, University of Cambridge, Cambridge,
1.3-I3	CB2 3RA, UK.)
	The world is not flat: 3D cell biology integrated with 3D conducting polymer devices
19:00 - 22:00	Social Diner
March 19th	- Day 3 (Tuesday)
08:55 - 09:00	Announcement of the Day
	Session 2.1
	Chair: Natalie Banerji
09:00 - 09:30	Magnus Berggren (Laboratory of Organic Electronics at Linköping University)
2.1-K1	Organic Bioelectronics – Nature connected
09:30 - 10:00	Christine Luscombe (Materials Science and Engineering Department, University of Washington, Seattle)
2.1-I1	Combined computational and experimental study on the effects of side-chain architecture of polythiophene
	derivatives on structure and ionic conduction
10:00 - 10:30	anna Köhler (University of Bayreuth, DE)
2.1-12	The role of Marcus theory in the formation and description of charge-transfer states
	Coffee
10:30 - 11:00	
	Session 2.2 Chair: Anna Köhler
11:00 - 11:30	David Beljonne (University of Mons (UMONS), Laboratory for Chemistry of Novel Materials, Center for Innovation
2.2-11	and Research in Materials and Polymers (CIRMAP), Mons (Belgium))
	A Microscopic view on Electronic and Excitonic Effects in (Hybrid) Organic Semiconductors
11:30 - 11:45	(', ', ', ', ', ', ', ', ', ', ', ', ',
11:45 - 12:15	Natalie Banerji (Department of Chemistry and Biochemistry, University of Bern, Freiestrasse 3, 3012 Bern,
2.2-12	Switzerland)
	Driving-force and structural dependence of charge transfer rates in non-fullerene acceptor organic solar cells
12:15 - 12:30	Andrew Clarke (SPECIFIC, College of Engineering, Swansea University, Bay Campus, Swansea, SA1 8EN,
2.2-01	<i>UK)</i> , Rico Meitzner, Joel Luke, Emily Speller, Hyojung Cha, Jiaying Wu, Helen Bristow, Yuming Wang, Katherine
	Hooper, Alex Evans, Feng Gao, Harald Hoppe, Ji-Seon Kim, Iain McCulloch, Ulrich Schubert, Trystan Watson,
	James Durrant, Wing Chung Tsoi, Zhe Li
	Influence of Non-Fullerene Acceptors on the Photostability of Organic Photovoltaics in Inert Atmospheres
12:30 - 13:00	Elizabeth von Hauff (Department of Physics & Astronomy, VU Amsterdam)
2.2-13	A dynamic picture of photovoltaic energy conversion
13:00 - 14:30	Lunch
10.00	
	Session 2.3 Chair: David Beljonne
14:30 - 15:00	Norbert Koch (Physics Department and IRIS Adlershof, Humboldt-Universität zu Berlin, Berlin, Germany)
2.3-11	Surface and interface electronic properties of perovskites in photovoltaic cells
15:00 - 15:15	Nadège Marchal (University of Mons (UMONS), Laboratory for Chemistry of Novel Materials, Center for
2.3-O1	Innovation and Research in Materials and Polymers (CIRMAP), Mons (Belgium)), Claudio Quarti, David Beljonne
1	Electronic properties of 2D hybrid perovskites: spin-orbit coupling and indirect effect of inert organic spacers

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15:15 - 15:30	Anna Nikolskaia (Institute of Biochemical Physics, Russian Academy of Sciences), Marina Vildanova, Sergey
2.3-02	Kozlov, Nikolai Tsvetkov, Oleg Shevaleevskiy, Liudmila Larina
2.0-02	Performance of Perovskite Solar Cells under Varied Light Conditions
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15:30 - 16:00	Yana Vaynzof (Kirchhoff-Institute for Physics, Heidelberg University)
2.3-12	What Affects the Reproducibility of Perovskite Photovoltaic Devices?
16:00 - 16:15	Marina Vildanova (Institute of Biochemical Physics, Russian Academy of Sciences), Anna Nikolskaia, Sergey
2.3-03	Kozlov, Oleg Shevaleevskiy
2.5-05	•
	Enhancing the Stability of Perovskite Solar Cells by Alkai Metal Doping
16:15 - 16:30	<u>Dirk Vanderzande</u> (Institute for material research, Hasselt University), Wouter Van Gompel, Roald Herckens,
2.3-O4	Laurence Lutsen, Bart Ruttens, Jan D' Haen
	Templating Organic Chromophores in 2D Hybrid Perovskites: A New Class of Materials for Opto-Electronic
	Applications
16:30 - 17:00	Henning Sirringhaus (Cavendish Laboratory, Department of Physics, University of Cambridge, JJ Thomson
2.3-K1	Avenue, Cambridge CB3 0HE, UK.)
2.5-K1	
	Charge and spin transport physics of high mobility organic semiconductors
17:00 - 17:45	Poster Exhibition
March 20th	- Day 4 (Wednesday)
08:45 - 09:00	Anouncement of Poster prize winner
	Session 3.1
	Chair: Oana Jurchescu
09:00 - 09:30	Giulia Grancini (Ecole polytechnique fédérale de Lausanne Institut des sciences et ingénierie chimiques EPFL
3.1-12	SB ISIC SCI-SB-MN)
	2D/3D Hybrid Perovskite Interfaces and Physics therein for Stable and Efficient Solar Cells
09:30 - 10:00	Thomas Anthopoulos (King Abdullah University of Science and Technology (KAUST), Division of Physical
3.1-I1	Sciences and Engineering, Thuwal 23955-6900, Kingdom of Saudi Arabia)
3.1-11	Ultra-high Performance Organic Transistors Enabled by Molecular Doping
10:00 - 10:15	Magatte N. Gueye, Amélie Schulteiss, Olivier Bardagot, Jérôme Faure-Vincent, Stéphanie Pouget, Alexandre
3.1-O1	Carella, Jean-Pierre Simonato, Renaud Demadrille (University Grenoble Alpes, CEA, CNRS (INAC-SYMMES))
	Structure and Dopant Engineering in PEDOT-based Materials, Strategies to Enhance their Conductivity and
	Application in Thermoelectric Devices
10:15 - 10:45	Coffee
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1	Session 3.2 Chair: Benaud Demadrille
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10:45 - 11:15	Chair: Renaud Demadrille Oana Jurchescu (Wake Forest University)
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3.2-I1	Chair: Renaud Demadrille Oana Jurchescu (Wake Forest University) Contact definition and patterning for high performance organic thin-film transistors
3.2-I1 11:15 - 11:30	Chair: Renaud Demadrille Oana Jurchescu (Wake Forest University) Contact definition and patterning for high performance organic thin-film transistors Seong-Min Kim (School of Materials Science and Engineering, Gwangju Institute of Science and Technology, Gwangju 61005, Republic of Korea), Chang-Hyun Kim, Youngseok Kim, Natalie Stingelin, Myung-Han Yoon
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3.2-I1 11:15 - 11:30 3.2-O1 11:30 - 12:00 3.2-I2	Chair: Renaud Demadrille Oana Jurchescu (Wake Forest University) Contact definition and patterning for high performance organic thin-film transistors Seong-Min Kim (School of Materials Science and Engineering, Gwangju Institute of Science and Technology, Gwangju 61005, Republic of Korea), Chang-Hyun Kim, Youngseok Kim, Natalie Stingelin, Myung-Han Yoon Correlation Among Film Microstructure/Composition, Electrochemical Transistor Performance, and Long-Term Aqueous Stability of PEDOT:PSS Films Paul Meredith (Department of Physics, Swansea University, Single Park, Swansea SA2 8PP, United Kingdoms) Electro-optical Considerations for Thin Film Solar Cells and Photodetectors
3.2-I1 11:15 - 11:30 3.2-O1 11:30 - 12:00 3.2-I2 12:00 - 12:15	Chair: Renaud Demadrille Oana Jurchescu (Wake Forest University) Contact definition and patterning for high performance organic thin-film transistors Seong-Min Kim (School of Materials Science and Engineering, Gwangju Institute of Science and Technology, Gwangju 61005, Republic of Korea), Chang-Hyun Kim, Youngseok Kim, Natalie Stingelin, Myung-Han Yoon Correlation Among Film Microstructure/Composition, Electrochemical Transistor Performance, and Long-Term Aqueous Stability of PEDOT:PSS Films Paul Meredith (Department of Physics, Swansea University, Single Park, Swansea SA2 8PP, United Kingdoms) Electro-optical Considerations for Thin Film Solar Cells and Photodetectors Donia Fredj (Dracula Technologies, 4 rue Georges Auric, 26000 Valence, France), Ali Nourdine, Florent Pourcin,
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3.2-I1 11:15 - 11:30 3.2-O1 11:30 - 12:00 3.2-I2 12:00 - 12:15 3.2-O2	Chair: Renaud Demadrille Oana Jurchescu (Wake Forest University) Contact definition and patterning for high performance organic thin-film transistors Seong-Min Kim (School of Materials Science and Engineering, Gwangju Institute of Science and Technology, Gwangju 61005, Republic of Korea), Chang-Hyun Kim, Youngseok Kim, Natalie Stingelin, Myung-Han Yoon Correlation Among Film Microstructure/Composition, Electrochemical Transistor Performance, and Long-Term Aqueous Stability of PEDOT:PSS Films Paul Meredith (Department of Physics, Swansea University, Single Park, Swansea SA2 8PP, United Kingdoms) Electro-optical Considerations for Thin Film Solar Cells and Photodetectors Donia Fredj (Dracula Technologies, 4 rue Georges Auric, 26000 Valence, France), Ali Nourdine, Florent Pourcin, Sadok Ben Dkhil, Jérome Vernet, Brice Cruchon, Pascal Pierron, Lionel Flandin High-Performance inkjet Printed Flexible Organic solar cells and modules Using Silver nanowires as Transparent Electrodes
3.2-I1 11:15 - 11:30 3.2-O1 11:30 - 12:00 3.2-I2 12:00 - 12:15	Chair: Renaud Demadrille Oana Jurchescu (Wake Forest University) Contact definition and patterning for high performance organic thin-film transistors Seong-Min Kim (School of Materials Science and Engineering, Gwangju Institute of Science and Technology, Gwangju 61005, Republic of Korea), Chang-Hyun Kim, Youngseok Kim, Natalie Stingelin, Myung-Han Yoon Correlation Among Film Microstructure/Composition, Electrochemical Transistor Performance, and Long-Term Aqueous Stability of PEDOT:PSS Films Paul Meredith (Department of Physics, Swansea University, Single Park, Swansea SA2 8PP, United Kingdoms) Electro-optical Considerations for Thin Film Solar Cells and Photodetectors Donia Fredi (Dracula Technologies, 4 rue Georges Auric, 26000 Valence, France), Ali Nourdine, Florent Pourcin, Sadok Ben Dkhil, Jérome Vernet, Brice Cruchon, Pascal Pierron, Lionel Flandin High-Performance inkjet Printed Flexible Organic solar cells and modules Using Silver nanowires as Transparent

12:30 - 12:45 3.2-O4	Hongmo Li (School of Materials Science and Engineering, Georgia Institute of Technology, Atlanta, GA, USA), David Valverde, Andre Zeumault, Yadong Zhang, Stephen Barlow, Lee Richter, Seth Marder, Carlos Silva, Natalie Stingelin Towards Metallic-Type Transport in Polymers: Establishing Structure/Property Interrelationships
12:45 - 14:30	Lunch
	Session 3.3 Chair: Giulia Grancini
14:30 - 14:45 3.3-O1	Chun Ma (King Abdullah University of Science and Technology (KAUST), Division of Physical Sciences and Engineering, Thuwal 23955-6900, Kingdom of Saudi Arabia), Hu Chen, Emre Yengel, Hendrik Faber, Jafar Khan, Weiming Zhang, Frédéric Laquai, Iain McCulloch, Thomas Anthopoulos Multi-Input Parameter Modulable Memtransistors from Hybrid Perovskite/Conjugated Polymer Heterostructures
14:45 - 15:00 3.3-O2	<u>Lydia Sosa Vargas</u> (Sorbonne Universite -Institut Parisien de Chimie Moleculaire), Quentin Fernez, David Kreher, Fabrice Mathevet, Imad Arfaoui, Simon Vassant, Celine Fiorini-Debuisschert, Fabrice Charra Nano-engineering of Fluorescent Monolayers on Graphene
15:00 - 15:15 3.3-O3	<u>Takashi Okubo</u> (Department of Chemistry, Kindai University), Wataru Genno, Misaki Ohkita, Sanshiro Fukuda, Masahiko Maekawa, Takayoshi Kuroda-Sowa Conducting Properties and Application to Organic Solar Cells of Coordination Polymers Including Copper(I) Halides
15:15 - 15:30	Clousure

Poster Contribution

023	<u>Jiale Feng</u> (Cavendish Laboratory, Department of Physics, University of Cambridge, JJ Thomson Avenue, Cambridge CB3 0HE, UK.), Dan Credgington Tuneability of organic light emitting diode emission via composite structural control
024	Giacomo Londi (Laboratory for Chemistry of Novel Materials, University of Mons), Rexiati Dilimulati, Yoann Olivier, David Beljonne
	Efficient exciton diffusion in a donor-acceptor conjugated dye for solar cells applications: Theoretical insights
037	Alex Balzer (School of Chemical and Biomolecular Engineering, Georgia Institute of Technology, Atlanta, Georgia 30332, USA), Natalie Stingelin
	Titanium Oxide Hydrates as Optically and Photonically Versatile Species in Inorganic-Organic Hybrids for Polymer-Based Energy Harvesting and Conversion Devices
040	Qinying Gu (Cavendish Laboratory, Department of Physics, University of Cambridge, JJ Thomson Avenue, Cambridge CB3 0HE, UK.), Dan Credgington
	Organic Photovoltaics Incorporating Electron Donors with Small Exchange Energy
051	Yukihiro Shimoi (Research Center for Computational Design of Advanced Functional Materials (CD-FMat), National Institute of Advanced Industrial Science and Technology (AIST)), Hisaaki Tanaka, Shin-ichi Kuroda, Taishi Takenobu
	DFT and ESR studies on donor-acceptor type conjugated polymers
053	Alper Gurarslan (Faculty of Textile Technologies and Design, Istanbul Technical University, Istanbul Turkey), Elif Omur, Busra Ozdemir
	Silver Nanowire Coated Flexible Textile Sensors
054	Indu Chanchal Polpaya (Department of Chemical Engineering, Indian Institute of Technology Madras), C Lakshmana Rao, Susy Varughese
	Polydiacetylene Thin-films for Strain Sensing Applications
055	Vladimir Nikitenko (National Research Nuclear University MEPHI), Yaroslav Burdakov, Yulia Metel Unified Description of Hopping Transport in Disordered Organics by Multiple Trapping Formalism

- Maxim Khan (National Research Nuclear University «MEPhI» (Moscow Engineering Physics Institute)), Vladimir Nikitenko, Andrey Tyutnev, Renat Ikhsanov

 An Analytic Description of Transient Current in Disordered Organics for a Broad Range of Temperature and Electric Field by the Joint Application of Transport Level and Effective Temperature Concepts
- Pauline Tourneur (University of Mons (UMONS), Laboratory for Chemistry of Novel Materials, Center for Innovation and Research in Materials and Polymers (CIRMAP), Mons (Belgium)), Fabien Lucas, Cassandre Quinton, Yoann Olivier, Olivier Douheret, Joëlle Rault-Berthelot, Cyril Poriel, Roberto Lazzaroni, Pascal Viville, Jérôme Cornil Design of New Fully Organic Emitter with Spiro Connection for OLED Applications
- Natalia Borzdun (Institute of macromolecular compounds Russian academy of sciences), Victor Nazarychev, Sergey
 Larin, Günter Reiter, Sergey Lyulin
 Ordering of Oligo(phenylene-thiophene)s on Monolayer Graphene
- Bruna Bregadiolli (Institute of Chemistry, São Paulo State University (UNESP), Araraquara SP 14800-060, Brazil.), Luiz Carlos Silva-Filho, Maria Aparecida Zaghete, Alan Sellinger
 Surface functionalization of 4-6nm nanodiamonds with conjugated aromatic ligands for application in organic electronics
- João V. Paulin (São Paulo State University (UNESP), School of Sciences, Department of Physics, Bauru, Brazil.),
 Albertus B. Mostert, Carlos F. O. Graeff, Paul Meredith
 Insights on the nature of free radicals species of functionalized melanin derivatives
- Eisuke Kawashima (Department of Chemical System Engineering, Graduate School of Engineering, The University of Tokyo), Koichi Yamashita
 Organic Photovoltaics Simulators for Material Design
- Masanori Kaneko (Department of Chemical System Engineering, School of Engineering, The University of Tokyo, 7-3-1 Hongo Bunkyo-ku, Tokyo 113-8656, Japan), Mikiya Fujii, Takashi Hisatomi, Koichi Yamashita, Kazunari Domen Regression model for stabilization energies associated with anion ordering in Perovskite materials