

nanoGe Fall Meeting 2018 (FallMeeting18)

S9 Advanced PV Technologies and Concepts with New Functionalities

Torremolinos, Spain, 2018 October 22nd - 23rd

Conference Chairs: Joaquim Puigdollers and Alejandro Perez-Rodriguez

Conference Program

October 22nd - Day 1 (Monday)	
Plenary sessions 1 & 2	
09:00 - 09:30 2-K1	<u>Victor Klimov</u> (<i>Los Alamos National Laboratory, Los Alamos, New Mexico 87545, USA</i>) Colloidal Quantum Dot Lasing: Historical Perspective and Recent Progress
09:00 - 09:30 2-K2	<u>Yun Jeong Hwang</u> (<i>Korea Institute of Science and Technology (KIST)</i>), Byoun Koun Min, Hyeong-Suk Oh Electrochemical Conversion of CO ₂ toward Valuable Chemicals for Solar-to-Chemical Conversion Application
PVCon S9.1	
09:30 - 10:00 S9.1-I1	<u>Jordi Martorell</u> (<i>ICFO-Institut de Ciències Fòniques, The Barcelona Institute of Science and Technology</i>) Novel Photonic Approaches to Enhance the Current or Voltage in Organic and Perovskite Solar Cells
10:00 - 10:30 S9.1-O1	<u>NEHA CHATURVEDI</u> (<i>King Abdullah University of Science and Technology (KAUST), Division of Physical Sciences and Engineering, Thuwal 23955-6900, Kingdom of Saudi Arabia</i>), Hanlin Hu, Nicola gasparini, Derya Baran, Aram Amassian, Iain MuCulloch High Speed Coating Method for Fabricating Organic Solar Cells with PCE>10%
10:30 - 11:00	Coffee Break
PVCon S9.2	
11:00 - 11:30 S9.2-I1	<u>Manfred Eich</u> (<i>Institute of Optical and Electronic Materials, Hamburg University of Technology, Eissendorfer Strasse 38, 21073 Hamburg, Germany</i>), P. Dyachenko, S. Lang, G. Shang, Q.Y. Nguyen, M. Chirumamilla, K. Knopp, G. Vaidhyanathan, S. Molesky, H. Renner, A. Yu Petrov, Z. Jacob, M. Störmer, T. Krekeler, M. Ritter, G. Schneider Nanomaterials for High Temperature Photonics
11:30 - 11:45 S9.2-O1	<u>prabhujit mohapatra</u> (<i>National Institute of Technology Silchar</i>), kedar nath das, santanu roy Novel Competitive Swarm Optimizer for Solving the Economic Dispatch Problem Considering the Generator Constraints
11:45 - 12:00 S9.2-O2	<u>Moisés Garín</u> (<i>Universitat Politècnica de Catalunya</i>), Chen Jin, Trifon Trifonov, Ramón Alcubilla Silicon Millefeuille: Multiplying Silicon Wafers for Ultrathin Photovoltaics.
12:00 - 12:30 S9.2-I2	Gregg Scranton, Zunaid Omair, <u>Luis Pazos-Outón</u> (<i>Electrical Engineering and Computer Sciences, University of California, Berkeley</i>), T. Patrick Xiao, Vidya Ganapati, Myles Steiner, Per Peterson, John Holzrichter, Eli Yablonovitch Reaching 28% Efficiency in Thermo-Photovoltaics
12:30 - 14:30	Lunch
PVCon S9.3	
14:30 - 15:00 S9.3-I1	<u>Seigo Ito</u> (<i>Department of Materials and Synchrotron Radiation Engineering, Graduate School of Engineering, University of Hyogo</i>) Studies of Tandem Solar Cells and Stability Issue of Perovskite Solar Cells
15:00 - 15:30 S9.3-O1	<u>Christian Jooss</u> (<i>Institute for Material Physics, University of Goettingen, Friedrich-Hund-Platz 1, D-37077 Goettingen, Germany</i>), Dirk Raiser, Benedikt Iffland, Mohsen Sotoudeh, Peter Blöchl, Michael Seibt, Tobias Meyer, Simone Techert, Birte Kressdorf, Patrick Peretzki Hot Polaron States with Nanosecond Lifetime in Manganite Perovskite Photovoltaic Junctions

15:30 - 16:00	Nasim Tavakoli (<i>Center for Nanophotonics, AMOLF, Science Park 104, 1098 XG Amsterdam, The Netherlands</i>), S9.3-O2 Esther Alarcon Llado Combining 1D and 2D waveguiding properties for ultrathin tandem solar cells
16:00 - 16:30	Isaac Suárez (<i>University of Valencia</i>) S9.3-O3 Wearable Amplifier-Photodetector System Based on PMMA/Perovskite Waveguides Integrated on a Wearable Nanocellulose Substrate
16:30 - 17:00	Sebastián Murcia-López (<i>Catalonia Institute for Energy Research, IREC. Jardins de les Dones de Negre 1, 08930 Sant Adrià de Besòs (Barcelona), Spain.</i>), Nina Carretero, Cristina Flox, Félix Urbain, Joan R. Morante, Teresa Andreu S9.3-O4 Integration of Adapted Thin-film Photovoltaics into Solar Vanadium Redox Flow Batteries for Energy Storage

October 23rd - Day 2 (Tuesday)

PVCon S9.4

09:00 - 09:30	Guy Brammertz (<i>Imec division IMOMECE (partner in Solliance & EnergyVille), Wetenschapspark 1, 3590 Diepenbeek, Belgium.</i>), Leo Choubrac, Thierry Kohl, Jessica deWild, Marc Meuris, Jef Poortmans, Bart Vermang S9.4-I1 Wide Band Gap Kesterite Absorbers for Tandem or Semi-transparent Solar Cells
09:30 - 10:00	Ignacio Becerril-Romero, Simón Lopez-Marino, Marcel Placidi, Moisés Espíndola-Rodríguez, Florian Oliva, Victor Izquierdo-Roca, Yudania Sánchez, Xavier Alcobé (<i>Centres Científics i Tecnològics (CCiTUB) de la Universitat de Barcelona, C/ Lluís Solé i Sabaris 1-3, 08028 Barcelona, Spain</i>), Edgardo Saucedo, Paul Pistor S9.4-O1 CZTSe Solar Cells Developed On Alternative Substrates for Advanced Applications
10:00 - 10:30	Uli Würfel (<i>Fraunhofer Institute for Solar Energy Systems (ISE), Heidenhofstraße 2, 79110 Freiburg, Germany</i>) S9.4-I2 Factors Determining the Electrode Selectivity in Solar Cells and their Impact on Device Performance
10:30 - 11:00	Coffee Break

PVCon S9.5

11:00 - 11:30	Marcel Placidi (<i>Catalonia Institute for Energy Research (IREC), Jardins de les Dones de Negre 1, Sant Adrià del Besòs, 08930 Barcelona</i>) S9.5-I1 TCMs for Next Generation Thin Film Photovoltaics
11:30 - 12:00	Raquel Caballero (<i>Universidad Autónoma de Madrid</i>), Leonor de la Cueva, Andrea Ruiz-Perona, Yudenia Sánchez, Markus Neuschitzer, José Manuel Merino, Máximo León S9.5-O1 Wide Band-Gap Kesterite Thin Films for Photovoltaic Applications
12:00 - 12:15	Pedro Vidal, Victor Izquierdo-Roca, Markus Neuschitzer, Edgardo Saucedo, Lorenzo Calvo-Barrio, Tariq Jawhari (<i>Centres Científics i Tecnològics (CCiTUB) de la Universitat de Barcelona, C/ Lluís Solé i Sabaris 1-3, 08028 Barcelona, Spain</i>), Alejandro Perez-Rodriguez S9.5-O2 Thin Film Sb₂(S,Se)₃ Based Solar Cell: Emergent Technology Compatible with Ubiquitous Applications
12:30 - 14:30	Lunch
17:30 - 19:00	Poster Session

Poster Contribution

004	Osvaldo Vigil (<i>ESFM-IPN</i>), Samuel Melo, Eugenio Rodríguez Bi-Layers Front Contacts Deposition for CdTe Solar Cells from Commercial Conducting Glass
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