

nanoGe Fall Meeting 2018 (FallMeeting18)

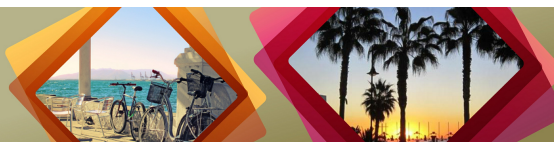
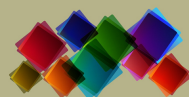
S9 Advanced PV Technologies and Concepts with New Functionalities

Torremolinos, Spain, 2018 October 22nd - 23rd

Conference Chairs: Joaquim Puigdollers and Alejandro Perez-Rodriguez

Conference Program

October 22nd - Day 1 (Monday)	
	<p>Plenary session 1 Chair: Mischa Bonn Room: Mediterraneo ABC</p>
09:00 - 09:30 1-K1	<p><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</p>
	<p>Plenary Session 2 Chair: Kevin Sivula Room: Torremolinos AB</p>
09:00 - 09:30 2-K1	<p><u>Yun Jeong Hwang</u> (<i>Korea Institute of Science and Technology (KIST)</i>), Byoun Koun Min, Hyeong-Suk Oh Electrochemical Conversion of CO₂ toward Valuable Chemicals for Solar-to-Chemical Conversion Application</p>
	<p>PVCon S9.1 Chair: Joaquim Puigdollers Room: Mediterraneo D</p>
09:30 - 10:00 S9.1-11	<p><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</p>
10:00 - 10:30 S9.1-O1	<p><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%</p>
10:30 - 11:00	<p>Coffee Break</p>
	<p>PVCon S9.2 Chair: Jordi Martorell Room: Mediterraneo D</p>
11:00 - 11:30 S9.2-11	<p><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</p>
11:30 - 11:45	
11:45 - 12:00 S9.2-O1	<p><u>Moisés Garín</u> (<i>Universitat Politècnica de Catalunya</i>), Chen Jin, Trifon Trifonov, Ramón Alcubilla Silicon Millefeuille: Multiplying Silicon Wafers for Ultrathin Photovoltaics.</p>
12:00 - 12:30 S9.2-I2	<p>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</p>
12:30 - 14:30	<p>Lunch</p>
	<p>PVCon S9.3 Chair: Luis Pazos Outon Room: Mediterraneo D</p>



- 14:30 - 15:00 Seigo Ito (*Department of Materials and Synchrotron Radiation Engineering, Graduate School of Engineering, University of Hyogo*)
S9.3-11 Studies of Tandem Solar Cells and Stability Issue of Perovskite Solar Cells
- 15:00 - 15:30 Christian Jooss (*Institute for Material Physics, University of Goettingen, Friedrich-Hund-Platz 1, D-37077 Goettingen, Germany*), Dirk Raiser, Benedikt Iffland, Mohsen Sotoudeh, Peter Blöchl, Michael Seibt, Tobias Meyer, Simone Techert, Birte Kressdorf, Patrick Peretzki
S9.3-01 Hot Polaron States with Nanosecond Lifetime in Manganite Perovskite Photovoltaic Junctions
- 15:30 - 16:00 Nasim Tavakoli (*Center for Nanophotonics, AMOLF, Science Park 104, 1098 XG Amsterdam, The Netherlands*),
S9.3-02 Esther Alarcon Llado
Combining 1D and 2D waveguiding properties for ultrathin tandem solar cells
- 16:00 - 16:30 Isaac Suárez (*University of Valencia*)
S9.3-03 Wearable Amplifier-Photodetector System Based on PMMA/Perovskite Waveguides Integrated on a Wearable Nanocellulose Substrate
- 16:30 - 17:00 Sebastián Murcia-López (*Catalonia Institute for Energy Research, IREC. Jardins de les Dones de Negre 1, 08930 Sant Adrià de Besòs (Barcelona), Spain.*), Nina Carretero, Cristina Flox, Félix Urbain, Joan R. Morante, Teresa Andreu
S9.3-04 Integration of Adapted Thin-film Photovoltaics into Solar Vanadium Redox Flow Batteries for Energy Storage

October 23rd - Day 2 (Tuesday)

PVCon S9.4

Chair: Alejandro Perez-Rodriguez
Room: Mediterraneo D

- 09:00 - 09:30 Guy Brammertz (*Imec division IMOMEC (partner in Solliance & EnergyVille), Wetenschapspark 1, 3590 Diepenbeek, Belgium.*), Leo Choubrac, Thierry Kohl, Jessica deWild, Marc Meuris, Jef Poortmans, Bart Vermang
S9.4-11 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,
S9.4-01 Victor Izquierdo-Roca, Yudania Sánchez, Xavier Alcobé (*Centres Científics i Tecnològics (CCiTUB) de la Universitat de Barcelona, C/ Lluís Solé i Sabaris 1-3, 08028 Barcelona, Spain*), Edgardo Saucedo, Paul Pistor
CZTSe Solar Cells Developed On Alternative Substrates for Advanced Applications
- 10:00 - 10:30 Uli Würfel (*Fraunhofer Institute for Solar Energy Systems (ISE), Heidenhofstraße 2, 79110 Freiburg, Germany*)
S9.4-12 Factors Determining the Electrode Selectivity in Solar Cells and their Impact on Device Performance

10:30 - 11:00 Coffee Break

PVCon S9.5

Chair: Guy Brammertz
Room: Mediterraneo D

- 11:00 - 11:30 Marcel Placidi (*Catalonia Institute for Energy Research (IREC), Jardins de les Dones de Negre 1, Sant Adrià del Besòs, 08930 Barcelona*)
S9.5-11 TCMs for Next Generation Thin Film Photovoltaics
- 11:30 - 11:45
- 11:45 - 12:00 EDUARD BAILO BOBI (*Francisco Albero - FAE*), BEATRIZ MEDINA-RODRIGUEZ, MONICA COLINA, MIREIA
S9.5-02 BLANES, MARCEL PLACIDI, FRANCISCO RAMOS, EDGARDO SAUCEDO, ALBERT CIRERA, ALEJANDRO PEREZ
Printing Based Processes for Low Cost CRM Free Sustainable Technologies on Ceramic Ecofriendly Substrates for BIPV Applications.
- 12:00 - 12:15 Pedro Vidal, Victor Izquierdo-Roca, Markus Neuschitzer, Edgardo Saucedo, Lorenzo Calvo-Barrio, Tarig Jawhari
S9.5-01 (*Centres Científics i Tecnològics (CCiTUB) de la Universitat de Barcelona, C/ Lluís Solé i Sabaris 1-3, 08028 Barcelona, Spain*), Alejandro Perez-Rodriguez
Thin Film Sb₂(S,Se)₃ Based Solar Cell: Emergent Technology Compatible with Ubiquitous Applications

12:30 - 14:30 Lunch