

Online nanoGe Fall Meeting 20 (OnlineNFM20)

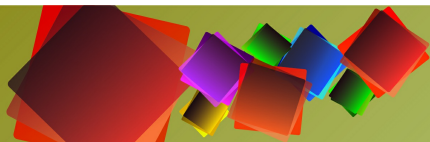
#SPMEn20. Scanning Probe Microscopy for Energy Applications

2020 October 22nd - 23rd

Conference Chairs: Marina Leite and Sascha Sadewasser

Conference Program

October 22nd - Day 3 (Thursday)	
15:00 - 16:30	ePoster Session
October 23rd - Day 4 (Friday)	
08:30 - 08:35	SPMEn Opening nanoGe
08:35 - 08:45	SPMEn Session Introduction 1.1 - Sascha Sadewasser
	SPMEn 1.1 Chair: Sascha Sadewasser
08:45 - 09:05 1.1-I1	<u>Alex Redinger</u> (<i>University of Luxembourg, Scanning Probe Microscopy Laboratory, Department of Physics and Materials Science</i>) The Impact of Processing Conditions on Hybrid Perovskite Surfaces; A Kelvin Probe Force Microscopy Study
09:05 - 09:25 1.1-I2	<u>Tom Wirtz</u> (<i>Luxembourg Institute of Science and Technology</i>), Alexander Ost, Jean-Nicolas Audinot 3D nano-analytics using integrated HIM-SIMS and AFM-SIMS
09:25 - 09:45	Discussion
09:45 - 09:50	SPMEn Short Break
09:50 - 10:00	SPMEn Session Introduction 1.2 - Alex Redinger
	SPMEn 1.2 Chair: Alex Redinger
10:00 - 10:20 1.2-I1	<u>Andrei Kholkin</u> (<i>Department of Physics & CICECO—Aveiro Institute of Materials, University of Aveiro</i>), Denis Alikin, Yevhen Fomichov, Saulo dos Reis, Alexander Abramov, Dmitry Chezganov, Vladimir Shur, Eugene Eliseev, Anna Morozovska, Eudes Araujo Strain-Polarization Coupling Mechanism of Enhanced Conductivity at the Grain Boundaries in BiFeO ₃ Thin Films
10:20 - 10:40 1.2-I2	<u>Monica Luna</u> (<i>IMN-Instituto de Micro y Nanotecnología (CNM-CSIC)</i>), Mariam Barawi, Yi-Hsien Lu, Ravi Chintala, Patricia Reñones, Virginia Altoe, Lidia Martínez, Yves Huttel, Seiji Kawasaki, Alexander Weber-Bargioni, Víctor A. dela Peña O'Shea, Paul D. Ashby, Miquel Salmeron Surface charge changes in the enhanced photo-catalytic activity of TiO ₂ (110) by means of Photo-Assisted Kelvin Probe Force Microscopy
10:40 - 11:00	Discussion
11:00 - 14:00	SPMEn Break
	SPMEn 1.3 Chair: Marina Leite
14:00 - 14:10 1.3-T1	<u>Johanna Eichhorn</u> (<i>Technische Universität München, Walter Schottky Institut and Physik-Department</i>), Ian Sharp, Francesca Toma Impact of Surface Adsorbates on Charge Carrier Transport in Metal-Oxides for Solar Water Splitting
14:10 - 14:20 1.3-T2	<u>Deeplanjan Sharma</u> (<i>INL International Iberian Nanotechnology Laboratory, Braga</i>), Mohit Raghuwanshi, Nicoleta Nicoara, Cojocaru Mirédin, Sascha Sadewasser Electrical characterization of RbF-PDT Cu(In,Ga)Se ₂ by conductive-AFM tomography and EBSD
14:20 - 14:30 1.3-T3	<u>Rajiv Giridharagopal</u> (<i>University of Washington, US</i>), David Ginger Time-Resolved Electrical Microscopy of Photoinduced Charging and Ion Motion in Layered Perovskites



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14:30 - 14:40	Fangyuan Jiang, <u>Justin Pothoof</u> (<i>University of Washington, Department of Chemistry</i>), Franziska Muckel, Jian Wang, Rajiv Giridharagopal, David Ginger
1.3-T4	Scanning Kelvin Probe Microscopy Reveals Ion Motion Varies with Dimensionality in 2D Halide Perovskites
14:40 - 15:10	Discussion
15:10 - 15:15	SPMEn Closing