

Online nanoGe Fall Meeting 20 (OnlineNFM20)

#SolPow20. Solar Powered Electrochemical Energy Storage Devices

2020 October 20th

Conference Chairs: Teresa Andreu and Anders Bentien

Conference Program

October 20th - Day 1 (Tuesday)	
09:00 - 09:05	SolPow Opening nanoGe
09:05 - 09:15	SolPow Session Introduction 1.1 - Teresa Andreu
	SolPow 1.1 Chair: Teresa Andreu
09:15 - 09:35 1.1-11	<u>Vladimir Smirnov</u> (<i>IEK-5 Photovoltaik, Forschungszentrum Jülich GmbH, Germany</i>), J.P. Becker, K. Welter, F. Finger Integrated photo-electrochemical devices employing multijunction solar cells
09:35 - 09:55 1.1-12	<u>Adélio Mendes</u> (<i>Universidade do Porto, Departamento de Engenharia Química, Faculdade de Engenharia, Portugal</i>), Anders Bentien, Paula Dias, Tânia Lopes Electrochemical fuels: a promising energy vector?
09:55 - 10:15 1.1-13	<u>Dowon Bae</u> (<i>Heriot-Watt University</i>), Gerrit Faasse Thermo-electrochemical Model for Solar-rechargeable Redox Flow Cell System
10:15 - 10:35	Discussion
10:35 - 12:00	SolPow Break
12:00 - 12:05	SolPow Opening nanoGe
	SolPow 1.2 Chair: Cristina Flox
12:05 - 12:15 1.2-T1	<u>Laxman Gouda</u> (<i>Universitat Jaume I, Institute of Advanced Materials (INAM) - Spain</i>), Laurent Sévery, Thomas Moehl, Elena Mas-Marzá, Francisco Fabregat-Santiago, David Tilley Tuning the Selectivity of Biomass Oxidation over Oxygen Evolution on NiO-OH Electrodes
12:15 - 12:25 1.2-T2	<u>Monalisa Chakraborty</u> (<i>Catalonia Institute for Energy Research (IREC)</i>), Sebastián Murcia-Lopez, Joan Ramon Morante, Teresa Andreu Facing Water Migration Issues In Aqueous zinc-iodide Flow Batteries
12:25 - 12:35 1.2-T3	<u>Feray Ünlü</u> (<i>University of Cologne, Department of Chemistry, Inorganic Chemistry</i>), Ashish Kulkarni, Sudip Chakraborty, Sanjay Mathur Towards Lead-free Perovskites for Sustainable and Low toxic Solar cell Application
12:35 - 12:45	
12:45 - 13:15	Discussion
13:15 - 13:20	SolPow Short Break
13:20 - 13:30	SolPow Session Introduction 1.3
	SolPow 1.3 Chair: Anders Bentien
13:30 - 13:50 1.3-11	<u>Ravinder Dahiya</u> (<i>University of Glasgow, James Watt School of Engineering</i>) Energy Generating Large Area Electronic Skin
13:50 - 14:10 1.3-12	Sebastian Murcia-Lopez, Félix Urbain, Nina M Carretero, <u>Cristina Flox</u> (<i>Catalonia Institute for Energy Research (IREC)</i>) New insight on solar charge vanadium redox flow batteries prototyping

14:10 - 14:30	Discussion
14:30 - 14:35	SolPow Closing
14:50 - 16:30	ePoster Session

Poster Contribution

253	<u>TeLmo da Silva Lopes</u> (<i>LEPABE - Faculdade de Engenharia, Universidade do Porto, rua Dr. Roberto Frias, 4200-465 Porto, Portugal</i>), Paula Dias, João Azevedo, Ricardo Monteiro, Dzmitry Ivanou, Adélio Mendes Facing the Engineering Challenges of Upscaling: The SolarFlow25 Cell
256	<u>Filipe Francisco</u> (<i>LEPABE - Faculdade de Engenharia, Universidade do Porto, rua Dr. Roberto Frias, 4200-465 Porto, Portugal</i>), Paula Dias, João Azevedo, Adélio Mendes Employing DoE on the synthesis of Ta ₃ N ₅ photoanodes by electrophoretic deposition