



20th International Conference on Photochemical Conversion and Storage of Solar Energy

Berlin, Germany

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Hosted by Helmholtz-Zentrum Berlin (HZB)
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Parallel Sessions — Monday 28 July 2014 10:45 - 12:15

Time	F1 — Solar Fuels Chair: Avner Rothschild (Technion, Israel) Room: Maritim	D1 — Dye Sensitized Solar Cells (DSSC) Chair: Songyuan Dai (Chinese Academy of Sciences, China) Room: Berlin B
10:45 - 11:15	F1-1 (keynote) Sunlight, Free Electrons, and Molecular Bonds: the Electrocatalysis of Solar Fuels P. Strasser TU Berlin, Germany	D1-1 (keynote) The IPS Conference Series M. Archer University of Cambridge, UK
11:15 - 11:30	F1-2 Fabrication of Silicon Nano/Micro-Structured Solar-to-Fuel Devices R. Elbersen, H. Gardeniers, J. Huskens University of Twente, The Netherlands	D1-2 Dye-Sensitized Photocathodes U. Bach ^{1,2} , T. Daeneke ² , S. Powar ¹ ¹ Monash University, Australia ² Commonwealth Scientific and Industrial Research Organization, Australia
11:30 - 11:45	F1-3 BioSolarCells: Technologies for Harvesting Solar Energy More Efficiently W. A. Smith ¹ , R. Klein-Lankhorst ² ¹ Delft University of Technology, The Netherlands ² BioSolarCells, The Netherlands	
11:45 - 12:00	F1-4 Life-Cycle Net Energy Analysis of Large-Scale Hydrogen Production via Photo-electrochemical Water-Splitting J. B. Greenblatt ^{1,2} , R. Sathre ^{1,2} , C. Scown ^{1,2} , W. R. Morrow ^{1,2} , J. Stevens ^{1,2} , J. W. Ager ^{1,2} , I. Sharp ^{1,2} , F. Houle ^{1,2} ¹ Lawrence Berkeley National Laboratory, USA ² Joint Center for Artificial Photosynthesis, USA	D1-3 Catalyzing Halide Chemistry at Sensitized Mesoporous TiO₂ Thin Films: Breaking the Glass Ceiling for Efficiency in Dye-Sensitized Solar Cells H.-Y. Chen, S. Ardo University of California Irvine, USA
12:00 - 12:15		D1-4 Accurate Measurement of Incident Photon-to-Electron Conversion Efficiency (IPCE) for Sensitized Nanocrystalline Solar Cells C. Li, Y. Luo, X. Guo, H. Wu, D. Li, Q. Meng Chinese Academy of Sciences, China