



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

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Parallel Sessions — Thursday 31 July 2014 16:30 - 18:00

| Time | H3 — Photocatalytic Reduction Chair: Detlef Bahnemann (L. Univ. Hannover, Germany) Room: Berlin C | E2 — Photoinduced Electron Transfer Chair: Rainer Eichberger (HZB, Germany) Room: Salon 7 |
|---------------------|---|--|
| 16:30 - 16:45 | H3-1 Photocatalytic Hydrogen Production with Noble Metal-Modified F-doped TiO₂ E. Selli, M. V. Dozzi, G. L. Chiarello Università degli Studi di Milano, Italy | E2-1 Quantum Photoelectrochemistry of Nanoscale Solar Energy Conversion Process P. Persson, M. Knitter, S. Hedström, L. A. Fredin Lund University, Sweden |
| 16:45 - 17:00 | H3-2 Understanding and Improving Photocatalysts Based on Isolated Titanate Species on Silica B. Mei, A. Pougin, J. Strunk Ruhr-University Bochum, Germany | E2-2 Photo-induced Charge Separation Between Dye Molecules Adsorbed to Aluminum Oxide Surfaces U. B. Cappel, S. A. Haque, D. Moia, P. R. F. Barnes Imperial College London, UK |
| 17:00 - 17:15 | H3-3 Robust H₂ Generation Based on Semiconductor Quantum Dots Sensitization of Titania under Visible Light G. Zhang ^{1,2} , H.-I. Kim ¹ , J. T. S. Irvine ² , W. Choi ¹ ¹ Pohang University of Science and Technology, Korea ² University of St Andrews, UK | E2-3 Ultrafast Spectroscopy and Numerical Simulation of Inhomogeneous Electron Injection Dynamics in Dye-Sensitized Solar Cells A. Furube ^{1,2} , K. Sunahara ^{1,2} , H. Matsuzaki ¹ ¹ National Institute of Advanced Industrial Science and Technology, Japan ² University of Tsukuba, Japan |
| 17:15 - 17:30 | H3-4 Cu(II) Pre-Grafted Pt/TiO₂ for Photocatalytic H₂ Production M. V. Dozzi, G. L. Chiarello, E. Selli Università degli Studi di Milano, Italy | E2-4 Managing Holes in Dye Sensitized Oxide Nanostructures D. Moia ¹ , T. Leijtens ² , V. Vaissier ² , J. Nelson ¹ , H. J. Snaith ² , P. R. F. Barnes ¹ ¹ Imperial College London, UK ² University of Oxford, UK |
| 17:30 - 17:45 | H3-5 Photocatalytic H₂ Production over Pt/TiO₂ Photocatalysts: from Citric Acid-Water, and Triethanolamine-Water Mixtures: a Comparative Study A. F. Alkaim ^{1,2} , T. A. Kandiel ³ , R. Dillert ¹ , D. W. Bahnemann ¹ ¹ Leibniz Universität Hannover, Germany ² Babylon University, Iraq ³ Sohag University, Egypt | E2-5 A New Way to Explore Photoelectron-induced Processes in DSSC's R. Cisneros ^{1,2} , M. Beley ² , F. Lapique ² ¹ iS2-SAS, France ² University of Lorraine, France |
| 17:45 - 18:00 | H3-6 Visible-light Active Black TiO₂-Ag/TiO_x Particles K. Fujiwara ¹ , Y. Deligiannakis ^{1,2} , C. G. Skoutelis ² , S. E. Pratsinis ¹ ¹ ETH Zurich, Switzerland ² University of Patras, Greece | E2-6 Manipulation of Electron Transfer Dynamics in Zinc Phthalocyanine Sensitized TiO₂ Nanoparticles by Modification of the Anchoring Ligand D. Sharma ¹ , G. Steen ¹ , M. García-Iglesias ² , P. Vázquez ² , T. Torres ² , J. Herek ¹ , A. Huijser ¹ ¹ University of Twente, The Netherlands ² Autonoma University of Madrid, Spain |