

Solar Energy Harvesting

EDITORIAL

- 113 A.-S. Chauvin, M. Grätzel
- 116 Computational Comparison of CPDT to other Conjugated Linkers in Triarylamine-based Organic Dyes
*C. Climent, D. Casanova**
- 121 Everything you always wanted to Know about Black Dye (but Were Afraid to Ask): A DFT/TDDFT Investigation
S. Fantacci, M. G. Lobello, F. De Angelis*
- 129 Near-infrared Sensitization in Dye-sensitized Solar Cells
J. Park, G. Viscardi, C. Barolo, N. Barbero*
- 136 One-dimensional and (001) Facetted Nanostructured TiO₂ Photoanodes for Dye-sensitized Solar Cells
H. Lin, X. Wang, F. Hao*
- 142 Dye-sensitized Solar Cells Employing a SnO₂-TiO₂ Core-shell Structure Made by Atomic Layer Deposition
*M. Karlsson, I. Jögi, S. K. Eriksson, H. Rensmo, M. Boman, G. Boschloo, A. Hagfeldt**
- 149 The Application of Electrospun Titania Nanofibers in Dye-sensitized Solar Cells
*H. Krysova, A. Zukal, J. Trckova-Barakova, A. K. Chandiran, M. K. Nazeeruddin, M. Grätzel, L. Kavan**
- 155 Solar-to-Chemical Energy Conversion with Photoelectrochemical Tandem Cells
*K. Sivula**
- 162 Perovskite-related Oxynitrides in Photocatalysis
S. Pokrant, A. E. Maegli, G. L. Chiarello, A. Weidenkaff*
- 168 An n-Si/n-Fe₂O₃ Heterojunction Tandem Photoanode for Solar Water Splitting
R. van de Krol, Y. Liang*
- 172 From 1e-4 m² to 2e+4 m² and Beyond: The Long Road from Lab to Manufacturing
*J. Meschter**
- 181 Stained Glass Solar Windows for the Swiss Tech Convention Center
*E. Barraud**

COLUMNS

- 183 BIOTECHNET REPORT
Biotechnet Switzerland – Let the Future Begin!
E. Heinzelmann
- 187 SWISS SCIENCE CONCENTRATES
Prepared by
P. Burch, N. Bruns, R. Reuter, P. Tosatti, T. R. Ward
- 188 HIGHLIGHTS OF ANALYTICAL SCIENCES IN SWITZERLAND
The Story of Pearls – An Elemental Perspective
*S. Allner, F. Peretti, K. Hametner, M. B. Fricker, A. Peretti, D. Günther**
- 189 SCNAT
Young Faculty Meeting 2013

SWISS CHEMICAL SOCIETY

- 190 Rigi Workshop 2013
- 191 A warm welcome to our new members!
- 192 Division für Analytische Wissenschaften: Weiterbildung Analytik

INFORMATION

- 193 News
- 193 Conferences/Workshops/Symposia
- 194 Lectures

CHIMIA REPORT/COMPANY NEWS

- 196 Markt, Apparate, Chemikalien und Dienstleistungen