

Molecular Electronics

EDITORIAL

- 348 Molecular Electronics – From a Visionary Concept Towards Reality
M. Mayor
- 350 Molecular Electronics: Insight from First-Principles Transport Simulations
*M. Paulsson, T. Frederiksen, M. Brandbyge**
- 356 Photochromic Molecules as Building Blocks for Molecular Electronics
P. Belsler
- 362 Test-beds for Molecular Electronics: Metal–Molecules–Metal Junctions Based on Hg Electrodes
*F. C. Simeone, M. A. Rampi**
- 370 Scanning Tunneling Spectroscopy of Molecules on Insulating Films
J. Repp, G. Meyer*
- 376 Molecular Electronics – Resonant Transport through Single Molecules
E. Lörtscher, H. Riel*
- 383 Charge Transport with Single Molecules – An Electrochemical Approach
*C. Li, A. Mishchenko, I. Pobelov, T. Wandlowski**
- 391 Molecular Junctions: From Tunneling to Function
M. Calame
- 398 Light and Redox Switchable Molecular Components for Molecular Electronics
W. R. Browne, B. L. Feringa**
- 404 From Nanofabrication to Self-fabrication – Tailored Chemistry for Control of Single Molecule Electronic Devices
*K. Moth-Poulsen, T. Bjørnholm**
- 409 Nonplanar Push–Pull Chromophores for Opto-Electronic Applications
*B. Breiten, I. Biaggio, F. Diederich**
- 414 Recent Advances in Molecular Electronics Based on Carbon Nanotubes
J.-P. Bourgoin, S. Campidelli, P. Chenevier, V. Derycke, A. Filoramo, M. F. Goffman*

COLUMNS

- 421 CONFERENCE REPORT
The 45th EUCHEM Conference on Stereochemistry (Bürgenstock Conference 2010)
*C. Mazet**, *C. Nevado**
- 425 SWISS SCIENCE CONCENTRATES
Prepared by
*R. Bach, R. Ballesteros-Garrido, D. Conreaux, J. Gouin, A. Sharma, D. Rix, J. Lacour**
- 426 HIGHLIGHTS OF ANALYTICAL CHEMISTRY IN SWITZERLAND
Analyses of Helium, Uranium, and Thorium in Ancient Gold Objects and Estimates of their
Time of Manufacturing
*O. Eugster**
- 427 POLYMER AND COLLOID HIGHLIGHTS
Macrocyclic Molecules for the Design of Self-Assembling Amphiphiles
P. Shahgaldian
- 428 SIMPLY SCIENCE
Viehmist und Vogelkot war gestern
- 430 SCNAT
2010 SCNAT/SCS Chemistry Travel Award
B. Winter-Werner

SWISS CHEMICAL SOCIETY

- 433 Division of Medicinal Chemistry

EuCHEMS

- 434 EuChemMS Newsletter

CHIMIA REPORT/COMPANY NEWS

- 438 Markt, Apparate, Chemikalien und Dienstleistungen