Catalytic Activation of Small Molecules

EDITORIAL

313 G. Laurenczy, M. Beller

316 Iridium-mediated Bond Activation and Water Oxidation as an Exemplary Case of CARISMA, A European Network for the Development of Catalytic Routines for Small Molecule Activation
G. Licini, M. Albrecht*

321 The Role of Proton Transfer in Heterogeneous Transformations of Hydrocarbons
D. P. Estes, C. Copéret*

327 Nitrous Oxide-dependent Iron-catalyzed Coupling Reactions of Grignard Reagents
P. Döhlert, M. Weidauer, S. Enthaler*

331 New Wind in Old Sails: Novel Applications of Triphos-based Transition Metal Complexes as Homogeneous Catalysts for Small Molecules and Renewables Activation
I. Mellone, F. Bertini, L. Gonsalvi,* A. Guerriero, M. Peruzzini*

339 Effect of 2-Propanol on the Transfer Hydrogenation of Aldehydes by Aqueous Sodium Formate using a Rhodium()-sulfonated Triphenylphosphine Catalyst
A. Kathó*, I. Szatmári, G. Papp, F. Joó

345 Transition Metal-free Methylation of Amines with Formaldehyde as the Reductant and Methyl Source
N. Y. T. Man, W. Li, S. G. Stewart, X.-F. Wu*

348 Dehydrogenation of Formic Acid by Heterogeneous Catalysts
J. Li, Q.-L. Zhu, Q. Xu*

353 Conditions for the Use of CO₂
A. Dibenedetto
**COLUMNS**

**BIOTECHNET**
362 The Management Centre Innsbruck
Keeping one step ahead with algae innovation
*E. Heinzelmann*

365 ORION – A Global Approach to Waste Management
*E. Heinzelmann*

**HIGHLIGHTS OF ANALYTICAL SCIENCES IN SWITZERLAND**
What are the Sources of Aerosols during Haze Events in China?
*S. Szidat*, A. S. H. Prévôt

**POLYMER AND COLLOID HIGHLIGHTS**
Stable Ferromagnetic Nanoparticle Dispersions in Aqueous Solutions
*C. J. Hofer, M. Zeltner, R. N. Grass, W. J. Stark* *

**SWISS SCIENCE CONCENTRATES**
Prepared by
*C. D. Bösch, M. Probst, Y. Vyborna, M. Vybornyi, S. M. Langenegger, R. Häner* *

**SWISS CHEMICAL SOCIETY**
371 Call for Nominations for the SCS Scientific Awards 2016

372 News

373 A warm welcome to our new members!

374 Division für Analytische Wissenschaften: Weiterbildung Analytik

**INFORMATION**

375 News

376 Conferences in Switzerland

376 Lectures

**EuCheMS**

377 EuCheMS Newsletter

**CHIMIA REPORT/COMPANY NEWS**

382 Markt, Apparate, Chemikalien und Dienstleistungen