

# Laureates: Junior Prizes of the SCS Fall Meeting 2017

## EDITORIAL

- 181 *H. P. Lüthi, S. Decurtins*
- 184 On-line Breath Metabolomics in Respiratory Diseases Using Secondary Electrospray Ionization-Mass Spectrometry  
*M. T. Gaugg*
- 189 Directed Evolution of Artificial Metalloenzymes: Genetic Optimization of the Catalytic Activity  
*M. Hesticová*
- 193 Understanding Non-Covalent Interactions: Correlated Energy Decomposition Analysis and Applications to Halogen Bonding  
*J. F. Gonthier\*, J. Thirman, M. Head-Gordon*
- 199 Four-electron Reduction and Functionalization of N<sub>2</sub> by a Uranium(III) Bridging Nitride  
*M. Falcone, M. Mazzanti\**
- 203 Heptacoordinate Co(II) Catalyst for Light-driven Hydrogen Production in Fully Aqueous Medium  
*F. Lucarini\*, A. Ruggi\**
- 207 Ruthenium-based Photocatalysis in Templated Reactions  
*J. Saarbach\*, E. Lindberg, N. Winssinger\**
- 212 Transforming Olefins into Dinucleophiles  
*A. García-Domínguez, C. Nevado\**
- 216 High-spin Metal Centres in Dipolar EPR Spectroscopy  
*K. Keller, T. Wiegand, R. Cadalbert, B. H. Meier, A. Böckmann, G. Jeschke, M. Yulikov\**
- 221 Analysis of Inorganic Nanoparticles by Single-particle Inductively Coupled Plasma Time-of-Flight Mass Spectrometry  
*L. Hendriks, A. Gundlach-Graham\*, D. Günther*
- 227 Photoelectron Photoion Coincidence Spectroscopy to Unveil Reaction Mechanisms by Isomer-selective Detection of Elusive Molecules: From Combustion to Catalysis  
*P. Hemberger, A. Bodi*
- 233 Base-free Asymmetric Transfer Hydrogenation of 1,2-Di- and Monoketones Catalyzed by a Chiral Iron(II) Hydride  
*L. De Luca\*, A. Mezzetti*
- 238 Repurposing the Selective Oestrogen Receptor Modulator Tamoxifen for the Treatment of Duchenne Muscular Dystrophy  
*E. Gayi, L. A. Nef, H. M. Ismail, U. T. Ruegg, L. Scapozza, O. M. Dorchies\**
- 241 Induction of Intracellular Reductive Stress with a Photoactivatable Phosphine Probe  
*A. Tirla\*, P. Rivera-Fuentes*
- 245 Complexation and Structure Elucidation of the Axial Conformers of Mono- and ( $\pm$ )-*trans*-1,2-Disubstituted Cyclohexanes by Enantiopure Allenic-Acetylenic Cage Receptors  
*C. Gropp\*, N. Trapp*
- 249 Ag Nanoencapsulation for Antimicrobial Applications  
*S.-L. Abram, J. Gagnon, M. Priebe, N. Héroult, K. M. Fromm\**

## COLUMNS, CONFERENCE REPORTS

---

- 253 SWISS SCIENCE CONCENTRATES  
Prepared by  
*A. Johnson, A. Karimi, C. L. Lin, V. Schreier, N. W. Luedtke\**
- 254 HIGHLIGHTS OF ANALYTICAL SCIENCES IN SWITZERLAND  
Three-quarters of World's Honey Contain Neonicotinoids  
*A. Mutabazi, B. Mulhauser, M. Mulot, A. Aebi, E. Mitchell, G. Glauser\**
- 255 CONFERENCE REPORT  
Swiss Youth in Science: Study Week in 'Chemistry and Materials Science'  
*J. Aebischer\**

## COMMUNITY NEWS

---

- 257 SCNAT: Young Faculty Meeting 2018 – Hiring and Getting Hired
- 258 Swiss Chemical Society News
- 258 Honors, Awards, Appointments
- 259 Journal News
- 260 Industrial News

## EVENTS

---

- 263 SCS Conferences and Symposia
- 265 Non-SCS Conferences in Switzerland
- 265 SCS Lectureships
- 266 Lectures

## CHIMIA REPORT/COMPANY NEWS

---

- 271 Markt, Apparate, Chemikalien und Dienstleistungen