

# Chemistry and the Environment

- 105 Editorial  
*K. Fenner, S. Höger, V. I. Slaveykova*
- 108 Enzyme Kinetics of Organic Contaminant Oxygenations  
*C. E. Bopp, H.-P. E. Kohler, T. B. Hofstetter\**
- 115 When Environmental Chemistry Meets Ecotoxicology: Bioavailability of Inorganic Nanoparticles to Phytoplankton  
*V. I. Slaveykova\*, M. Li, I. A. Worms, W. Liu*
- 122 Inhibition of Extracellular Enzymes Exposed to Cyanopeptides  
*C. M. Egli, R. S. Natumi, M. R. Jones, E. M.-L. Janssen\**
- 129 "Is there anybody else out there?" – First Insights from a Suspect Screening for Phytotoxins in Surface Water  
*B. F. Günthardt, C. D. Schönsee, J. Hollender, K. Hungerbühler, M. Scheringer, T. D. Bucheli\**
- 136 Long-term Observations of Atmospheric Halogenated Organic Trace Gases  
*S. Reimann\*, M. K. Vollmer, M. Hill, P. Schlauri, M. Guillevic, D. Brunner, S. Henne, D. Rust, L. Emmenegger*
- 142 UVB-irradiated Laboratory-generated Secondary Organic Aerosol Extracts Have Increased Cloud Condensation Nuclei Abilities: Comparison with Dissolved Organic Matter and Implications for the Photomineralization Mechanism  
*N. Borduas-Dedekind\*, S. Nizkorodov, K. McNeill*
- 149 The Metal Catalyst Influences the Kinetics and Mechanisms of MS2 Inactivation in Fenton-like Systems  
*J. I. Nieto-Juarez, T. Kohn\**
- 156 Behavior of Glyphosate in Wastewater Treatment Plants  
*T. Poiger\*, M. Keller, I. J. Buerge, M. E. Balmer*
- 161 Assessment, Pretreatment and Treatment of Pharmaceutical Production Wastewaters in the Roche Group  
*J. O. Straub\*, C. Acklin, J. Klemmer, M. A. Kurlbaum, B. Li, M. Studer, R. Zurbrügg, A. Häner\**
- 168 PeBiToSens™: A Platform for PBT Screening of Fragrance Ingredients Without Animal Testing  
*H. Laue\*, L. Hostettler, G. Sanders, G. Kreutzer, A. Natsch\**
- 176 Under Review: Data Requirements and Method Development of a New Bee Risk Assessment Scheme for Plant Protection Product Registration  
*L. Jeker\*, D. Grossar*
- 183 Challenges of Regulatory Environmental Risk Assessment for Human Pharmaceuticals with Focus on Antibiotics  
*R. A. Wess\*, T. Schmidt, S. Höger*

## COLUMNS, CONFERENCE REPORTS

---

- 192 SWISS SCIENCE CONCENTRATES  
*Y. Baumgartner, N. Niggli, D. Savary, P. Thesmar, O. Baudoin\**
- 193 HIGHLIGHTS OF ANALYTICAL SCIENCES IN SWITZERLAND  
An Introduction to Analytics for Autologous Cell and Gene Therapies  
*C. Meyer\*, E. Rutjens, T. Merlin*
- 194 MEDICINAL CHEMISTRY AND CHEMICAL BIOLOGY HIGHLIGHTS  
Epitranscriptomics: RNA Biology Moves into the Focus of Medicinal Chemistry  
*G. Müller*
- 196 CHEMICAL EDUCATION  
Interdisciplinary Projects Applied to Chemistry Lessons: Example of Chemistry Linked to Food Science  
*L. Moreau\*, V. Breguet Mercier\**

## COMMUNITY NEWS

---

- 199 Swiss Chemical Society News
- 199 Honors, Awards, Appointments
- 200 Journal News
- 200 Industrial News

## EVENTS

---

- 204 SCS Conferences and Symposia
- 208 Non-SCS Conferences in Switzerland
- 209 SCS Lectureships
- 210 Lectures April 2020
- 211 Further Education in Chemical Analysis

## CHIMIA REPORT/COMPANY NEWS

---

- 213 Markt, Apparate, Chemikalien und Dienstleistungen