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Abiotic Reactions in Live Environments

This release includes the final four chapters from the volume **Abiotic Reactions in Live Environments**, edited by **Prof. José Luis Mascareñas** and **María Tomás-Gamasa** (University of Santiago de Compostela, Spain). The full list of chapters for this volume is shown here.

- **From Biological Chemistry to Bioorthogonal Reactions**
M. Vrabel
- **Strain-Promoted Bioorthogonal Chemistry**
N. Pfeleger, A. Schiefer, and H. Mikula
- **Metal Catalysis in Live Environments**
M. Tomás-Gamasa and J. L. Mascareñas
- **Artificial Metalloenzymes In Vivo**
G. Roelfes
- **Bioorthogonal Nanozymes for Catalysis in Living Systems**
C.-M. Hirschbiegel, J. I. García-Peiro, Y. A. Cicek, J. L. Hueso, and V. M. Rotello
- **Photocatalysis in Chemical Biology**
A. Kohyama and N. Winssinger
- **Bioorthogonal Supramolecular Assemblies in Cells**
J. Geng, N. Sapkota, and S. Lin
- **Biomimetic Nanozymes**
S. Jin and Y. Jeong
- **Protein Modification Through Metabolic Incorporation of Noncanonical Amino Acids**
B. J. Ignacio, L. Herwig, N. van der Zanden, K. M. Bonger
- **Bioorthogonal Tools for the Synthesis, Modification, and Analysis of Lipids**
F. A. Souto-Trinei, N. K. Devaraj, and R. J. Brea
- **Bioorthogonal Chemistry of Nucleic Acids**
R. M. R. M. Lopes, J. Barr, J. H. Meffert, A. Colaker, G. Colpaert, S. Ghosh, E. Cadoni, and A. Madder

- **Abiotic Chemistry in Living Animals: Therapeutic Applications**
K. Porte, F. Thoreau, S. Papot, and F. Taran
- **Bioorthogonal Strategies for the Uncaging and Assembly of Drugs**
C. Adam, Á. Lorente-Macías, S. Croke, and A. Unciti-Broceta

Hypervalent Halogens in Organic Synthesis

This release includes six new "early view" articles from the upcoming volume **Hypervalent Halogens in Organic Synthesis**, edited by **Prof Jérôme Waser** (EPFL, Lausanne, Switzerland).

- **Synthesis and Applications of Water-Soluble Hypervalent Iodine Reagents**
Chi Zhang and Ya-Nan Duan
- **Synthesis and Applications of Benziodazole-Based Hypervalent Iodine Reagents**
Dan Xiao and Yunfei Du
- **Synthesis and Applications of Alkynylbenziodoxol(on)es**
Stefano Nicolai and Jérôme Waser
- **Synthesis and Applications of Vinyl- and Arylbenziodoxol(on)es**
Naohiko Yoshikai
- **C–N Bond Forming Reactions with Hypervalent Iodine Reagents**
Kensuke Kiyokawa
- **Aromatic Halogenation and Nitration with Hypervalent Iodine Reagents**
César R. Solorio-Alvarado

Science of Synthesis Knowledge Updates

SOS is continuously updated with high-quality content using clearly defined criteria for method selection as well as established editorial processes. The Editorial Board, in conjunction with the volume editors and expert authors, reviews the whole field of synthetic organic chemistry as presented in SOS and evaluates significant developments in synthetic methodology.

This release includes two new articles from the **Knowledge Updates**.

- **Cinnolines**
J. J. Li
- **F/Hal Acetals**
Q. Cheng and X. Shen