

CHEMICAL REVIEWS

JULY 8, 2015

VOLUME 115 NUMBER 13

pubs.acs.org/CR

complexity from **simplicity**

hierarchy

structure

by

self-assembly



ACS Publications
Most Trusted. Most Cited. Most Read.

www.acs.org

CHEMICAL REVIEWS

July 8, 2015: Vol. 115, Iss. 13

Content

- 1. Advances in Colloidal Assembly: The Design of Structure and Hierarchy in Two and Three Dimensions**
Nicolas Vogel, Markus Retsch, Charles-André Fustin, Aranzazu del Campo, and Ulrich Jonas
Chemical Reviews **2015** 115 (13), 6265-6311
DOI: 10.1021/cr400081d
- 2. Solvation Thermodynamics of Organic Molecules by the Molecular Integral Equation Theory: Approaching Chemical Accuracy**
Ekaterina L. Ratkova, David S. Palmer, and Maxim V. Fedorov
Chemical Reviews **2015** 115 (13), 6312-6356
DOI: 10.1021/cr5000283
- 3. Structure and Nanostructure in Ionic Liquids**
Robert Hayes, Gregory G. Warr, and Rob Atkin
Chemical Reviews **2015** 115 (13), 6357-6426
DOI: 10.1021/cr500411q
- 4. QSAR Studies on Hydroxamic Acids: A Fascinating Family of Chemicals with a Wide Spectrum of Activities**
Satya P. Gupta
Chemical Reviews **2015** 115 (13), 6427-6490
DOI: 10.1021/cr500483r
- 5. Gaseous O₂, NO, and CO in Signal Transduction: Structure and Function Relationships of Heme-Based Gas Sensors and Heme-Redox Sensors**
Toru Shimizu, Dongyang Huang, Fang Yan, Martin Stranava, Martina Bartosova, Veronika Fojtiková, and Markéta Martinková
Chemical Reviews **2015** 115 (13), 6491-6533
DOI: 10.1021/acs.chemrev.5b00018
- 6. De Novo Synthesis of Gem-Dialkyl Chlorophyll Analogues for Probing and Emulating Our Green World**
Jonathan S. Lindsey
Chemical Reviews **2015** 115 (13), 6534-6620
DOI: 10.1021/acs.chemrev.5b00065
- 7. The Golden Age of Transfer Hydrogenation**
Dong Wang and Didier Astruc
Chemical Reviews **2015** 115 (13), 6621-6686
DOI: 10.1021/acs.chemrev.5b00203