

A Journal of the Gesellschaft Deutscher Chemiker

Angewandte Chemie

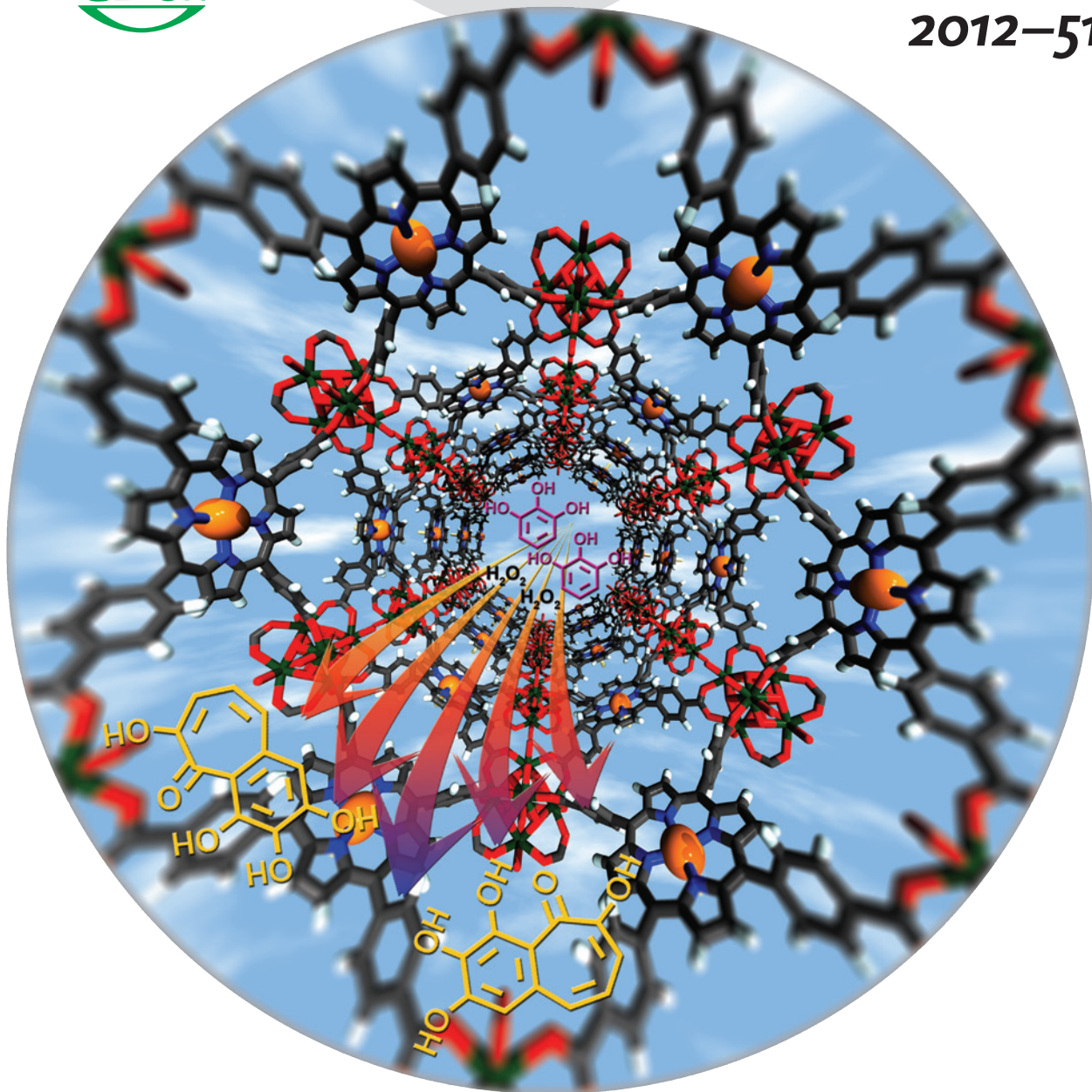
International Edition

D 3461



www.angewandte.org

2012–51/41



C–H Activation of Simple Arenes

Review by F. Glorius et al.

Redox-Active Ligands in Catalysis

Minireview by T. R. Ward et al.

Highlights: Oxygen Heterocycles from Alkenes • Molecular Motors

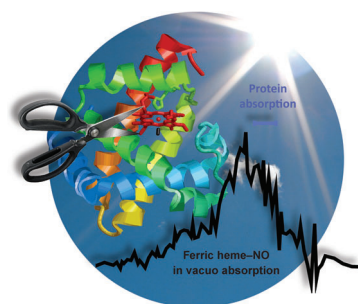
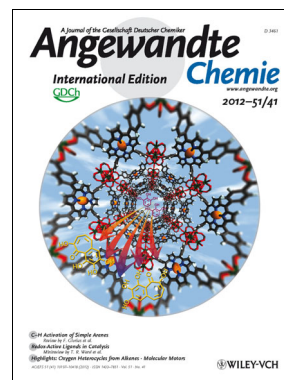
ACIEFS 51 (41) 10197–10418 (2012) • ISSN 1433–7851 • Vol. 51 • No. 41

 WILEY-VCH

Cover Picture

Dawei Feng, Zhi-Yuan Gu, Jian-Rong Li, Hai-Long Jiang, Zhangwen Wei, and Hong-Cai Zhou*

Acid-resistant, water-stable MOFs with ultra-large 1D channels exhibiting biomimetic catalytic activity have been developed. In their Communication on page 10307 ff., H.-C. Zhou and co-workers report the synthesis, characterization, and catalytic studies of an isostructural series of MOFs designated as PCN-222. The combination of a zirconium cluster and an iron-porphyrin derivative gave rise to PCN-222(Fe), which is highly effective in catalyzing the oxidation of a number of peroxidase substrates.

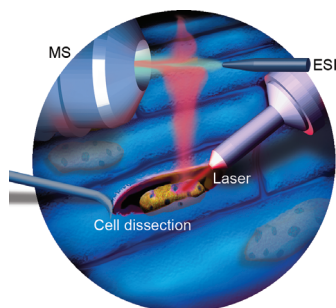
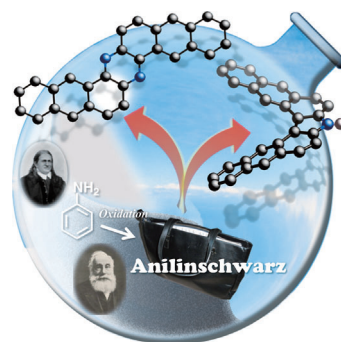


Photobiophysics

In their Communication on page 10256 ff., J. A. Wyer and S. Brøndsted Nielsen describe the gas-phase spectroscopy of isolated ferric heme nitrosyl ions and complexes with different amino acids.

Oligoacenes

H. Shinokubo et al. report the selective formation of diazaacenes and azahelicenes through the oxidation of aminoanthracene derivatives in their Communication on page 10333 ff.



Analytical Methods

In their Communication on page 10386 ff., A. Vertes et al. outline the compartmentalization of metabolites within subcellular domains by using cell microdissection and laser ablation electrospray ionization mass spectrometry.