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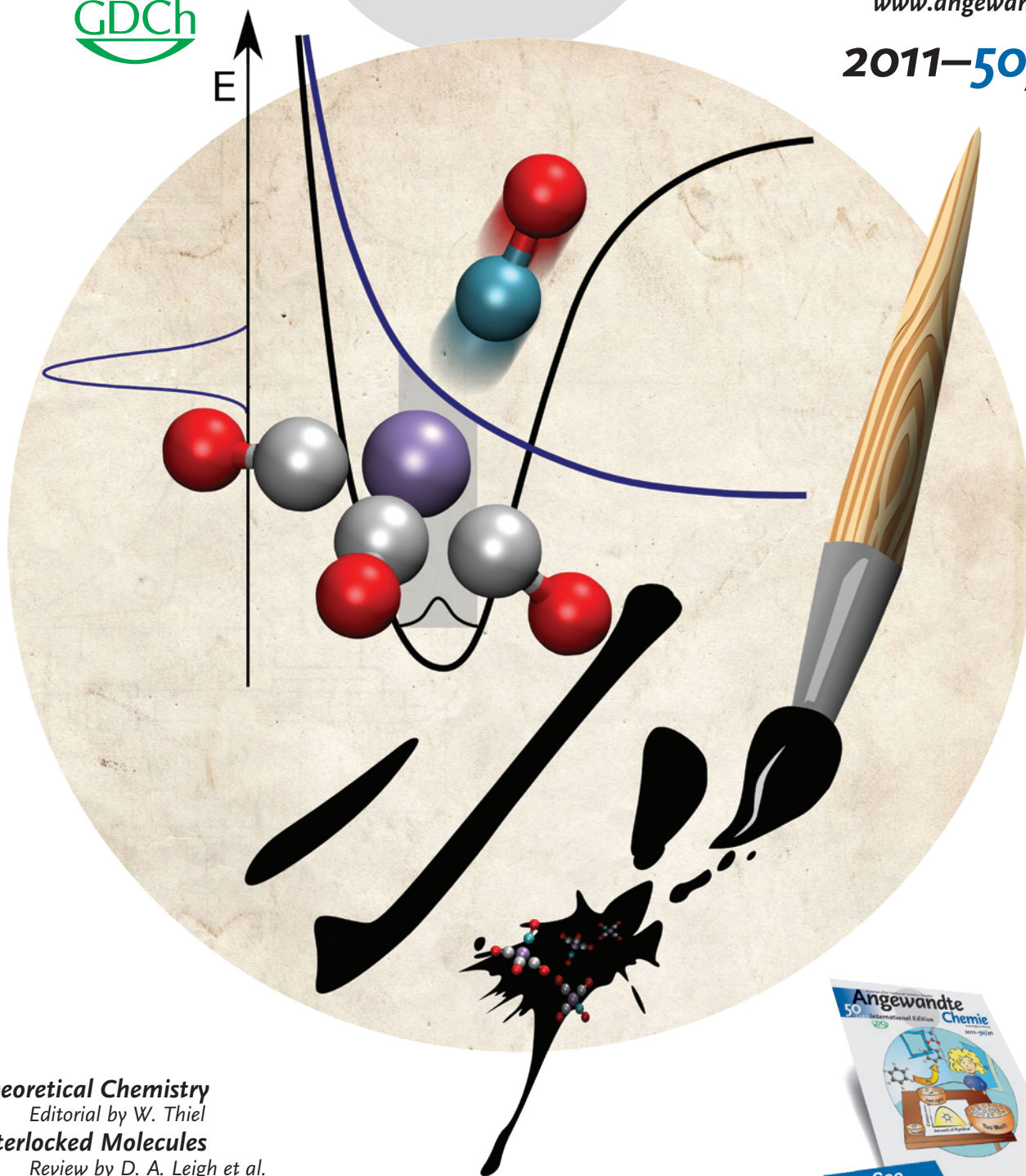
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Theoretical Chemistry

Editorial by W. Thiel

Interlocked Molecules

Review by D. A. Leigh et al.

Fullerene Hosts

Minireview by N. Martín et al.

Highlights: Biodegradable Polymers • Hydrogen Storage

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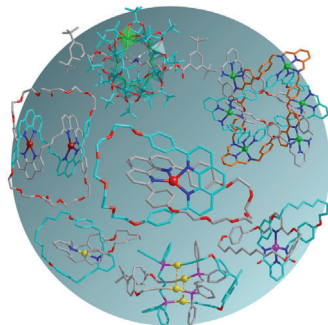


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Cover Picture

Sarah Engmann, Michal Stano, Štefan Matejčík,* and Oddur Ingólfsson*

Absolute cross-sections for dissociative electron attachment (DEA) to the typical focused electron beam induced processing (FEBIP) precursor cobalt tricarbonyl nitrosyl are reported. Nanostructures written by FEBIP can potentially be smeared and contaminated by back-scattered and secondary low-energy electrons. In their Communication on page 9475 ff. Š. Matejčík, O. Ingólfsson, and co-workers discuss the role of DEA to metal–organic compounds in FEBIP.

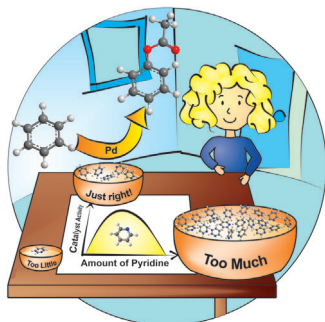
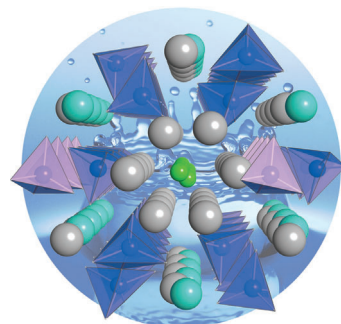


Supramolecular Chemistry

Catenanes, rotaxanes, knots, etc. can all be accessed by methods in which metal ions play a pivotal role. The early structure-building function of the metal has now evolved to encompass catalysis, and the current state of these developments is analyzed by D. A. Leigh et al. in their Review on page 9260 ff.

Solid Oxide Fuel Cells

In their Communication on page 9328 ff. J. V. Hanna, P. R. Slater, M. S. Islam, and co-workers study interstitial oxide-ion defects in apatit germanates by atomistic simulations, DFT, and ^{17}O solid-state NMR spectroscopy.



C–H Activation

Pd/pyridine catalyst systems for efficient C–H oxygenation of simple arenes are described by M. S. Sanford and co-workers in their Communication on page 9409 ff. Use of an exact Pd/pyridine ratio results in higher reactivity and selectivity.