

Highlights

Catalyst Design

T. Bligaard

Linear Energy Relations and the Computational Design of Selective Hydrogenation/Dehydrogenation Catalysts

Catalysis with Light

K. Zeitler

Photoredox Catalysis with Visible Light

Reviews

C–H Functionalization

L. Ackermann et al.

Transition-Metal-Catalyzed Direct Arylation of (Hetero)Arenes by C–H Bond Cleavage

Communications

Metal–DNA Structures

H. F. Sleiman et al.

Templated Ligand Environments for the Selective Incorporation of Different Metals into DNA (**Cover Picture**)

Passivation Doping

R. Q. Zhang, S. T. Lee et al.

Surface Passivation and Transfer Doping of Silicon Nanowires

Chemical Shifts

C. Corminboeuf et al.

Direct Assessment of Electron Delocalization Using NMR Chemical Shifts

Nanostructures

W. Lu, C.-M. Che et al.

Photoresponsive Supramolecular Organometallic Nanosheets Induced by $Pt^{II} \cdots Pt^{II}$ and C–H $\cdots\pi$ Interactions

CO₂ Reduction

A. E. Ashley, D. O'Hare et al.

Non-Metal-Mediated Homogeneous Hydrogenation of CO₂ to CH₃OH

Main-Group Chemistry

D. P. Gates et al.

Abnormal Reactivity of an N-Heterocyclic Carbene (NHC) with a Phosphaalkene: A Route to a 4-Phosphino-Substituted NHC

σ -Acceptor Ligands

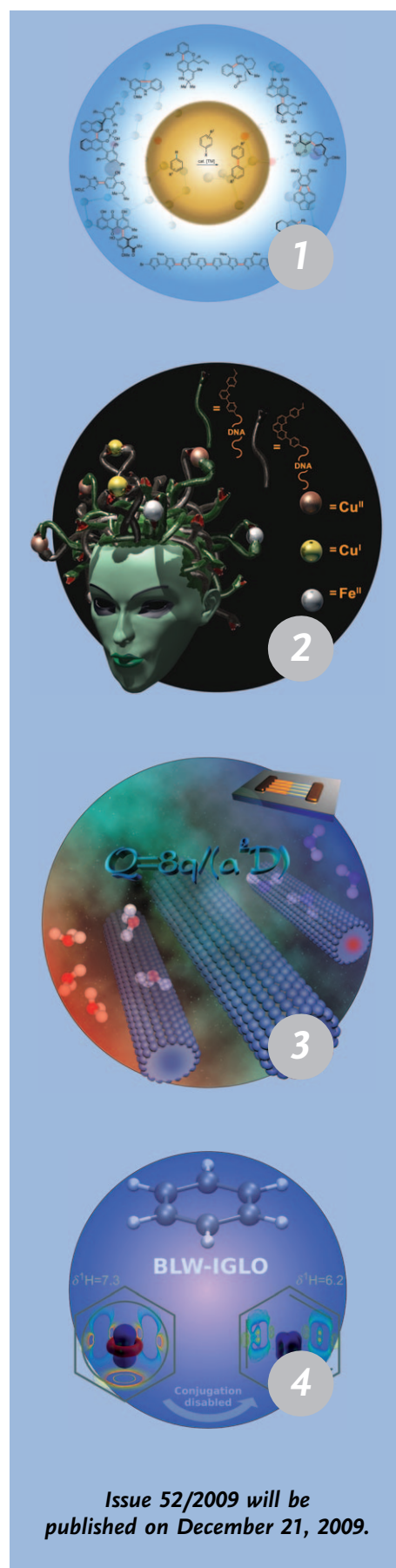
L. Maron, F. P. Gabbaï, D. Bourissou et al.

Gold–Silane and Gold–Stannane Complexes: Saturated Molecules as σ -Acceptor Ligands

Hydrogen Generation

M. Beller et al.

Light-Driven Hydrogen Generation: Efficient Iron-Based Water Reduction Catalysts



Issue 52/2009 will be
published on December 21, 2009.