

Highlights

DNA Demethylation

M. Jung and K. I. Ladwein

Oxidized Cytosine Metabolites Offer a Fresh Perspective for Active DNA Demethylation

Reaction Mechanisms

D. Maiti et al.

Metal-Mediated Deformylation Reactions: Synthetic and Biological Avenues

Organocatalysis

P. I. Dalko et al.

Asymmetric α Alkylation of Aldehydes: Efficiency with Elegance

Minireviews

Synthetic Methods

J. Clayden and N. Volz

The Urea Renaissance

Reviews

Chemical Genetics

D. Trauner et al.

Optochemical Genetics

Communications

Dye-Sensitized Solar Cells

A. Vomiero et al.

Hierarchically Assembled ZnO Nanocrystallites for High-Efficiency Dye-Sensitized Solar Cells **(Cover Picture)**

Gas-Phase Reactions

M. Schlangen, H. Schwarz et al.

Catalytic Redox Reactions in the CO/N₂O System Mediated by the Bimetallic Oxide-Cluster Couple AlVO₃⁺/AlVO₄⁺ **(Inside Cover)**

Nanoparticle Catalysis

A. Jutand, Z. Q. Tian, C. Amatore et al.

Au–Pd Core–Shell Nanoparticles Catalyze Suzuki–Miyaura Reactions in Water through Pd Leaching **(Frontispiece)**

Chemical Topology

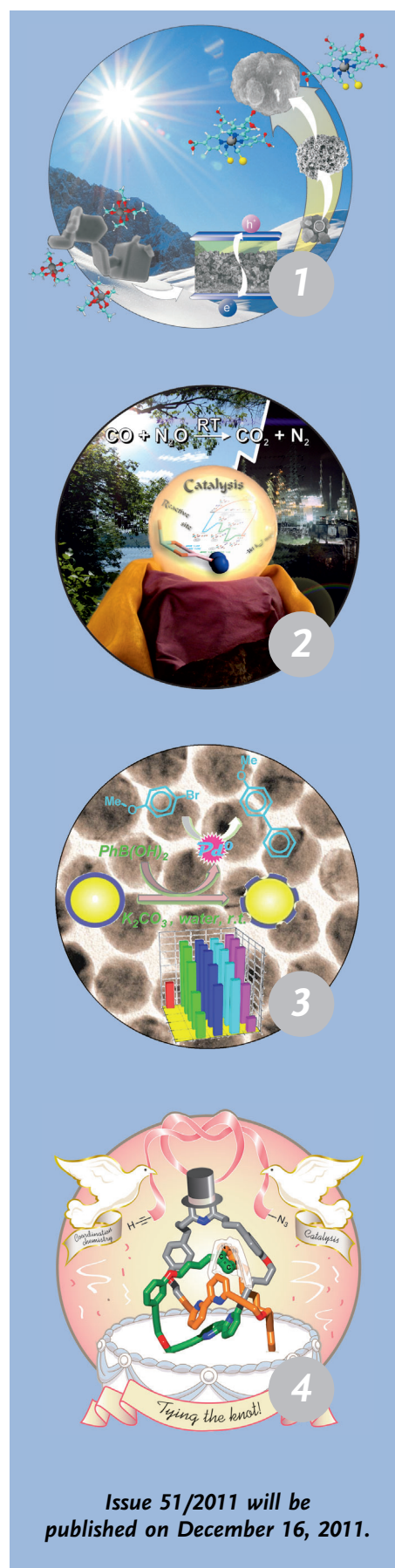
D. A. Leigh et al.

Active-Metal Template Synthesis of a Molecular Trefoil Knot **(Back Cover)**

Functional MOFs

S. M. Cohen et al.

Metal–Organic Framework Regioisomers Based on Bifunctional Ligands



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