

## Highlights

### Photoaffinity Reagents

A. Sinz

Isotope-Labeled Photoaffinity Reagents and Mass Spectrometry To Identify Protein–Ligand Interactions

### meta Photocycloaddition

J. Mattay

Photochemistry of Arenes—Reloaded

## Reviews

### Spintronics

C. Felser et al.

Spintronics: A Challenge for Materials Science and Solid-State Chemistry

## Communications

### Hydrogen Storage

R. T. Baker, D. A. Dixon, et al.

Acid Initiation of Ammonia–Borane Dehydrogenation for Hydrogen Storage  
(Cover Picture)

### Nanostructures

Y. Xia et al.

Synthesis of Palladium Icosahedra with Twinned Structure by Blocking Oxidative Etching with Citric Acid or Citrate Ions

### Surface Chemistry

D. A. King et al.

Massively Cooperative Adsorbate-Induced Surface Restructuring and Nanocluster Formation

### Microporous Materials

G. K. H. Shimizu et al.

A Tetrahedral Organophosphonate as a Linker for a Microporous Copper Framework

### Fluorine Chemistry

J. Hu et al.

A Remarkably Efficient Fluoroalkylation of Cyclic Sulfates and Sulfamides with  $\text{PhSO}_2\text{CF}_2\text{H}$ : Facile Entry into  $\beta$ -Difluoromethylated or  $\beta$ -Difluoromethylenated Alcohols and Amines

### Catalytic Coupling Reactions

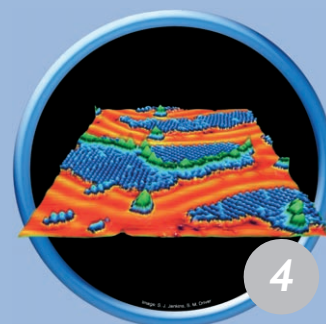
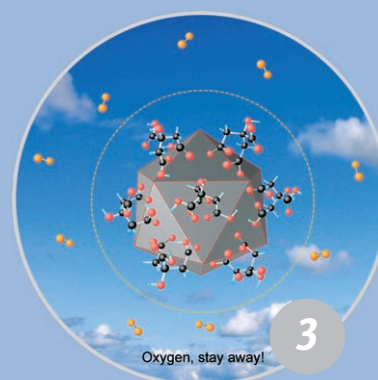
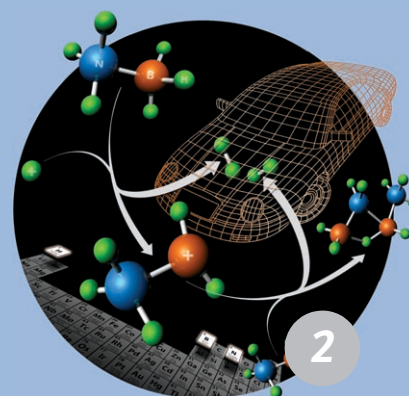
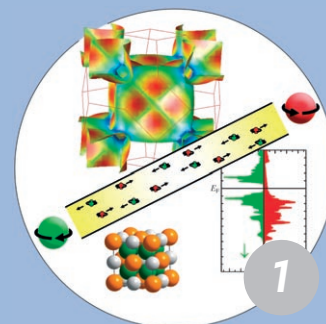
T. F. Jamison and C.-Y. Ho

Highly Selective Coupling of Alkenes and Aldehydes Catalyzed by  $[\text{Ni}(\text{NHC})\{\text{P}(\text{OPh})_3\}]$ : Synergy between a Strong  $\sigma$  Donor and a Strong  $\pi$  Acceptor

### Oxidation Catalysts

Y. Uozumi et al.

A Nanoplatinum Catalyst for Aerobic Oxidation of Alcohols in Water



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