# Angewandte Preview – Issue 18/2012

# Highlights

# **Molecular Machines**

E. C. H. Sykes

Electric Nanocar Equipped with Four-Wheel Drive Gets Taken for its First Spin

#### Adaptable Materials

C. N. Bowman and C. J. Kloxin

Covalent Adaptable Networks: Reversible Bond Structures Incorporated in Polymer Networks

## **Coordination Numbers**

T. Heine and G. Merino

What Is the Maximum Coordination Number in a Planar Structure?

# **Minireviews**

#### Rare-Earth Metal Hydrides

A. Simon

Oxidation by Hydrogen in the Chemistry and Physics of the Rare-Earth Metals

# Reviews

#### **Total Synthesis**

L. E. Overman and J. S. Cannon

Is There No End to the Total Syntheses of Strychnine? Lessons Learned in Strategy and Tactics in Total Synthesis

# **Communications**

## Asymmetric Catalysis

Y.-C. Chen et al.

Trienamine Catalysis with 2,4-Dienones: Development and Application in Asymmetric Diels-Alder Reactions (Cover Picture)

# **Chemical Gardens**

W. Kunz, J. M. García-Ruiz et al.

Formation and Evolution of Chemical Gradients and Potential Differences Across Self-Assembling Inorganic Membranes (Inside Cover)

# Enzyme Models

Y. Lu, J. Wang et al.

Significant Increase of Oxidase Activity through the Genetic Incorporation of a Tyrosine–Histidine Cross-Link in a Myoglobin Model of Heme–Copper Oxidase (Frontispiece)

#### **Protein Purification**

R. Glockshuber et al.

The Most Stable Protein-Ligand Complex: Applications for One-Step Affinity Purification and Identification of Protein Assemblies (Inside Back Cover)

## Carbohydrates

G. A. van der Marel, J. D. C. Codée et al.

# Automated Solid-Phase Synthesis of β-Mannuronic Acid Alginates (Back Cover)

# Boryl Complexes

Organoaluminum Boryl Complexes

R. Anwander et al.









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