

CONCEPTS

Reaction Mechanisms 1

S. Peitz, B. R. Aluri, N. Peulecke,
B. H. Müller, A. Wöhl, W. Müller,*
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U. Rosenthal*

An Alternative Mechanistic Concept for Homogeneous Selective Ethylene Oligomerization of Chromium-Based Catalysts: Binuclear Metallacycles as a Reason for 1-Octene Selectivity?

COMMUNICATIONS

Natural Products

K. C. Nicolaou,* S. Sanchini, T. R. Wu,
D. Sarlah

Total Synthesis and Structural Revision of Biyouyanagin B

Benzylation

K. Murakami, H. Yorimitsu,*
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Cobalt-Catalyzed Benzylzincation of Alkynes

Molecular Devices

M. Zhou, X. Zheng, J. Wang,*
S. Dong*

A Self-Powered and Reusable Biocomputing Security Keypad Lock System Based on Biofuel Cells

FULL PAPERS

Water Chemistry 2

J. Rocha,* F.-N. Shi, F. A. A. Paz,
L. Mafra, M. Sardo, L. Cunha-Silva,
J. Chisholm, P. Ribeiro-Claro,
T. Trindade

3D–2D–0D Stepwise Deconstruction of a Water Framework Templated by a Nanoporous Organic–Inorganic Hybrid Host (Cover picture)

Water Splitting 3

K. Maeda, N. Sakamoto, T. Ikeda,
H. Ohtsuka, A. Xiong, D. Lu,
M. Kanehara, T. Teranishi, K. Domen*

Preparation of Core–Shell-Structured Nanoparticles (with a Noble-Metal or Metal Oxide Core and a Chromia Shell) and Their Application in Water Splitting by Means of Visible Light

Biomimetic Materials 4

X. Liu, Y. Gu, J. Huang*

Hierarchical, Titania-Coated, Carbon Nanofibrous Material Derived from a Natural Cellulosic Substance

Homogeneous Catalysis

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Influence of Process Parameters on the Reaction Kinetics of the Chromium-Catalyzed Trimerization of Ethylene

