

CONCEPTS

Transition-Metal Catalysts

1

Bruce A. Arndtsen*

Metal-Catalyzed One-Step Synthesis: Towards Direct Alternatives to Multi-step Heterocycle and Amino Acid Derivative Formation

COMMUNICATIONS

Dyes and Pigments

2

M. U. Schmidt,* J. van de Streek,
S. N. Ivashevskaya

The First Crystal Structures of Industrial Laked Yellow Pigments Determined by X-ray Powder Diffraction

[3+3] Cycloaddition

B. Hu, J. Zhu, S. Xing, J. Fang, D. Du,
Z. Wang*

A Highly Site-, Regio-, and Stereo-selective Lewis Acid-Catalyzed Formal [3+3] Cycloaddition of Methylene-cyclopropane-1,1-Diesters with C,N-Diarylnitrones

FULL PAPERS

Nanoparticles

3

L. Chen, J. Xu, D. A. Tanner,
R. Phelan, M. Van der Meulen,
J. D. Holmes, M. A. Morris*

One-Step Synthesis of Stoichiometrically Defined Metal Oxide Nanoparticles at Room Temperature
(Cover picture)

Gold Nanoparticles

4

J. Griffin, A. K. Singh, D. Senapati,
P. Rhodes, K. Mitchell, B. Robinson,
E. Yu, P. C. Ray*

Size- and Distance-Dependent Nanoparticle Surface-Energy Transfer (NSET) Method for Selective Sensing of Hepatitis C Virus RNA

Peptidomimetics

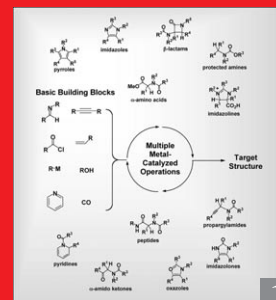
N. J. V. Lindgren, M. Varedian,
A. Gogoll*

Photochemical Regulation of an Artificial Hydrolase by a Backbone Incorporated Tertiary Structure Switch

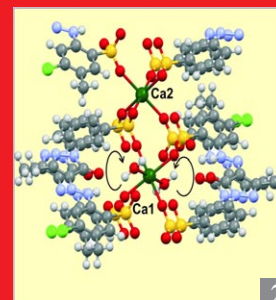
MnO₂ Nanostructures

C. Wu, W. Xie, M. Zhang, L. Bai,
J. Yang, Y. Xie*

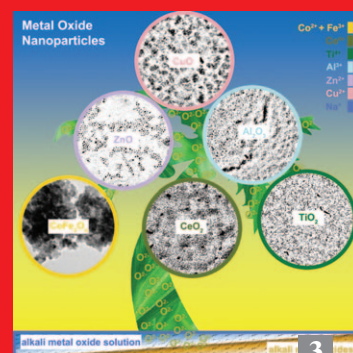
Environmentally Friendly γ -MnO₂ Hexagon-Based Nanoarchitectures: Structural Understanding and Their Energy Saving Applications



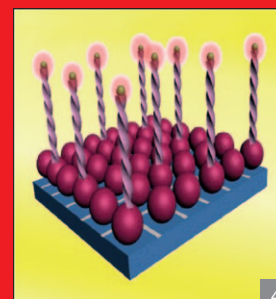
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