

Highlights

Gallium(I) Chemistry

R. J. Wehmschulte

At Last: A Stable Univalent Gallium Cation

Molecular Computers

H. Tian

Data Processing on a Unimolecular Platform

Reviews

C–H Activation

H. Werner

Carbene–Transition Metal Complexes Formed by Double C–H Bond Activation

Communications

Coordination Polymers

S. Horike, S. Kitagawa et al.

Solid Solutions of Soft Porous Coordination Polymers: Fine-Tuning of Gas Adsorption Properties (Cover Picture)

Programmable Host–Guest Systems

T. Bein et al.

A Programmable DNA-Based Molecular Valve for Colloidal Mesoporous Silica

Single-Molecule Studies

T. Hugel et al.

Pulling a Single Polymer Molecule off a Substrate Reveals the Binding Thermodynamics of Cosolutes

Stable Carbenes

G. Bertrand et al.

Crystalline 1*H*-1,2,3-Triazol-5-ylidenes: New Stable Mesoionic Carbenes (MICs)

Asymmetric Catalysis

X. M. Feng et al.

Highly Enantioselective Insertion of Carbenoids into N–H Bonds Catalyzed by Copper(I) Complexes of Binol Derivatives

Graphene-Based Nanosheets

X. Feng, K. Müllen et al.

Graphene-Based Nanosheets with a Sandwich Structure

E–E Triple Bonds

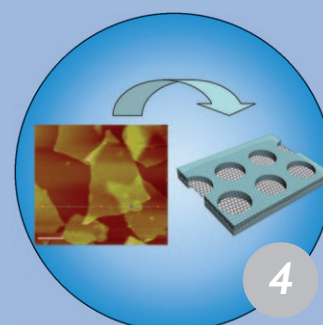
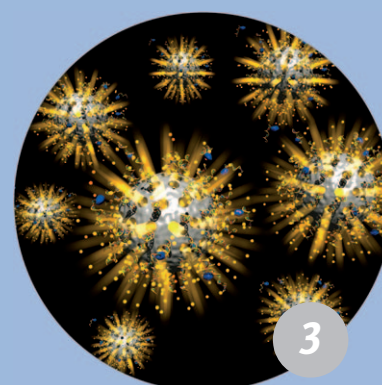
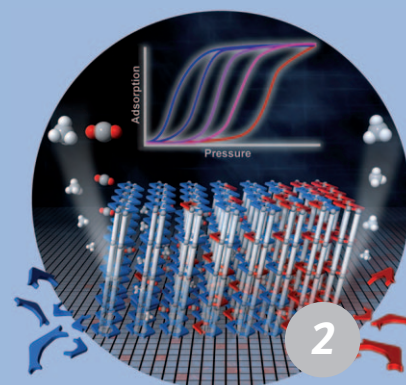
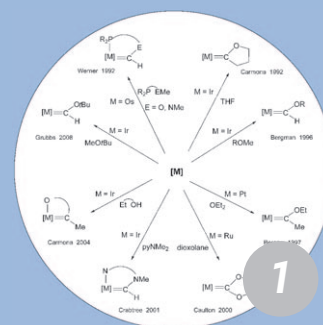
P. P. Power et al.

Cleavage of the Sn–Sn Multiple Bond in a Distannyne by Cyclooctatetraene: Formation of the π -Bound Inverse Sandwich Complex $[(Ar'Sn)_2(\mu_2-\eta^2:\eta^3-cot)]$

Sulfur Heterocycles

P. Knochel et al.

Synthesis of Dibenzothiophenes and Related Classes of Heterocycles by Using Functionalized Dithiocarbamates



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