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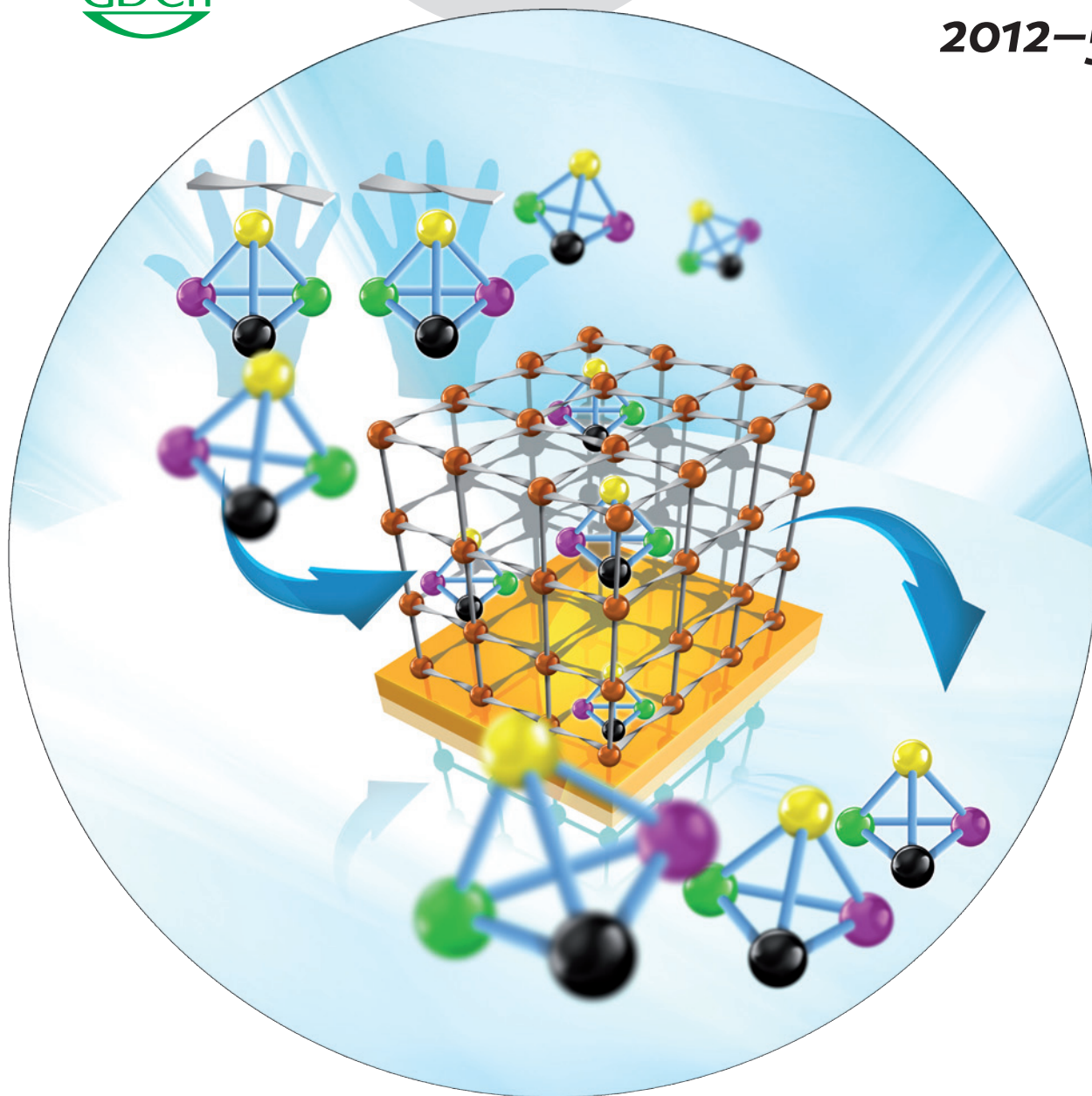
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Pt, Au, and Hg in Catalysis

Review by A. Corma and A. Leyva-Pérez

Shape-Controlled Nanocrystals

Minireview by Y. D. Li and K. B. Zhou

Highlights: Porous Organic Crystals · Endohedral Fullerenes

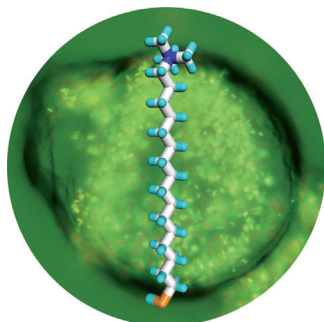
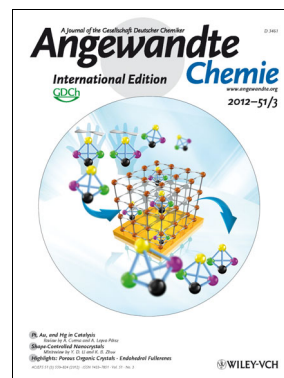
ACIEFS 51 (3) 559–824 (2012) · ISSN 1433–7851 · Vol. 51 · No. 3

 **WILEY-VCH**

Cover Picture

Bo Liu, Osama Shekhah, Hasan K. Arslan, Jinxuan Liu, Christof Wöll,* and Roland A. Fischer*

The integration of metal–organic frameworks (MOFs) into devices, such as sensors, requires that the MOF is bound to a substrate to give a surface-attached metal–organic framework (SURMOF). In their Communication on page 807 ff. R. A. Fischer, C. Wöll, et al. describe the liquid-phase epitaxial growth of a MOF with camphorate as a chiral framework component. The different adsorption kinetics of pairs of enantiomeric molecules were monitored with a quartz crystal microbalance.

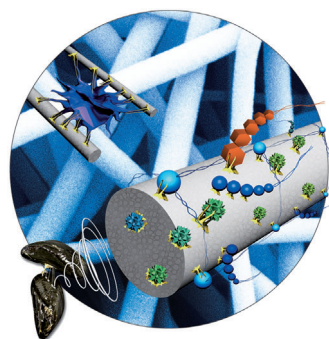
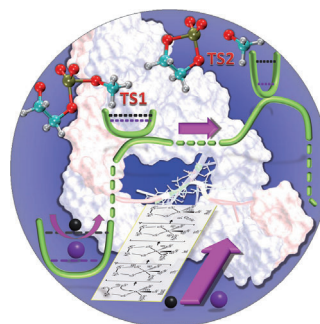


Surface Chemistry

In their Communication on page 636 ff., E. R. Zubarev et al. use optical microscopy to image breast cancer cells treated with thiolate-protected gold nanorods by optical microscopy.

Reaction Mechanisms

In their Communication on page 647 ff., K.-Y. Wong, J. A. Piccirilli, M. E. Harris, D. M. York, et al. report that the mechanisms for model RNA cleavage transesterification reactions with a native compound and with two thio-substituted analogues are different.



Nanostructures

Mussel adhesive protein serves as a blending partner for the preparation of nanofibers functionalized with various biomolecules. On page 675 ff., H. J. Cha et al. describe their composites, which are promising tools for tissue engineering.