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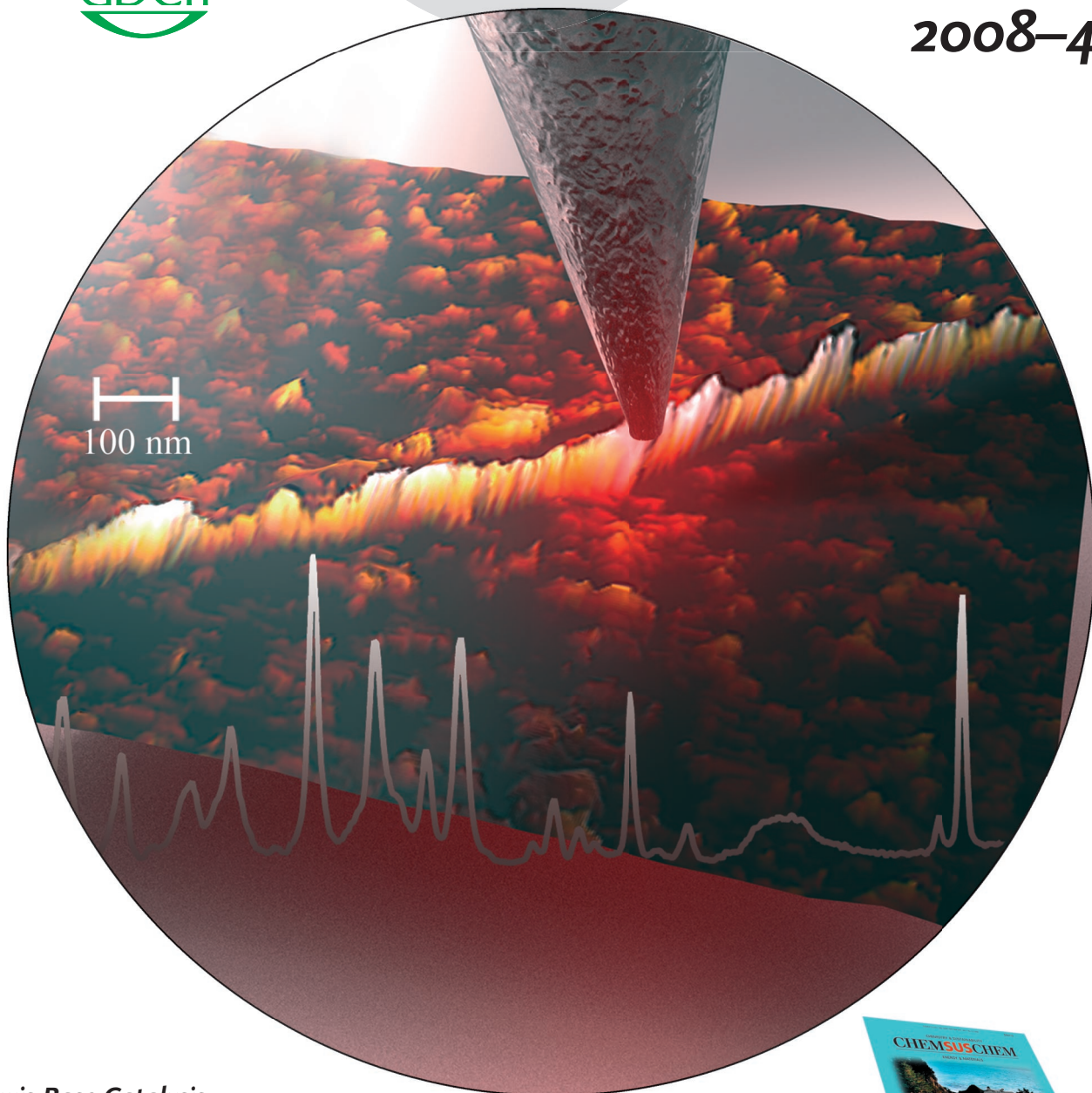
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Lewis Base Catalysis

S. E. Denmark and G. L. Beutner

Metal–Nitrogen Multiple Bonds

D. J. Mindiola

Native Chemical Ligation

O. Seitz and C. Haase

Coordination of Buckybowls

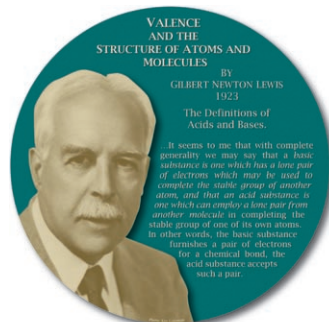
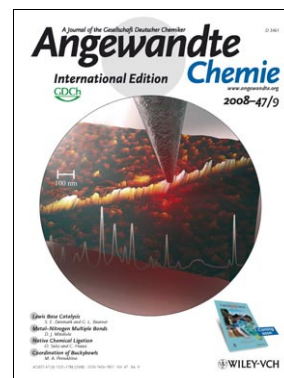
M. A. Petrukhina



Cover Picture

Elena Bailo and Volker Deckert*

Tip-enhanced Raman spectroscopy (TERS) provides high lateral resolution, down to a few nucleobases in a single RNA strand of a cytosine homopolymer. A silver-coated nanotip which can be positioned with high precision serves as a Raman enhancer. TERS spectra are obtained by positioning the tip along the RNA strand. As E. Bailo and V. Deckert show in their Communication on page 1658 ff., the sensitivity obtained suggests that, with TERS, the direct and label-free sequencing of biomolecules, such as DNA, RNA, or peptides, is feasible.

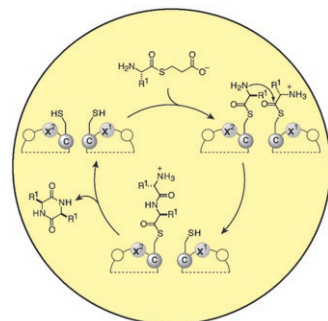
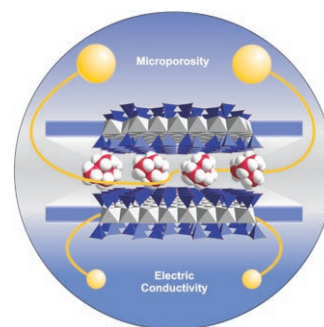


Lewis Base Catalysis

The Review by S. E. Denmark and G. L. Beutner on page 1560 ff. introduces a new conceptual framework for Lewis base catalysis. The many applications of Lewis bases as catalysts are illustrated for numerous examples of different reactions.

Microporous Materials

The intercalation of a molecular spacer into synthetic Cs-tainiolite provides a size- and shape-selective microporous material that displays electric conductivity, as demonstrated by J. Breu et al. in their Communication on page 1640 ff.



Peptidic Catalysts

M. R. Ghadiri and co-workers have designed modular supramolecular catalysts with a coiled-coil peptide scaffold that catalyze the formation of diketopiperazines and linear dipeptides from a range of aminoacyl substrates. More information can be found in their Communication on page 1758 ff.