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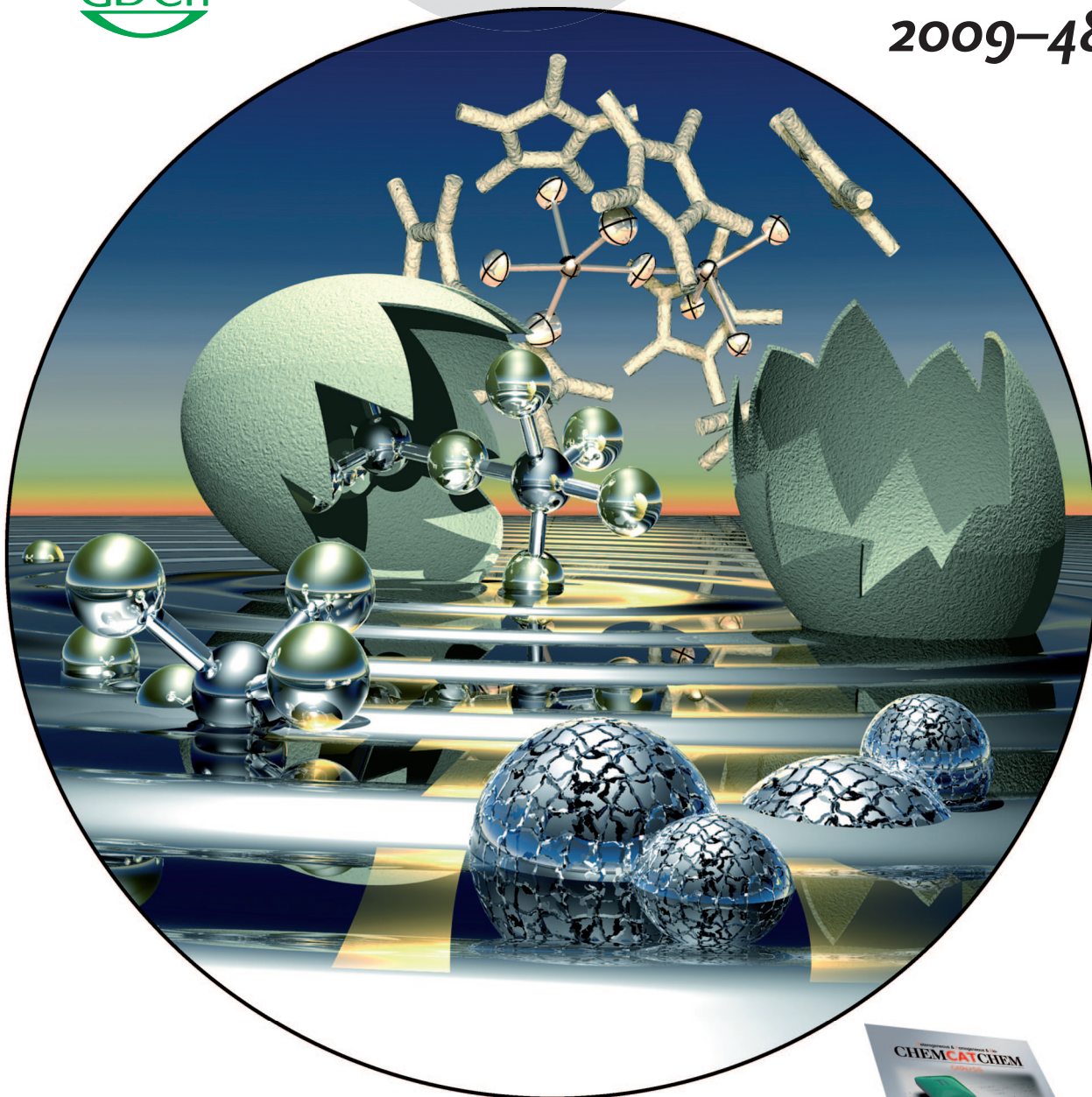
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Multidimensional Vibrational Spectroscopy

S. Mukamel et al.

Stereochemistry and Eligio Perucca

B. Kahr, D. Viterbo et al.

Highlights: Germanium(II) Dication • Chip Laboratories • Protein Biosynthesis

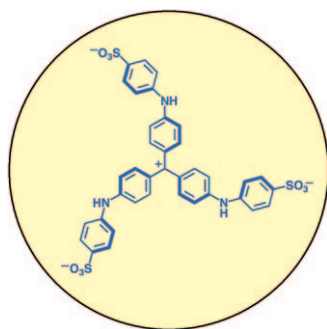
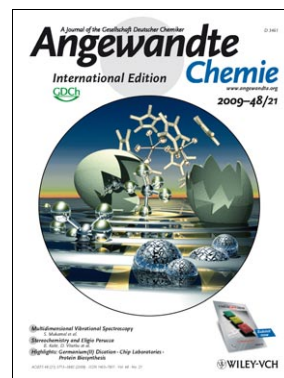


Cover Picture

Thomas Cadenbach, Christian Gemel, Rochus Schmid, Markus Halbherr, Kirill Yusenko, Mirza Cokoja, and Roland A. Fischer*

Soft skin, hard core

is the basic principle for the formation of a nano-alloy from molecular precursors. The co-hydrogenolysis of ruthenium complexes in presence of GaCp* gives the isolable key intermediate $[\text{Ru}_2(\text{Ga})(\text{GaCp}^*)_7(\text{H})_3]$ featuring a substituent-free bridging gallium atom. From this “embryonic” species Ru/Ga phases are formed by complete cleavage of the protective Cp* shell (depicted as an eggshell in the Cover picture), as described by R. A. Fischer et al. in their Communication on page 3872 ff.

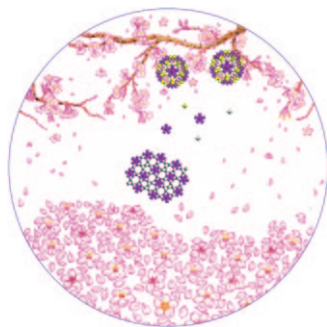
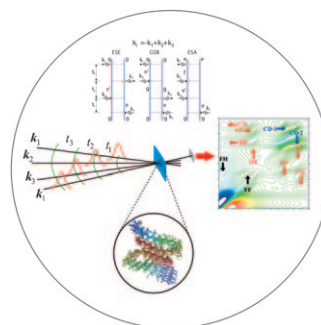


History of Science

In their Essay on page 3744 ff., B. Kahr, D. Viterbo, et al. examine the work of Eligio Perucca on the enantioselective adsorption of a racemic mixture to a chiral crystal and his relationship to Primo Levi.

Vibrational Spectroscopy

The fundamental principles of coherent multidimensional vibrational spectroscopy and its application to biomolecules are presented by S. Mukamel et al. in their Review on page 3750 ff. Particular attention is paid to spectral simulation techniques.



Polyoxometalates

Crystalline solids can be tailored using molecular building blocks. In the Communication on page 3782 ff., M. Sadakane, W. Ueda, and co-workers use a pentagonal polyoxomolybdate unit as the basis for an orthorhombic Mo-V-Sb oxide.