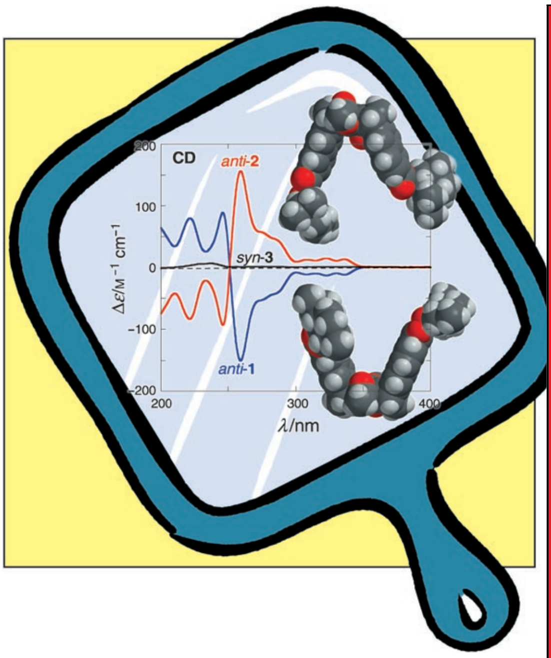
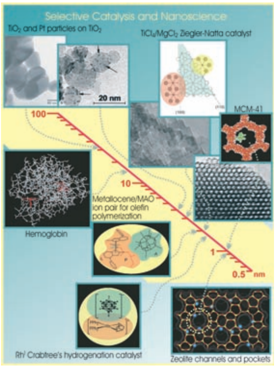
Chiral molecular clips…

… were separated by HPLC, and their CD spectra are shown on the cover. These clips, the pseudoenantiomers *anti*-**1** and *anti*-**2**, and diastereomer *syn*-**3**, were used for assignment of the absolute configurations of *anti*-**1** and *anti*-**2**. The space-filling structures of *anti*-**1** and *anti*-**2**, also shown, were calculated by conducting a Monte-Carlo conformer search using the force field MMFF94 implemented in SPARTAN ’04. For more details, see the Full Paper by Y. Inoue, F.-G. Klärner et al. on page 2473 ff.



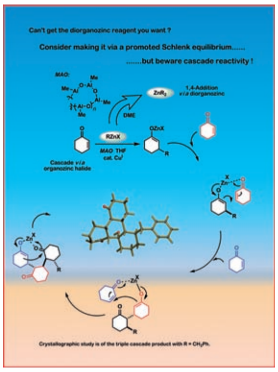


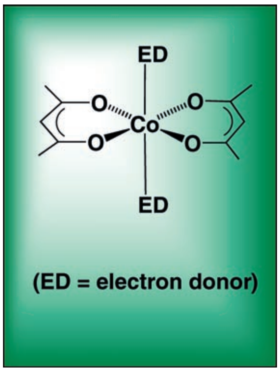
Nanoscience

In their Concept article on page 2440 ff., A. Zecchina et al. describe how selective catalysis and nanoscience are in fact an inseparable pair and illustrate this concept with various examples from heterogeneous and homogeneous catalysis.

Organozinc Reagents

In their Full Paper on page 2462 ff., S. Woodward et al. describe ligand-exchange reactions that allow the direct formation of diorganozinc species from readily accessible RZnX species. By using either ZnMe$_2$ or methylaluminoxane [(MeAlO)$_n$, MAO], asymmetric 1,4-additions to 2-cyclohexanone or its novel trimerisation product can be obtained, respectively.





Radical Polymerization

In their Full Paper on page 2480 ff., K. Matyjaszewski, R. Poli et al. show that the [Co(acac)$_2$]-mediated polymerization of VOAc may occur by either one of two fundamentally different mechanisms: a degenerative transfer in the absence of ligands capable of establishing strong interactions with the cobalt center and a reversible homolytic cleavage of the dormant organocobalt(III) species in the presence of strongly binding electron donors.

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