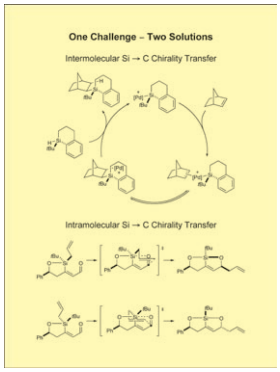
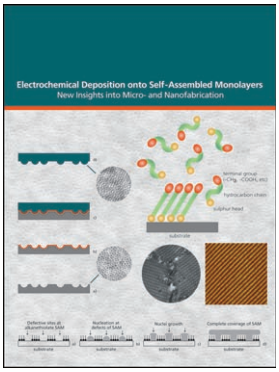
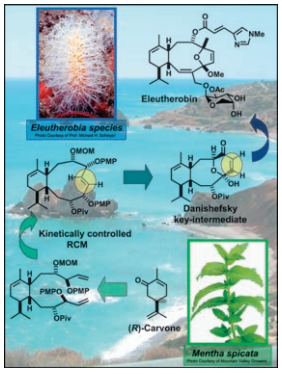
… Join the highway where, irrespective of the environment, be it solution, self-assembled monolayers, polymer matrices, or molecular switch tunnel junctions—and independently of the bistable molecular switches, be they catenanes or rotaxanes—a single and generic switching mechanism is observed for all bistable mechanically interlocked molecules, as described by J. F. Stoddard, J. R. Heath, J. O. Jeppesen et al. on p. 261 ff. The cover picture is designed from a concept by Amar Flood enriched by Scott Vignon; the artwork for the front cover was produced by Anthony Pease [the cover artwork was produced using POVTree by Gena Obukhov (implementing TomTree by Tom Aust) and stsky.inc by Jaime Vives Piqueres].



Silicon as the Sole Source of Chirality
Carbon-centered chirality is induced in the course of bond cleavage and bond formation at stereogenic silicon. The long-standing challenge of transferring chirality from silicon to carbon was accomplished with perfect stereoselectivity in truly incomparable processes: intermolecular hydrosilylation and intramolecular allylation. The Concept article by M. Oestreich on p. 30 ff. outlines the targeted development of these reactions, which finally led to the realization of the first Si → C chirality transfer reactions.



Pattern Transfer with High Resolution
This new frontier topic in the emerging field of nanotechnology is described in the Concepts article by R. C. Salvarezza et al. on p. 38 ff. The electrochemical molding presented is a possible route for the nanopatterning of metal, alloys, and oxide surface with high resolution in a simple and inexpensive manner.



Natural Products
In their Full Paper on p. 51 ff., C. Gennari et al. describe the synthesis of a key advanced intermediate used in the total synthesis of eleutherobin reported by Danishefsky and co-workers. The key step of the strategy is a kinetically controlled ring-closing metathesis (RCM) reaction.