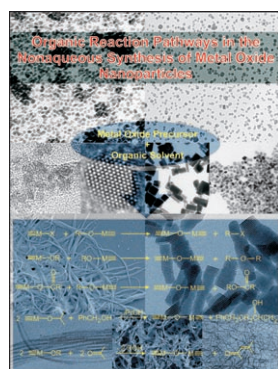
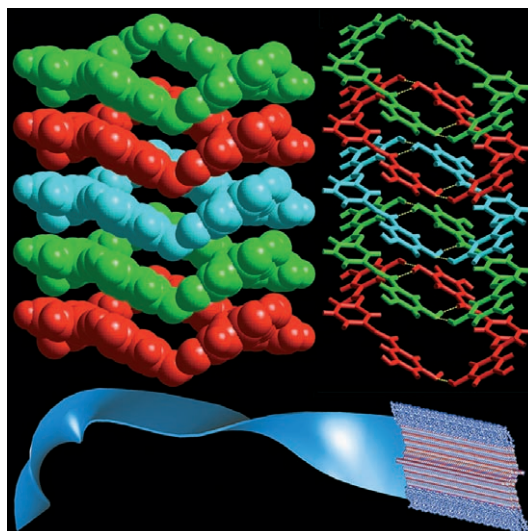


... are formed by the self-assembly of dendron-rod-coil (DRC) tri-block molecules. In their Full Paper on page 7313 ff., S. I. Stupp et al. describe the properties and structural characterization of such molecules. The study provides mechanistic insights and unveils general strategies to create well-defined one-dimensional supramolecular objects.

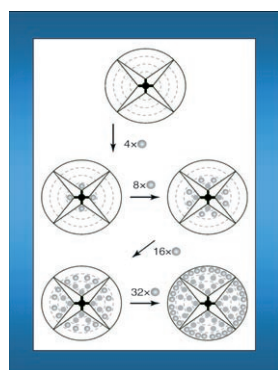
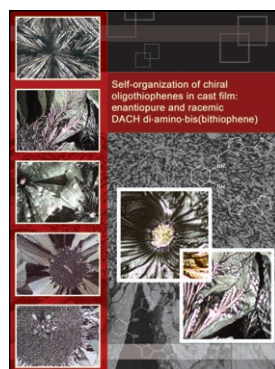


Rational Syntheses for Nanostructures

In their Concept article on page 7282 ff., M. Niederberger and G. Garnweitner discuss the fact that the synthesis of metal oxide nanoparticles in organic solvents under exclusion of water provides some peculiar features that allow for better control over particle size, shape, crystallinity, and surface properties.

Helical Structures

A new class of chiral, helical oligothiophenes has been synthesized and characterized in solution and cast film. In their Full Paper on page 7304 ff., M. Melucci et al. investigate factors affecting the conformational flexibility of these compounds and hence their overall handedness. The detailed mechanism and the driving forces that in diaminobis(bithiophene) lead to the transfer of chirality from the molecular level in solution to the supramolecular level in film with inverted chirality are also discussed.



Metal Assembly of Dendrimers

In their Full Paper on page 7328 ff., K. Yamamoto et al. describe the synthesis of an asymmetric series of dendritic phenylazomethines (DPAs) with a porphyrin core in order to reveal the structural requirements for stepwise radial complexation. The stepwise reaction from the core to the outside proceeded successfully only in the multidendronized DPAs with four generations. This can be related to the static or dynamic conformation of the DPAs in solution.



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