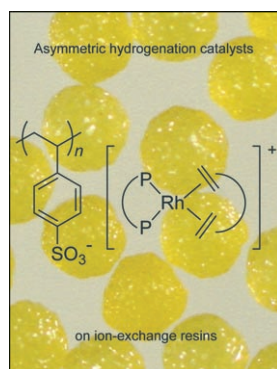
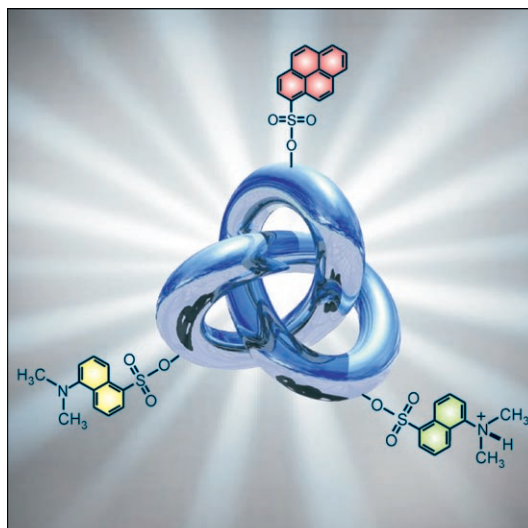


The selectively functionalized...

... nanometric knotane platform can be compared with a metal ion capable of coordinating three ligands. In their Full Paper on page 5685 ff., V. Balzani, F. Vögtle, O. Lukin et al. describe this concept with respect to an amideknotane substituted with fluorescent dansyl and/or pyrenesulfonyl moieties. UV/Vis absorption spectra, emission spectra, and the emission lifetimes of the fluorescent knotanes were investigated.

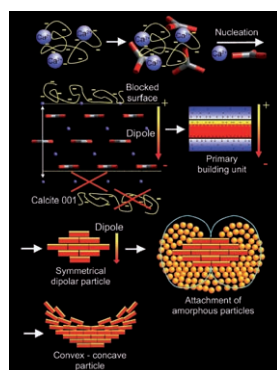
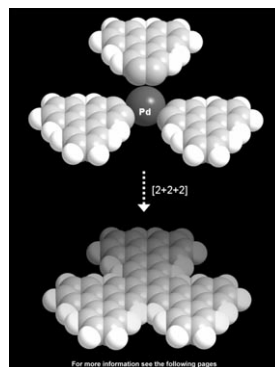


Supported Catalysts

Recent examples of application of enantioselective hydrogenation catalysts supported onto ion-exchange resins are described in the Concept article by P. Barbaro on page 5666 ff. It is shown that an appropriate choice of both resin and molecular precursor provides several advantages for this immobilization technique, including the use of inexpensive and commercially available supports, catalyst efficiency comparable to that observed in the homogeneous phase, and simple and quantitative catalyst recovery.

Cyclotrimerization

In their Full Paper on page 5677 ff., D. Peña, D. Pérez et al. describe the synthesis of *ortho*-(trimethylsilyl)triphenylenyl triflates. Fluoride-induced decomposition of these triflates generates 2,3-didehydrotriphenylenes, which undergo palladium-catalyzed cyclotrimerization and chemoselective formal [2+2+2]cycloaddition with alkynes and with other arynes to afford extended triphenylenes.



Calcite Mesocrystals

In their Full Paper on page 5722 ff., H. Cölfen et al. describe their investigations on the inner architecture principles of bent lens-like calcite mesocrystals prepared by a gas diffusion technique in the presence of polystyrenesulfonate. The formation of all mesostructures is discussed within the framework of a polymer-mediated structure-formation process, in which the polymer acts in four different ways.

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