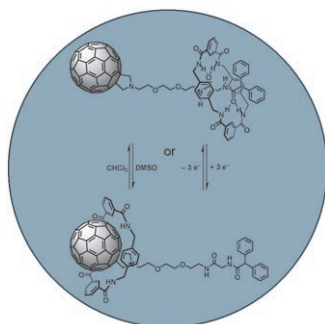
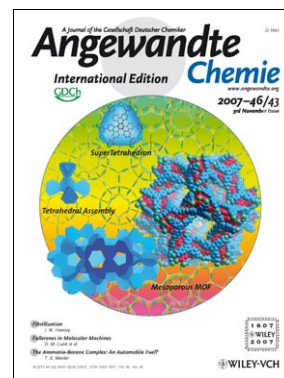


Cover Picture

Young Kwan Park, Sang Beom Choi, Hyunuk Kim, Kimoon Kim, Byoung-Ho Won, Kihang Choi, Jung-Sik Choi, Wha-Seung Ahn, Nayoun Won, Sungjee Kim, Dong Hyun Jung, Seung-Hoon Choi, Ghyung-Hwa Kim, Sun-Shin Cha, Young Ho Jhon, Jin Kuk Yang, and Jaheon Kim*

A *metal-organic framework (MOF)* with a hierarchical structure has been synthesized by the assembly of super tetrahedron units of Tb ions and organic tripodal linkers. The zeolite-like network (shown as stick models in the background) contains mesocages in which the smaller mesocages with diameters of 3.9 nm are fused to larger ones of diameter 4.7 nm (represented by space-filling models). The evacuated framework is robust and can accommodate gases or ferrocene molecules. For more details see the Communication by J. Kim et al. on page 8230 ff.

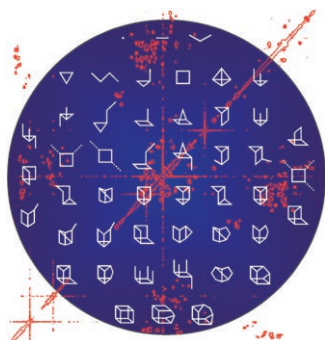
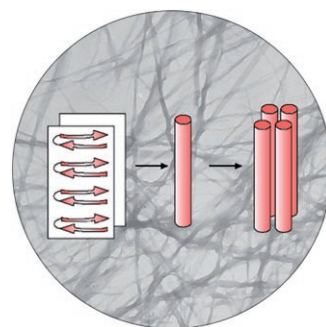


Molecular Machines

In their Minireview on page 8120 ff., D. M. Guldi et al. discuss how fullerenes are used as active components in molecular machinery such as rotaxanes, where their specific electron-acceptor and chromophoric properties can be applied to study and influence molecular motion.

Fibrillization

I. W. Hamley describes in his Review on page 8128 ff. the self-assembly of peptides into fibrils, and discusses both the natural amyloid-forming peptides and synthetic compounds such as peptide fragments, copolymers, and amphiphiles.



Aqueous Silicates

²⁹Si COSY NMR spectroscopy reveals the beautiful array of aqueous silicate anions that exist in equilibrium under alkaline conditions. The 48 structures identified by S. Kinrade and co-workers in their Communication on page 8148 ff. are shown.