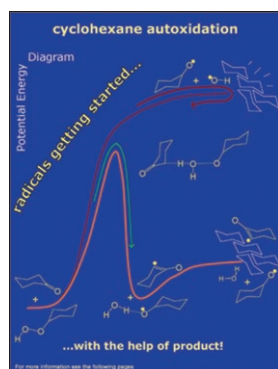
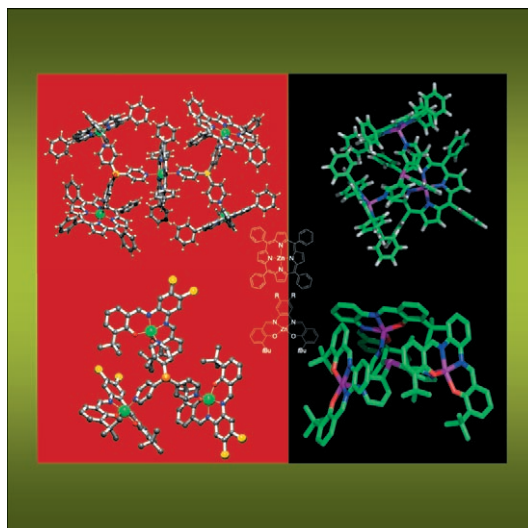


Encapsulated catalysts...

... are discussed in the Concept article by J. N. H. Reek and A. W. Kleij on p. 4218 ff. The authors show how template ligands can be used to form assemblies in which transition-metal catalysts are encapsulated. These novel supra-molecular catalysts are not only aesthetically attractive but show improved activity and selectivities compared with their non-encapsulated analogues.

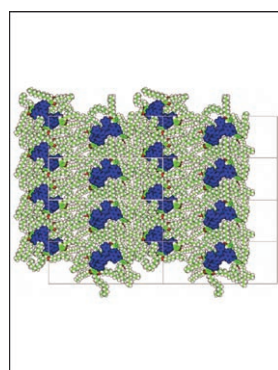
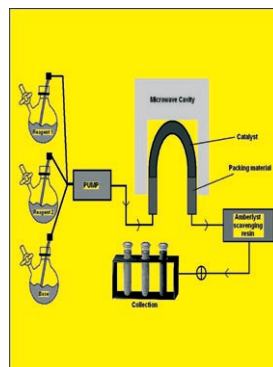


Autocatalysis

In their Full Paper on page 4229 ff., J. Peeters et al. set forward the theory that the radical-chain initiation in the main stage of cyclohexane autoxidation is largely caused by a concerted bimolecular reaction of the primary cyclohexyl hydroperoxide intermediate with cyclohexanone, a major oxygenated product.

Microwave-Assisted Reactions

In their Full Paper on page 4407 ff., S. V. Ley et al. describe the design, optimization, and development of a Suzuki cross-coupling protocol mediated by an efficient palladium-encapsulated catalyst under microwave irradiation. The methodology has been used in both batch mode for classical library preparation and in continuous-flow applications furnishing multigram quantities of material.



Liquid-Crystalline Materials

In their Full Paper on page 4261 ff., R. Ziessel and co-workers describe how the thermotropic and lyotropic properties of liquid-crystalline terpyridine ligands can be tuned. Varying the linker (ester, amide, ethynyl group) influences the structures and properties of the materials.

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