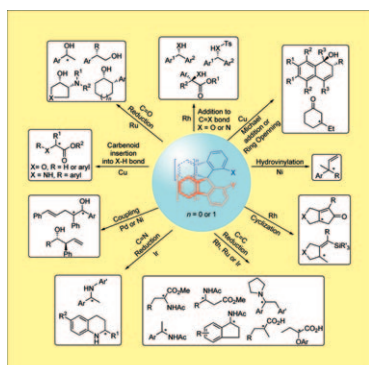
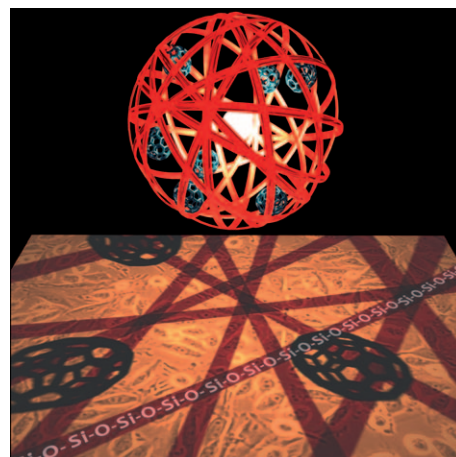


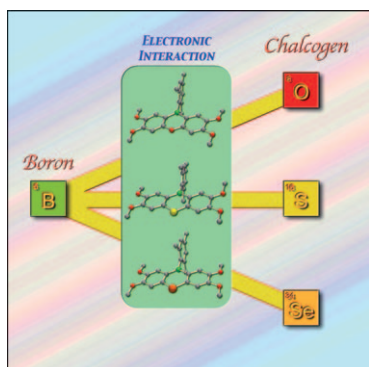
C₇₀ encapsulated...

... into a surface-cross-linked liposome (a morphologically stable cerasome) was prepared by an exchange reaction. The photodynamic activity of the cerasome with incorporated C₇₀ in HeLa cells is described by A. Ikeda et al. They show that the cerasome can be used in photodynamic therapy without the need for prior drug release from the cerasome. This indicates an alternative drug-delivery system with high morphological stability which can increase the residence time in blood and achieve tumor-selective drug delivery by the enhanced permeability and retention effect. For more information, see their Full Paper on page 199 ff.



Spiro-Skeleton Ligands

Spirobiindane- and spirobifluorene-based chiral ligands or reagents are receiving increased interest, particularly in transition-metal-catalyzed asymmetric reactions. In many catalytic transformations, these spiro-skeleton ligands give clearly superior enantioselectivities over those obtained by using related ligands with other backbones, thus establishing spiro-skeleton ligands as a privileged class of chiral ligands. To find out more, turn to the Focus Review by K. Ding et al. on page 32 ff.



Photoelectronic Properties

A series of donor-acceptor π -conjugated molecules were synthesized. Systematic comparisons, using a boron atom as an acceptor and chalcogen atoms as donors, are performed. X-ray crystallographic analysis of these molecules show similar structures with high planarity. UV/Vis spectroscopy and theoretical calculations reveal that the absorption maxima and the HOMO-LUMO gap changes by systematically changing the bridging chalcogen atom. Turn to the Full Paper by T. Kawashima et al. on page 42 ff. to find out more.



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