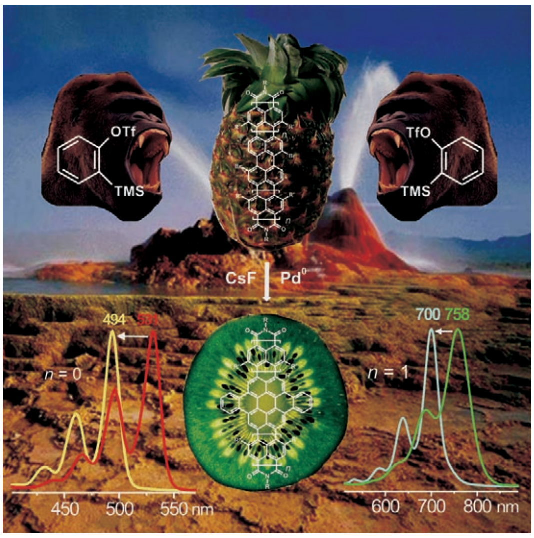
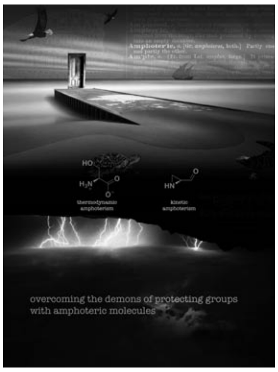
Like two monkeys attacking a pineapple…

… "bay"-positions of dibromorylene dyes are attacked by dehydrobenzene molecules (formed from trimethylsilylbenzene triflate with CsF). Pd^0-catalyzed benzannulation affords novel core-expanded rylenebis(dicarboximides) bearing pentacene units in the aromatic core. Synthesized new chromophores are characterized by a significant hypsochromic shift of absorption (40–60 nm relative to parent dyes), excellent photostabilities, and high fluorescence quantum yields. The details of the study are presented in the Full Paper by K. Müllen et al. on page 6555 ff.



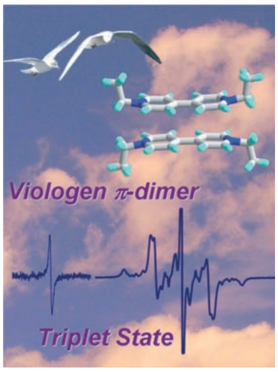


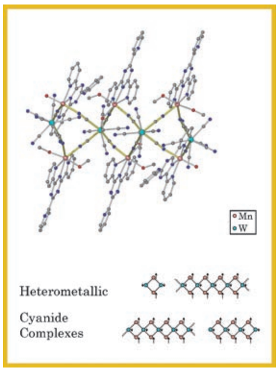
Amphoterism

The term "amphoteric" (Greek: *amphoteros* literally meaning "both of two") has been used in order to refer to a molecule that can act as both Brønsted acid and base. Extending the domain of amphoterism to embrace more synthetically useful kinetic considerations can lead to valuable new molecules with useful properties and is described by A. Yudin and R. Hili in their Concept article on page 6538 ff.

Cluster Compounds

In their Full Paper on page 6544 ff., M. C. Iapalucci et al. describe the synthesis of new hybrid semiconductor materials based on viologen. An investigation was carried out to verify whether the formation of contact ion pairs in these complexes could trigger charge- or electron-transfer processes, and induce conductor behavior in these inorganic–organic hybrid salts.





Heterobimetallic Complexes

In their Full Paper on page 6573 ff., K. Dunbar et al. report on the synthesis of a series of heterobimetallic complexes by combining $[W(CN)_8]^{3-/4-}$ anions with mononuclear precursors of Mn^{2+} ions and tridentate organic ligand 2,4,6-tris(2-pyridyl)-1,3,5-triazine. Crystal structures of all these complexes are derived from the same basic structural fragment, namely, a cyanide-bridged Mn_2W_2 square.

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