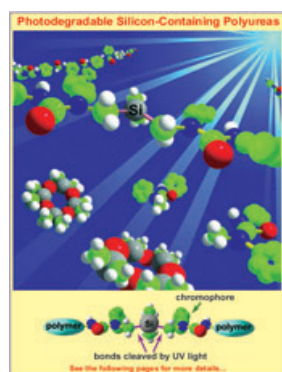


Enzymatic and homogeneous...

... catalysis offer complementary means to produce enantiopure products. Incorporation of achiral, biotinylated aminodiphosphine–rhodium complexes in (strept)avidin, which fit to each other as a hand in a glove, affords enantioselective hydrogenation catalysts. A combined chemogenetic procedure that allows the optimization of the activity and the selectivity of such artificial metalloenzymes is described in the Concept article by T. R. Ward on page 3798 ff.

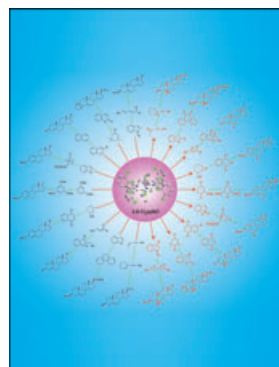
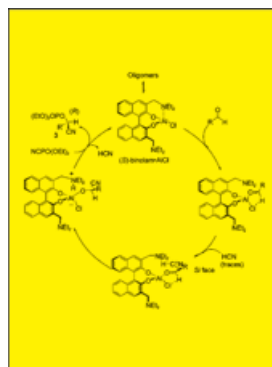


Silicon-Containing Polyureas

J. R. Hwu and K. Y. King describe in their Full Paper on page 3805 ff the synthesis of photodegradable polymers by the insertion of photodegradable silane units into the skeletons of *N*-phenyl aromatic polyureas. The photodegradability of these silicon-containing polymers in response to UV light was 10 times higher than for similar polymers that lacked the silyl unit.

Asymmetric Catalysis

The enantioselective synthesis of cyanohydrin *O*-phosphates by using in situ generated bifunctional catalysts (*R*)- or (*S*)-3,3'-bis(diethylaminomethyl)-1,1'-binaphthol–aluminium chloride (binolam–AlCl) is reported by C. Nájera, J. M. Saá et al. on page 3849 ff; the reaction, which can be described as an overall cyano-*O*-phosphorylation of aldehydes, has a wide scope and applicability.



Metalloporphyrin Oxidation Catalysts

In their article on page 3899 ff, C.-M. Che and J.-L. Zhang describe the characterization and reactivity of $[\text{Ru}^{\text{IV}}(2,6\text{-Cl}_2\text{tpp})\text{Cl}_2]$ ($2,6\text{-Cl}_2\text{tpp} = \text{meso-tetrakis}(2,6\text{-dichlorophenyl})\text{-porphyrinato dianion}$), which is an exceptionally active, versatile, and robust metal catalyst toward $2,6\text{-Cl}_2\text{pyNO}$ oxidation of alkenes compared with other metalloporphyrin catalysts.

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