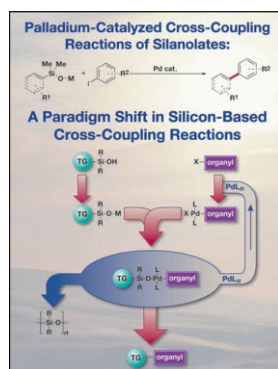
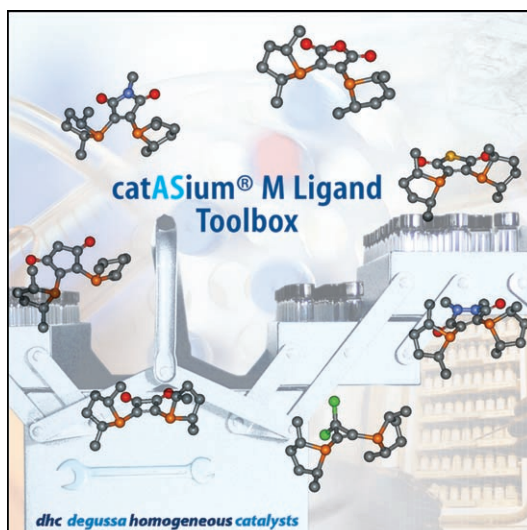


Just like a wrench...

... fits any bolt, the catASium M toolbox offers tools for various applications. This tool box has been developed by using a simple and convergent strategy to synthesize one of the most comprehensive family of chiral bisphosphine ligands. In their Full Paper on page 5001 ff., J. Holz, A. Monsees, A. Börner et al. describe how this methodology, which can be easily scaled up for industrial requirements, was used for the construction of closely related bisphosphonanes, differing in the size of the natural bite angles and σ -donor properties of the phosphine.

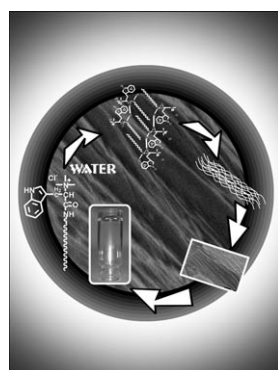
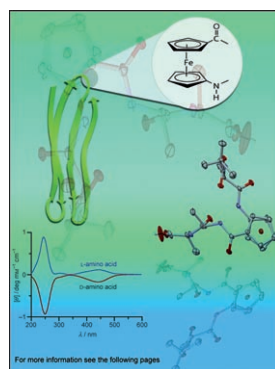


Organosilicon Chemistry

In their Concept article on page 4954 ff., S. E. Denmark and J. D. Baird describe the development of the use of organosilanes in cross-coupling reactions. This method has proven to be a viable, synthetically useful, and, in some cases, superior alternative to the more traditional cross-coupling methods. Harnessing the utility of silanols in cross-coupling reactions has enabled the mild preparation of a diverse array of products.

Protein Structure Mimetics

In their Full Paper on page 4965 ff., N. Metzler-Nolte, H.-B. Kraatz, S. I. Kirin, V. Rapić et al. describe the synthesis of di- to pentapeptides containing ferrocene amino acid (Fca) as an organometallic amino acid. Depending on the substitution pattern, these compounds exhibit turn-like peptide structures that are stable in solution and in the solid state. The helical chirality of the ferrocene is governed solely by the chirality of the amino acid attached to the N terminus of Fca. The degree of substitution of both cyclopentadiene rings determines the hydrogen-bonding pattern.



Hydrogelation of Amphiphiles

In their Full Paper on page 5068 ff., P. K. Das and co-workers describe the hydrogelation of an amino acid-based amphiphile. Intermolecular hydrogen bonding, π - π stacking, and hydrophobic interactions were found to be responsible for the gelation.

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