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Protein and Metabolite Profiling

S. A. Sieber et al.

Asymmetric Organocatalysis with Sulfones

K. A. Jørgensen et al.

Polymerization Catalysis

J.-F. Carpentier

Polymers as Carrier Systems

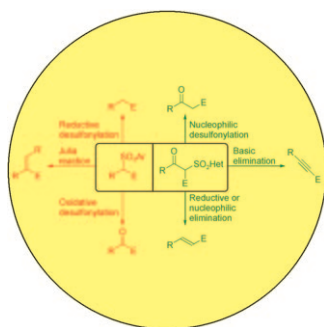
F. Caruso et al.



Cover Picture

Katrin Schober, Evelyn Hartmann, Hongxia Zhang, and Ruth M. Gschwind*

A *fast and easy* DOSY screening of ligands that affords high enantioselectivities in catalysis allows the aggregation trends of their transition-metal complexes to be predicted. In their Communication on page 2794 ff., R. Gschwind and co-workers present the first aggregation study of selected phosphoramidites and their complexes. This method is useful for catalyst optimization as no knowledge of the complex structure is necessary and the temperature range applicable to the desired catalytic reaction can be quickly determined.

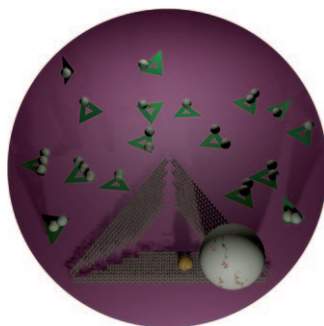
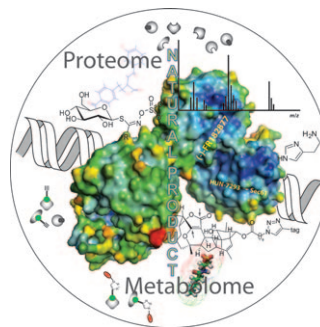


Organocatalysis

The sulfone moiety plays an important role in the field of organocatalysis. In their Minireview on page 2668 ff. K. A. Jørgensen and co-workers discuss the use of the sulfone-containing substrates as either electrophilic or nucleophilic partners in organocatalytic reactions.

Protein and Metabolite Profiling

Novel methods in proteomics can be used to identify the cellular targets of natural products, and they also enable the global characterization of enzyme–metabolite pairs. The current status of research in this area is summarized in the Review by S. A. Sieber et al. on pp. 2680 ff.



Nanoparticle Assembly

Yan, Liu, and co-workers describe in their Communication on page 2700 ff. the use of DNA nanostructures as templates for the organization of silver and gold nanoparticles into discrete architectures.