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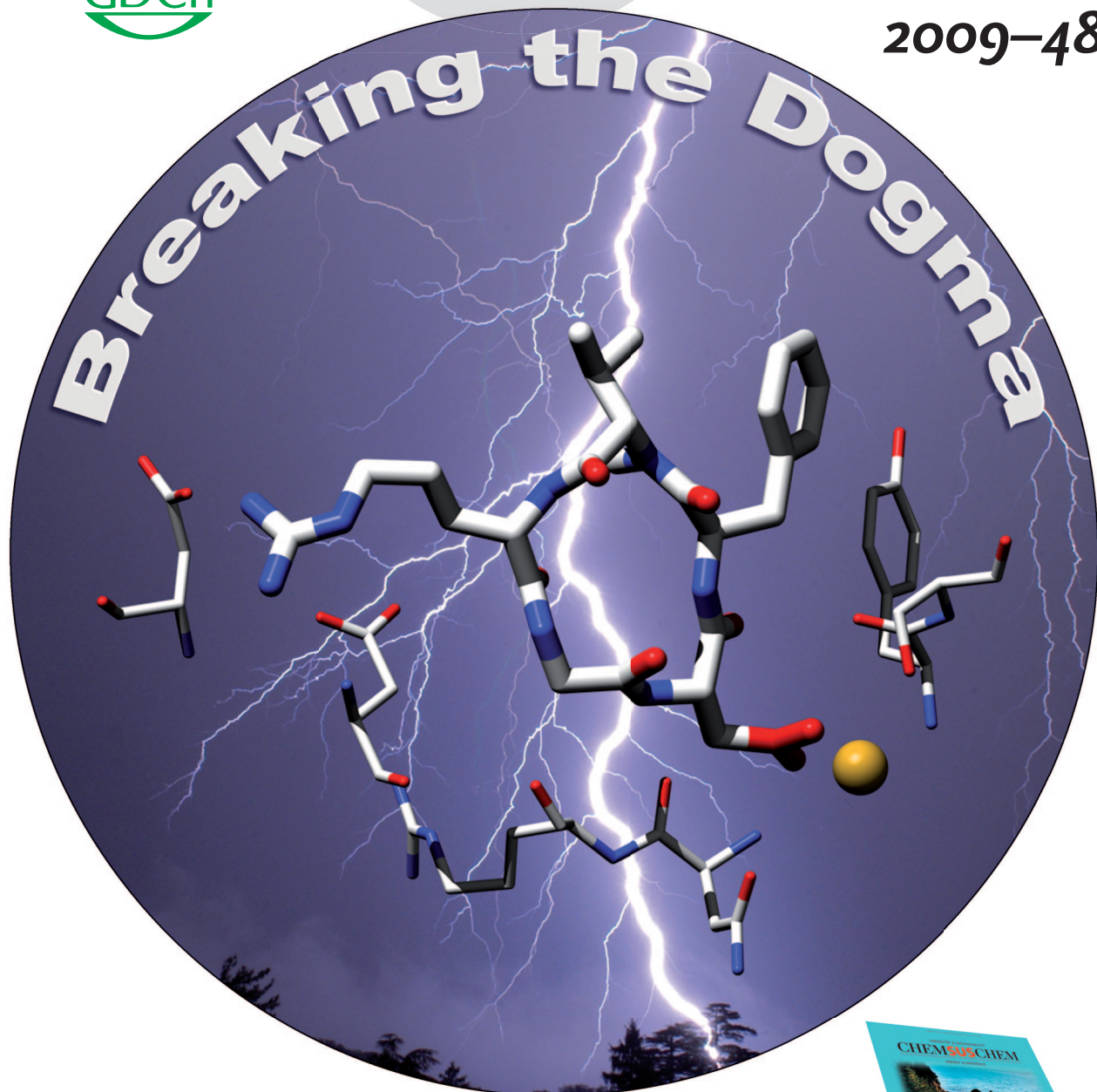
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Conjugated Polyelectrolytes

K. S. Schanze, J. R. Reynolds and co-workers

Catalysis in Water

J. Mlynarski and co-workers

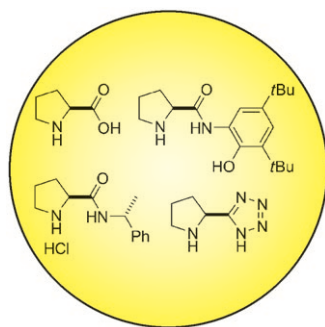
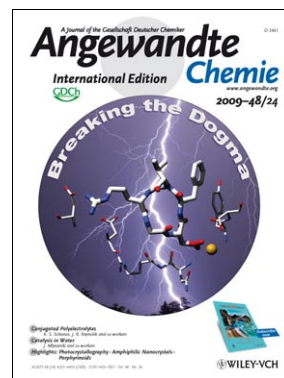
Highlights: Photocrystallography • Amphiphilic Nanocrystals • Porphyrinoids



Cover Picture

Dominik Heckmann, Burkhardt Laufer, Luciana Marinelli, Vittorio Limongelli, Ettore Novellino, Grit Zahn, Roland Stragies, and Horst Kessler*

The binding of the carboxyl group of an aspartate residue in the metal-ion-dependent adhesion site (MIDAS) is a key feature in the binding of ligands to integrins. This finding was demonstrated by the binding of the cyclic pentapeptide *cyclo*(RGDfNMeV) (Cilengitid) to the integrin $\alpha v \beta 3$ (see picture). In their Communication on p. 4436 ff, H. Kessler and co-workers show that the carboxyl group previously considered essential for binding can be replaced by a hydroxamic acid unit.

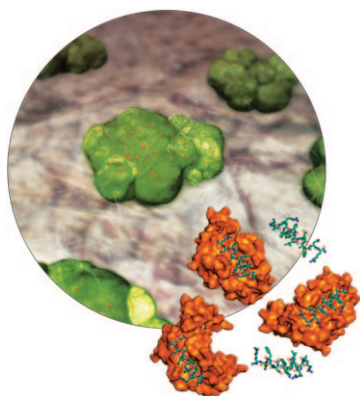
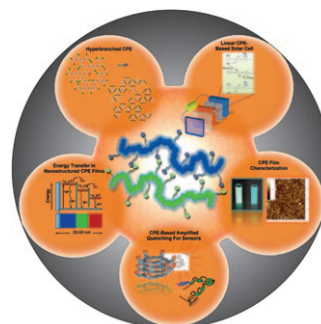


Catalysis in Water

In their Minireview on p. 4288 ff. J. Mlynarski and co-workers describe applications of amino acids and their derivatives as sources of chiral information in asymmetric catalytic conversions in aqueous media.

Conjugated Polyelectrolytes

In their Review on page 4300 ff., K. S. Schanze, J. R. Reynolds, and co-workers discuss conjugated polyelectrolytes. The synthesis of these polymers is described, and some of their numerous applications are given.



Peptide Mimics

The high-resolution structures of a complex foldamer in connection with its target is presented by W. D. Fairlie, S. H. Gellman, and co-workers in their Communication on p. 4318 ff. The structure provides information on the interaction of foldamers with their partners.