

A Journal of the Gesellschaft Deutscher Chemiker

Angewandte Chemie

International Edition

D 3461

GDCh

www.angewandte.org

2012–51/2



Organic Mixed-Valence Compounds

Review by A. Heckmann and C. Lambert

Domino Reactions

Minireview by A. Grossmann and D. Enders

Highlights: Polyoxometalates • Genetic Code

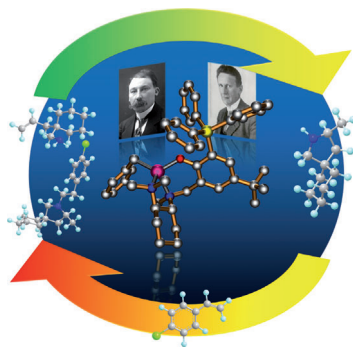
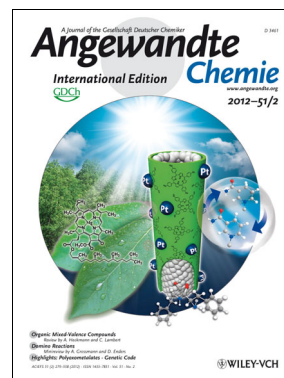
ACIEFS 51 (2) 279–558 (2012) • ISSN 1433–7851 • Vol. 51 • No. 2

 WILEY-VCH

Cover Picture

Jae Hong Kim, Minah Lee, Joon Seok Lee, and Chan Beum Park*

Light-harvesting peptide nanotubes that integrate photosynthetic units through self-assembly are presented by C. B. Park and co-workers in their Communication on page 517 ff. Structure and electrochemical properties of the peptide nanotubes are similar to those of photosystem I in natural photosynthesis and thus allow the peptide nanotubes to mimick natural photosynthesis.

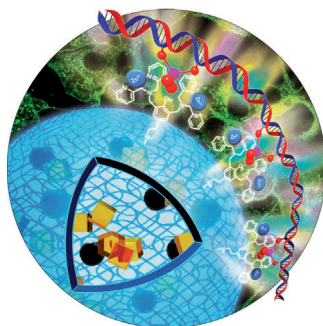


Asymmetric Reactions

The magnesium catalyst described by Hultsch and co-workers in their Communication on page 394 ff. sidesteps the equilibria described originally by Grignard (left) and Schlenk (right) and catalyzes the enantioselective hydroamination of aminoalkenes and vinyl arenes.

Auto-healing

In their Communication on page 487 ff., G. Izzet, M. Ménand, M. Sollogoub, A. Proust, and co-workers describe how the encapsulation of the organic moiety of a polyoxometalate hybrid in a cyclodextrin allows auto-healing after application of basic stress.



Drug Delivery

In their Communication on page 445 ff. S. Lee, X. Chen, et al. describe the simultaneous delivery of small interfering RNA (siRNA) and small-molecule drugs by nanoparticles that are based on hyaluronic acid and a zinc(II) dipicolylamine analogue.