

A Journal of the Gesellschaft Deutscher Chemiker

Angewandte Chemie

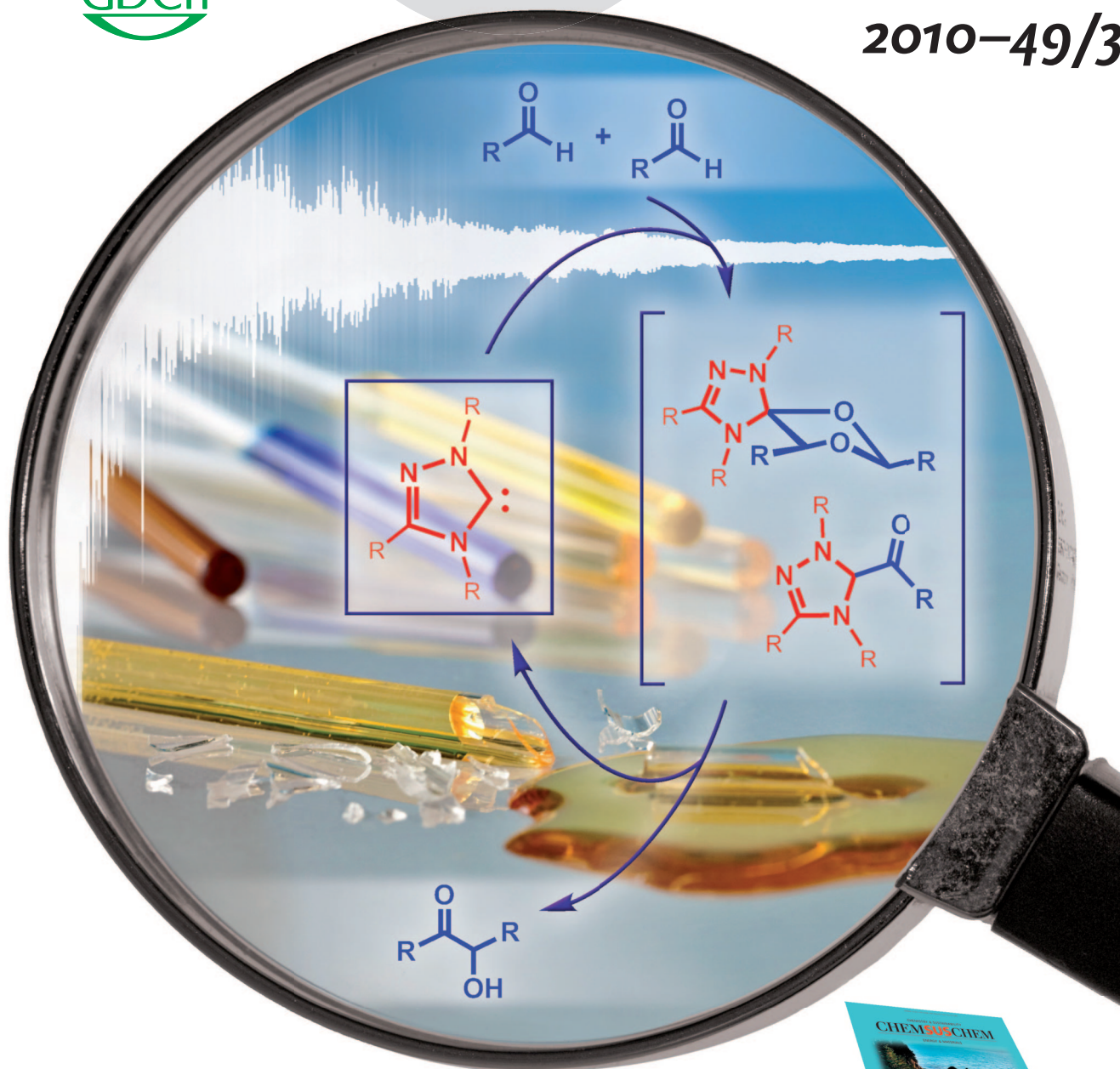
International Edition

D 3461

GDCh

www.angewandte.org

2010–49/39



Polymeric Multilayer Capsules

B. G. De Geest et al.

N-Heterocyclic Carbenes

F. Glorius and T. Dröge

Highlights: Rearrangement of Trityloxy Radicals • Ammosamides: Marine Natural Products

ACIEFS 49 (39) 6909–7138 (2010) · ISSN 1433–7851 · Vol. 49 · No. 39

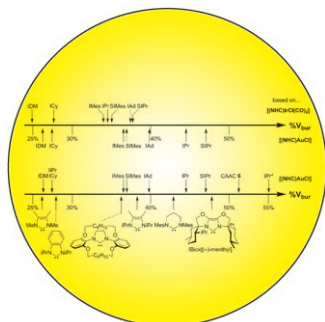
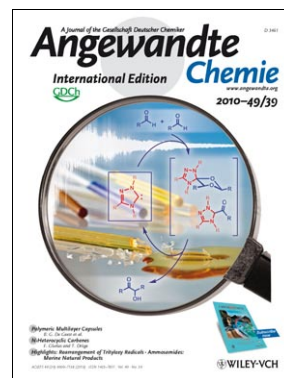


 WILEY-VCH

Cover Picture

Albrecht Berkessel,* Silvia Elfert, Kerstin Etzenbach-Effers, and J. Henrique Teles

N-heterocyclic carbenes are prominent organocatalysts for transformations based on aldehyde Umpolung, such as the benzoin condensation. The cover picture shows a triazolylidene carbene and two hitherto unknown adducts formed from this catalyst and the aldehyde substrate. Both the ketone and the dioxolane shown were identified by NMR spectroscopy by A. Berkessel and co-workers in their Communication on page 7120 ff. (Graphics by Silvia Elfert and Adrian von der Höh.)

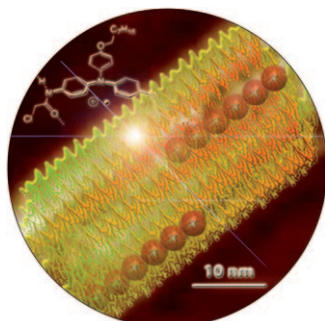
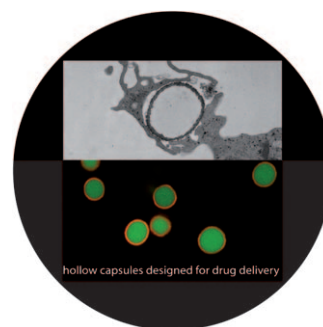


An Important Ligand Class

An overview of the physicochemical data for N-heterocyclic carbenes, which are used as ligands in organometallic chemistry, as well as organocatalysts, is discussed by F. Glorius and T. Dröge in their Minireview on page 6940 ff.

Polymeric Multilayer Capsules

Polymeric multilayer capsules (PMLCs) are made by layer-by-layer coating and dissolution of a sacrificial template. In their Review on page 6954 ff., B. G. De Geest et al. give an overview of recent breakthroughs in the application of PMLCs for drug delivery.



Self-Assembly

In their Communication on page 6974 ff. N. Giuseppone and co-workers describe a light-responsive supramolecular scaffold based on triarylamine radicals. The scaffold is created by charge transfer and reversibly broken up by heating.