

A Journal of the Gesellschaft Deutscher Chemiker

D 3461

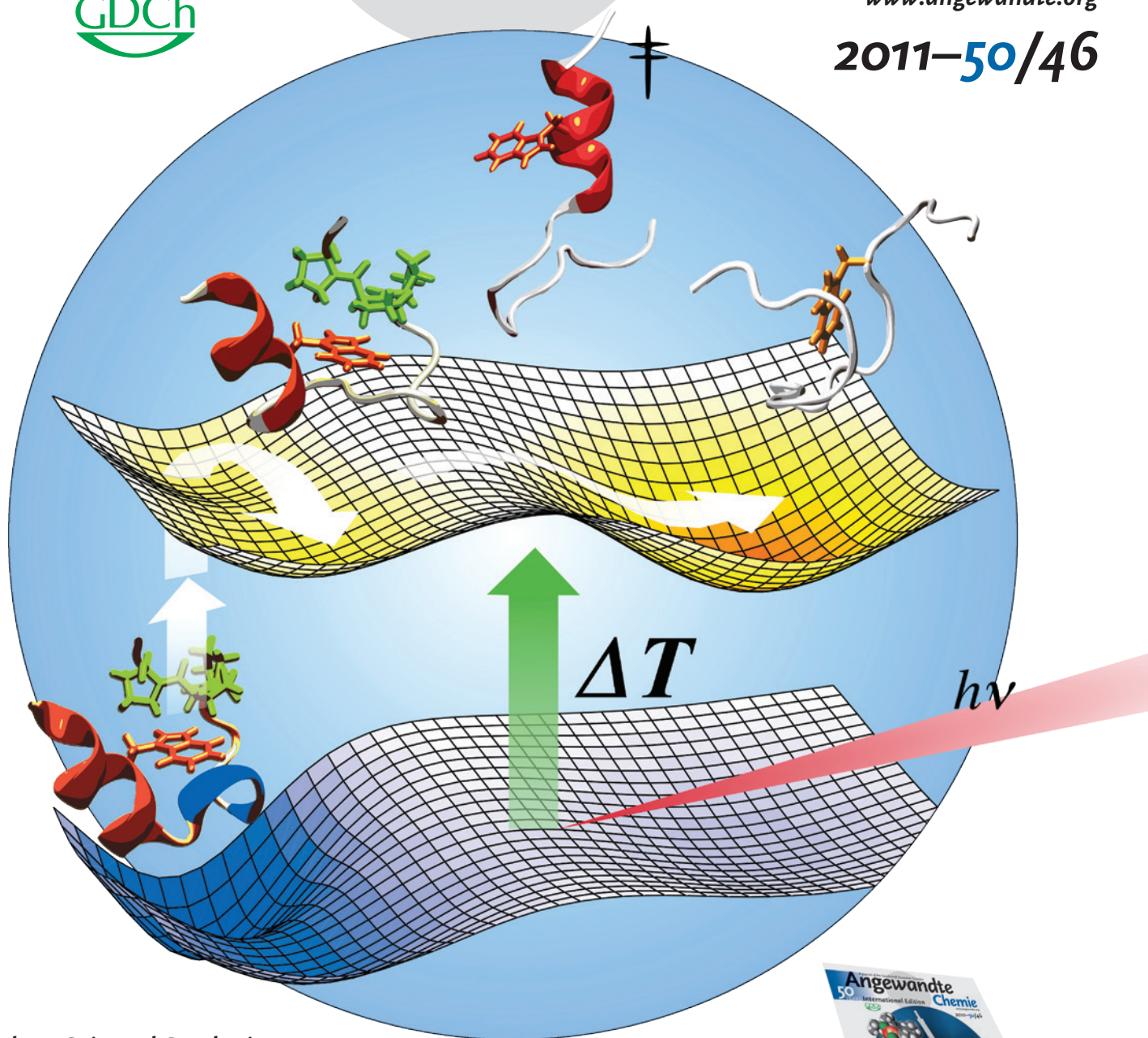
Angewandte Chemie

50 YEARS International Edition



www.angewandte.org

2011–50/46



Biology-Oriented Synthesis

Review by H. Waldmann et al.

Scientific Social Responsibility

Editorial by F. Besenbacher et al.

Oxidative Carbonylation

Minireview by A. Lei et al.

Alfred Werner's Coordination Chemistry

Essay by K.-H. Ernst, H. Berke et al.

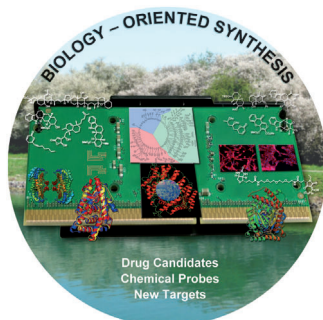
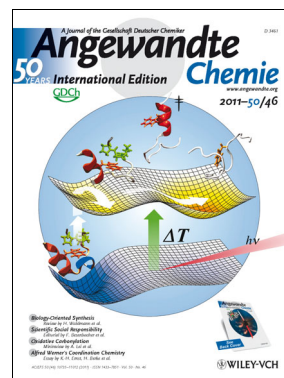


See
Back Cover

Cover Picture

Robert M. Culik, Arnaldo L. Serrano, Michelle R. Bunagan,* and Feng Gai*

The folding dynamics of individual structural elements in proteins is studied by a multi-probe and multi-frequency approach. In their Communication on page 10884 ff., M. R. Bunagan, F. Gai, and co-workers achieve a significantly improved structural resolution in kinetic studies of protein folding using their approach. Application of this approach to the miniprotein Trp-cage provides new insights into the folding mechanism of this extensively studied protein.

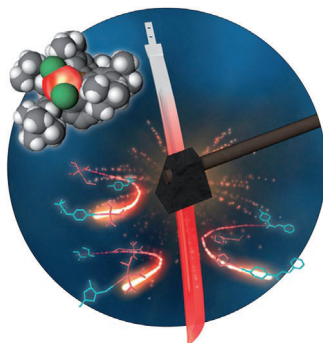
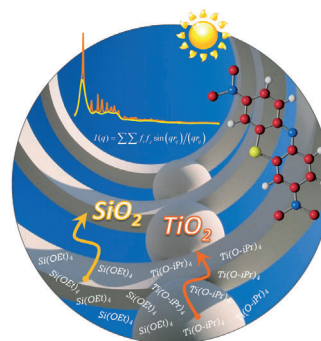


Biology-Oriented Synthesis

The chemical structure space is vast and cannot be investigated fully by the synthesis of compounds. H. Waldmann and co-workers describe in their Review on page 10800 ff. methods that can identify and map the biologically relevant part of the chemical structure.

Nanocomposites

In their Communication on page 10828 ff., A. Cervellino, A. Guagliardi et al. describe a combined real- and reciprocal-space total scattering approach to give a picture of the amorphous/crystalline interplay in silica/titania hybrid materials.



Cross-Coupling

In their Communication on page 10973 ff., M. Nakamura et al. describe a highly C_{sp}³-selective coupling reaction of nonactivated alkyl halides with alkynyl Grignard reagents that uses an iron catalyst with a bisphosphine ligand.