

A Journal of the Gesellschaft Deutscher Chemiker

Angewandte Chemie

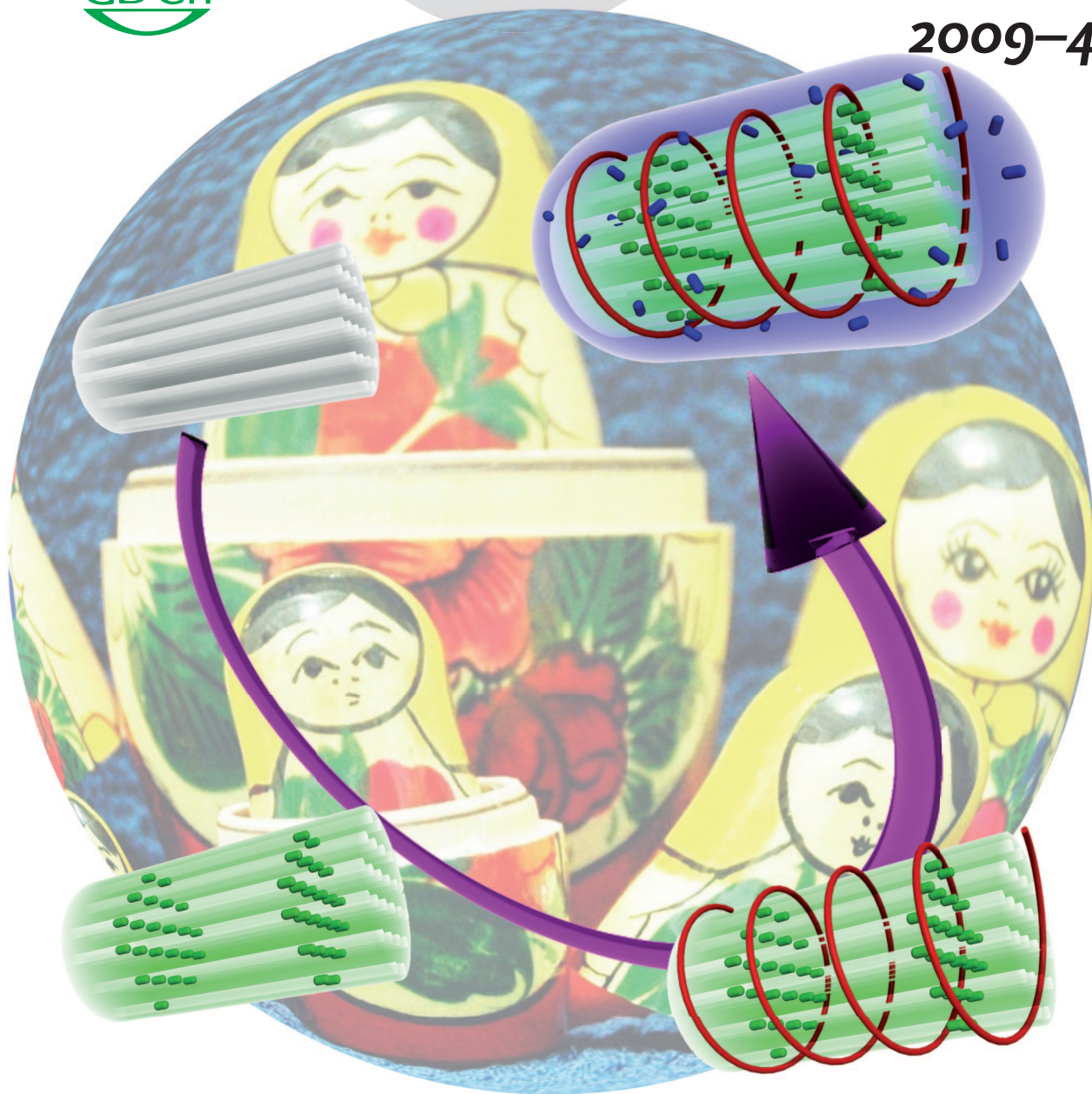
International Edition

D 3461

GDCh

www.angewandte.org

2009–48/7



Combined Quantum Mechanics/Molecular Mechanics Methods

H. M. Senn and W. Thiel

Catalytic Diamination of Alkenes

R. M. de Figueiredo

A Small-Molecule Library with a High Scaffold Diversity

D. R. Spring et al.

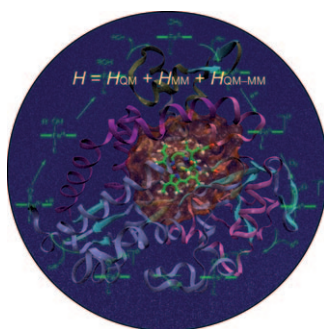
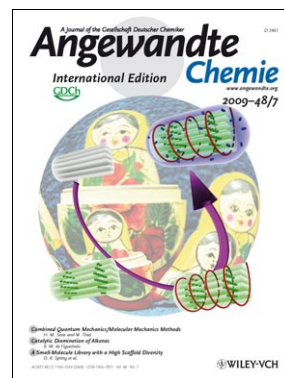
ACIEFS 48 (7) 1169–1336 (2009) · ISSN 1433–7851 · Vol. 48 · No. 7

 **WILEY-VCH**

Cover Picture

Andrés Guerrero-Martínez,* Sandra Fibikar, Isabel Pastoriza-Santos, Luis M. Liz-Marzán, and Luisa De Cola*

Nanocontainers composed of zeolite L crystals were filled with fluorescent dyes and used as the core of a silica “box-in-a-box” construction as in Russian matryoshka dolls, as described by A. Guerrero-Martínez, L. de Cola, and co-workers in their Communication on page 1266 ff. The anisotropic cores and isotropic shells of the multicolor emitting systems are separated by a polyelectrolyte layer and can be addressed independently. This approach opens fascinating routes for the construction of multifunctional nanosystems.

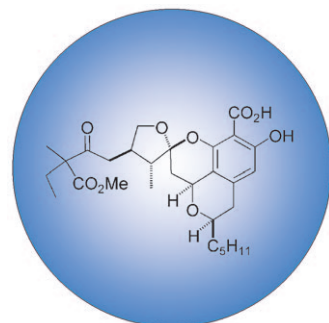
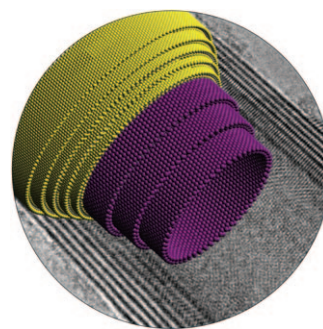


Theoretical Chemistry

Combined quantum mechanics/molecular mechanics methods find many uses in optimization and simulations studies of biomolecules. In their Review on page 1198 ff. H. M. Senn and W. Thiel present case studies and a list of applications from 2006 and 2007.

Inorganic Nanotubes

Multiwall WS₂ nanotube templates were used as hosts to prepare core-shell PbI₂@WS₂ inorganic nanotubes by a capillary-wetting method, as described by R. Tenne and co-workers in their Communication on page 1230 ff.



Natural Product Synthesis

In their Communication on page 1283 ff., B. B. Snider et al. report the stereospecific condensation of a fully functionalized ketal aldehyde and a 2,6-dihydroxybenzoic acid as the key step in the synthesis of (–)-berkelic acid.