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International Year of Chemistry

**Special issue:
Women in Chemistry**

Oxide Nanomaterials

G. R. Patzke et al.

Cage Compounds

K. L. Ciesinski and K. J. Franz

Metallodrugs

S. J. Berners-Price

Solid-State Chemistry

C. Wickleder



Cover Picture

Matthias Neumann, Stefan Földner, Burkhard König, and Kirsten Zeitler*

Highly enantioselective α -alkylations of aldehydes are achieved through the cooperative combination of an organocatalytic cycle and a photocatalytic cycle—represented by the slices of citrus fruits in the “catalytic cocktail”. The beautifully orange-colored photocatalyst eosin Y and green-light irradiation are used to replace noble-metal catalysts, as explained by K. Zeitler et al. in their Communication on page 951 ff. (Cover graphics were designed in cooperation with Georg Neumann.)

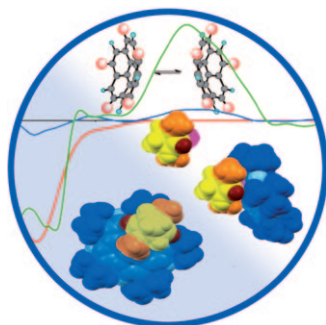
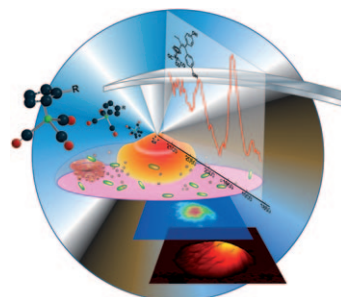


Oxide Nanomaterials

In their Review on page 826 ff., G. R. Patzke and co-workers describe recent developments in the field of oxide nanomaterials. Particular emphasis is placed on applications, new synthetic methods, and in situ techniques for studying formation mechanisms.

Imaging Agents

A rhenium carbonyl complex can be mapped inside cancer cells by its IR signature and used to analyze cell topography. C. Polcar et al. describe this new approach to imaging in their Communication on page 860 ff.



Dynamic Resolution

In their Communication on page 865 ff., K. K. Baldrige, J. S. Siegel, and co-workers report how an enantiopure rhodium(I) dimethylnorbornadiene reagent can be used in the dynamic resolution of interconverting enantiomers of *sym*-pentasubstituted corannulenes.