

A Journal of the Gesellschaft Deutscher Chemiker

D 3461

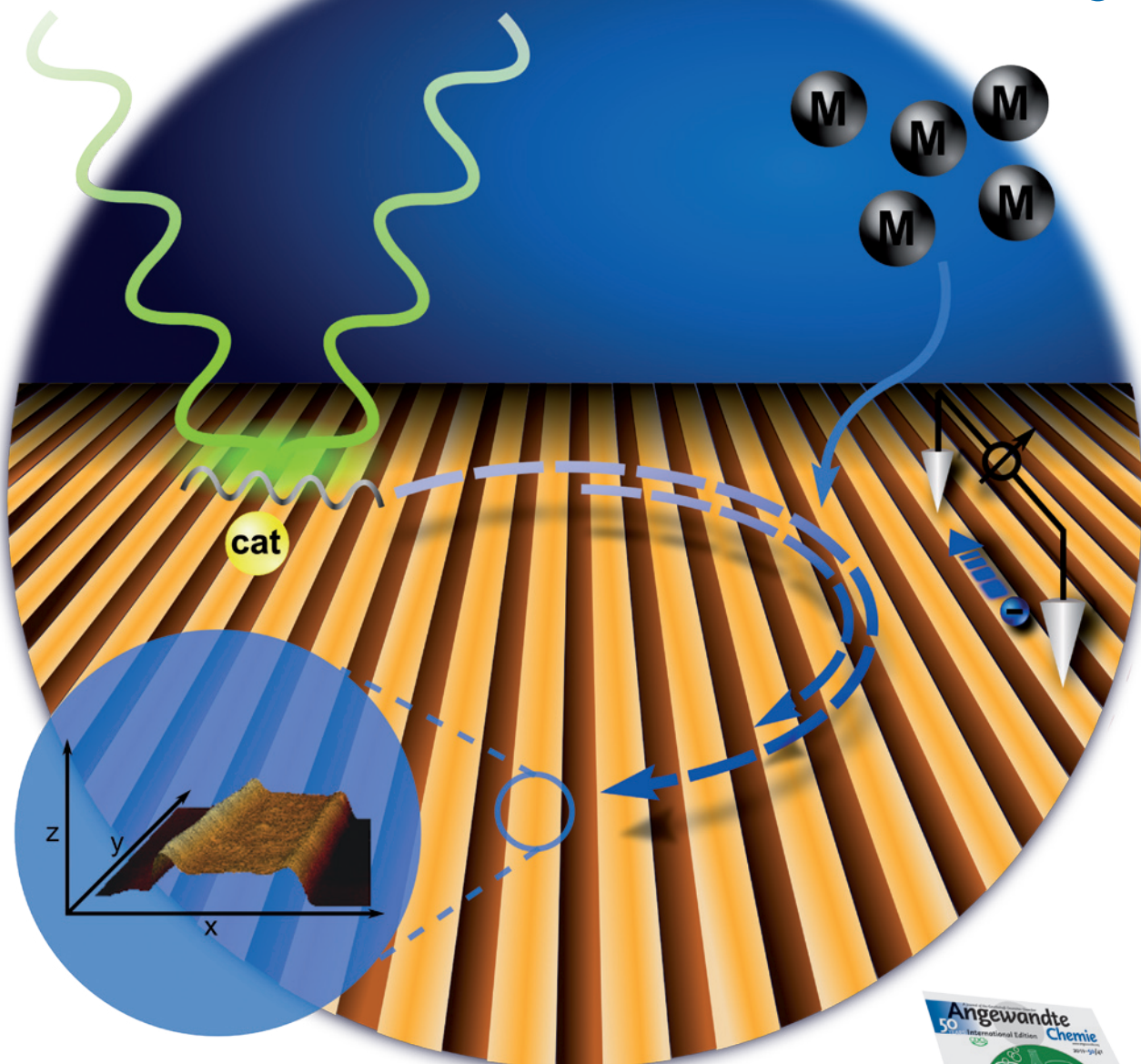
# Angewandte Chemie

50 YEARS International Edition

GDCh

www.angewandte.org

2011–50/41



## Anion- $\pi$ Interactions

Review by A. Frontera, P. Gamez, M. Mascal, T. J. Mooibroek and J. Reedijk

## Energetic Materials

Minireview by J. Shreeve et al.

## 50th Anniversary of the Discovery of the Genetic Code

Essay by V. A. Erdmann and J. Barciszewski

## Highlights: Pyrrolysine • Uranium(III)-Catalyzed CO Hydrogenation

ACIEFS 50 (41) 9509–9758 (2011) • ISSN 1433–7851 • Vol. 50 • No. 41



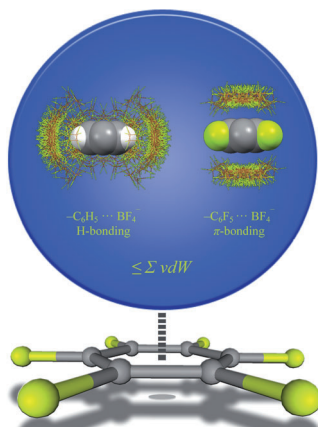
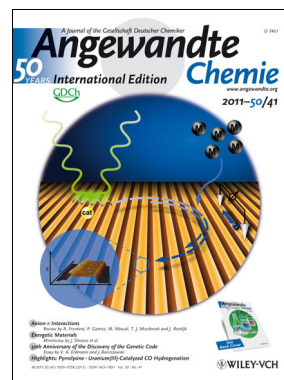
See Back Cover

WILEY-VCH

## Cover Picture

**Johannes Huber, Benjamin Scheinhardt, Tobias Geldhauser, Johannes Boneberg, and Stefan Mecking\***

**Spatial patterning** of a polymerization catalyst can be achieved rapidly and efficiently by means of laser interference. In their Communication on page 9665 ff., S. Mecking et al. describe how monomers, upon polymerization, give a replica of the patterned catalyst. The approach is illustrated by the generation of “wires” of polyacetylene, a prototype of a polymer that is not amenable to any postpolymerization processing.

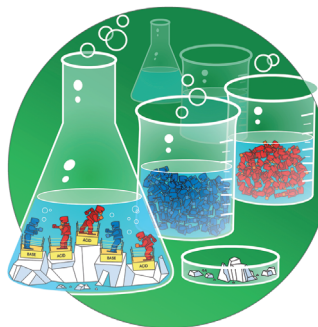
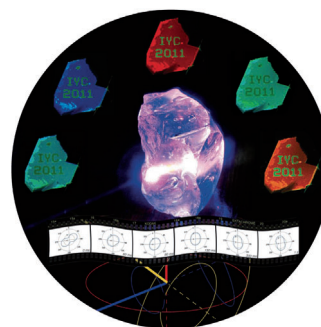


### **Anion- $\pi$ Interactions**

The anion- $\pi$  interaction has recently been recognized as a hitherto unexplored noncovalent bond, which has been investigated both experimentally and theoretically. The current state of research is analyzed by A. Frontera et al. in their Review on page 9564 ff.

### **Photoresponsive Materials**

In their Communication on page 9584 ff. D. M. Bassani and co-workers describe how optical information is written onto microscopic single crystals of a fullerene-based material by spatially controlling the rotation of its polarized emission.



### **Bifunctional Catalysis**

In their Communication on page 9615 ff. N. R. Shiju, G. Rothenberg, et al. describe novel bifunctional solid catalysts that combine both acid and base functions. These new materials were used to catalyze one-pot tandem reactions.