

A Journal of the Gesellschaft Deutscher Chemiker

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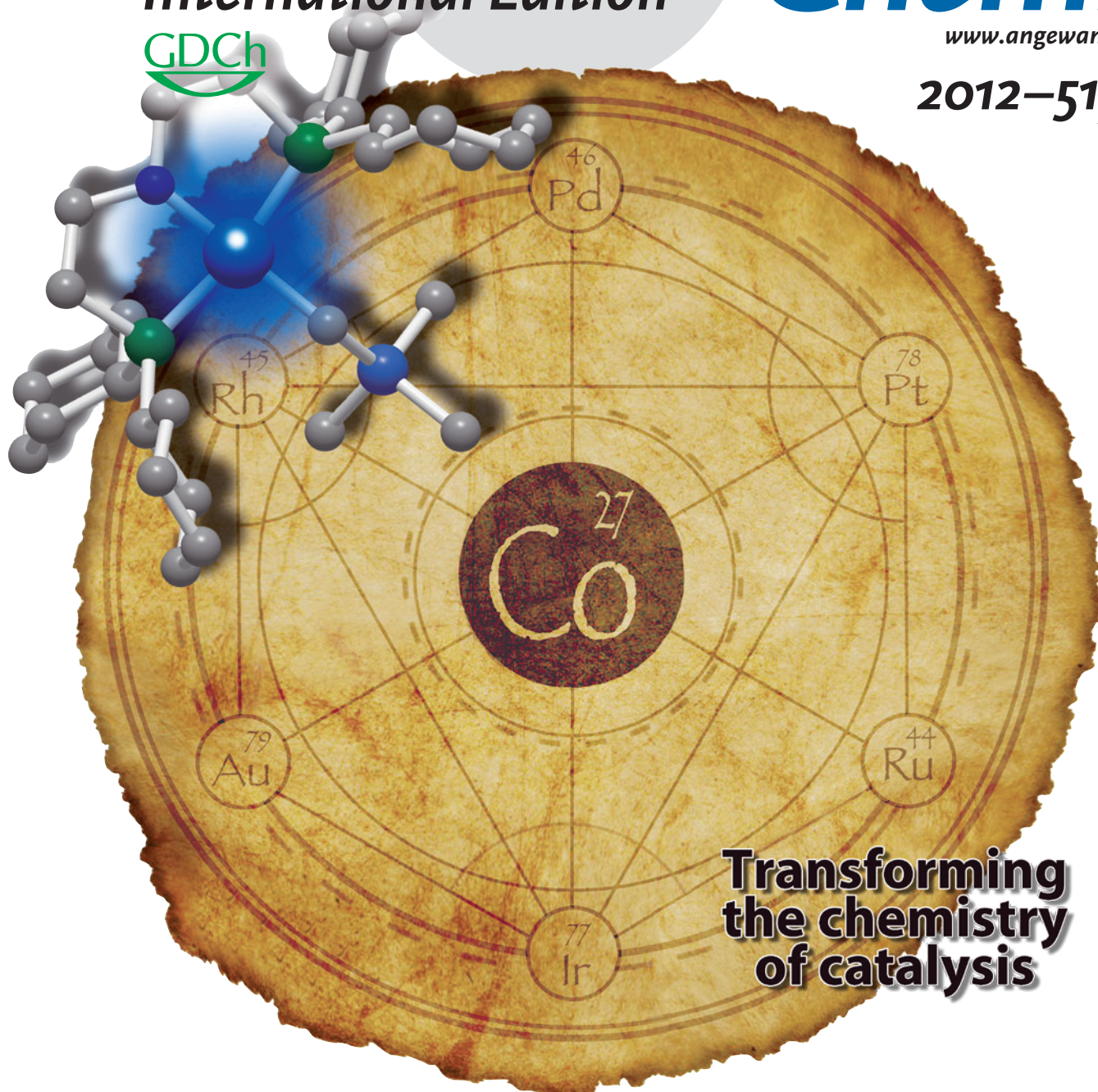
Angewandte Chemie

International Edition

GDCh

www.angewandte.org

2012–51/48



**Transforming
the chemistry
of catalysis**

Amorphous Calcium Carbonate

Review by J. H. E. Cartwright, D. Gebauer et al.

Nonmetallic Cyano-Group Sources

Minireview by S. Chang et al.

Highlights: Self-Healing Supramolecular Materials • Heteroradialenes

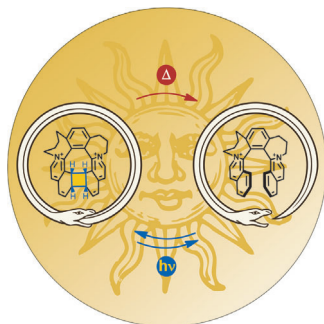
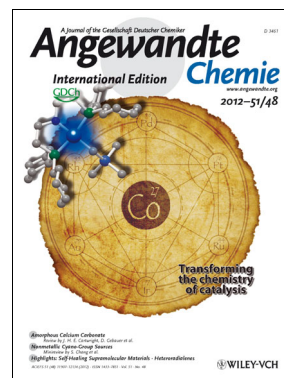
ACIEFS 51 (48) 11907–12134 (2012) • ISSN 1433–7851 • Vol. 51 • No. 48

 WILEY-VCH

Cover Picture

Guoqi Zhang, Brian L. Scott, and Susan K. Hanson*

The substitution of cobalt ... for precious metals in catalysis is a variation on the ancient alchemical theme of transmuting base metals into precious ones. In their Communication on page 12102 ff., S. K. Hanson et al. describe the cobalt-catalyzed hydrogenation of alkenes, aldehydes, ketones, and imines under mild reaction conditions. The precatalyst is a cationic cobalt(II) alkyl complex. (The artwork is by Josh Smith, Los Alamos National Laboratory.)

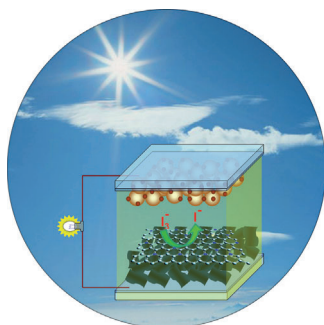
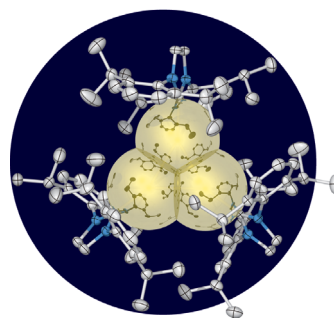


Chiral Circulenoids

In their Communication on page 11972 ff., F. Teplý, P. Slavíček, and co-workers present a circulene-like structure that was prepared by exposing a chiral saddle-shaped dication to sunlight.

Gold Clusters

In their Communication on page 12077 ff., T. G. Gray, J. P. Sadighi, and co-workers present an analogy between the N-heterocyclic carbene stabilized gold cluster $[L_3Au_3]^+$ and $[H_3]^+$.



Solar Cells

In their Communication on page 12124 ff., J. Qu, L. Dai, et al. describe how nitrogen-doped graphene foams can be used as counter electrodes in dye-sensitized solar cells.