

A Journal of the Gesellschaft Deutscher Chemiker

Angewandte Chemie

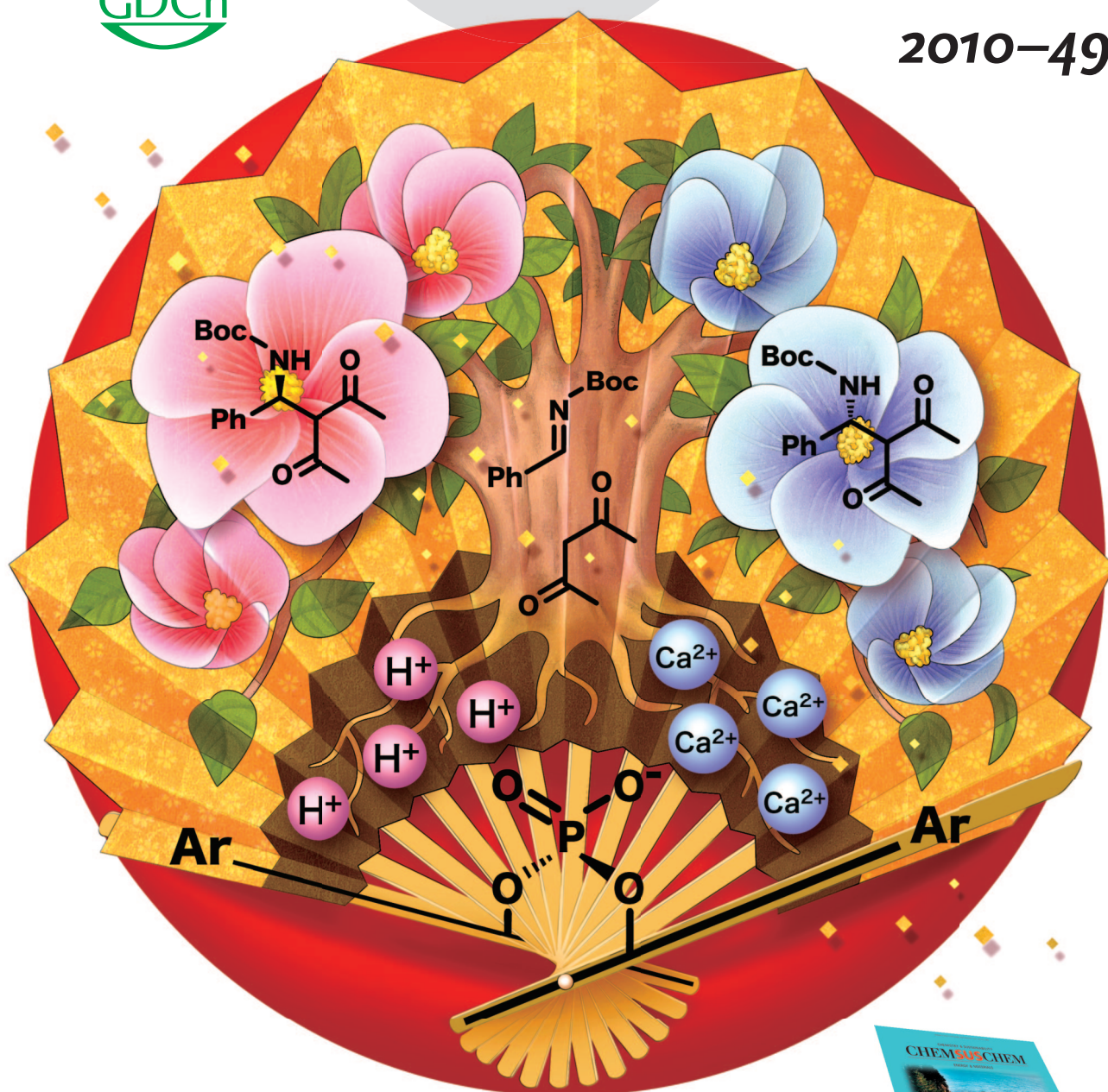
International Edition

D 3461

GDCh

www.angewandte.org

2010–49/22



The Origin of Life

U. J. Meierhenrich et al.

Electrochemically Addressable Libraries

J. Yoshida and A. Nagaki

Hydrogen Production

M. T. M. Koper and E. Bouwman

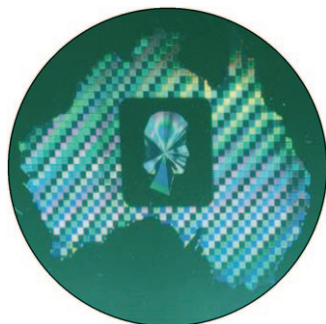
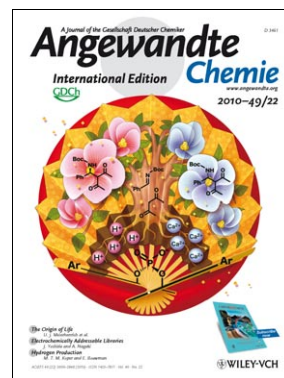


Subscribe
now

Cover Picture

Manabu Hatano, Katsuhiko Moriyama, Toshikatsu Maki, and Kazuaki Ishihara*

Both are active, the chiral phosphoric acid and the chiral calcium phosphate. K. Ishihara and co-workers describe in their Communication on page 3823 ff. a highly enantioselective direct Mannich-type reaction of aldimines with a wide range of 1,3-dicarbonyl compounds. The catalyst, a chiral phosphoric acid, is used in the presence or absence of Ca^{II} . The absolute stereoselectivity of the products without Ca^{II} is the opposite of that obtained with the calcium phosphate catalyst.

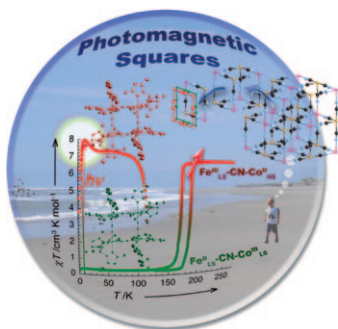
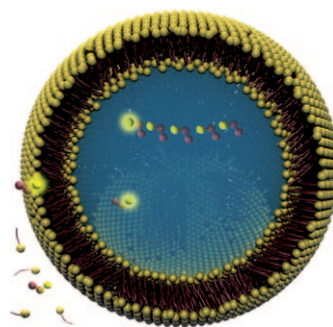


Safe Money

D. H. Solomon and E. L. Prime discuss in their Essay on p. 3726 ff. the problems that had to be solved on the way to producing the world's first plastic bank note in 1988 in Australia.

The Origin of Life

The latest experiments to form vesicles through aggregation of amphiphilic molecules are summarized by U. J. Meierhenrich et al. in their Review on page 3738 ff. They describe a scenario for the origin of primitive cells, focusing on the elongation of encapsulated nucleotides.



Bistable Materials

In their Communication on page 3752 ff., R. Clérac, C. Mathonière, S. M. Holmes et al. describe how magnetic and optical bistability occurs in a tetranuclear cyanometalate $[\text{Fe}_2\text{Co}_2]$ complex. The behavior results from intramolecular electron transfer.