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Jahn–Teller Effect

F. Merkt and H. J. Wörner

Radicals in Catalysis

U. Jahn and L. Ford

Ring-Opening of Hetero-Diels–Alder Adducts

G. Hilt

Drug Discovery in Insects

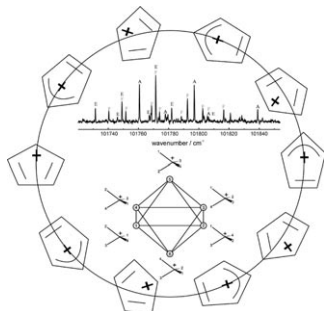
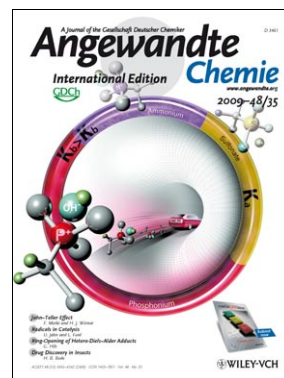
H. B. Bode



Cover Picture

Shuang Gu, Rui Cai, Ting Luo, Zhongwei Chen, Minwei Sun, Yan Liu, Gaohong He, and Yushan Yan*

A hydroxide-conducting and stable ionomer is required to maximize the performance of hydroxide-exchange membrane fuel cells (HEMFCs). In their Communication on page 6499 ff. Y. S. Yan et al. report the synthesis of such an ionomer—a polysulfone–methylene phosphonium hydroxide—as well as its method of action which is based on creating a three-phase boundary in the catalyst layer.

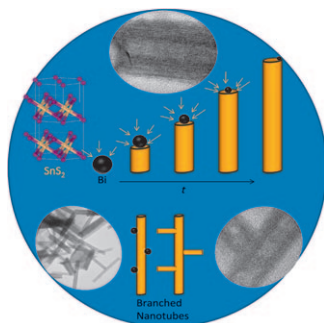
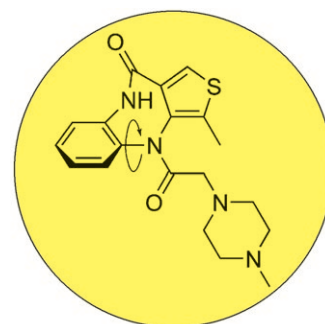


Jahn–Teller Effect

H. J. Wörner and F. Merkt show in their Review on page 6404 ff. how photoelectron spectroscopy and group theory enable detailed information on the dynamic structure of Jahn–Teller distorted molecules to be obtained.

Atropisomers

In their Minireview on page 6398 ff. J. Clayden, S. R. LaPlante et al. discuss problems encountered when drug candidates exist as slowly interconverting atropisomers. Options for dealing with atropisomerism at the early stage of drug design are outlined.



SnS₂ Nanotubes

Using the vapor–liquid–solid process, SnS₂ nanotubes can be formed from SnS₂ nanoflakes by using catalytic bismuth nanodroplets, as W. Tremel et al. describe in their Communication on page 6426 ff.