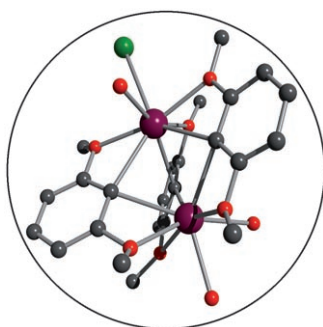
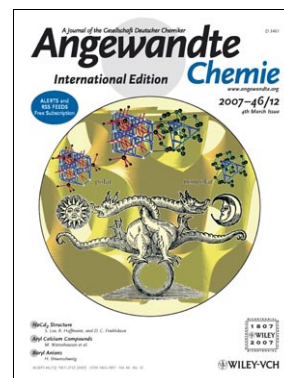


Cover Picture

Daniel C. Fredrickson, Stephen Lee,* and Roald Hoffmann*

The sun and the moon are not quite equal partners; the two clusters shown in the cover picture are more so. They rise and set in several incredibly complex intermetallic phases, such as NaCd_2 . As explained by R. Hoffmann and co-workers in their Review on page 1958 ff., an electronic Aufbau based on these clusters generates the full NaCd_2 structure in all its glory: the clusters build two interpenetrating networks that strive for the extremes of polarity and nonpolarity. The alchemical image, drawn by Robert Vaughn, is from Elias Ashmole's *Theatricum Chemicum Britannicum*.

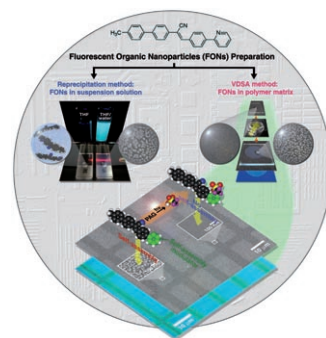


Aryl Calcium Compounds

Organocalcium compounds represent a promising extension from the corresponding lithium and magnesium reagents. In the Minireview on page 1950 ff. M. Westerhausen et al. illustrate the challenges and results of synthesizing stable aryl calcium compounds.

Fluorescent Nanoparticles

In their Communication on page 1978 ff., S. Y. Park and co-workers describe a strategy to produce photopatterned assemblies of fluorescent organic nanoparticles on the surfaces of solid substrates by combining a bottom-up self-assembly process with top-down photolithography.



Copper Centers

S. I. Chan et al. demonstrate in their Communication on page 1992 ff. that a dinuclear and trinuclear copper cluster as well as a type 2 copper site are found in the active site of the particulate methane monooxygenase.