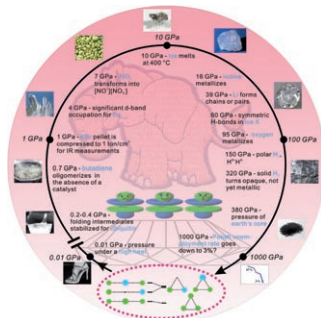


Cover Picture

Tatsuki Morimoto, Hidemitsu Uno, and Hiroyuki Furuta*

The benzene trimer is difficult to observe and isolate as such. However, by adopting a supramolecular platform with three phenyl substituents, as shown in the cover picture and as H. Furuta and co-workers describe in their Communication on page 3672 ff., the strength of the interaction between the three benzene rings in a “trimer” can be evaluated. The presence of such aromatic–aromatic interactions in higher-order aromatic clusters in biopolymers may contribute to some extent to stabilization of their tertiary structures.

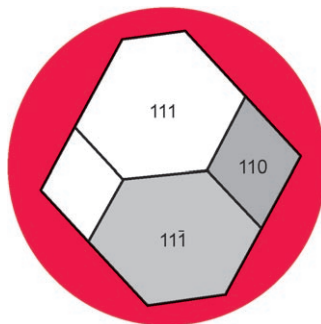
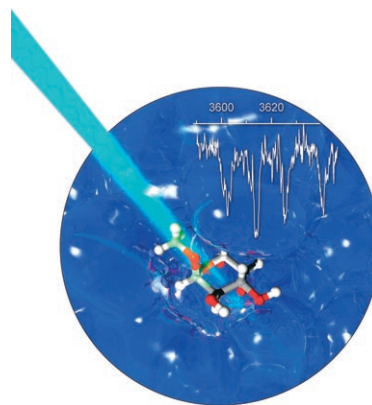


High-Pressure Chemistry

Under extreme pressure, startling chemical and physical phenomena take place. In their Review on page 3620 ff, W. Grochala, R. Hoffmann, J. Feng, and N. W. Ashcroft explore how chemical concepts can help in understanding the behavior of materials under high-pressure conditions.

Sugar-Aromatic Complexes

The protein-sugar interactions crucial to a broad range of biological processes have been modeled and characterized by IR spectroscopy in the gas phase. L. C. Snoek, B. G. Davis, J. P. Simons, et al. give details in their Communication on page 3644 ff.



Nanoparticles

The local topologies of active sites on commercial nanoparticles were investigated by R. E. Dunin-Borkowski et al. in their Communication on page 3683 ff. with TEM techniques based on recent developments in hardware and computation.