CHEMISTRY
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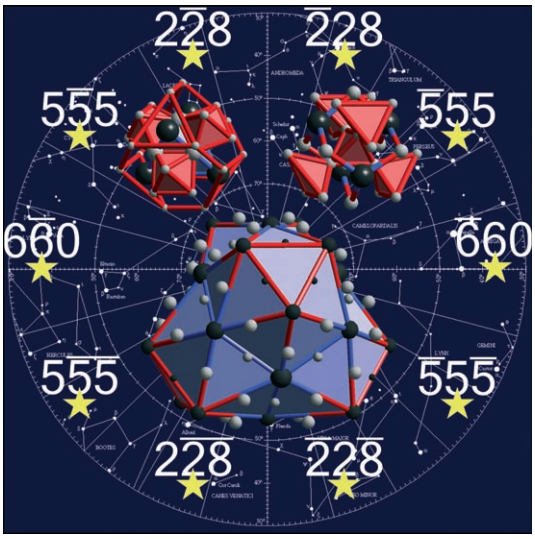
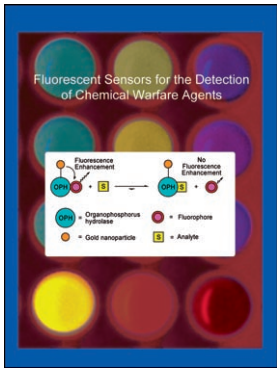
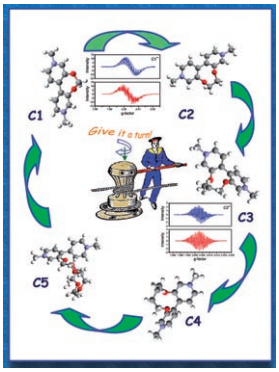
… for meaningful clusters of atoms in the unit cell of a complicated intermetallic crystal is reminiscent of the search for constellations of stars in the sky. In their Full Paper on page 7852 ff., R. Hoffmann, S. Lee and R. F. Berger describe a quantum mechanically guided search for clusters of atoms in $Mg_{44}Rh_7$.

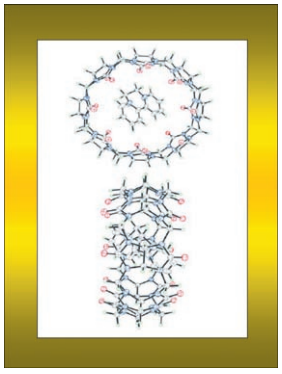



**Detection of Nerve Agents**
In their Concept article on page 7828 ff., S. J. Rowan, C. Weder, and M. Burnworth discuss the development of fluorescent sensors for the detection of nerve agents. Three different sensing principles are discussed: enzyme-based sensors, chemically reactive sensors, and supramolecular sensors.

**Electronic Communication**
In their Full Paper on page 7838 ff., A. C. Benniston, A. Harriman et al. describe a viologen series, for which it has been possible to assess how alterations in the dihedral angle influence the distribution of spin density around the aryl ring and help set the magnitude of the reduction potentials. The key feature with these compounds is that the energy of the LUMO depends critically on the dihedral angle.



**Inclusion Compounds**
In their Full Paper on page 7908 ff., A. E. Kaifer et al. describe how the binding interactions between the guests diquat and paraquat with the hosts cucurbit[7]uril and cucurbit[8]uril span a relatively wide range of binding affinities.