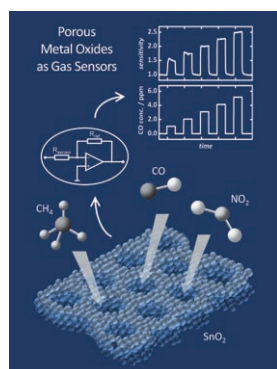
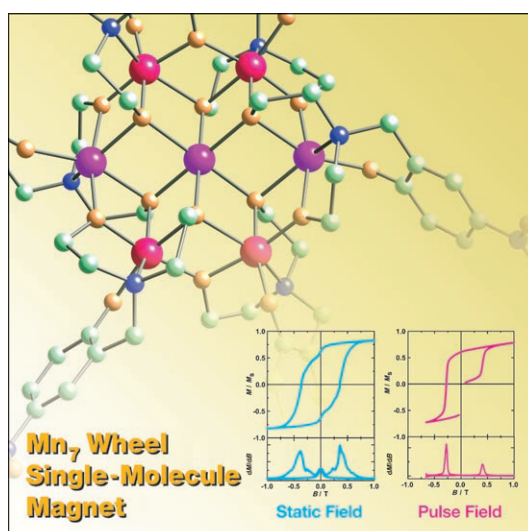


Quantum tunneling of magnetization...

... under static and pulse magnetic fields in a Mn_7 wheel-shaped single-molecule magnet has been investigated. In their Full Paper on page 8445 ff., H. Oshio et al. present their latest result in this exciting field of nano-sized magnetic materials.

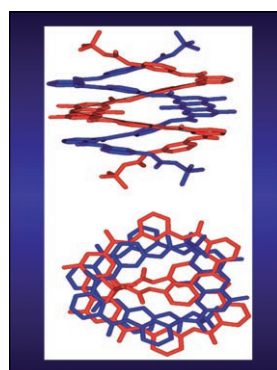
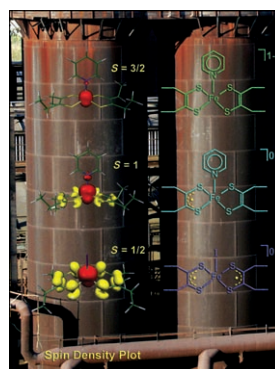


Gas Sensors

In his Concept article on page 8376 ff., M. Tiemann discusses how mesoporosity plays a vital role in the application of semiconducting metal oxides as gas sensors. Apart from exhibiting high sensitivities, due to large specific surface areas, sensors with well-defined porosity offer powerful opportunities with respect to selectivity, self-diagnosis, low operation temperatures or long-term stability.

π -Radical Ligands

Unlike the metal-centered oxidation, which produces the nice rusty surface on a steel mill's recuperator in the background, coordination compounds like the ones from R. Holm's group shown here undergo ligand-centered oxidation. The iron ions formally possess oxidation states of +III (top), +IV (middle), and +V (bottom), but the last two do not adopt a high valent d^4 and d^5 electronic configuration. This topic is discussed in more detail by K. Wieghardt, F. Neese et al. in their Full Paper on page 8390 ff.



Molecular Springs

In their Full Paper on page 8454 ff., I. Huc et al. describe how enlarging the diameter of a helically folded aromatic amide oligomer by using a 1,8-diazaanthracene monomer instead of pyridine unit results in a spectacular enhancement of its ability to form a double helical hybrid. The hybridization process implies a spring-like extension of the helically folded strands to double their pitch.

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