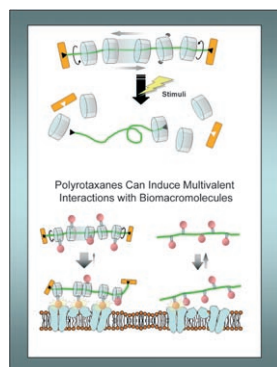
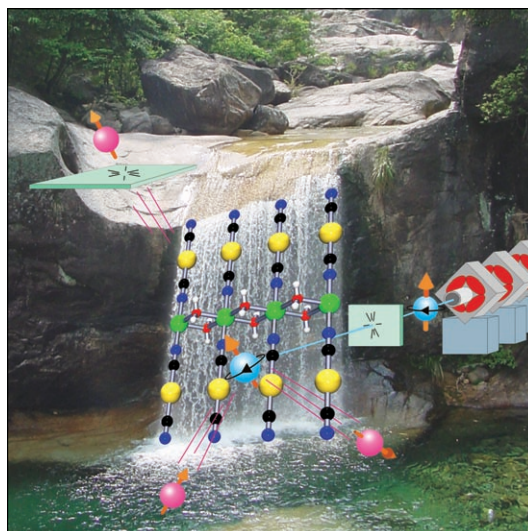


Watery bridges...

... play the key role in a new basic structural motif exhibited by $M(\mu\text{-OH}_2)_2[\text{Au}(\text{CN})_2]_2$ ($M = \text{Cu}, \text{Ni}$) materials. This motif is unique for cyanometallate-based polymers and rare in aqueous coordination chemistry: a 1D chain propagated by double aqua-bridges. These metal–water chains, shown here cascading down a rock-studded waterfall, aggregate through hydrogen bonds to form stacked ribbons in 3D. The magnetic properties of both compounds were studied by using short-lived subatomic muons as highly sensitive local probes in zero-magnetic field, as shown here. D. B. Leznoff, J. E. Sonier et al. describe these Cu^{II} and Ni^{II} cyanoaurate coordination polymers on page 6748 ff.

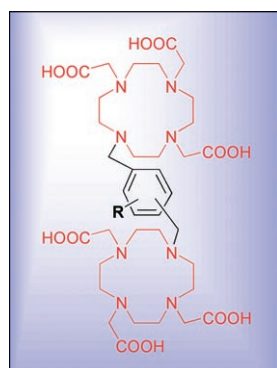
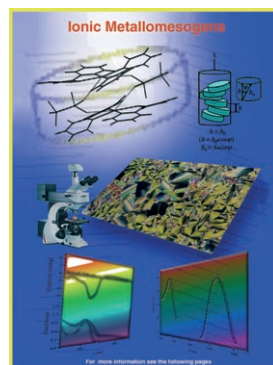


Molecular Recognition

In their Concept article on page 6730 ff., N. Yui and T. Ooya describe how the mobile nature of ligands conjugated to the cyclic compounds in polyrotaxanes is believed to significantly enhance the interaction between the ligands and the receptors in a multivalent manner in biomaterials.

Ionic Metallomesogens

In their Full Paper on page 6738 ff., D. Pucci et al. have prepared new materials in which several functionalities can be introduced, by making an appropriate choice of the construction motifs for a series of bischelatate ionic silver complexes $[\text{Ag}(\text{L}^*)_2][\text{X}]$.



MRI Contrast Agents

In their Full Paper on page 6841 ff., A. E. Merbach, H. Handel, et al. describe the synthesis and characterization of xylene-cored dinuclear Gd^{III} complexes that show unusual aggregation properties in aqueous solution. As driving force of the aggregation phenomenon, hydrophobic interactions, γ -stacking between the aromatic linkers, and possible hydrogen bonding between the chelates can be evoked.



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