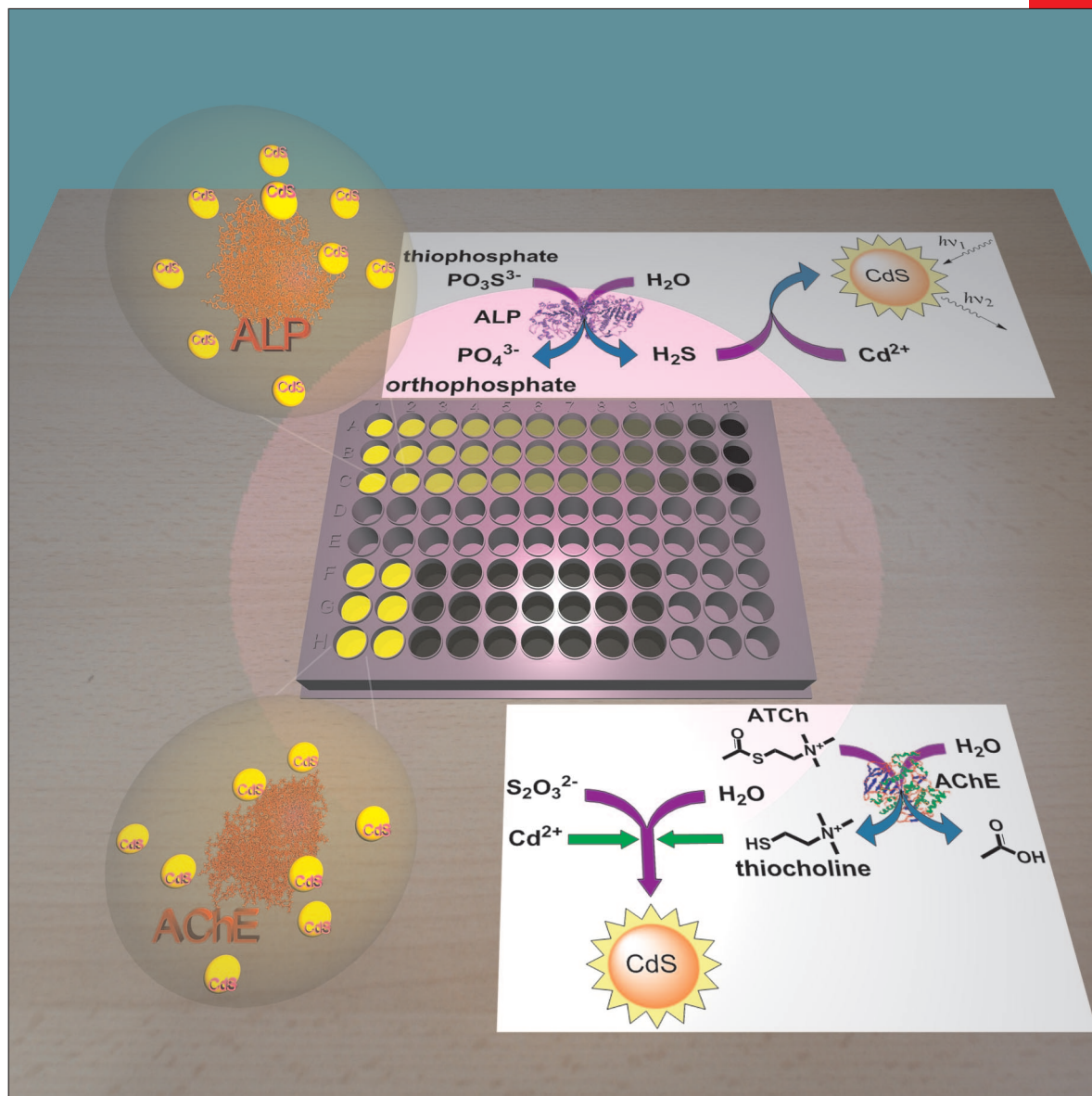


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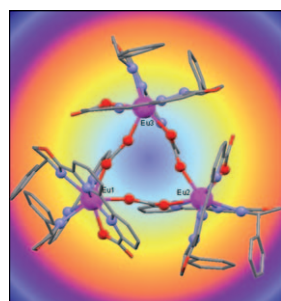
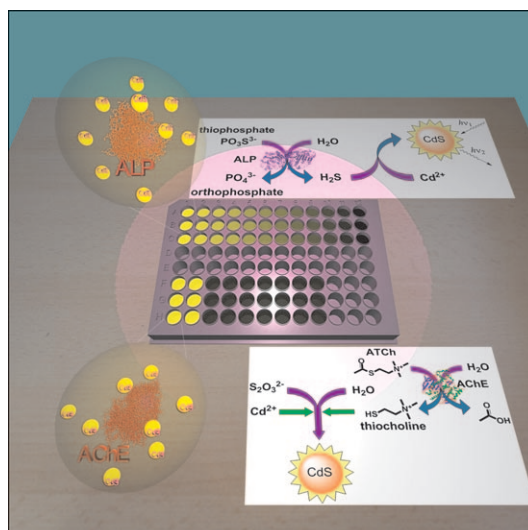
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Detection...

... of acetylcholine esterase and alkaline phosphatase was made possible by two analytical assays based on the generation of quantum dots for enzymatic products and are described by V. Pavlov et al. on page 6187 ff. The enzymes induce the formation of H_2S , which in the presence of cadmium cations yields CdS quantum dots.

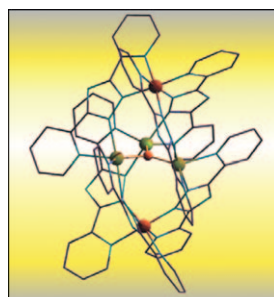


Lanthanides

In their Communication on page 6159 ff., M. Mazzanti et al. report on a rare, enantiopure, trinuclear europium complex obtained in a novel, concentration-dependent, self-assembly process promoted by a new, chiral, carboxylate-derivatized bipyoxazoline ligand. They show that selective homochiral recognition occurs, probably as a result of steric interactions, during the self-assembly of the bis-ligand monomeric complexes to yield the final trinuclear species.

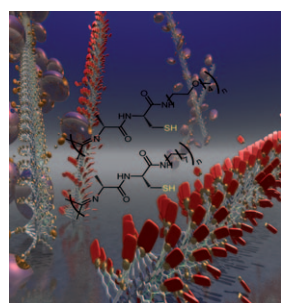
Cluster Compounds

In their Communication on page 6169 ff., M.-L. Tong, H. Oshio et al. report on how through the introduction of different counterions the spin states of two apical iron(II) ions in cationic pentanuclear $\{Fe_5\}$ clusters can be tuned in a high-spin state by an $[Fe_2OCl_6]^{2-}$ anion and in a low-spin state by $SCN^-/ClO_4^-/I^-$ anions. These studies provide an excellent example for spin-transition cluster systems that exhibit mixed-spin structures and synergy between spin transitions and magnetic interactions.



Helical Polyisocyanides

Helical macromolecular scaffolds that can be readily derivatized by using the thio-click chemistry approach are described in the Full Paper by S. Le Gac, A. E. Rowan, R. J. M. Nolte et al. on page 6176 ff. The scaffolds are based on a polyisocyanide skeleton and include alanine-cysteine motifs in their side chains. A preferred screw-sense folding of the backbone is achieved during the polymerization process and interchain hydrogen-bonding interactions further stabilize the helical conformation of the polymer, resulting in the formation of well-defined nanorods hundreds of nanometers long. (Image created by N. Veling.)



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