CHEMISTRY
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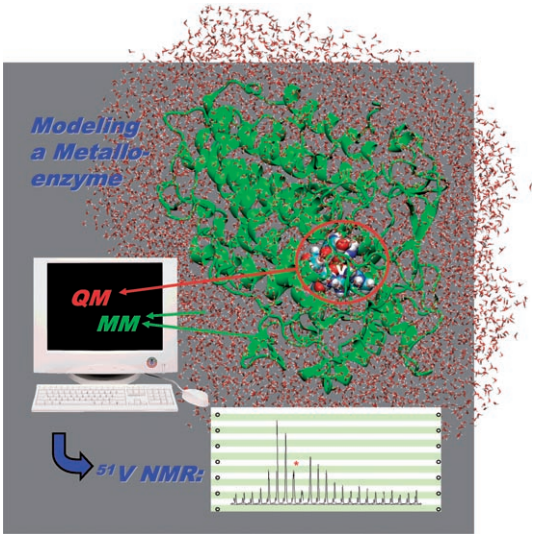
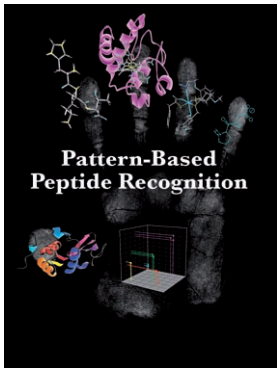
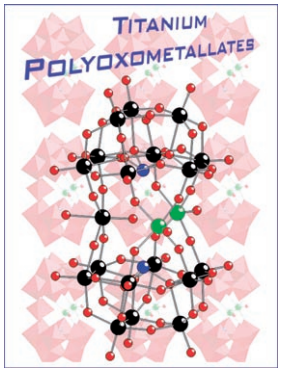
… calculated from QM/MM models of vanadium chloroperoxidase were used to shed light on the protonation state and hydrogen-bond network in the active site of the enzyme. In their Full Paper on page 4723 ff., M. Bühl et al. describe the first QM/MM-based ^{51}V NMR chemical-shift computations for an entire enzyme.





Sensor Arrays
In their Concept article on page 4700 ff., E. V. Anslyn and B. E. Collins describe the current developments in the use of sensor arrays of synthetic receptors for fingerprinting proteins, peptides, and amino acids. The power of differential arrays of synthetic receptors is evident for protein recognition.

Organocatalysis
In their Full Paper on page 4710 ff., C. Bolm et al. report on the use of ball milling in asymmetric organocatalysis. The effects of concentration, water, and impurities on the reaction outcome are also discussed.



Titanium-Containing Polytungstates
In their Full Paper on page 4733 ff., U. Kortz et al. describe a new member of the small class of titanium-containing polytungstates. Synthesis of the compound, stability, and electrochemical behavior of the salts were studied and complemented by oxidation catalysis studies.