CHEMISTRY
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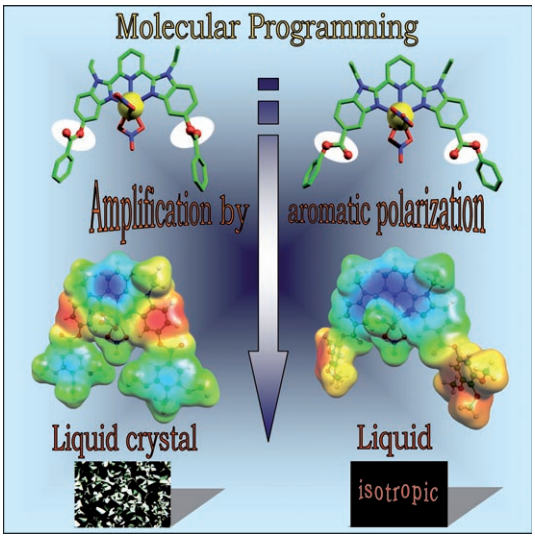
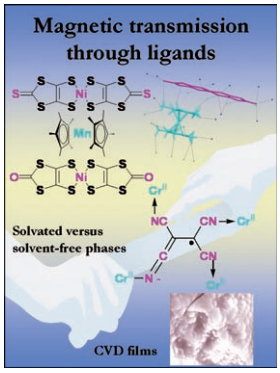
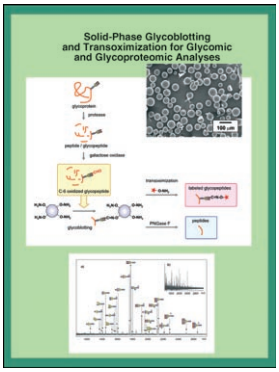
… …of luminescent lanthanide-containing thermotropic liquid crystals is depicted on the cover. In their Full Paper on page 1674 ff., C. Piguet, P.-Y. Morgantini et al. describe how the specific orientation of the carboxylic spacers in the molecular building blocks induces significant changes in the aromatic polarizations as measured by the electrostatic potential calculated on the Connolly surface. Only a sufficient set of polarization alternances produces enough intermolecular enthalpic cohesion compatible with the formation of liquid-crystalline phases.

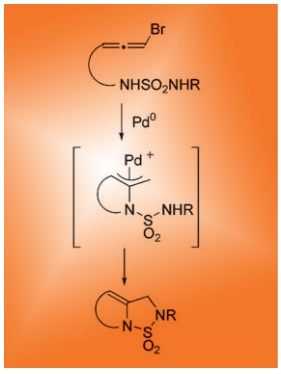




Connectivity in Metal-Complex-Based Magnets
In Concept article on page 1650 ff., L. Valade et al. describe how the magnetic exchange efficiency in transition-metal-complex-based magnets is highly sensitive to the ability of the peripheral atoms of ligands to build magnetic networks. In solution-grown phases, solvents may occupy coordination sites and create breakthrough within the networks. Gas-phase preparation techniques such as CVD avoid the use of solvents.



Oligosaccharides
In their Full Paper on page 1664 ff., S.-I. Nishimura et al. describe a novel strategy for high-throughput glycomics and glycoproteomics based on one-pot solid-phase chemical manipulations including glycoblotting and probing by transoximization.



Allene Chemistry
In their Full Paper on page 1692 ff., H. Ohno, T. Tanaka et al. describe a highly regioselective synthesis of bicyclic sulfamides. Formation of two types of bicyclic sulfamides from single bromoallenes with a four- or five-atom tether between the sulfamide and bromoallene by simply changing the reaction conditions is also described.