

# CHEMISTRY

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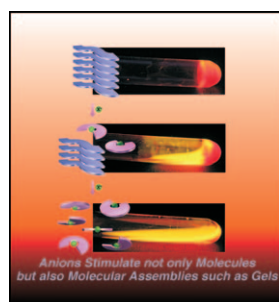
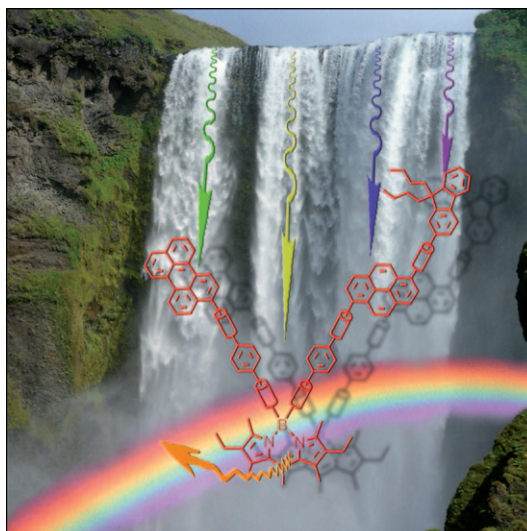
**Concept**  
Anion-Responsive Supramolecular Gels  
H. Maeda

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# New segmented multicascade devices...

... were created by linking polyaromatic residues with different optical properties to the boron centre of a highly luminescent boradi-azaindacene dye. The picture shows a powerful stream of water and such a boron-substituted dye in which all the absorbed photons are channeled to the bottom of the molecule, which is the only fluorescent species. For more details, see the Full Paper on page 11461 ff. by R. Ziessel, A. Harriman, and L. Mallon.

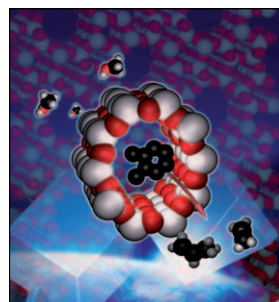
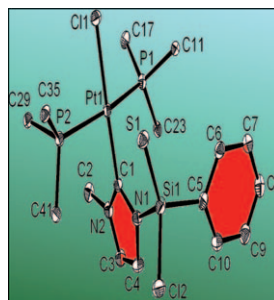


## Supramolecular Gels

In his Concept article on page 11274 ff., H. Maeda describes the fledgling chemistry on the anion-driven transformations of gels, composed of low-molecular-weight molecules, to solutions as well as crystals and other gel states, wherein anions and counteranions play essential roles as the building subunits of organized structures.

## Silicon Chemistry

In their Communication on page 11300 ff., J. Wagler et al. report on the oxidative addition of the first example of a methimazolysilane to  $Pt^0$ . It provided easy access to a novel *N*-silylated *N*-heterocyclic carbene complex that exhibited structural features consistent with a donor-stabilized silanethione, thus contributing to the pool of SiX bonding patterns, although its hydrolysis product is a representative of the scarcely explored *N*(*H*)-substituted NHC class of complexes.



## Heterogeneous Catalysis

In their Full Paper on page 11320 ff., B. M. Weckhuysen et al. have demonstrated, by using the methanol-to-olefin process as probe reaction and large crystals of two distinct molecular sieves, that the combination of in-situ UV/Vis spectroscopy and confocal fluorescence micro-spectroscopy is a very valuable tool to probe coke deposits and their precursors during catalytic reactions.

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