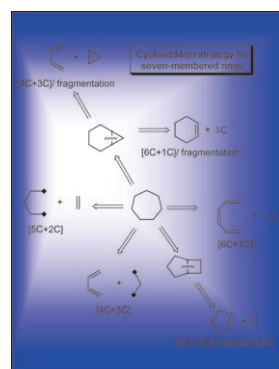
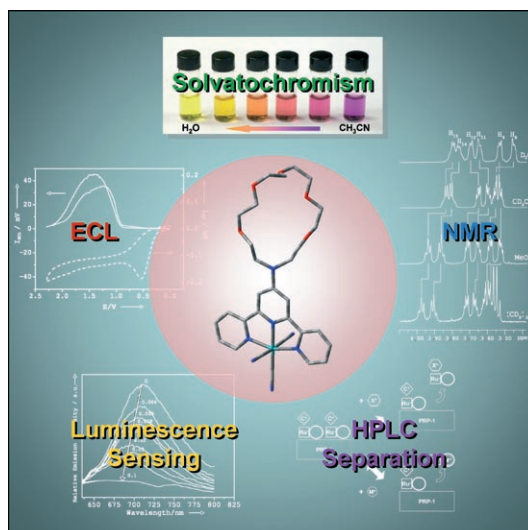


Interesting solvatochromism,...

... photoluminescence, and electro-generated chemiluminescence (ECL) properties are displayed by a crown ether-containing terpyridyl cyanoruthenate(II) complex, as reported by V. W.-W. Yam et al. in their Full Paper on page 3528 ff. Large changes in the chemical shifts of the ^1H and ^{13}C NMR signals in different solvents were observed. The complex has also been demonstrated to serve as a reagent for luminescence chemosensing and as a mobile-phase additive in liquid chromatography separation and indirect photometric detection (IPD) of metal cations and amino acids.

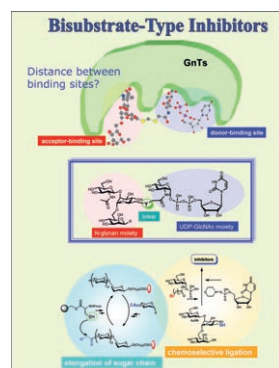
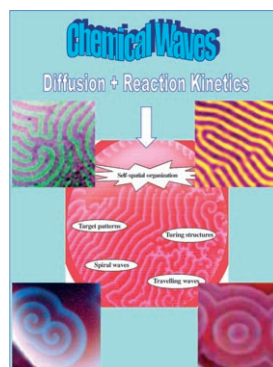


Cycloaddition Strategy

In their Concept article on page 3438 ff., D. L. Wright et al. explore different cycloaddition approaches used in the synthesis of highly substituted carbocyclic seven-membered rings, which are frequently found in natural products.

Chemical Waves

In their Concept on page 3430 ff., M. Rustici et al. discuss waves of chemical reactions that can travel through the reaction medium, and the important stationary patterns that may spontaneously form in some particular chemical systems. Pattern formation is common in different biological systems. The study of the onset and of the mechanism through which these phenomena develop is related to the theory of morphogenesis, and for these reasons, at this moment it is the subject of extensive investigations by biologists, chemists, and physicists.



Chemical Ligation

In their Full Paper on page 3449 ff., Y. Ito et al. present the synthesis of bisubstrate-type inhibitors of *N*-acetylglucosaminyltransferases. The inhibitors differ in length of the linkers, which connect the acceptor oligosaccharide and the donor components. Oligosaccharide synthesis was conducted based on a solution-phase polymer support resin capture–release strategy, which was followed by chemoselective ligation with the UDP-GlcN component. The inhibitory activities proved to be sensitive to the distances between two components.

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