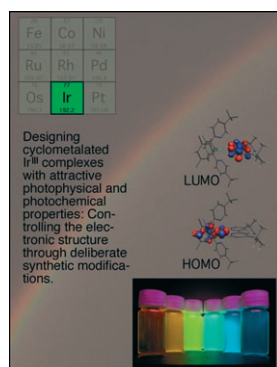
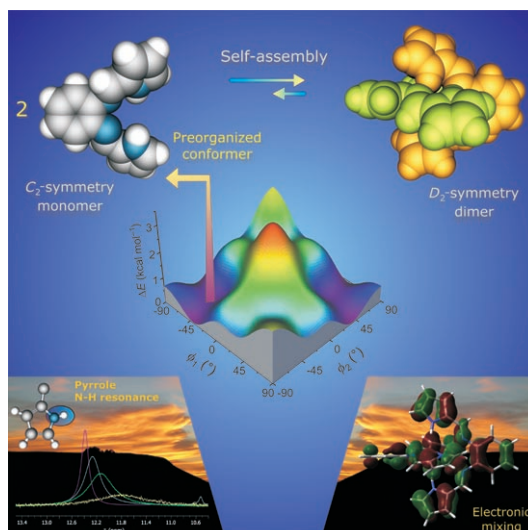


Molecular recognition...

... through conformational preorganization is discussed in the Full Paper on page 7987 ff. by O. Q. Munro et al. The global minimum conformation of a bis(pyrrole) Schiff base derivative exhibits C_2 symmetry and a highly nonplanar conformation that is preorganized for self-assembly into a tight hydrogen-bonded dimer with exact D_2 symmetry. The solution-phase structure of the dimer, which predominates at higher concentrations (narrow pyrrole N–H resonance), matches the X-ray structure. The monomers within the dimer are electronically mixed.

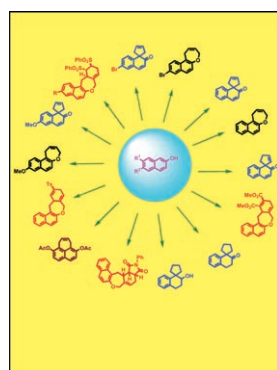
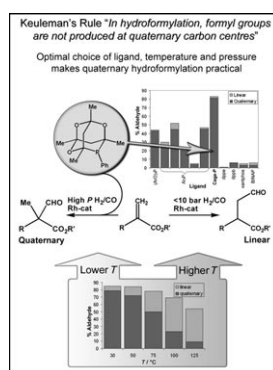


Synthetic Tailoring

The nature and energy of the excited state in mixed-ligand iridium(III) complexes can be manipulated by deliberate chemical synthesis. In their Concept article on page 7970 ff., S. Bernhard and M. S. Lowry describe how synthetic control can be applied to phosphorescent, cyclometalated iridium(III) complexes.

Hydroformylation Reactions

Aldehydes are fundamental building blocks for organic synthesis. In their Full Paper on page 7978 ff., M. L. Clarke and G. J. Roff have demonstrated that by using phenylphosphotrioxadamantane as a ligand, a range of unsaturated esters can be hydroformylated with high conversion and regioselectivity to favor the less common α -substituted aldehyde.



Structural Diversity

In their Full Paper on page 8024 ff., S. Kotha et al. describe a diversity-oriented approach to biologically relevant molecular frameworks in three to five steps by changing the highly atom-economical (Claisen rearrangement, metathesis, and Diels–Alder) reaction sequences.

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