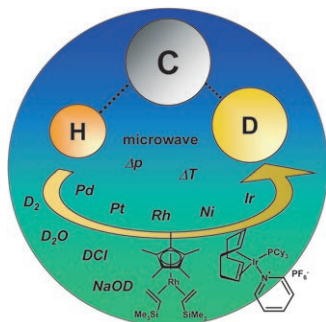
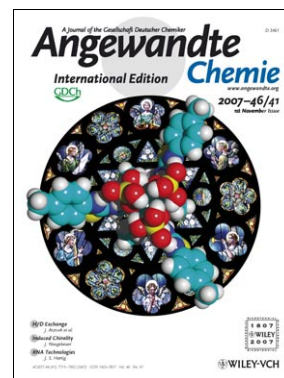


Cover Picture

Grigory V. Zyryanov, Manuel A. Palacios, and Pavel Anzenbacher, Jr.*

The beauty of symmetry is evident in many different forms, such as in The Star of David, rosette windows, and receptor–substrate complexes. P. Anzenbacher, Jr. et al. show in their Communication on page 7849 ff. how C_3 -symmetrical receptors with an array of six hydrogen-bond donors replicate the symmetry in the complex of three phosphate anions within the binding cavity. These receptors were converted into fluorescence sensors capable of detecting phosphates, including AMP and ATP, in water and in blood serum.

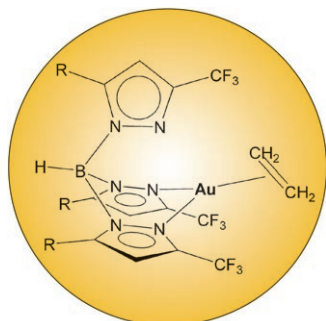
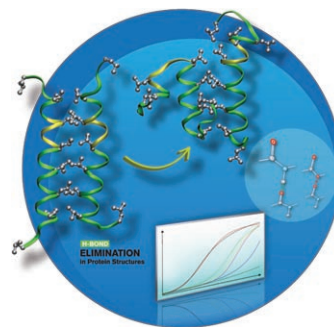


H/D Exchange

Deuterated compounds may be prepared cost effectively by H/D exchange on a carbon center. In addition to acid- or base-catalyzed methods, metal-catalyzed reactions are also available, as described in the Review by J. Atzrodt et al. on page 7744 ff.

Protein Structures

To predict the structure and folding of proteins, it is necessary to understand the role of hydrogen bonds. In their Communication on page 7766 ff., B. Kokschi et al. present a combined experimental and theoretical approach to this problem.



Gold Ethylene Complexes

Fluorinated scorpionate ligands were used to prepare the first thermally stable gold(I) ethene adduct. The ethylene ligand is η^2 -bound, and the gold center has trigonal-planar coordination, as explained by R. Dias et al. on page 7814 ff.