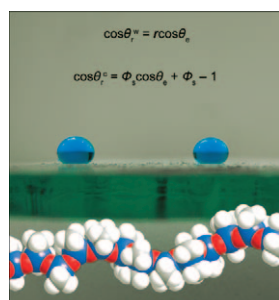
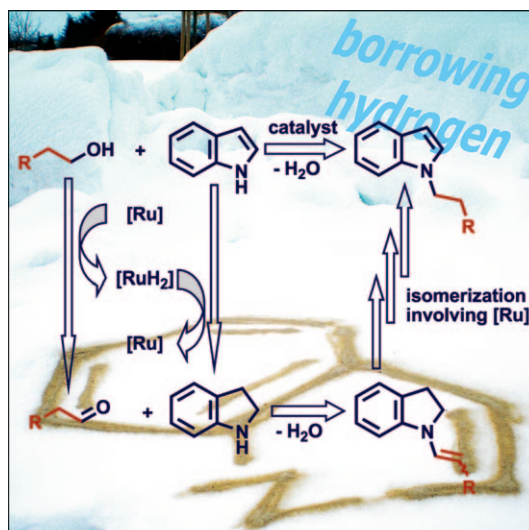


Review

Preparation and Characterisation of Super-Hydrophobic Surfaces
C. R. Crick and I. P. Parkin

... catalysis for an environmentally benign N-alkylation of indoles with alcohols is described in a joint effort by M. Beller, J. Williams, and co-workers in their Communication on page 3590 ff. This novel procedure occurs through an unusual "borrowing hydrogen" methodology by use of the Shvo catalyst. The protocol is operationally simple and mechanistically involves an in situ transfer hydrogenation of the indole.

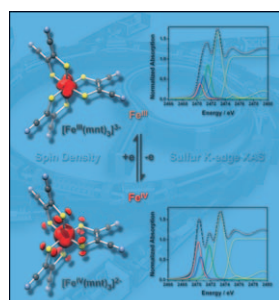


Super-Hydrophobic Surfaces

In their Review on page 3568 ff., I. P. Parkin and C. R. Crick discuss the construction and key properties of super-hydrophobic surfaces, along with a summary of the different routes towards super-hydrophobicity.

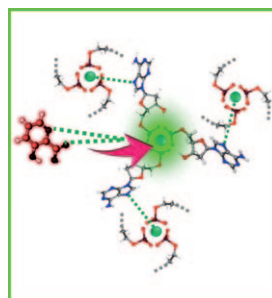
Nanoparticles

In their Communication on page 3604 ff., N. Kimizuka et al. demonstrate the use of 3-hydroxypicolinic acid as an ancillary ligand to switch on the luminescence of nucleotide/lanthanide coordination nanoparticles (CNPs). These coordination networks are capable of uptaking cofactor ligands, which can coordinate to a Tb^{3+} center. The changes in the local coordination environment of the Tb^{3+} ions leads to sensitized luminescence.



High-Valent Iron

In their Full Paper on page 3628 ff., K. Wieghardt et al. describe a series of iron complexes with bidentate sulfur ligands that contain iron in the oxidation state +IV. By a detailed spectroscopic and density functional theoretical study, the electronic structures are elucidated and correlated to the structural features of the complexes.



GERMANY	NETHERLANDS
BELGIUM	ITALY
FRANCE	SPAIN
PORTUGAL	GREECE
CZECH REPUBLIC	POLAND
SWEDEN	HUNGARY
AUSTRIA	

Supported by
ACES

Chemistry—A European Journal is jointly owned by the 14 Chemical Societies shown above and published by Wiley-VCH. This group of Societies has banded together as Chemistry Publishing Society (ChemPubSoc) Europe for its combined publishing activities. The journal is also supported by the Asian Chemical Editorial Society (ACES).