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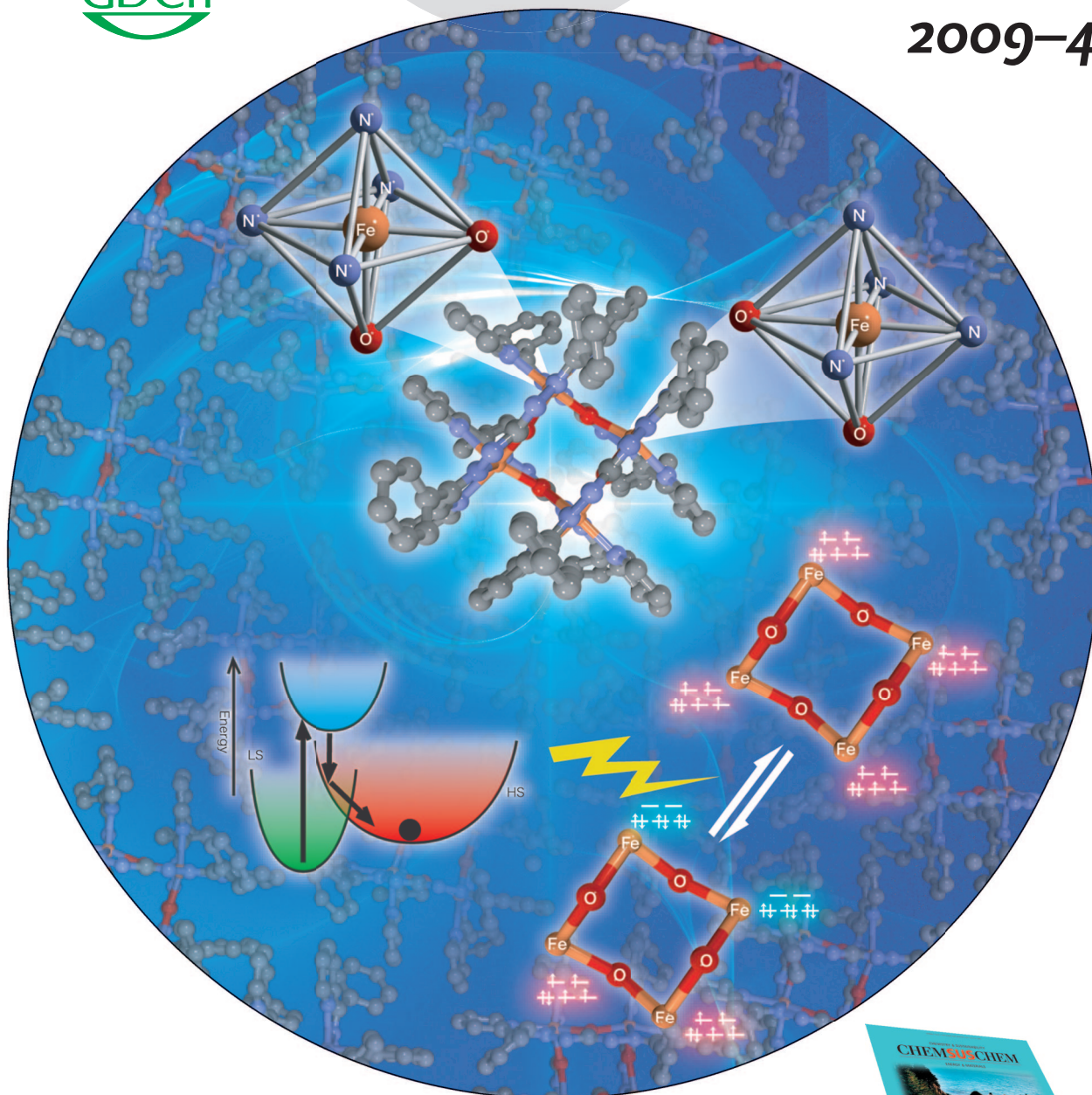
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RNA Interference

J. Kurreck

Selenating Reagents

J. D. Woollins and G. Hua

Asymmetric Intermolecular α -Alkylation of Aldehydes

P. Melchiorre

Iron (Domino) Catalysis

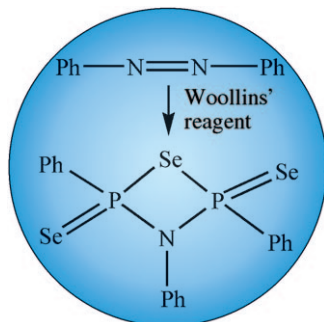
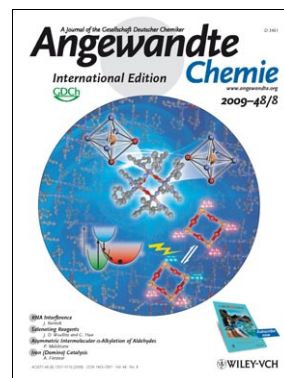
A. Fürstner



Cover Picture

Da-Yu Wu, Osamu Sato,* Yasuaki Einaga, and Chun-Ying Duan

A spin-crossover cluster with the $\{\text{Fe}^{\text{II}}_4\text{O}_4\}$ core structure is presented by D. Y. Wu, O. Sato et al. in their Communication on page 1475 ff. The cluster is synthesized by self-assembly and shows an abrupt spin transition, giving two high-spin and two low-spin states. It exhibits complete light-induced excited spin-state trapping effects. Importantly, synergy effects between the magnetic interaction and spin transition operate in the cluster.

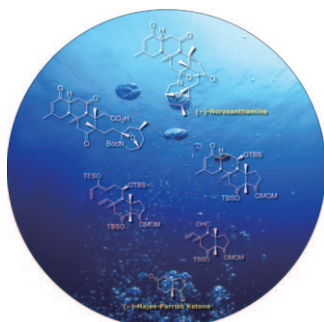
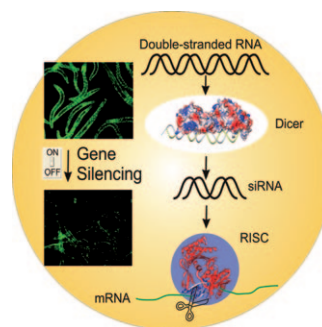


Phosphorus–Selenium Heterocycles

In the Minireview on page 1368 ff., J. D. Woollins and G. Hua describe a P–Se heterocycle that can transform a variety of different organic substrates into heterocyclic products. The “Woollins’ reagent” is a homologue of the Lawesson reagent.

RNA Interference

The posttranscriptional inhibition of the expression of homologous genes by double-stranded RNA molecules (RNA interference) is a standard method in molecular biology. J. Kurreck gives, in his Review on page 1378 ff., an overview of the underlying basic cellular processes.



Natural Products Synthesis

In a highly diastereoselective synthesis of the ABC rings of (–)-norzoanthamine the three asymmetric quaternary carbon centers on the C ring are constructed by a 1,4-addition. S. Kobayashi et al. discuss the synthesis in their Communication on page 1400 ff.