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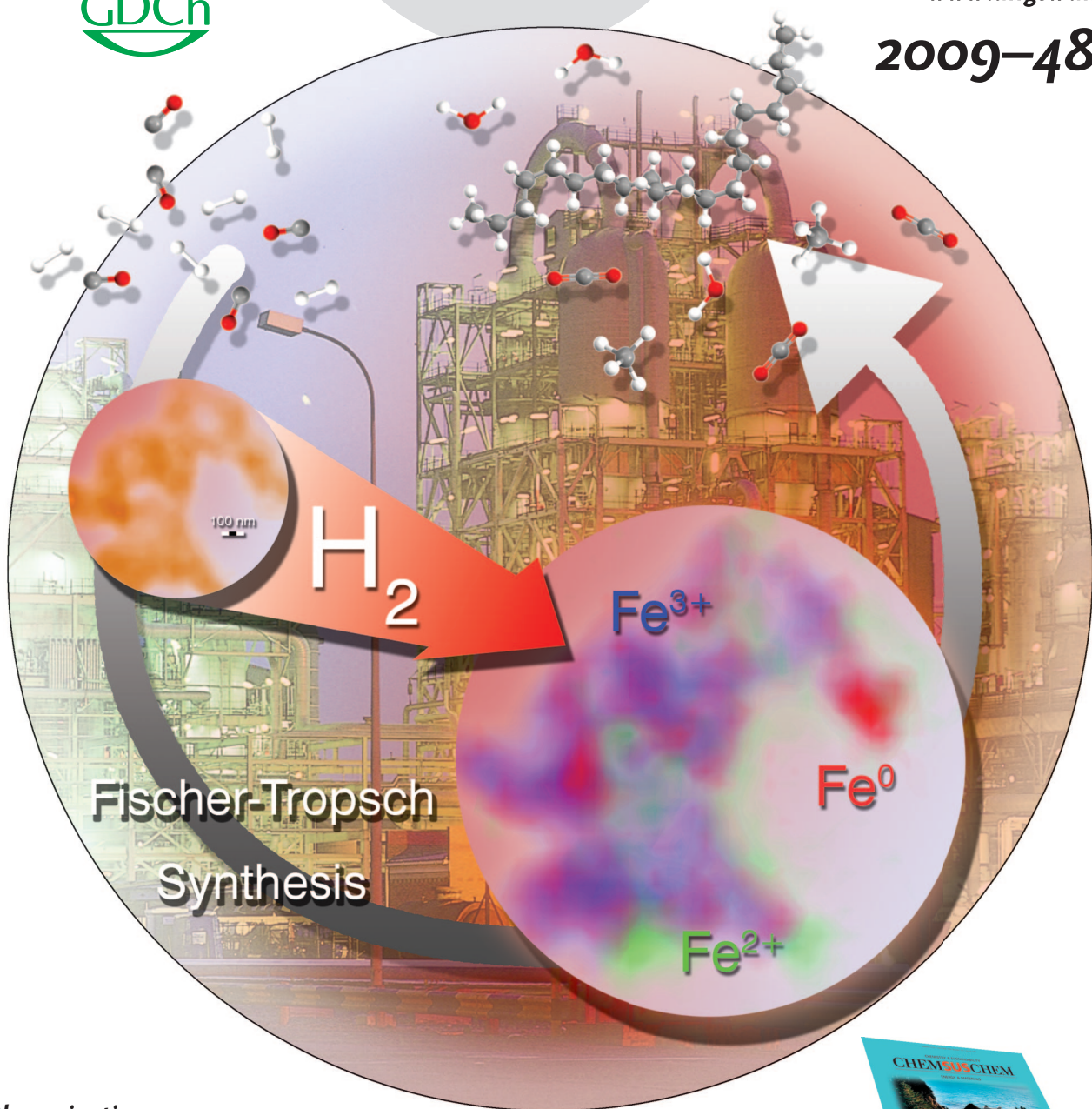
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Telomerization

A. Behr et al.

Biomimetic Polymers

T. Scheibel et al.

Luminescent Materials

H. Höppe

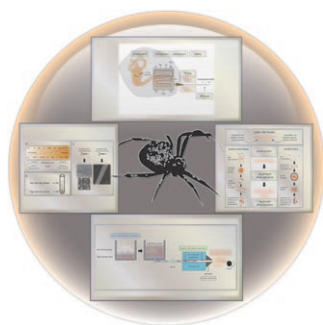
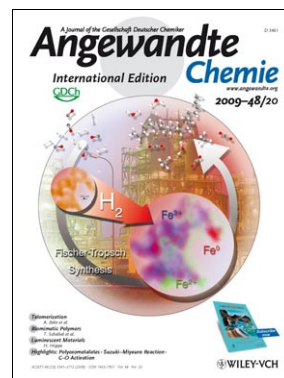
Highlights: Polyoxometalates • Suzuki–Miyaura Reaction • C–O Activation



Cover Picture

Emiel de Smit, Ingmar Swart, J. Fredrik Creemer, Chithra Karunakaran, Drew Bertwistle, Henny W. Zandbergen, Frank M. F. de Groot,* and Bert M. Weckhuysen*

Iron-based catalysts for the Fischer–Tropsch synthesis bring about the conversion of synthesis gas (CO/H_2) derived from coal or biomass into liquid transportation fuels. In their Communication on page 3632 ff., B. M. Weckhuysen, F. M. F. de Groot, and co-workers provide insights into the difference in behavior of the catalyst precursors during pretreatment in H_2 on both the nanoscopic and the bulk scale. These findings enable further understanding of how the activated catalyst works.

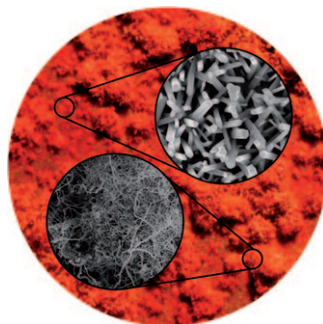
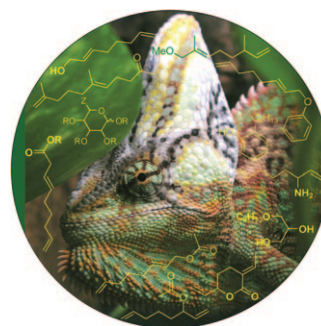


Spider Silk

The in vivo formation of spider silk is a highly complex process that leads to a protein-based fiber with outstanding mechanical properties. In their Review on page 3584 ff., T. Scheibel et al. describe the various stages of natural and artificial silk production.

Telomerization

A. Behr et al. present the multifunctional telomerization reaction in their Review on page 3598 ff. As well as outlining the latest developments they discuss possible future applications of this reaction.



Phosphorus Nanostructures

The use of a bismuth catalyst to tailor the morphologies of polycrystalline phosphorus nanorods is reported by M. S. P. Shaffer and co-workers in their Communication on page 3616 ff.