A Journal of the Gesellschaft Deutscher Chemiker

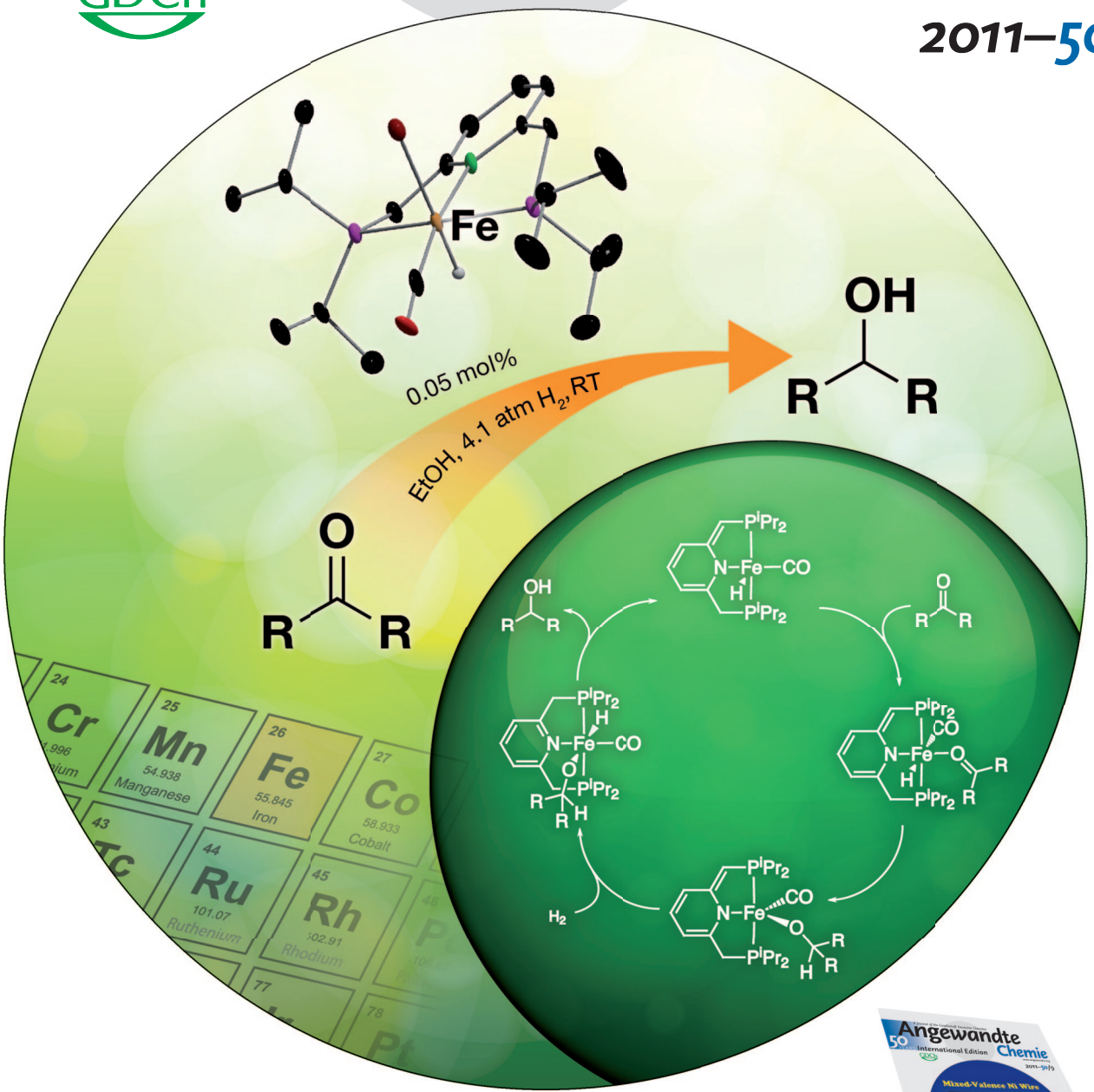
D 3461

Angewandte Chemie

50 YEARS International Edition

www.angewandte.org

2011–50/9



ACIEFS 50 (9) 1947–2188 (2011) · ISSN 1433–7851 · Vol. 50 · No. 9

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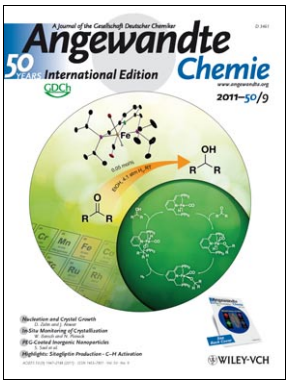
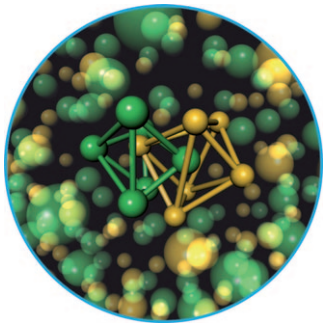
Cover Picture

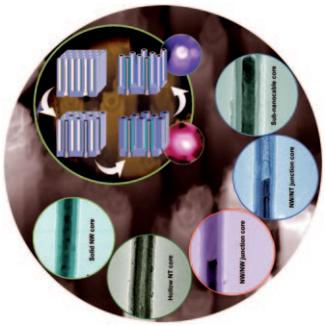


Robert Langer, Gregory Leitus, Yehoshoa Ben-David, and David Milstein*

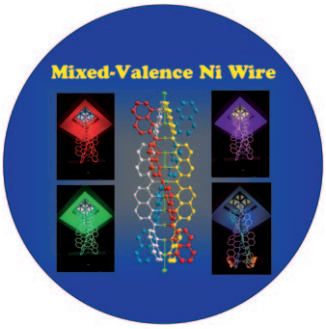
An attractive, environmentally friendly alternative to precious noble-metal catalysts could be provided by iron-based catalysts owing to their low toxicity and cost. In their Communication on page 2120 ff., D. Milstein and co-workers describe an iron pincer catalyst for the hydrogenation of ketones under very mild conditions, with no waste generation. The unusually high activity of this catalyst is a result of aromatization–dearomatization of the iron pincer complex.



Simulation of Crystal Nucleation
The first phase of crystal formation, the nucleation, is a defining process but difficult to model. In their Review on page 1996 ff., J. Anwar and D. Zhan, show how advances in molecular simulations help to understand these processes.



Nanostructures
In their Communication on page 2036 ff., G. W. Meng and co-workers describe an alumina template with two pore types. Selective pore filling and subsequent etching leads to a generic synthetic approach to alumina-sheathed nanocables with cores of different structures and materials.



Metal-Chain Compounds
Two linear, mixed-valent Ni_{11} complexes are reported by M. Bénard, S.-M. Peng, and co-workers in their Communication on page 2045 ff. The magnetic and electronic properties of these species are also investigated.