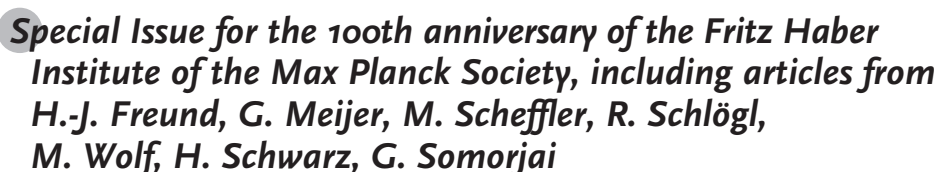


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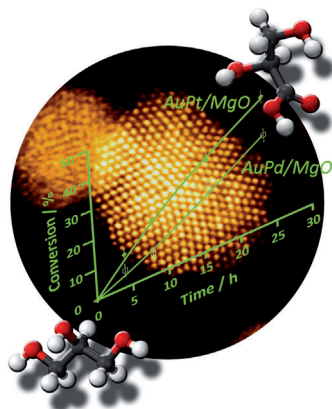
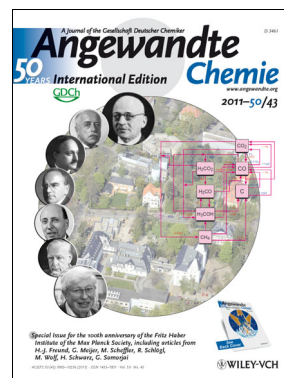


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Cover Picture

Hans-Joachim Freund,* Gerard Meijer,* Matthias Scheffler,* Robert Schlögl,* and Martin Wolf*

CO oxidation is a classic model reaction in heterogeneous catalysis, as demonstrated by H.-J. Freund et al. in their Review on page 10064 ff. The cover picture shows the Fritz Haber Institute in Berlin-Dahlem, which has a long tradition of research into heterogeneous reactions. In addition to Fritz Haber (top) six other Nobel Laureates have held positions there: Max von Laue, James Franck, Heinrich Wieland, Eugene Wigner, Ernst Ruska, and Gerhard Ertl.

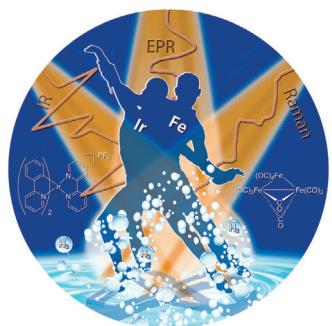


Nanoparticle Catalysis

Alloy Au-Pt nanoparticles on $\text{Mg}(\text{OH})_2$ supports show high activity in the selective oxidation of polyols using molecular oxygen as the oxidizing agent. G. Hutchings et al. described in their Communication on page 10136 ff. the detail of the reaction which occurs without the addition of a base.

Heterogeneous Catalysis

X-ray diffraction computed tomography (XRD-CT) enables imaging of the interiors of solid bodies. In their Communication on page 10148 ff., S. D. M. Jacques et al. use time-resolved XRD-CT to examine how an industrial catalyst evolves from its precursor.



Reaction Mechanisms

In their Communication on page 10246 ff. A. Brückner et al. employ three in-situ spectroscopic methods to study the iridium- and iron-catalyzed reduction of water and describe a two-cycle mechanism.

