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YEARS

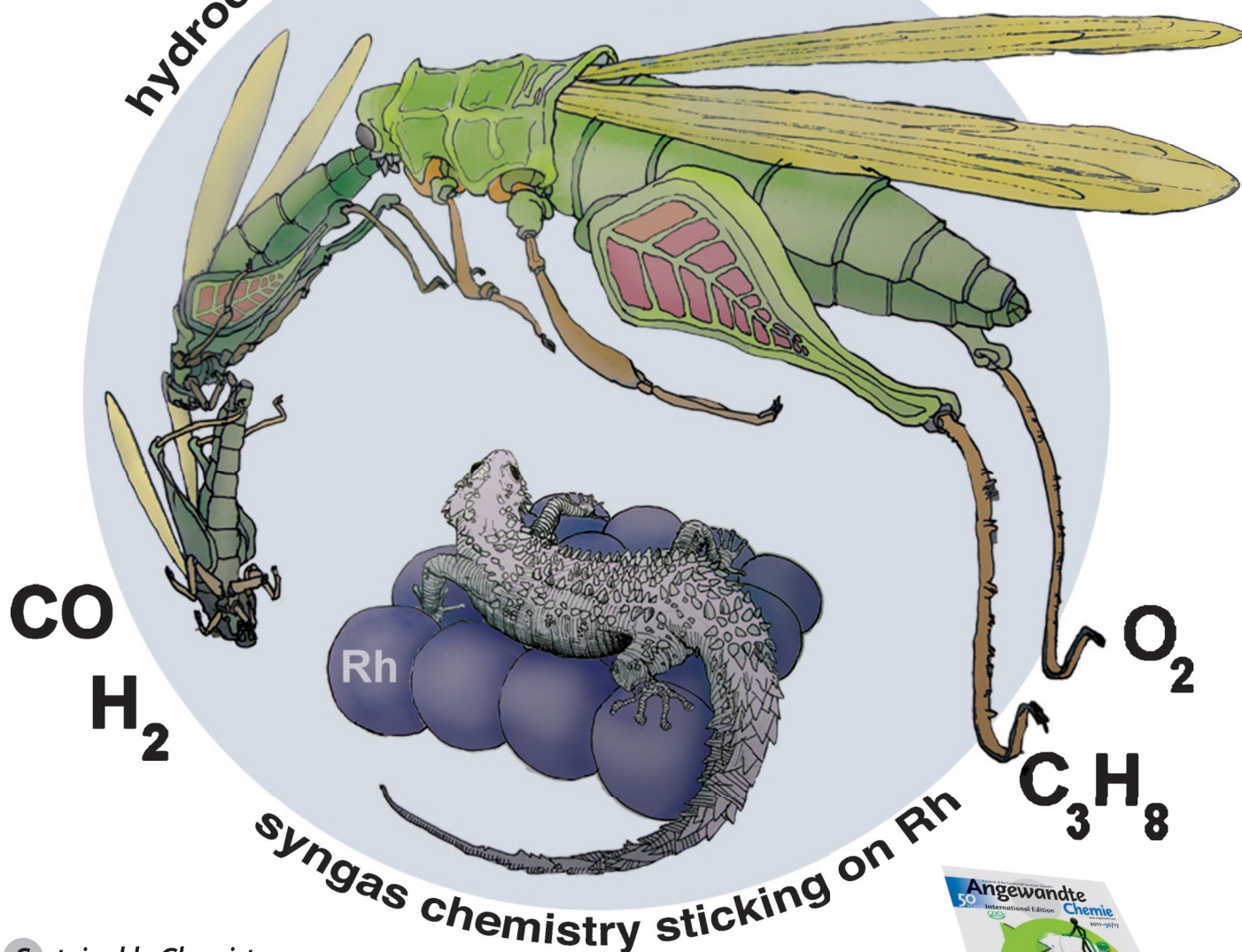
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hydrocarbon chemistry skipping Rh



Sustainable Chemistry

M. A. R. Meier et al.

CO₂ Fixation

L. Ackermann

Hydrosilylation

K. Osakada

Organocatalysis

G. Cozzi et al.

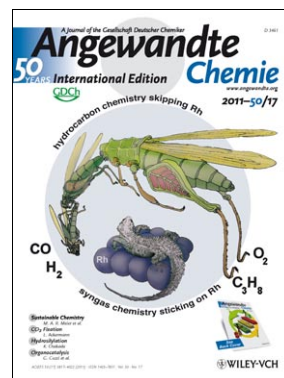


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Back Cover

Cover Picture

**Alessandro Donazzi, Dario Livio, Matteo Maestri,
Alessandra Beretta,* Gianpiero Groppi, Enrico Tronconi, and
Pio Forzatti**

The combination of a novel in situ sampling technique and a detailed model analysis was used to elucidate the interplay between the heterogeneous and homogeneous pyrolytic routes to H_2 and CO in the catalytic partial oxidation of C_3H_8 over rhodium, as described by A. Beretta et al. in their Communication on page 3943 ff. The grasshopper in the picture represents the homogeneous chemistry, which skips the Rh surface and produces hydrocarbons in the gas phase. The gecko stands for the heterogeneous chemistry, which sticks on the Rh surface and leads to synthesis gas. The authors thank F. Tosi for the picture.

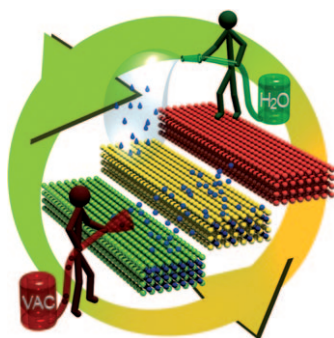
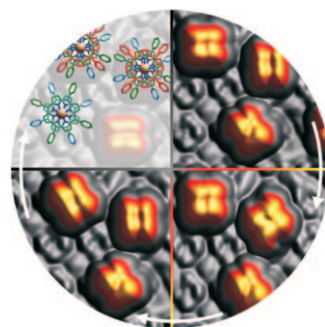


Sustainable Chemistry

In the Review on page 3854 ff., M. A. R. Meier et al. discuss advances in the use of oils and fats as feedstocks from renewable resources in light of developments in organic chemistry, catalysis, and biotechnology over the past 10 years.

Molecular Rotors

The in situ synthesis of double- or triple-decker cerium porphyrinato complexes on an $\text{Ag}(111)$ substrate is described by D. Ćija, W. Auwärter et al. in their Communication on page 3872 ff. STM manipulation can be used to induce a reversible rotation of the upper porphyrin in the complexes.



Switchable Materials

Reversible removal of guest molecules causes molecular rearrangement in magnetic coordination framework materials. In their Communication on page 3973 ff., D. Pinkowicz, B. Sieklucka et al. describe how these changes impact the magnetic ordering temperature.