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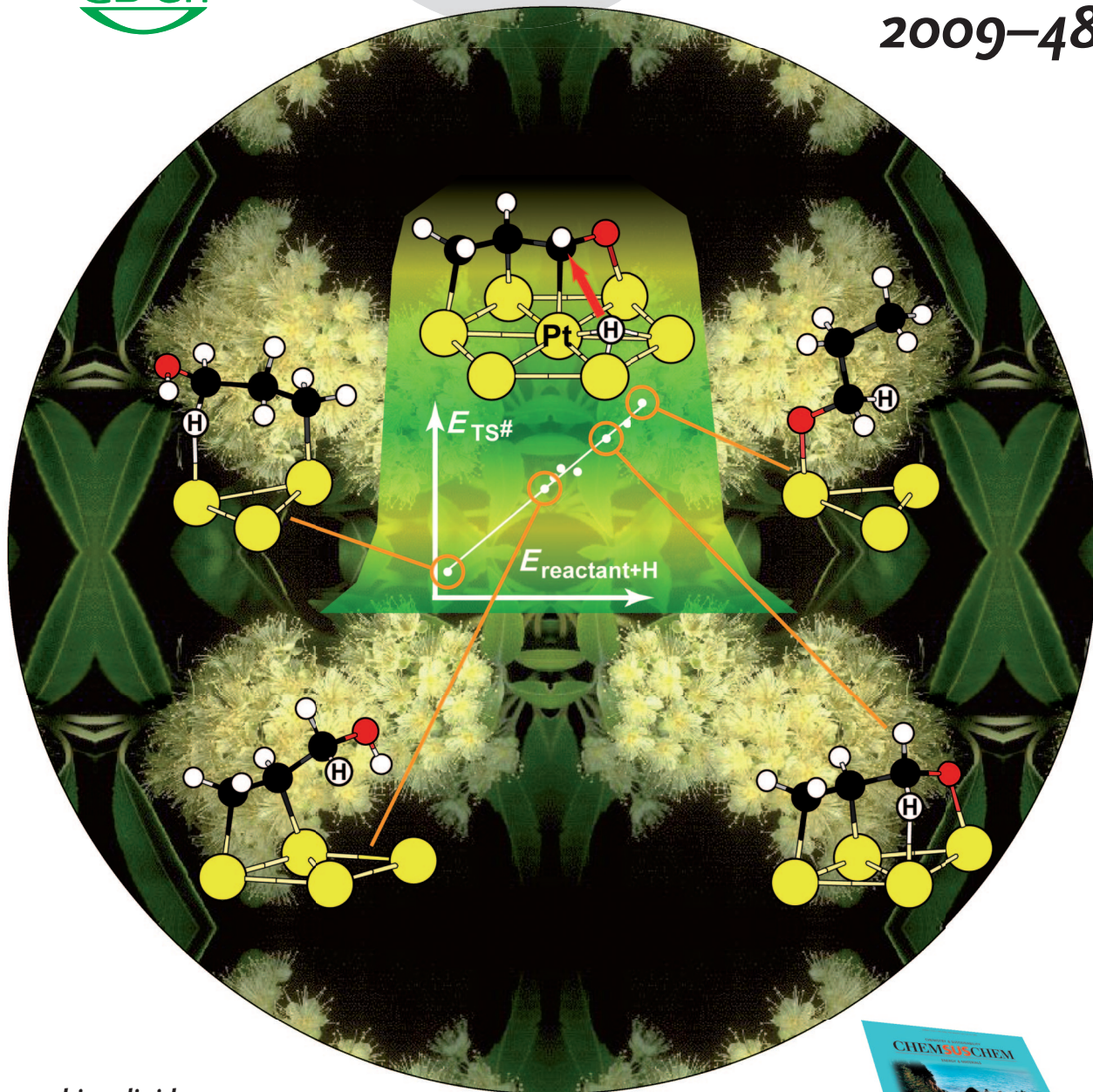
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Glycosphingolipids

H. Overkleeft, J. Aerts et al.

Tridentate PNP Ligands

J. N. H. Reek and J. I. van der Vlugt

Time-Resolved Spectroscopy

J. M. Thomas

Asymmetric Catalysis

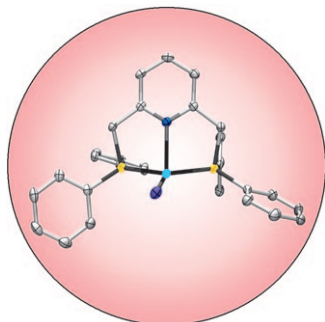
A. Córdova and R. Rios



Cover Picture

David Loffreda,* Françoise Delbecq, Fabienne Vigné, and Philippe Sautet

Brønsted–Evans–Polanyi relations are famous in heterogeneous catalysis for their fast prediction of activation barriers with the sole knowledge of the reaction enthalpies. This model has now been extended by D. Loffreda et al. to the hydrogenation of unsaturated aldehydes on platinum. In their Communication on page 8978 ff., they describe on the basis of density functional theory calculations a linear relation connecting the activation barrier with the stability of the initial precursor state.

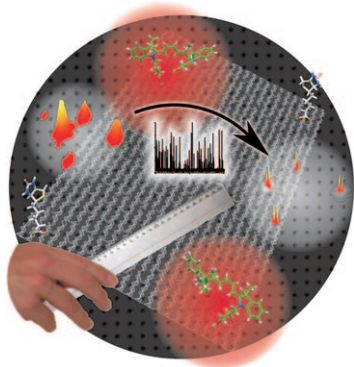


Cooperative Catalysis

In their Minireview on page 8832 ff., J. I. van der Vlugt and J. N. H. Reek present the main developments in late-transition-metal-mediated conversions with lutidine-based tridentate ligands that contain phosphorus side groups and act as cooperative catalysts.

Glycosphingolipids

The current knowledge of glycosphingolipids and their role in physiological processes is summarized by H. Overkleeft, J. Aerts et al. in their Review on page 8848 ff. The main focus is on inhibitors of the enzymes involved in glucosylceramide metabolism, with a view to therapeutic applications.



Fluorescence Microscopy

DNA-origami labeled with fluorescent dyes at specific positions serves as a nanoscopic ruler for calibration of superresolution techniques that rely on the subsequent localization of single molecules. Details are described by F. C. Simmel, P. Tinnefeld et al. in their Communication on p. 8870 ff.