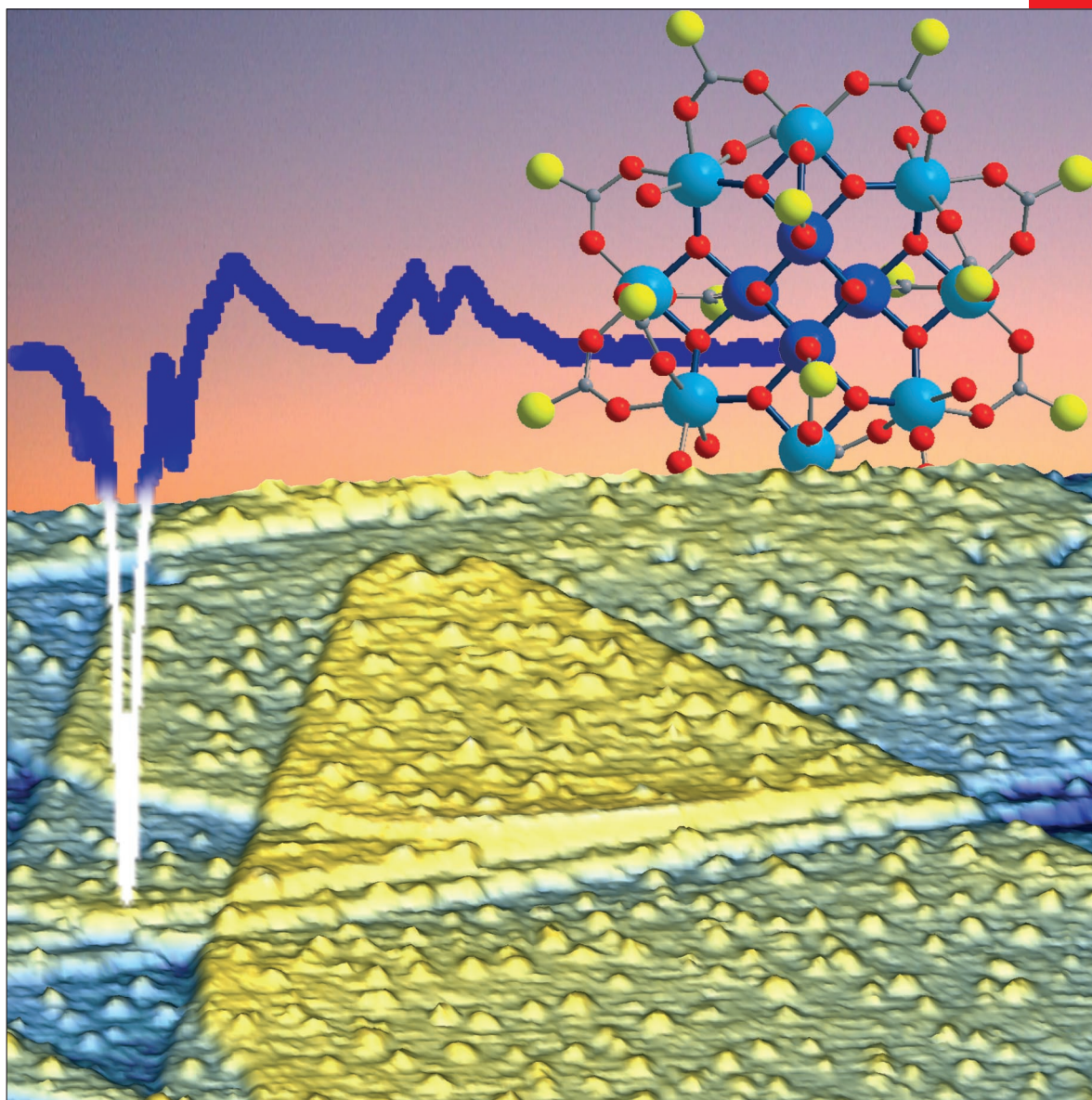


# CHEMISTRY

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### Conference Issue

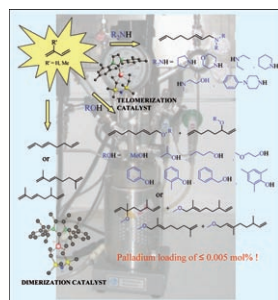
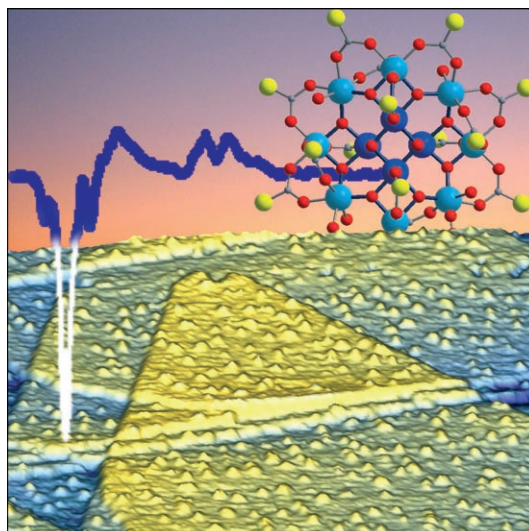
Selected articles from speakers attending  
the 2nd European Chemistry Congress,  
16–20 September 2008, Turin

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# An eye for molecules...

... on a surface. In the Full Paper by D. Gatteschi et al. on page 7530 ff., synchrotron light has been employed to investigate the chemical and magnetic nature of monolayers of sulfur-functionalized  $Mn_{12}$  clusters grafted on gold substrates to reveal significant reduction of the manganese atoms and the disappearance of the typical magnetic hysteresis.

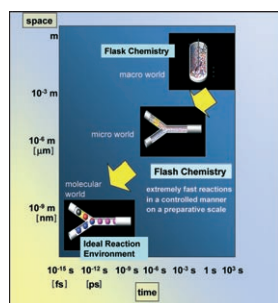


## Palladium–Carbene Catalysts

In their Concept article on page 7408 ff., M. Beller et al. describe the development of N-heterocyclic carbene based palladium catalysts with respect to green and sustainable chemistry.

## Glycomimetic Inhibitors

Glycomimetic molecules that can disrupt the formation of sugar–protein complexes may be used as probes of biological processes and may provide ideas for medicinal applications. In their Concept article on page 7434 ff., A. Bernardi and P. Cheshev describe the latest developments in the field of design and preparation of glycomimetic inhibitors of well-known target lectins.



## Flash Chemistry

In their Concepts article on page 7450 ff., J. Yoshida et al. outline the concept of flash chemistry for carrying out extremely fast reactions in organic synthesis by using micro-reactors and its applications to organic synthesis and polymer synthesis.

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