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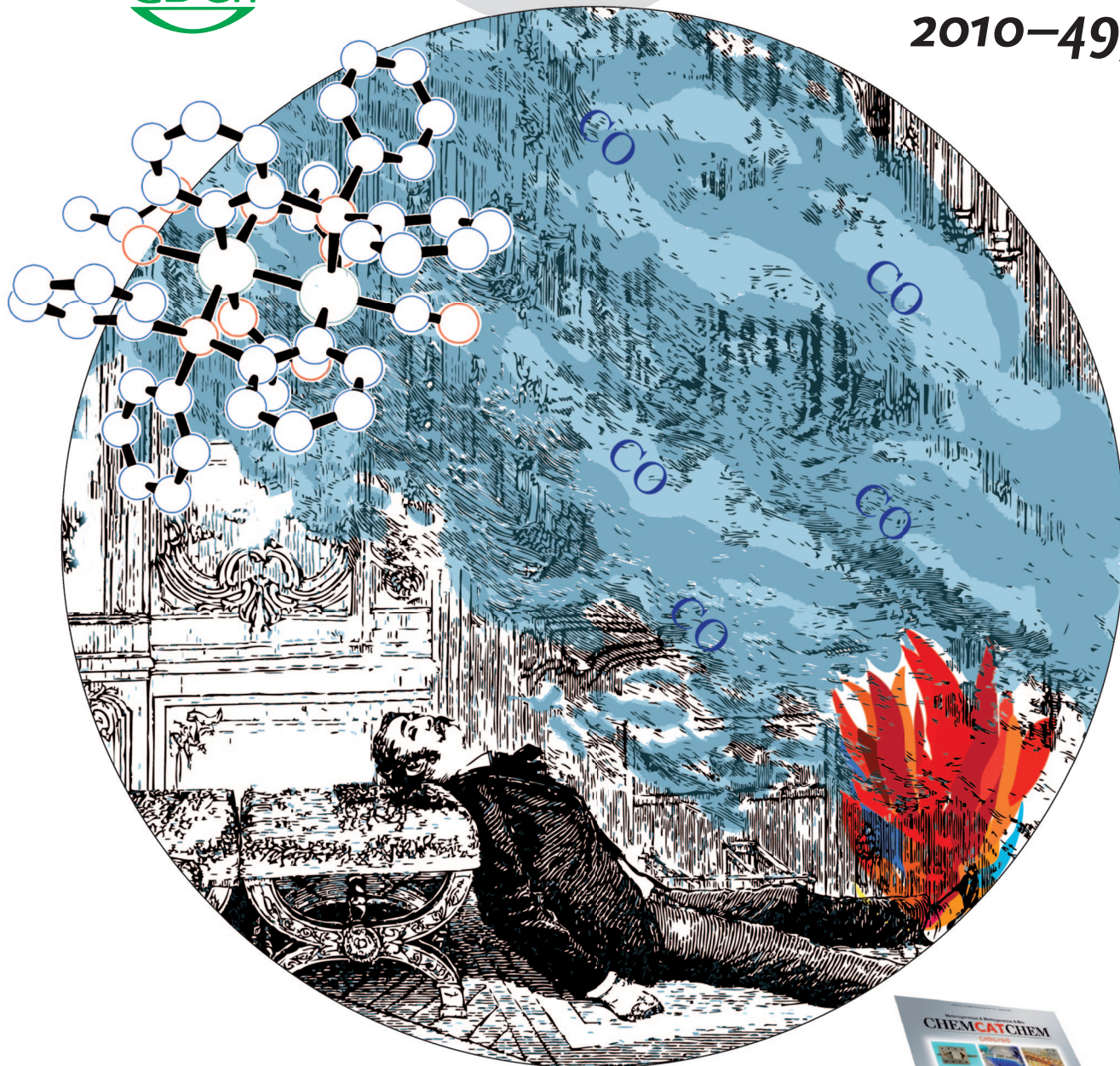
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Hybrid Nanostructures

U. Banin et al.

Silicon Chemistry

T. Müller and C. Gerdes

Vinylcyclopropane–Cyclopentene Rearrangement

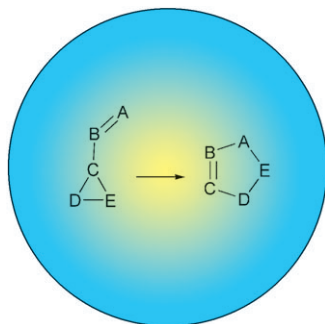
T. Hudlicky and J. W. Reed



Cover Picture

**Julio Esteban, José Vicente Ros-Lis, Ramón Martínez-Máñez,*
M. Dolores Marcos, María Moragues, Juan Soto, and Félix Sancenón**

Like in a collage by Max Ernst, a combination of a known molecular entity (a binuclear rhodium complex) and suitable bridging ligands can take on a new role as a chromogenic chemosensor. R. Martínez-Máñez and co-workers describe in their Communication on page 4934 ff. how the color change these complexes undergo allows them to act as a carbon monoxide sensor.

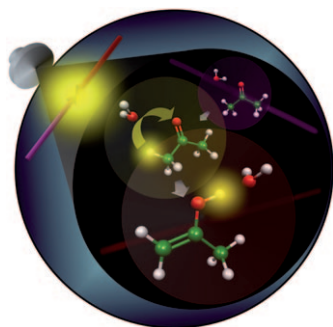
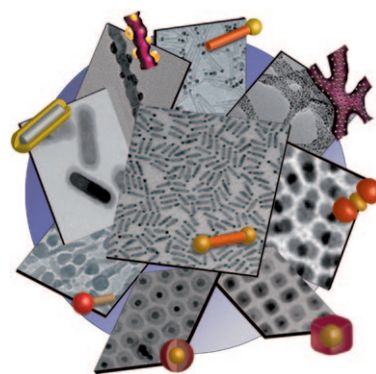


Vinylcyclopropane–Cyclopentene Rearrangement

The Essay by T. Hudlicky and J. W. Reed on page 4864 ff. shows the origin of the vinylcyclopropane–cyclopentene rearrangement. The authors describe from their experiences the influence of such rearrangements on the development of natural-product syntheses.

Colloidal Nanostructures

By combining metallic, semiconducting, and magnetic domains to give hybrid nanoparticles, nanomaterials with multiple functionalities can be obtained. U. Banin et al. describe in their Review on page 4878 ff. the synthesis, properties, and applications of such particles.



Proton Migration

The “catch-and-release” action of a catalytic water molecule in the keto–enol tautomerization of the acetone cation is described by Y. Matsuda, A. Fujii, and co-workers in their Communication on page 4898 ff.