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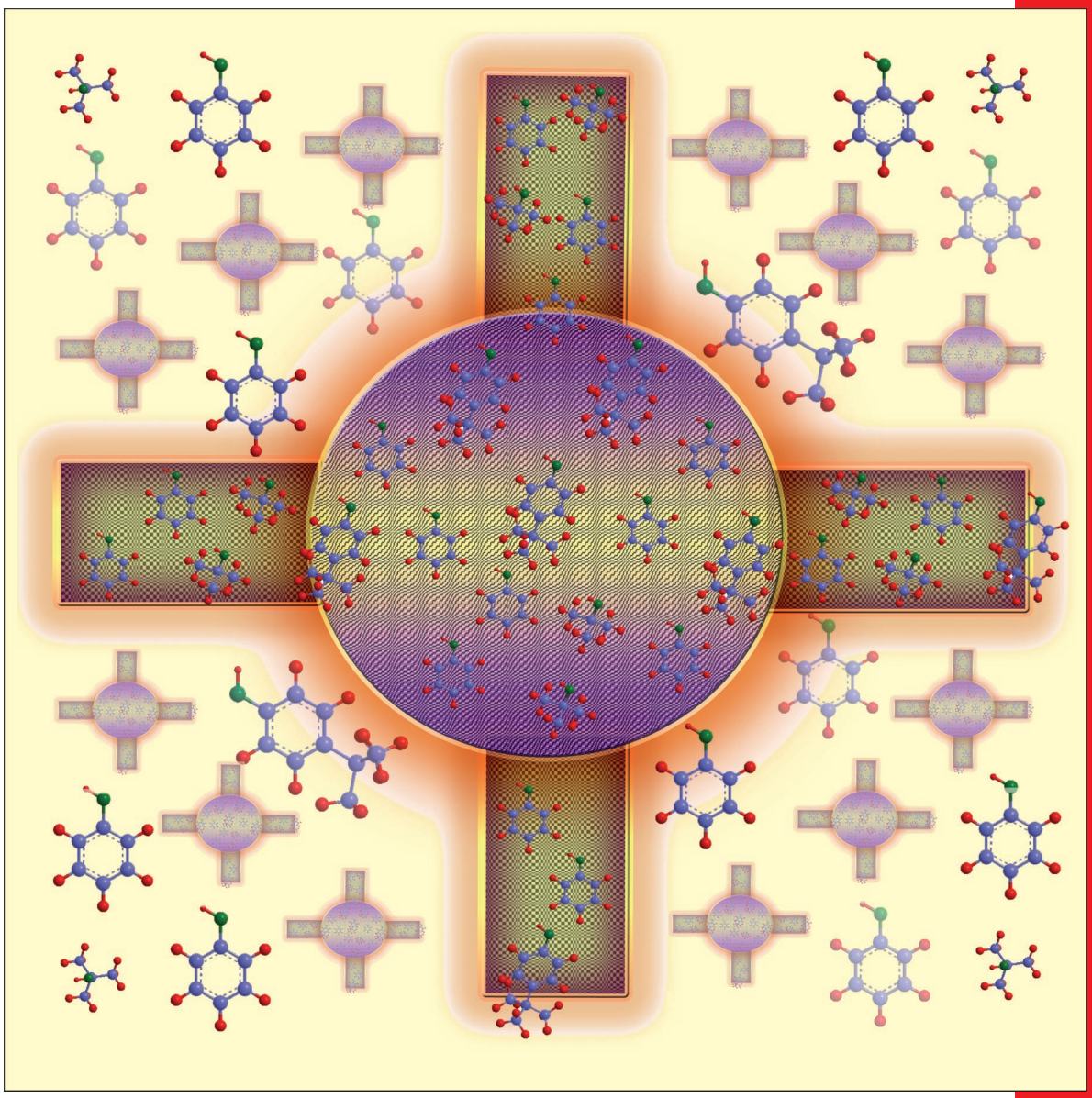

Now with Communications

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Concept

1,2-Alkyl Migration as a Key Element in the Invention of Cascade Reactions Catalyzed by π-Acids

S. F. Kirsch and B. Crone

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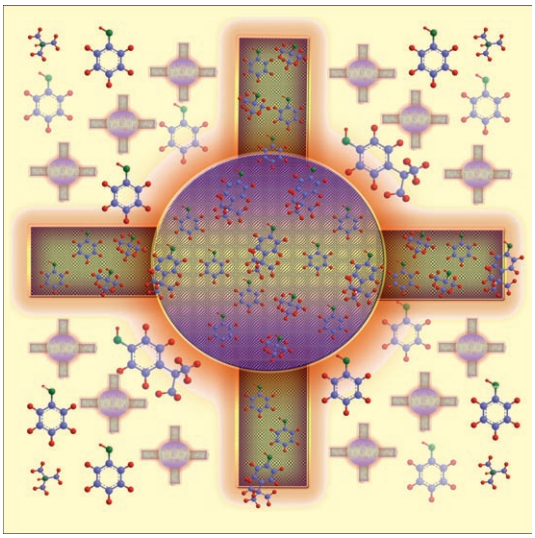
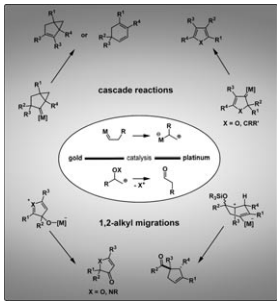
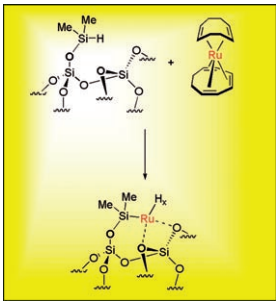
... (GaSBA-1) with a well-ordered, cage-type porous structure and excellent textural parameters have been prepared through an organic self-assembly process with a cationic surfactant in a highly acidic medium. In their Full Paper on page 3553 ff., A. Vinu et al. discuss the morphology and the catalytic activity of these materials in the *tert*-butylation of phenol with *tert*-butanol as the alkylating agent.





Cascade Reactions
In their Concepts article on page 3514 ff., S. F. Kirsch and B. Crone give a brief overview to highlight recent progress in the field of cascade reactions that are initiated by the activation of a π-system using platinum- and gold-catalysts and that are coupled with a 1,2-alkyl migration step. Primarily guided by the type of 1,2-alkyl migration, methods are categorized as shifts to metal carbenoid centers and pinacol-type rearrangements.

Ruthenium Chemistry
In their Communication on page 3523 ff., C. Copéret et al. have shown that a silica covered with surface Si–H reacts at room temperature with [Ru(cod)(cot)], and that the resulting surface species treated under H_2 at 300 °C provides a highly unsaturated mononuclear ruthenium hydride species, which has a very different spectroscopic and reactivity profile compared to that of silica-supported Ru particles, which, in turn, allows the selective hydrogenation of alkenes over aromatic compounds.



Dandelion Clocks from Metallodendrimers
In their Full Paper on page 3544 ff., S. Coco, P. Espinet et al. describe how, as the dandelion clocks are made of dandelion seeds, gold(I), copper(I), palladium(II), or platinum(II) metallodendrimers of diverse molecular shapes can pack into spherical micelles, which eventually give rise to cubic mesophases.