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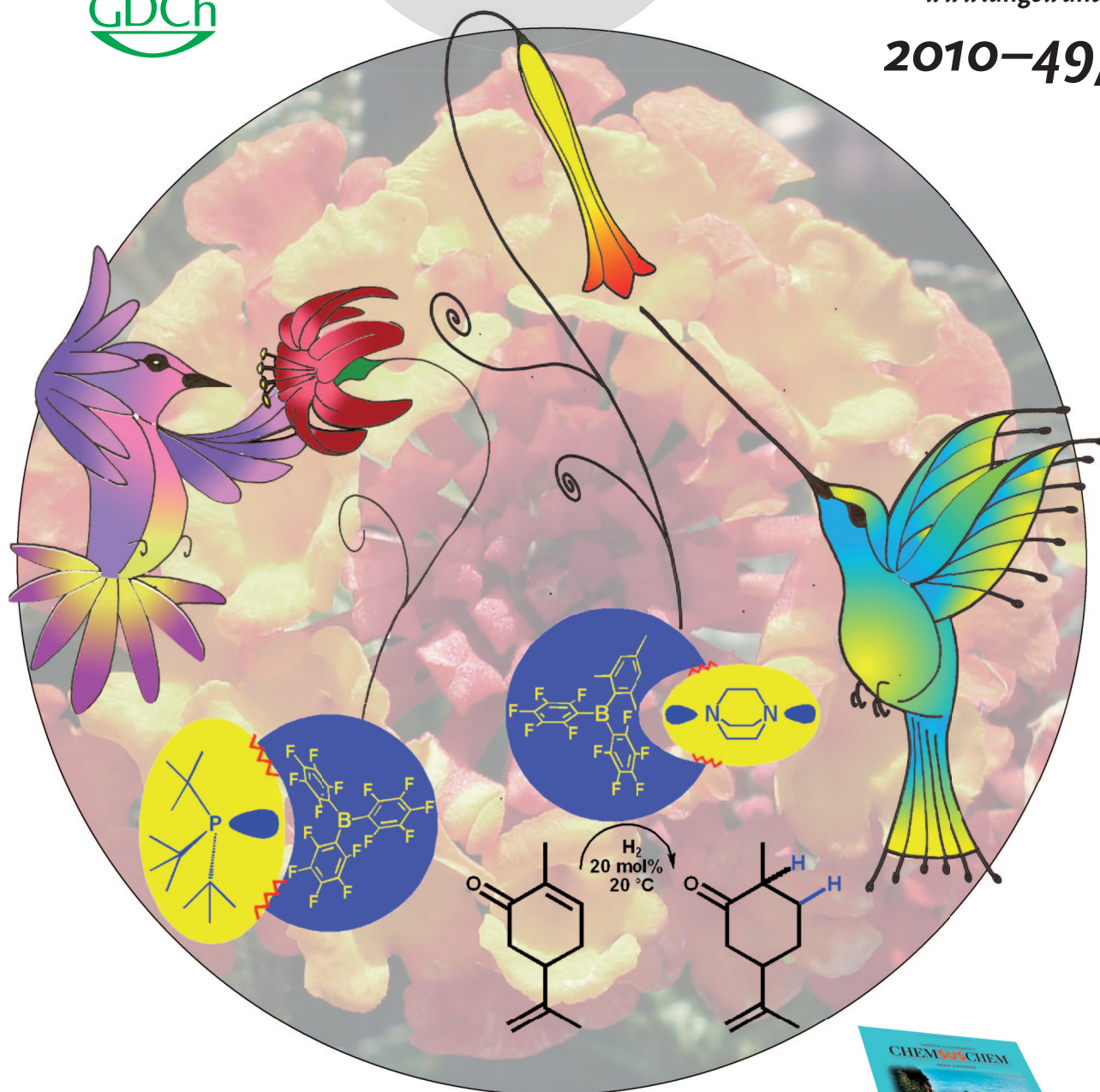
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Carbon Nanomaterials

H. Frauenrath et al.

Screening on “Slipchips”

D. Belder

Crystal Structure Elucidation of D-Ribose

W. Saenger



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Cover Picture

Gábor Erős, Hasan Mehdi, Imre Pápai, Tibor András Rokob, Péter Király, Gábor Tárkányi, and Tibor Soós*

The evolution of deep and shallow flowers is a response to a “race” with pollinating organisms that determines the length and form of the bill of hummingbirds. Likewise, the selection of the Lewis basic component for a frustrated Lewis pair is dictated by the steric congestion around the boron center of the Lewis acid. In their Communication on page 6559 ff., T. Soós and co-workers show that this “selection phenomenon” can be exploited as a design concept for metal-free hydrogenation catalysts.

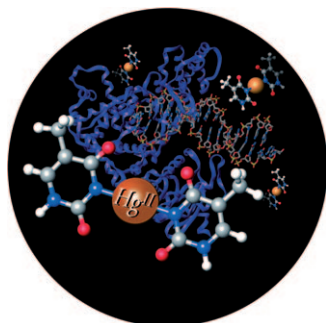
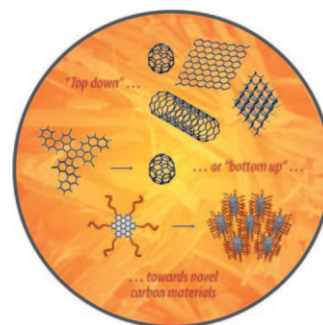


History of Science

Aleksandr Borodin is better known as a composer and member of the “The Mighty Handful” rather than as a chemist. In the Essay on page 6490 ff., J. Podlech discuss the life of Borodin in tsarist Russia.

Carbon Nanostructures

Approaches to the synthesis of nanostructured carbonaceous materials have been continually improving in recent years. The advantages and disadvantages of individual procedures are discussed in the Review by H. Frauenrath and co-workers on page 6496 ff.



Mismatched Base Pairs

In the presence of Hg^{II} ions, DNA polymerases incorporate thymidine 5'-triphosphate at the site opposite thymine in a template strand. In their Communication on page 6516 ff., H. Urata and co-workers report how the resulting T- Hg^{II} -T base pair allows the synthesis of a full-length product.