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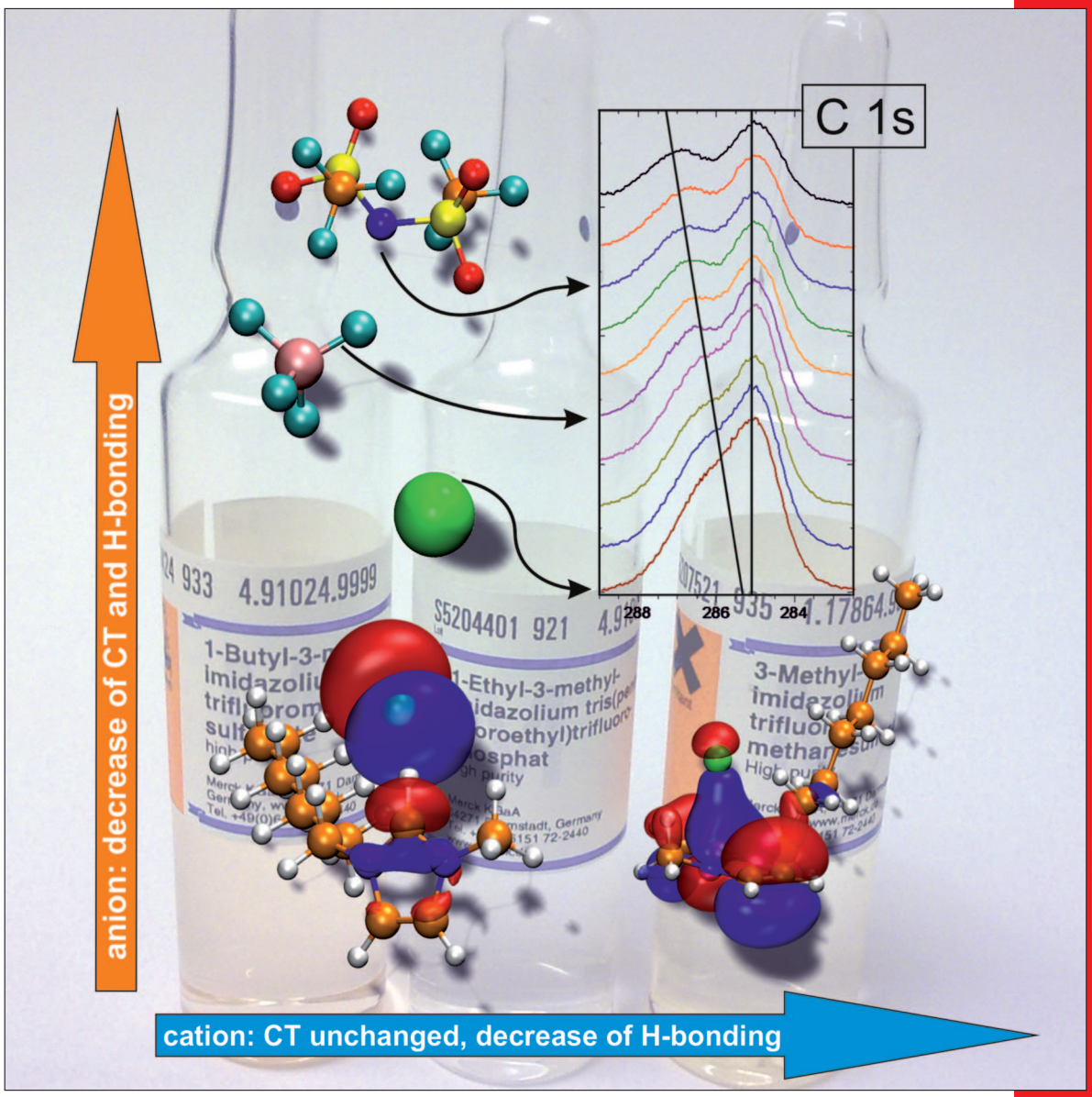

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Review

Nanoparticles as Semi-Heterogeneous Calalyst Supports

W. J. Stark et al.

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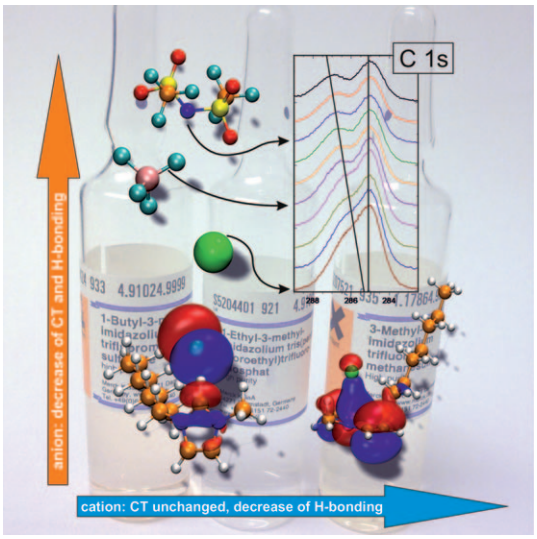
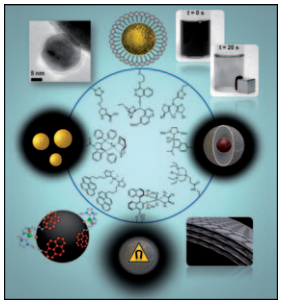
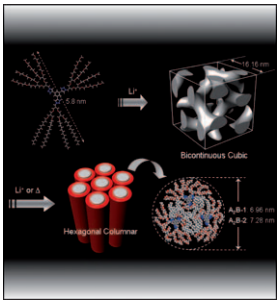
… the partner, the more neutral the couple. Ionic liquids (ILs) are low-temperature molten salts; hence they consist solely of ions. As demonstrated by F. Maier, et al. (in their Full Paper on page 9018 ff.) in their complementary experimental and theoretical study, the excess charges on the ions are considerably reduced for small and basic anions by next-neighbour molecular-orbital overlap. Intramolecular hydrogen bonds influence bonding conformation, but have little effect on the amount of charge transferred.

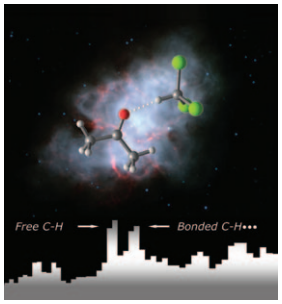




Nanocatalysis
In the Review on page 8950 ff., W. J. Stark et al. highlight recent achievements in the field of particle-supported nanocatalysis, that is, by immobilization of catalysts on the surface of globular core–shell assemblies, and the immanent potential in this emerging area.



Liquid-Crystalline Assemblies
In their Communication on page 9006 ff., B.-K. Cho et al. describe the preparation of two discotic block codendrimers by a stepwise click reaction. Thermal and X-ray analyses revealed the generation of the hexagonal columnar and bicontinuous cubic LC phases as well as their phase-inverted homologues, as a function of hydrophilic volume fraction.



Hydrogen Bonds
C–H•••O hydrogen bonds were assessed by means of inelastic neutron scattering spectroscopy in the most simple chloroform•••acetone system. Results revealed the resulting complex to behave as an independent entity. Such a conclusion arises from the existence of two spectral features clearly originating from both free and bonded CH moieties. For more information see the Full Paper by P. D. Vaz, P. J. A. Ribeiro-Claro et al. on page 9010 ff.

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