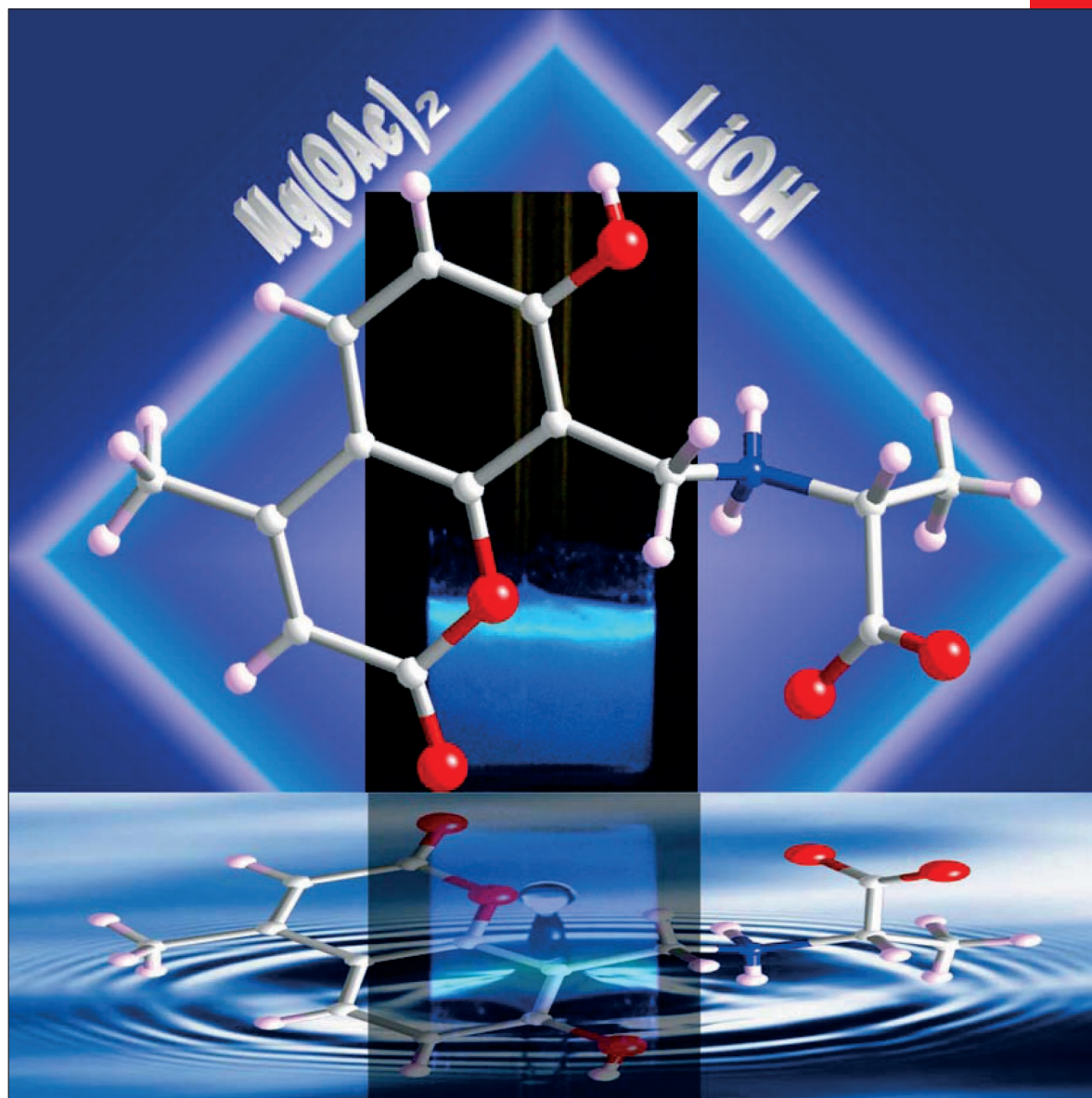


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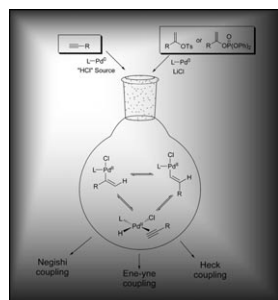
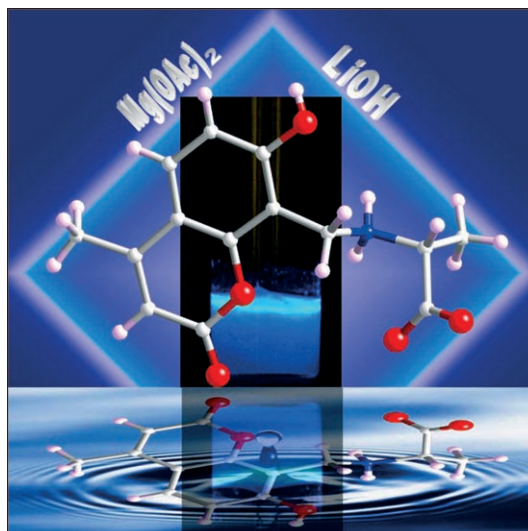
Classical Reagents: New Surprises
in Palladium-Catalyzed C–C Coupling Reactions
T. Skrydstrup and A. T. Lindhardt

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Blue emissive hydrogel...

... without long alkyl tails! Unlike organic polymers, coordination polymers are not processable, owing to their highly crystalline nature. However, long alkyl chains in the backbone of the ligands have been used to produce first-generation coordination polymeric hydrogels. In the Full Paper on page 8822 ff., J.J. Vittal, S. Kasapis et al. describe that there is no need for such alkyl chains in second-generation coordination polymeric hydrogels; the disubstituted coumarin-derivatized L-alanine ligand, with fluorescent chromophore, can facilitate the hydrogel formation.

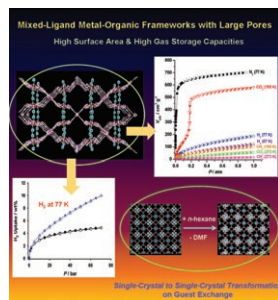
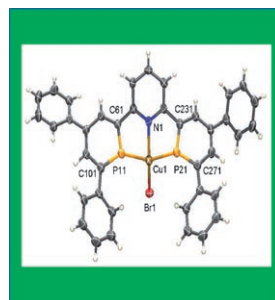


C-C Coupling Reactions

In their Concepts article on page 8756 ff., T. Skrydstrup and A. T. Lindhardt describe new properties of palladium as a catalyst based on two serendipitous discoveries. In the first case, β -hydride eliminations, which are well known for alkyl metal complexes, were found to be equally feasible with alkenyl metal compounds. Secondly, conditions were found for promoting intermolecular ene-yne couplings via a $\text{Pd}^{\text{II}}\text{-H}$ intermediate, representing an atom economical Mizoroki-Heck type reaction.

Pincer Ligands

The synthesis of a novel neutral PNP-pincer ligand, which has two phosphinine donors and a bridging pyridine moiety, is described by C. Müller et al. in their Communication on page 8803 ff. In contrast to its terpyridine analogue, facile coordination of this tridentate ligand towards a neutral CuI center was observed. Due to the presence of electronically rather inequivalent donor atoms, this novel ligand represents a new class of neutral π -accepting PNP-pincer systems.



Microporous Materials

In their Full Paper on page 8812 ff., M. P. Suh and H. J. Park describe mixed-ligand metal-organic frameworks with large pores. These systems display interesting gas sorption properties and single-crystal to single-crystal transformation on guest exchange.

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