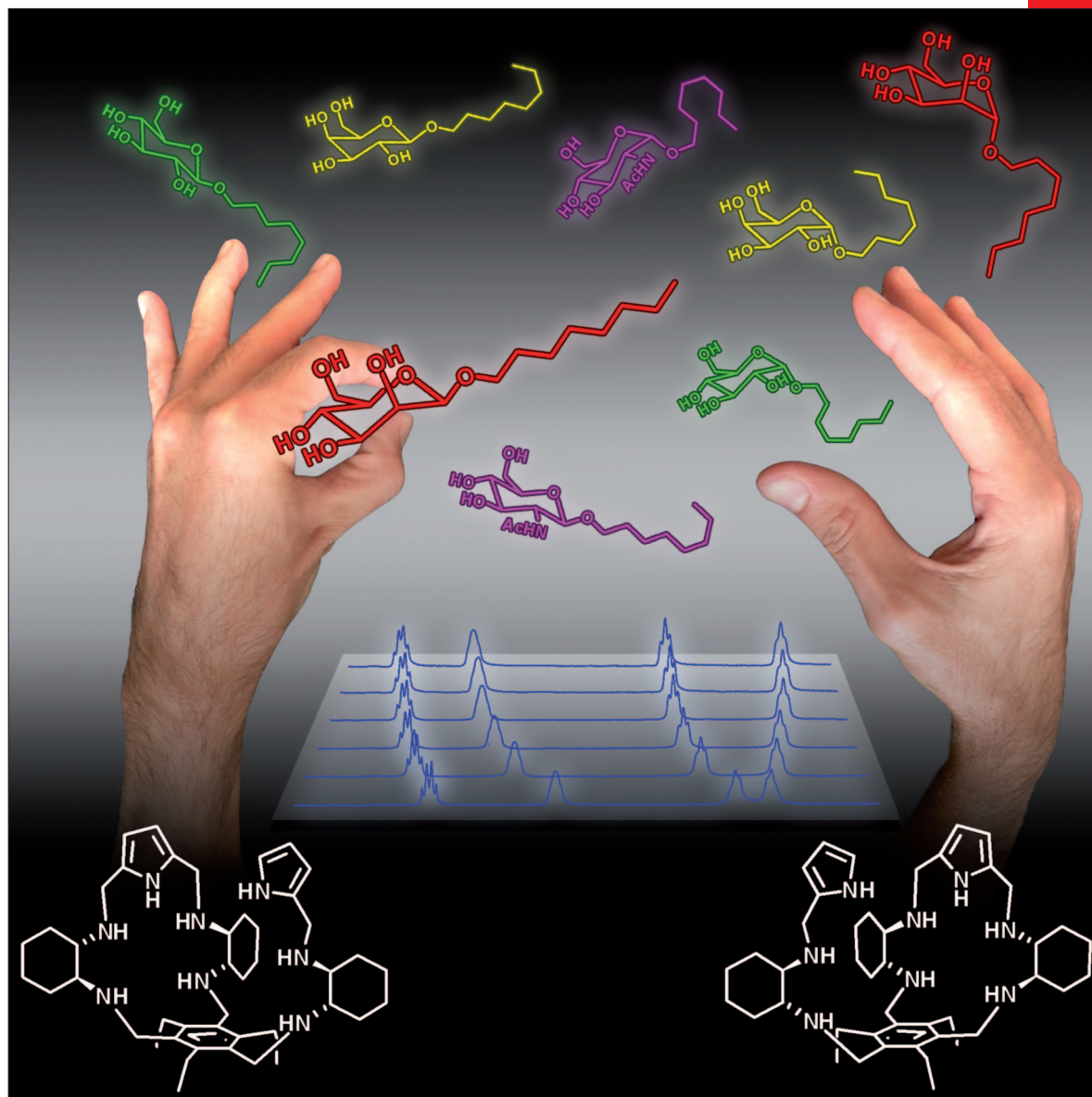


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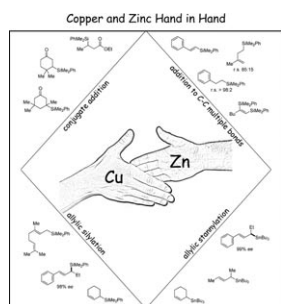
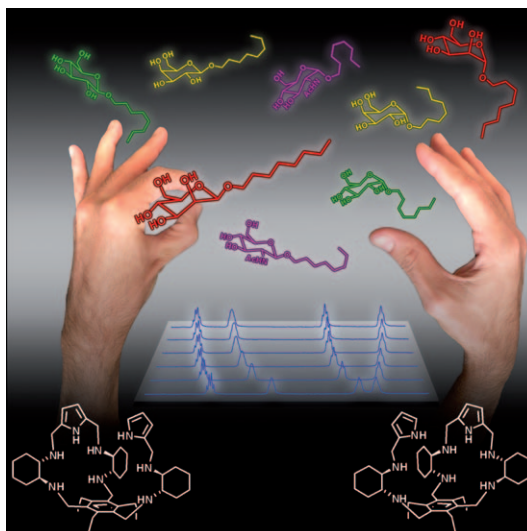
Silicon- and Tin-Based Cuprates: Now Catalytic in Copper!
M. Oestreich and A. Weickgenannt

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A chiral tripodal receptor...

... has been developed by S. Roelens, J. Jiménez-Barbero et al. in their Communication on page 414 ff., to enantioselectively recognize β -mannose and β -mannosides. The chiral receptor is the most effective synthetic receptor for mannosides reported to date and highlights the key role of receptor chirality in the recognition of carbohydrates. The structure of the receptor has been analyzed by using a combination of NMR spectroscopy and molecular modeling.

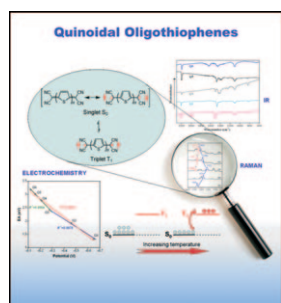
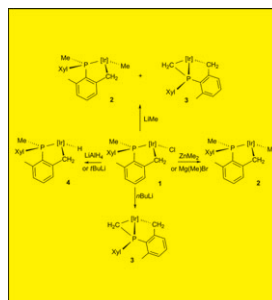


Silicon- and Tin-Based Cuprates

In their Concept article on page 402 ff., M. Oestreich and A. Weickgenannt discuss recent work towards copper(I)-catalyzed C-Si and C-Sn bond formations by using soft bis(triorganosilyl) and bis(triorganostannyl) zinc reagents as powerful sources of nucleophilic silicon and tin. Conjugate addition, allylic substitution, and C-C multiple-bond functionalization is now catalytic in copper.

C-H Activation

In their Communication on page 419 ff., E. Carmona et al. report that the cyclometallation of the bis(xylyl)phosphine $\text{PMe}(\text{Xyl})_2$ by $[\{\eta^5\text{-C}_5\text{Me}_5\}\text{IrCl}_2]_2$, and subsequent functionalization of the resulting compound **1**, has provided a series of complexes that exhibit interesting H/D exchange reactions and have a high potential for C-H bond-activation chemistry.



Quinoidal Oligothiophenes

In their Full Paper on page 470 ff., J. T. López Navarrete, E. Ortí, and their co-workers describe a series of quinoidal oligothiophenes with fused bis(butoxymethyl)cyclopentane groups, which have been investigated by electronic and vibrational spectroscopy, electrochemical measurements, and density functional calculations. Aromatization of the conjugated carbon backbone is the driving force that determines the increasing biradical character of the ground state.

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