

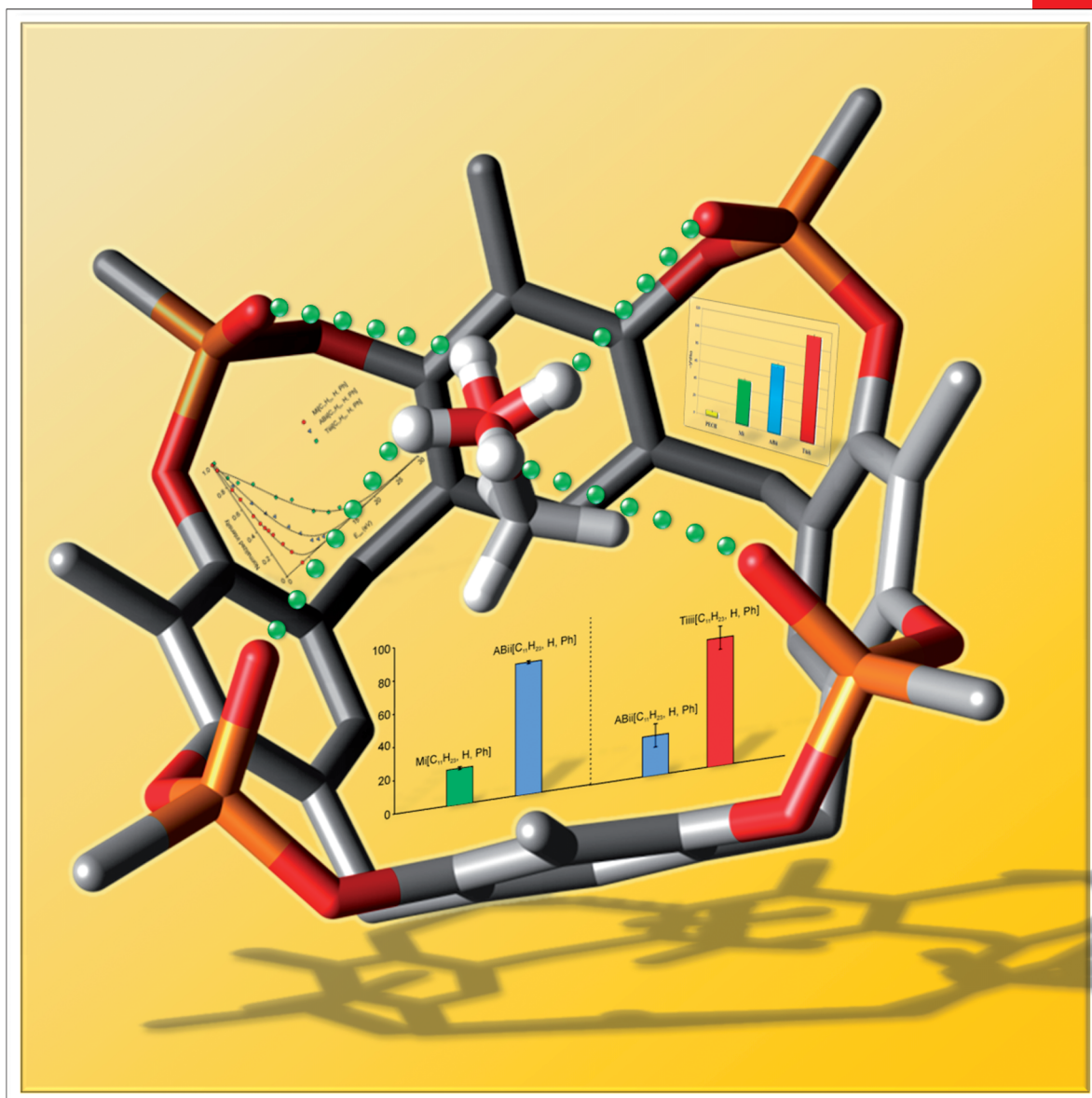
CHEMISTRY

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Now with
Communications



Concept

Ring-Closing Metathesis: Novel Routes to Aromatic Heterocycles

T. J. Donohoe et al.

 WILEY-VCH

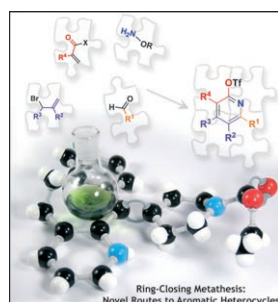
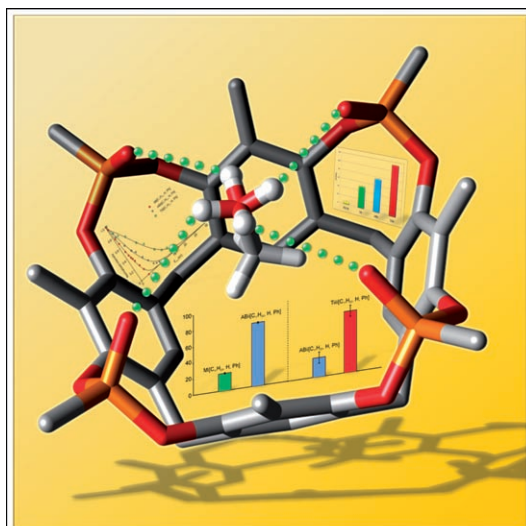


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The entropic route...

... to boost molecular recognition in gas sensing has been successfully implemented. In their Full paper on page 5772 ff., E. Dalcanale et al. validate this approach for the phosphonate cavitands/alcohol receptor-analyte pairs in mass sensors. The cover shows the molecular structure of a tetraphosphonate cavitand-methanol complex, in which the guest hydrogen bonding is equally distributed among four isoenergetic positions. The underlying graphics illustrate the ESI-MS experiments and the QCM responses supporting the enhanced complexation at the gas-solid interface.

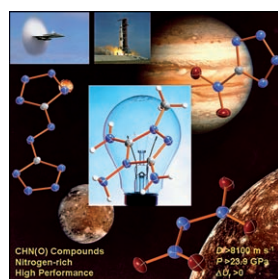
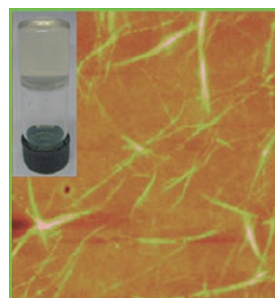


Metathesis

In their Concepts article on page 5716 ff., T. Donohoe et al. describe ring-closing metathesis as a powerful tool for the construction of a variety of aromatic heterocycles. The approaches to five- and six-membered motifs that contain both nitrogen and oxygen are described.

Organic Gelators

In their Communication on page 5742 ff., C.-F. Chen, L.-J. Wan, et al. report on two mutually responsive, hydrazide-based oligomers that function as low-molecular-mass organic gelators. In addition to forming hydrogen-bonded molecular duplex strands, abundant hydrogen-bonding sites and/or π - π stacking interactions further promoted aggregation along one-dimension to form fibrous structures.



High-Nitrogen Compounds

High-nitrogen compounds deliver the energy for novel high explosives, advanced propellants, and erosion-reduced gun-propellants. In their Full Paper on page 5756 ff., T. M. Klapötke et al. describe the synthesis and energetic parameters of 1,2,4-triazolium-cation-based energetic salts.

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