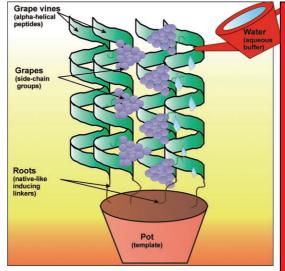
## How does your garden grow?...

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... With linkers (roots) between the template (pot) and the peptides (grape vines); the linkers affect the structural specificity of such template-assembled synthetic proteins. Optimal linkers (roots) can promote the construction of a native-like protein, which is characterised by well-packed side-chain groups (grapes). For more details see the Full Paper by J. C. Sherman et al. on page 3596 ff.







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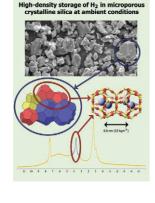
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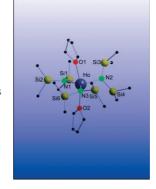


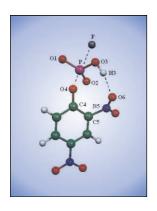
## **Hydrogen Storage**

In their Full Paper on page 3590 ff., J. C. Jansen et al. describe high-density H<sub>2</sub> storage in microporous crystalline solids at ambient conditions. Conceptually, the results reported here show how the confinement of hydrogen into a porous material can lead to an improved density of storage at ambient conditions by overcoming the repulsion that takes place among the gas molecules.

## **Rare Earth Metals**

In their Full Paper on page 3606 ff., P. W. Roesky et al. describe the synthesis of a series of yttrium and lanthanide complexes  $[Ln{N(SiHMe_3)_2}_2-{CH(PPh_2NSiMe_3)_2}] (Ln = Y,$ La, Sm, Ho, Lu). The new complexes were used as catalysts for hydroamination/cyclization and hydrosilylation reactions. In addition, a combination of both reactions, a sequential hydroamination/hydrosilylation reaction, was also investigated.





## **Reaction Mechanisms**

In their Full Paper on page 3617 ff., A. Vigroux et al. apply quantum chemistry methods coupled with a continuum solvation model to evaluate the substrate-assisted catalysis mechanism recently proposed for the spontaneous hydrolysis of phosphate monoester dianions. The results indicate that although this mechanism is unlikely to apply to aryl phosphates, it is a possibility for alkyl phosphate esters.

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