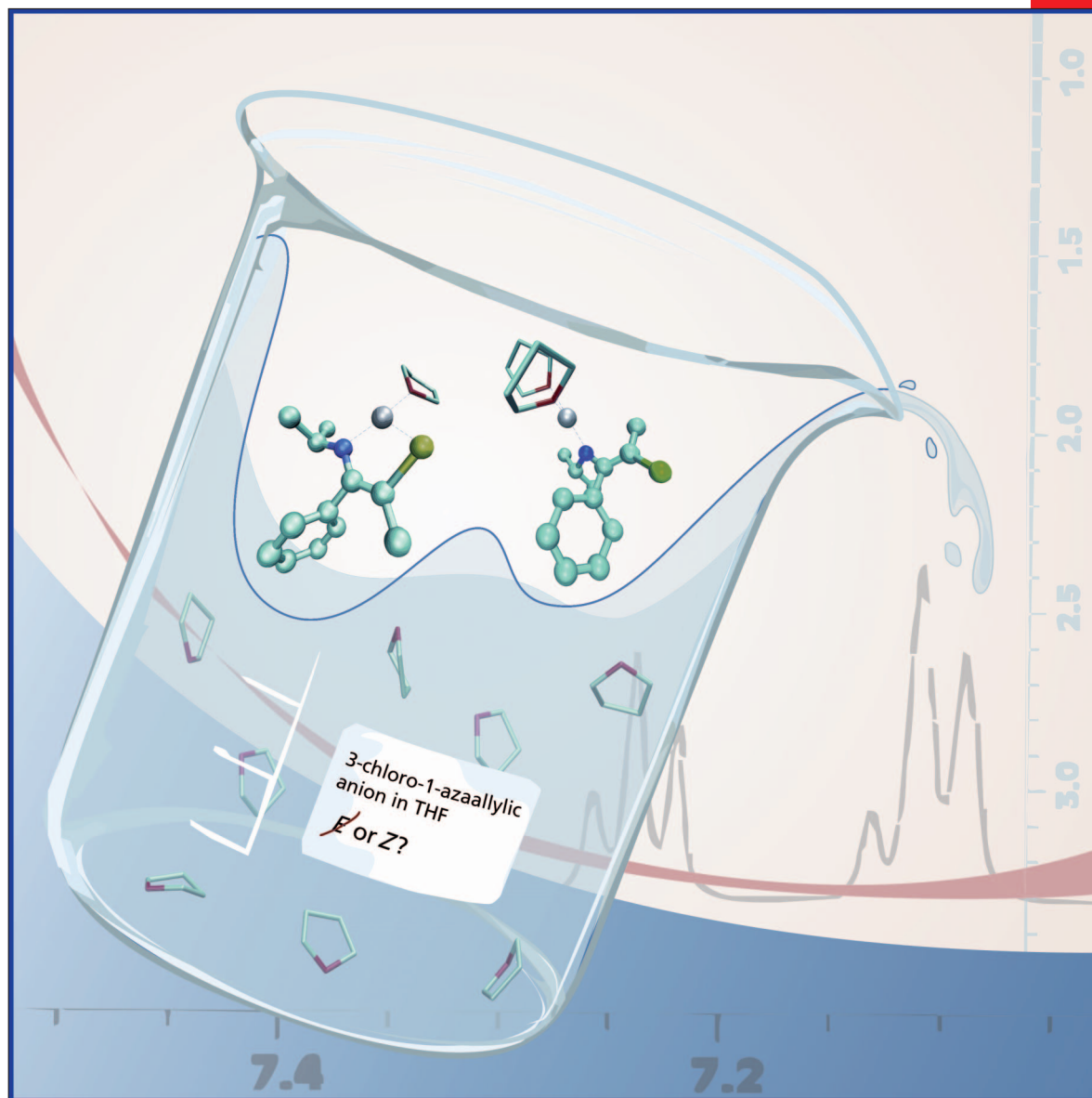


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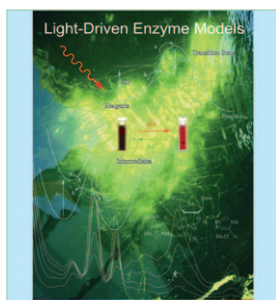
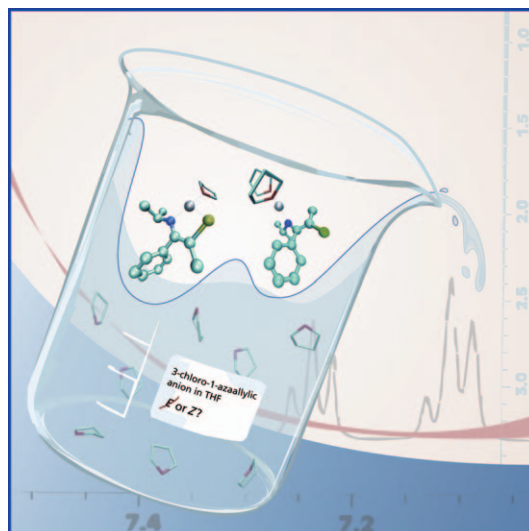
Concept

Artificial Enzyme Catalysis Controlled and Driven by Light
G. Knör

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... first-principle molecular dynamics and metadynamics simulations in an explicit periodic solvent model, together with new NMR experiments are used by V. Van Speybroeck, N. De Kimpe et al. in their Communication on page 580 ff., to provide extensive and convincing evidence for the solvation and isomerization properties of lithiated 3-chloro-1-azaallylic anions in tetrahydrofuran.

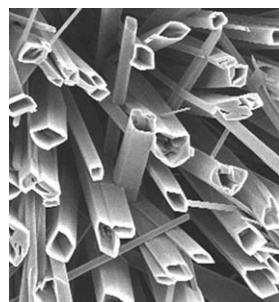


Photochemistry

In the Concept article on page 568 ff., G. Knör describes the latest developments on the use of photoresponsive molecules as a rapidly emerging new strategy to mimic the function of various biological systems.

Biochemical Analysis

The whole is more than the sum of its parts. In the Full Paper on page 600 ff., R. D. Gougeon, M. Lucio, P. Schmitt-Kopplin et al. show that non-targeted high-precision analytical methodologies can reveal unprecedented chemodiversities of complex biological systems, such as cooperage wood extracts and related wines. When applied to classification purposes according to geographical origins, species, or any environmental parameters, such methodologies can disclose numerous discriminant chemical compounds.



Porous Materials

In their Full Paper on page 612 ff., S. Y. Kim et al. describe the synthesis of a series of structural analogues of 4-dodecyloxy-2-trifluoromethylbenzamide to evaluate their molecular structures in relation to the formation of parallelogrammatic pipes. The polymorphic nature of the analogues originated from the conformation of alkyl groups and was preserved through the series when the number of carbon atoms in the alkyl group was greater than eight.

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