

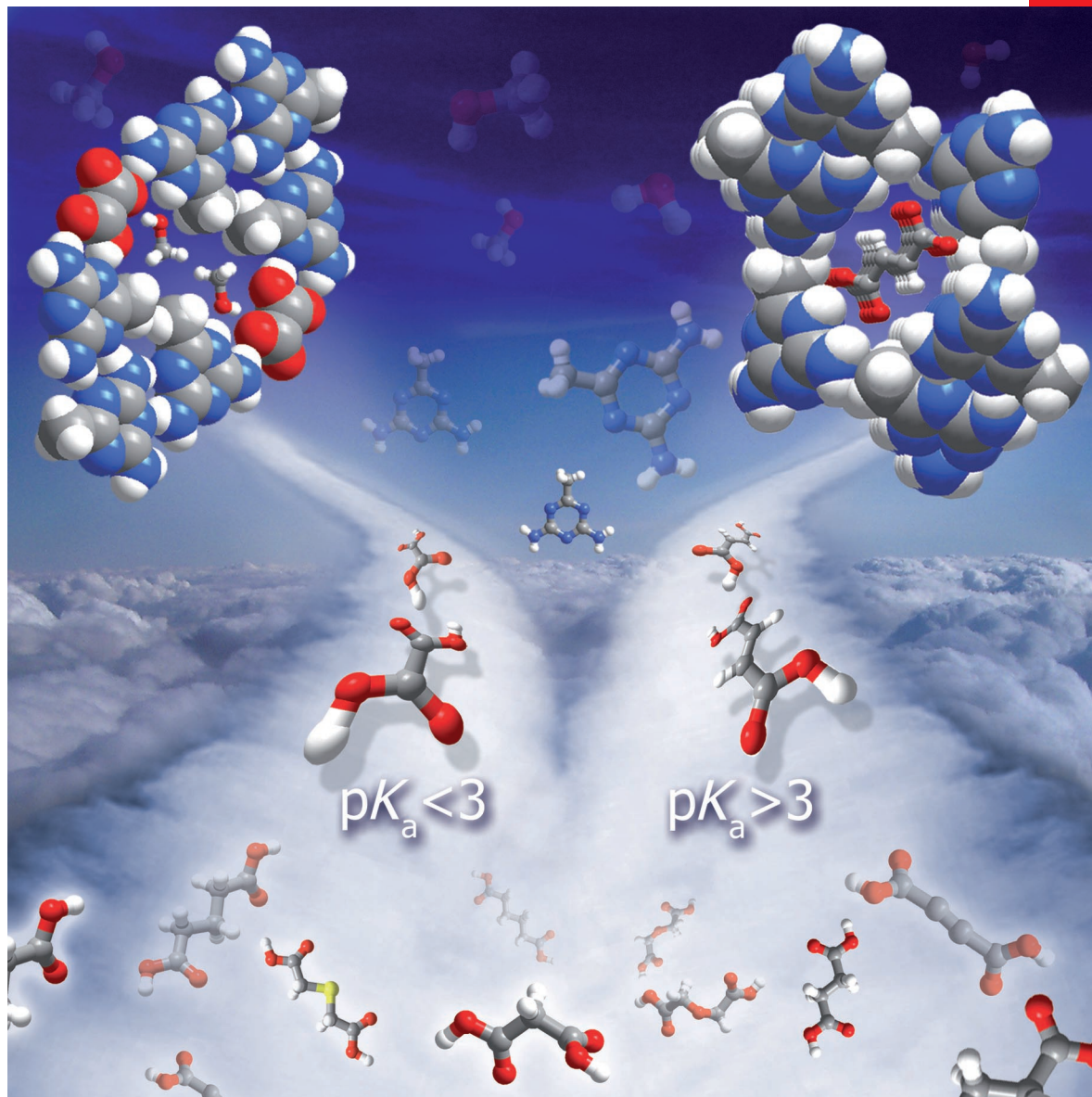
CHEMISTRY

A EUROPEAN JOURNAL

14/23

2008

Now with
Communications



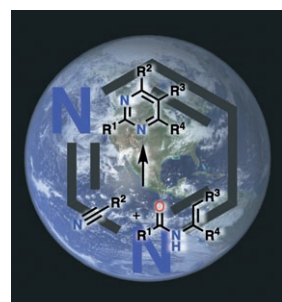
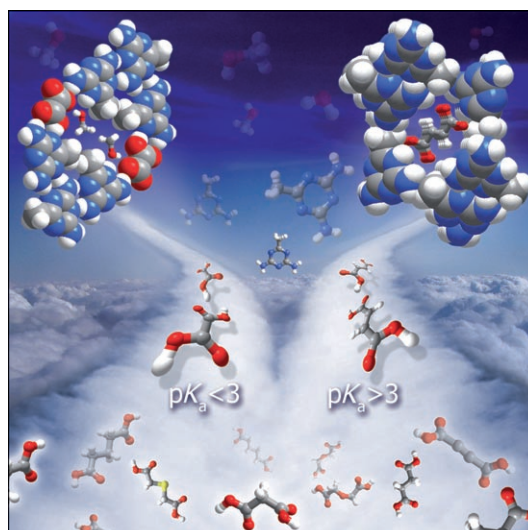
Concept
New Strategies for the Synthesis of Pyrimidine Derivatives
M. Movassaghi and M. D. Hill

Supported by
ACES

 WILEY-VCH

pK_a -Directed host-guest assemblies...

... composed of 2,4-diamino-6-methyl-1,3,5-triazine and a range of aliphatic dicarboxylic acids in a ratio of 2:1 have been prepared and characterized by Pedireddi et al., as demonstrated in their Full Paper on page 6967 ff. Two different types of host-guest system were observed depending on the pK_a of the acid.

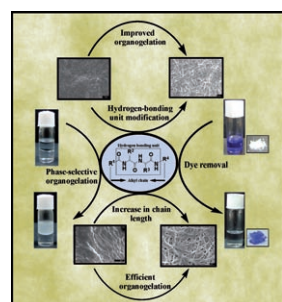
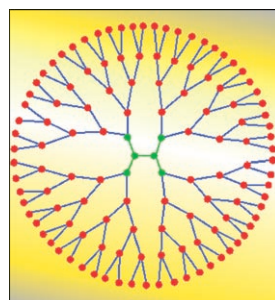


Pyrimidine Synthesis

In their Concept article on page 6836 ff., M. Movassaghi and M. D. Hill describe the recent advances in pyrimidine synthesis. Modification of conventional strategies involving N-C-N fragment condensation with 1,3-dicarbonyl derivatives remains a common theme in current literature. Other methods, including N-C fragment condensation strategies, provide reactive intermediates capable of intramolecular cyclization and formation of pyrimidine derivatives. These recently developed methodologies offer a valuable addendum to protocols for azaheterocycle synthesis.

Dendrimers

In their Communication on page 6866 ff., F. Gröhn et al. demonstrate that the self-assembly of cationic dendrimers and oppositely charged small divalent organic ions in methanol can give stable supramolecular structures, such as fluorescent nanorods. Variation of the building blocks has the potential to lead to versatile functional supramolecular architectures.



Organogels

In their Full Paper on page 6870 ff., P. K. Das et al. describe the structure-property correlation of newly developed dipeptide organogelators, which were investigated by spectroscopic and microscopic techniques. All dipeptide gelators showed selective gelation of oil (aromatic solvents) in the presence of water. The xerogels of the organogelators can adsorb dyes, a property that was exploited in water purification.

 GERMANY	 NETHERLANDS
 BELGIUM	 ITALY
 FRANCE	 SPAIN
 PORTUGAL	 GREECE
 CZECH REPUBLIC	 POLAND
 SWEDEN	 HUNGARY
 AUSTRIA	 EU ChemSoc

Supported by
ACES

Chemistry—A European Journal is jointly owned by the 14 Chemical Societies shown above and published by Wiley-VCH. This group of Societies has banded together as the Editorial Union of Chemical Societies (EU ChemSoc) for its combined publishing activities. The journal is also supported by the Asian Chemical Editorial Society (ACES).