

## IN THIS ISSUE

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### Cover

Supramolecular chemistry brings together chemists from a variety of different fields (synthetic and physical chemistry, polymer science, solid state and materials domains, etc.), to develop new strategies and concepts for the design and formation of complex molecular systems.

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### C73

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## Chemical Science

October 2006/Volume 3/Issue 10

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## EDITORIAL

### 1363

#### Thematic issue on trends in supramolecular chemistry

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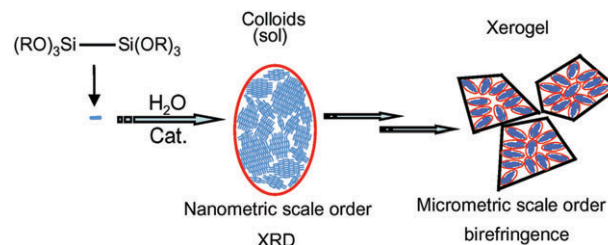
## PERSPECTIVES

1364

**Supramolecular self-organization in non-crystalline hybrid organic–inorganic nanomaterials induced by van der Waals interactions**

Frédéric Lerouge, Geneviève Cerveau and Robert J. P. Corriu\*

This paper describes a new type of organization of hybrid materials that occurs under kinetic control, and presents characteristics that are different depending on the scale: nano, micro and even milli.

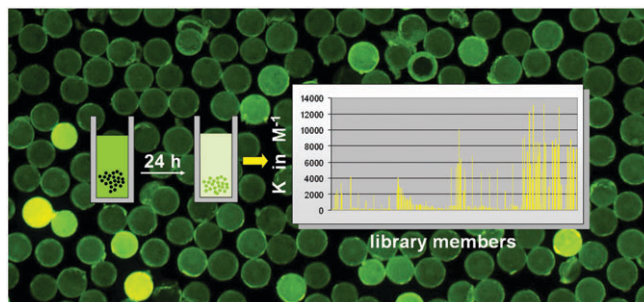


1377

**Combinatorial receptor finding—large and random vs. small and focused libraries**

Carsten Schmuck\* and Peter Wich

The use of small but focused libraries in combinatorial chemistry is nowadays becoming increasingly into focus, *e.g.* in supramolecular chemistry to identify artificial receptors for peptide binding.



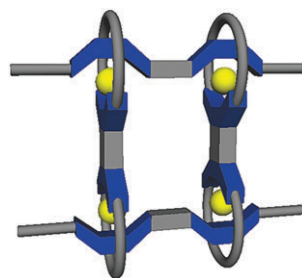
## LETTER

1386

**Copper(I)-induced threading of two bis-macrocycles on two rods: a cyclic [4]rotaxane**

Jean-Paul Collin, Julien Frey, Valérie Heitz, Efsthia Sakellariou, Jean-Pierre Sauvage\* and Christian Tock

A cyclic rotaxane tetramer has been synthesised by threading two two-coordination site rods through two bis-macrocycles in the presence of copper(I) as a template.



## PAPERS

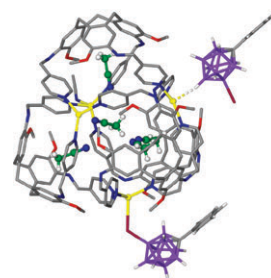


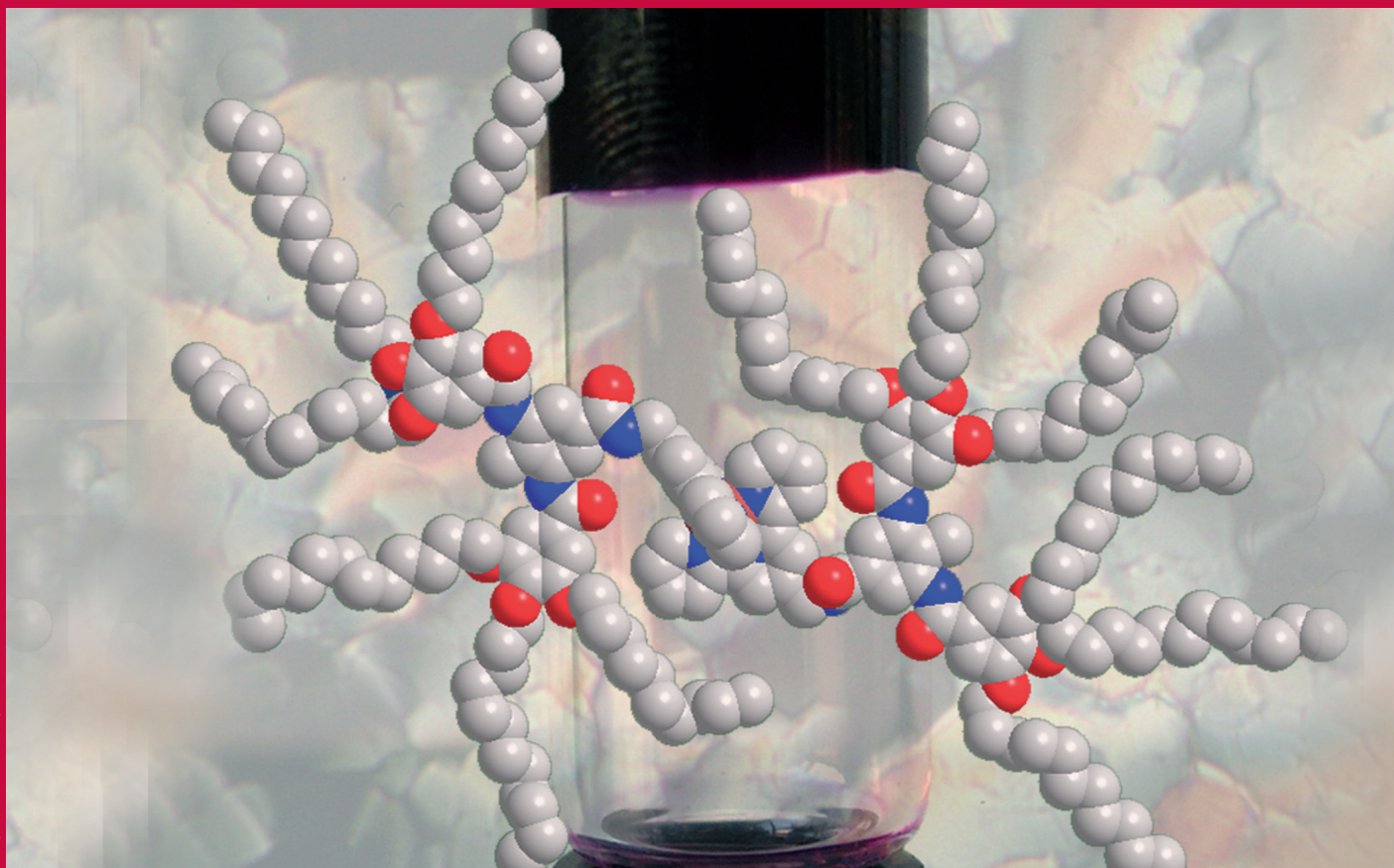
1390

**Crystal-packing motifs of [Ag<sub>4</sub>L<sub>4</sub>]<sup>4+</sup> star-burst tetrahedra**

Christopher J. Sumby, Michael J. Carr, Andreas Franken, John D. Kennedy, Colin A. Kilner and Michael J. Hardie\*

A metallo-supramolecular tetrahedron [Ag<sub>4</sub>L<sub>4</sub>(CH<sub>3</sub>CN)<sub>2</sub>(PhCB<sub>9</sub>H<sub>8</sub>I)<sub>2</sub>]<sup>2+</sup> with the novel [1-Ph-*closo*-CB<sub>9</sub>H<sub>8</sub>-6-I]<sup>-</sup> anion has a star-burst structure similar to other reported [Ag<sub>4</sub>L<sub>4</sub>]<sup>4+</sup> tetrahedra, though shows different overall crystal packing.





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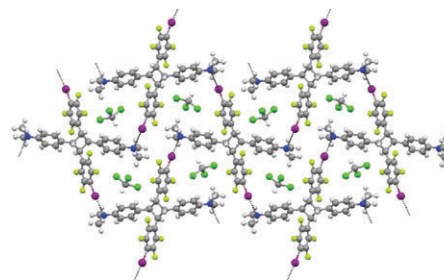
## PAPERS

1397

**Solid state synthesis under supramolecular control of a 2D heterotetratopic self-complementary tecton tailored to halogen bonding**

Giovanni Marras, Pierangelo Metrangolo,\* Franck Meyer, Tullio Pilati, Giuseppe Resnati\* and Ashwani Vij

A solid state photoreaction under supramolecular control has been applied to the molecular synthesis by design of a heterotetratopic tecton tailored to XB-based crystal engineering.

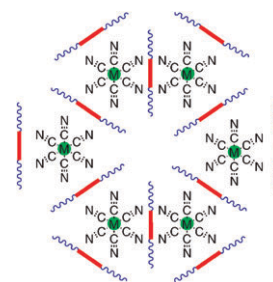


1403

**Molecular tectonics: control of packing of hybrid 1-D and 2-D H-bonded molecular networks formed between bisamidinium dication and cyanometallate anions**

Pierre Dechambenoit, Sylvie Ferlay,\* Mir Wais Hosseini,\* Jean-Marc Planeix and Nathalie Kyritsakas

Upon combining the dicationic bis-amidinium tecton **2** bearing four propyl chains with cyanometallate anions neutral 1- and 2-D hybrid networks based on charge assisted H-bonds are generated and their packing controlled in the crystalline phase.

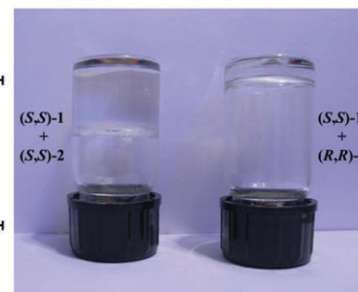
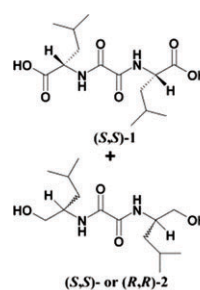


1411

**Synergic effect in gelation by two-component mixture of chiral gelators**

Zoran Džolić, Kristina Wolsperger and Mladen Žinić\*

The homochiral combination of the constitutionally different gelators (*S,S*)-**1** + (*S,S*)-**2** is able to harden up to 5 times the volume of certain solvents than the heterochiral (*S,S*)-**1** + (*R,R*)-**2** combination and up to 7 times the volume than an equal mass of each of the single components.

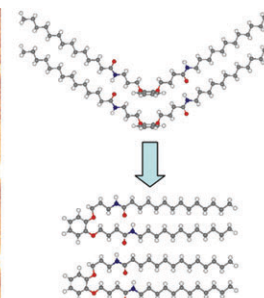
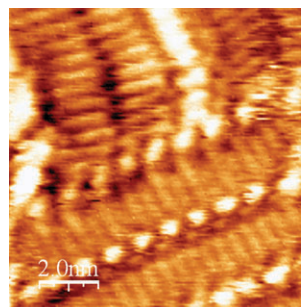


1420

**Scanning tunnelling microscopy of a foldamer prototype at the liquid/solid interface: water/Au(111) versus 1-octanol/graphite**

Andrey S. Klymchenko, Norbert Schuurmans, Mark van der Auweraer, Ben L. Feringa, Jan van Esch\* and Steven De Feyter\*

We report the design and synthesis of a catechol based foldamer containing amide functionalized alkyl chains, and its folding at the liquid/solid interface.



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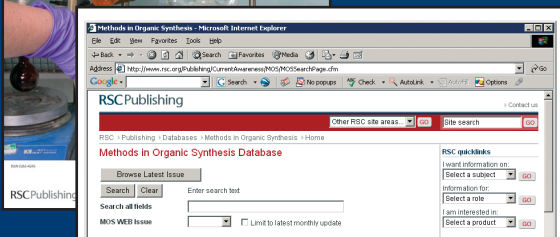
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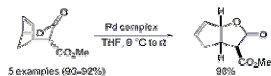


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J.-H. Liao; N. Maulide; B. Augustyns; I. E. Marko\*  
*Org. Biomol. Chem.*, 2006, 4(8), 1464-1467



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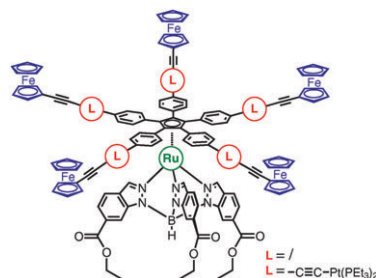


1429

### Synthesis of triester-functionalized molecular motors incorporating bis-acetylide *trans*-platinum insulating fragments

Guillaume Vives, Alexandre Carella, Stéphanie Sistach, Jean-Pierre Launay and Gwénaél Rapenne\*

Two prototypes of electron-fuelled molecular motors bearing ester anchoring groups are synthesized. The insulating role of *trans*-platinum spacers separating the core and the electroactive groups is also discussed.

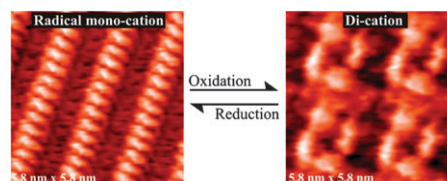


1439

### Surface redox chemistry of adsorbed viologens on Cu(100)

Duc-Thanh Pham, Knud Gentz, Caroline Zörlein, Nguyen T. M. Hai, Sung-Lin Tsay, Barbara Kirchner,\* Simone Kossmann, Klaus Wandelt and Peter Broekmann\*

2D phases of redox-active dibenzyl-viologens immobilized on an anion modified Cu(100) electrode surface undergo quasi-reversible structural transitions driven by electron transfer reactions.

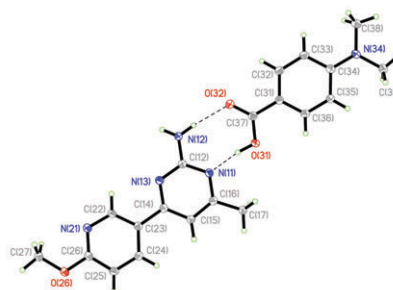


1452

### Balancing intermolecular hydrogen-bond interactions for the directed assembly of binary 1 : 1 co-crystals

Christer B. Aakeröy,\* Nate Schultheiss, John Desper and Curtis Moore

A systematic structural study of nine molecular co-crystals demonstrate that 2-aminopyrimidine is a very effective binding site for carboxylic acids even in the presence of a potentially disruptive hydrogen-bonding donor/acceptor moiety such as pyridine.

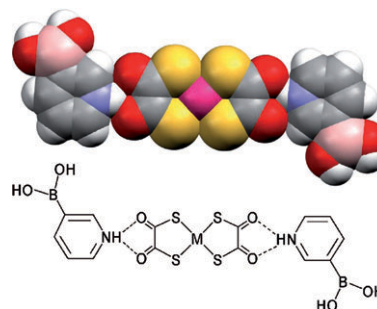


1461

### Pyridinium boronic acid salts in crystal synthesis

Hulya Kara, Christopher J. Adams, A. Guy Orpen\* and Thomas J. Podesta

Use of the 3- and 4-pyridinium boronic acid tectons in salts with  $[M(dto)_2]^{2-}$  ( $M = Ni, Pd, Pt$  and  $Cu$ ) and  $[Pt(ox)_2]^{2-}$  leads to two series of crystalline isomorphous salts in which  $NH\cdots O$  and  $B(OH)_2\cdots$  carboxylate bonds are formed.



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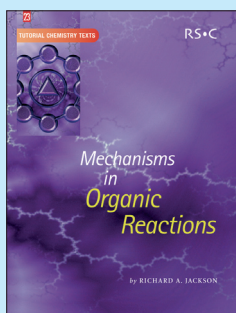
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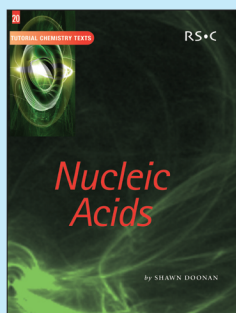


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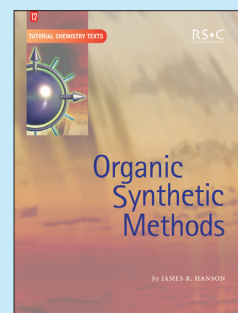


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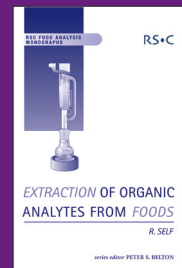
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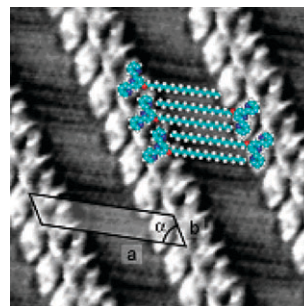


1470

### An evaluation of the relationship between two- and three-dimensional packing in self-organised monolayers and bulk crystals of amphiphilic 2,2':6',2''-terpyridines

Edwin C. Constable,\* H.-J. Güntherodt, Catherine E. Housecroft, Leo Merz, Markus Neuburger, Silvia Schaffner and Yaqiu Tao

Direct visualisation of chirality in chiral domains in monolayers of prochiral compounds.

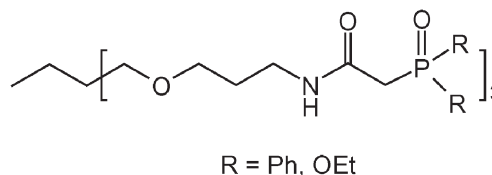


1480

### CMP(O) tripodands: synthesis, potentiometric studies and extractions

M. M. Reinoso-García, D. Jańczewski, D. N. Reinhoudt, W. Verboom,\* E. Malinowska, M. Pietrzak, C. Hill, J. Báča, B. Grüner, P. Selucky and C. Grüttner

CMPO tripodands show interesting extraction properties, especially in the presence of bromo-Cosan as a synergistic agent and coated on the surface of dendrimer-covered magnetic particles.

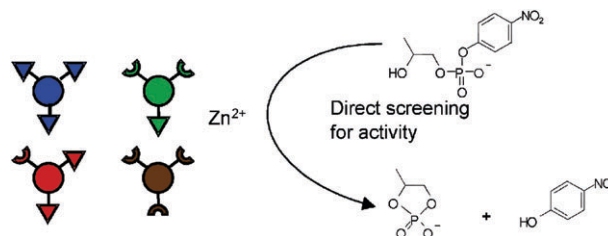


1493

### Determination of the activity of heterofunctionalized catalysts from mixtures

Giovanni Zaupa, Marco Martin, Leonard J. Prins\* and Paolo Scrimin\*

A new approach is presented for the determination of the activity of mixtures of heterofunctionalized catalysts *via* the deconvolution of small libraries without the separation of the components.

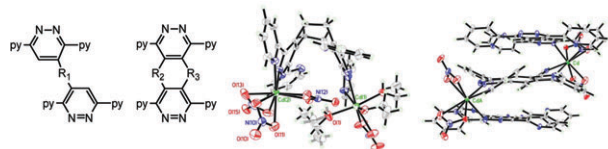


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### Synthesis of pyridazinyl ligands for multimetallic complexes

Frédéric Thébault, Alexander J. Blake, Claire Wilson, Neil R. Champness\* and Martin Schröder\*

New polypyridazinyl ligands and multimetal complexes of Cu(II) and Cd(II) have been prepared and characterised.



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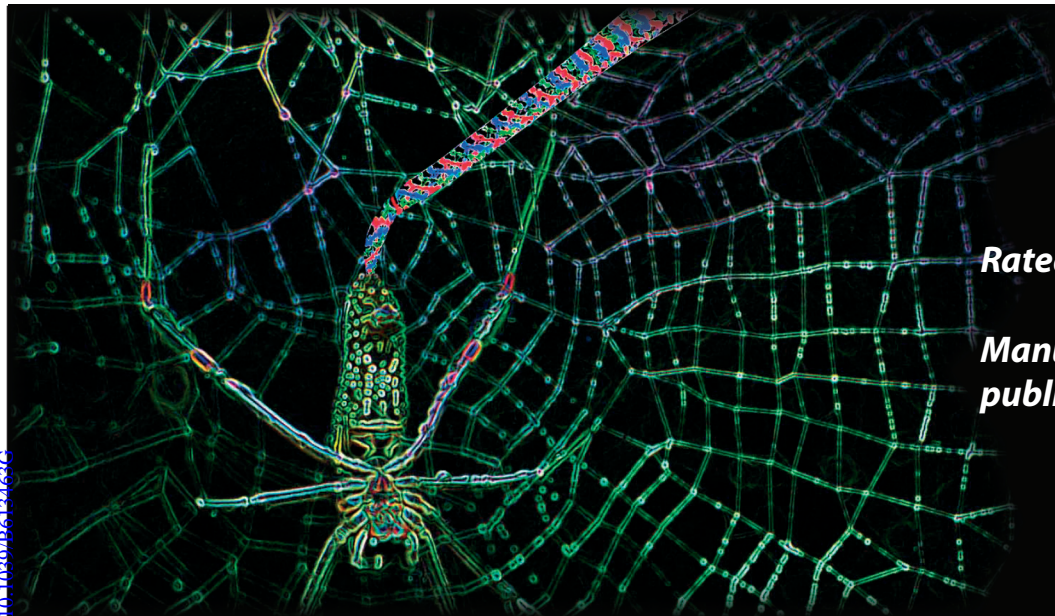
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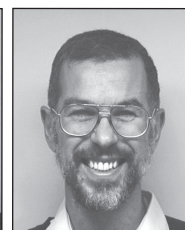
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