

## IN THIS ISSUE

ISSN 1144-0546 CODEN NJCHES 31(1) 1-180 (2007)



### Cover

For its 30th anniversary, NJC features a molecular capsule whose two halves are held together by a belt of zinc ions. The cover highlights different forms of zinc, including the alchemical depiction (Image © Murray Robertson 1999–2006). Cover design by Scott Dalgarno and Gérard Calleja.

## CHEMICAL SCIENCE

### C1

Drawing together the research highlights and news from all RSC publications, *Chemical Science* provides a 'snapshot' of the latest developments across the chemical sciences showcasing newsworthy articles, as well as the most significant scientific advances.

## Chemical Science

January 2007/Volume 4/Issue 1

[www.rsc.org/chemicalscience](http://www.rsc.org/chemicalscience)

## EDITORIAL

### 15

### Happy New Year from NJC

Denise Parent and Sarah Ruthven, *NJC* Editors, reflect on 2006 and the developments for 2007.



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## LETTERS

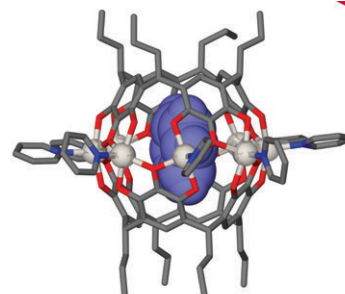


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**Robust and stable pyrogallol[4]arene molecular capsules facilitated *via* an octanuclear zinc coordination belt**

Nicholas P. Power, Scott J. Dalgarno and Jerry L. Atwood\*

**30th Anniversary article:** The first metal coordinated pyrogallol[4]arene encapsulating dimer has been synthesised and shows high nuclearity with respect to  $\text{Zn}^{\text{II}}$ , arranged as a polar coordination belt.

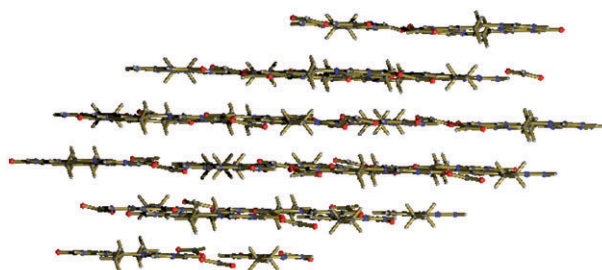


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**Nucleic acids in two dimensions: layers of base pairs linked by carboxylate**

Eva Corral, Huub Kooijman, Anthony L. Spek and Jan Reedijk\*

The formation of a planar 2D hydrogen-bonded network between DNA bases and formate residues is reported, leading to unprecedented parallel sheets of DNA analogues.



## PAPERS

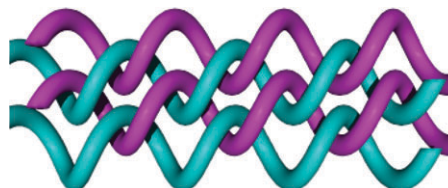


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**Molecular tectonics: generation of 1-D interdigitated and 2-D interwoven helical silver coordination networks by oligoethylene glycol based tectons bearing two benzonitrile moieties**

Julien Bourlier, Mir Wais Hosseini,\* Jean-Marc Planeix and Nathalie Kyritsakas

In the presence of silver cation, oligoethylene glycol based tectons bearing two benzonitrile units lead to 1-D and 2-D helical metallo-organic architectures.

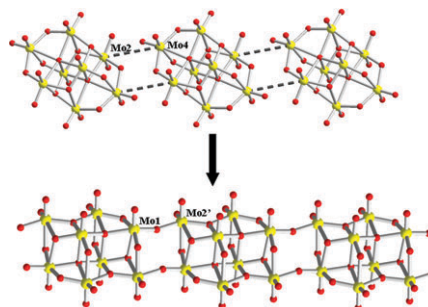


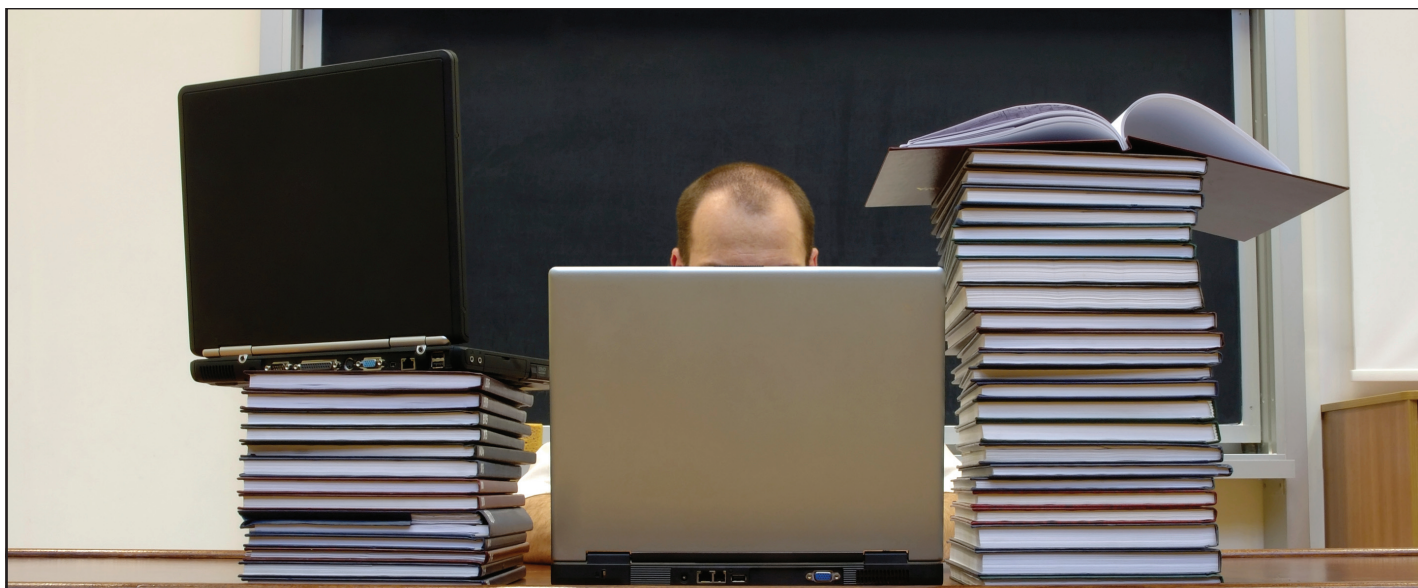
33

**Sequential transformations in assemblies based on octamolybdate clusters and 1,2-bis(4-pyridyl)ethane**

Reinaldo Atencio,\* Alexander Briceño, Pedro Silva, José A. Rodríguez and Jonathan C. Hanson

The four novel hybrid molybdenum oxide assemblies  $[\text{Mo}_8\text{O}_{26}][\text{H}_2\text{bpe}]_2$  (1),  $\{[\text{Mo}_8\text{O}_{26}(\mu\text{-bpe})][\text{H}_2\text{bpe}]_2\}_n$  (2),  $[\text{Mo}_8\text{O}_{26}(\text{Hbpe})_2][\text{H}_2\text{bpe}]$  (3), and  $\{[\text{Mo}_8\text{O}_{26}][\text{H}_2\text{bpe}]_2\}_n$  (4) are involved in sequential transformation processes under hydrothermal conditions.





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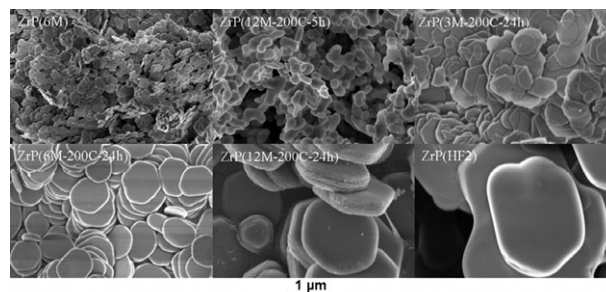
## PAPERS

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**Preparation of  $\alpha$ -zirconium phosphate nanoplatelets with wide variations in aspect ratios**

Luyi Sun, Woong J. Boo, Hung-Jue Sue\* and Abraham Clearfield\*

$\alpha$ -ZrP with varying lateral dimensions were prepared *via* three different approaches, which can be exfoliated to prepare polymer nanocomposites for different applications and structure–property relationship studies.

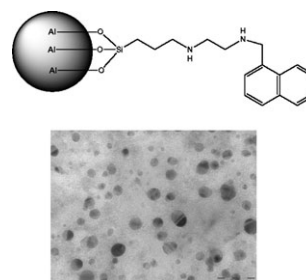


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**Naphthalene-containing polyamines supported in nanosized boehmite particles**

Ricardo Aucejo, Pilar Díaz, Enrique García-España,\* Javier Alarcón,\* Estefanía Delgado-Pinar, Francisco Torres, Conxa Soriano and M. Carmen Guillem

Naphthalene polyamines have been attached to boehmite nanoparticles. The photochemical characteristics of the supported materials are compared with those of the non-supported materials.

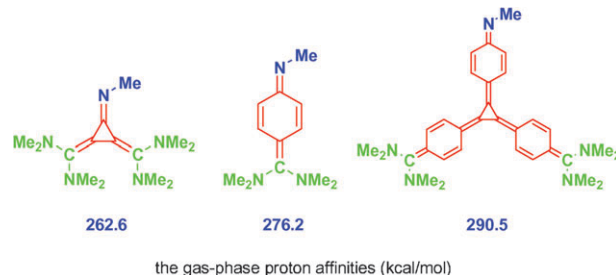


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**Computational design of Brønsted neutral organic superbases—[3]iminoradialenes and quinonimines are important synthetic targets**

Ines Despotović, Zvonimir B. Maksić\* and Robert Vianello

A combination of [3]radialene and quinone fragments possessing imino nitrogen as a basic centre leads to highly basic compounds.

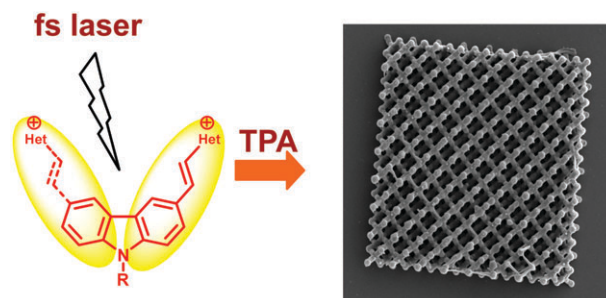


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**Carbazole-based 1D and 2D hemicyanines: synthesis, two-photon absorption properties and application for two-photon photopolymerization 3D lithography**

Jie Gu, Wang Yulan, Wei-Qiang Chen, Xian-Zi Dong, Xuan-Ming Duan\* and Satoshi Kawata

Carbazole based hemicyanines with large two-photon absorption cross sections were synthesized and successfully used for 3D microlithography as a highly efficient photoinitiator of two-photon polymerization.



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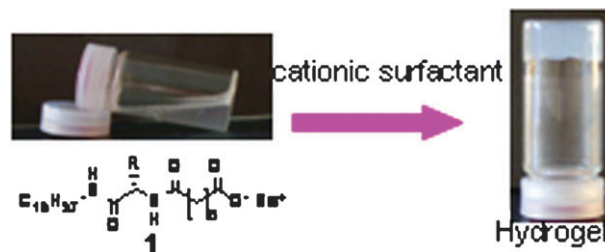
## PAPERS

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### Cationic surfactant-triggered formation of a supramolecular hydrogel by a negatively charged L-valine derivative

Masahiro Suzuki,\* Teruaki Sato, Hirofusa Shirai and Kenji Hanabusa

L-Valine derivative (**1**) has been found to function as a cationic surfactant-triggered hydrogelator: it only forms a hydrogel in the presence of a cationic surfactant.

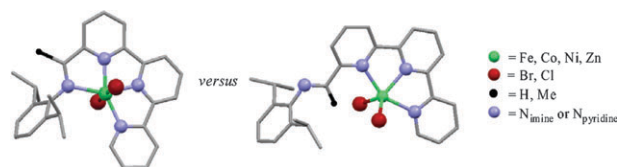


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### Factors affecting imine coordination in (iminoterpyridine) MX<sub>2</sub> (M = Fe, Co, Ni, Zn): synthesis, structures, DFT calculations and ethylene oligomerisation studies

Yohan D. M. Champouret, Jean-Didier Maréchal, Rajinder K. Chaggar, John Fawcett, Kuldip Singh, Feliu Maseras and Gregory A. Solan\*

The lability of the imine donor in a series of (iminoterpyridine) MX<sub>2</sub> complexes has been probed; both the nature of M and the imino-carbon substituent prove influential.

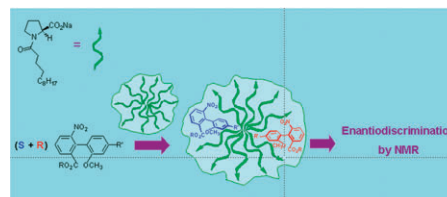


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### Discrimination of the enantiomers of new biphenylic derivatives in chiral micellar aggregates

Francesca Ceccacci, Luisa Giansanti, Giovanna Mancini,\* Paolo Mencarelli and Alessandro Sorrenti

Chiral discrimination might occur far from the stereogenic centres.

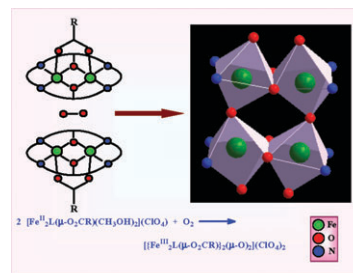


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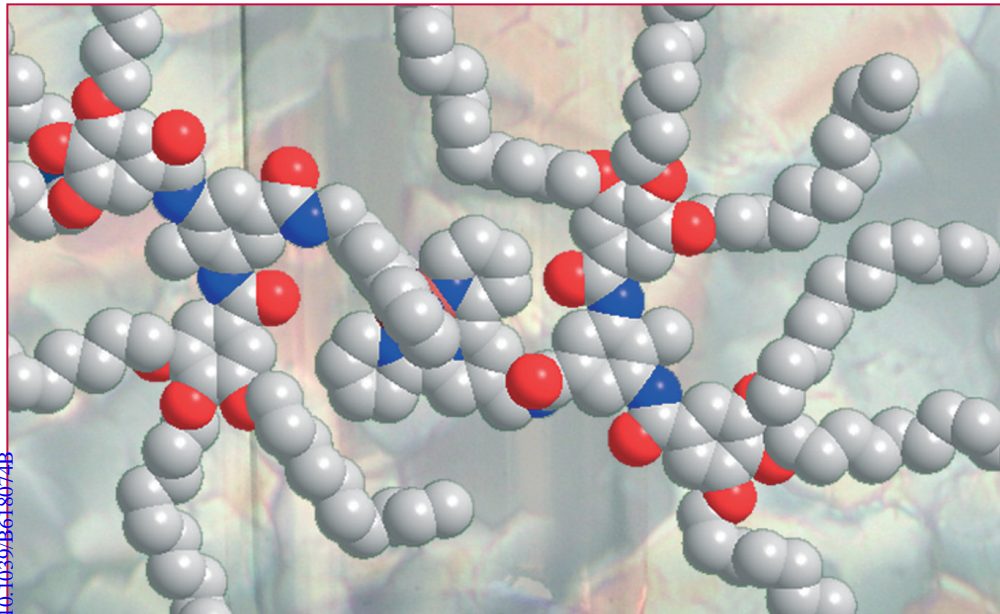
### Formation of oxo-bridged tetrairon(III) complexes mediated by oxygen activation. Structure, spectroscopy, magnetism and electrochemistry

Sujit K. Dutta, Meenakshi Ghosh, Papu Biswas, Ulrich Flörke, Cristoph Saal, Wolfgang Haase and Kamalaksha Nag\*

The dinuclear iron(II) complexes [Fe<sup>II</sup><sub>2</sub>L(μ-O<sub>2</sub>CR)]<sup>+</sup> activate oxygen to produce the oxo-bridged tetrairon(III) complexes [{Fe<sup>III</sup><sub>2</sub>L(μ-O<sub>2</sub>CR)}<sub>2</sub>(μ-O)<sub>2</sub>](ClO<sub>4</sub>)<sub>2</sub>.







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**Weak paramagnetism in compounds of the type  $\text{Cp}'_2\text{Yb}(\text{bipy})$**

*Marc D. Walter, Madeleine Schultz, Richard A. Andersen (USA)*

**A phen-terpy conjugate whose chelate coordination axes are orthogonal to one another and its zinc complex**

*Benoît Champin, Valérie Sartor, Jean-Pierre Sauvage (France)*

**A catalyst for an acetal hydrolysis reaction from a dynamic combinatorial library**

*Laurent Vial, Jeremy K. M. Sanders, Sijbren Otto (UK)*

**The first total synthesis of aeruginosamide**

*Zhiyong Chen, Tao Ye (China)*

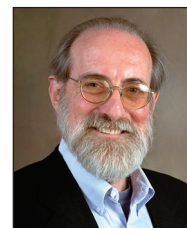
**Molecular knots, links, and fabrics: prediction of existence and suggestion of a synthetic route**

*Dirk Andrae (Germany)*

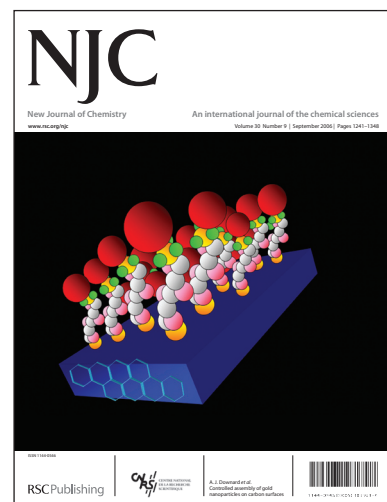
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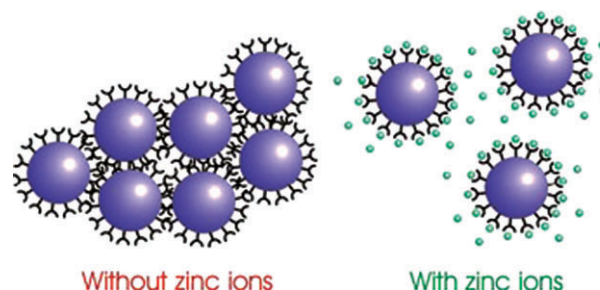
## PAPERS

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**Stabilization of terpyridine covered gold nanoparticles by metal ions complexation**

Marco Montalti,\* Luca Prodi, Nelsi Zaccheroni,  
Matteo Beltrame, Tamara Morotti and Silvio Quici

Zinc cations prevent the aggregation of functionalized gold nanoparticles.

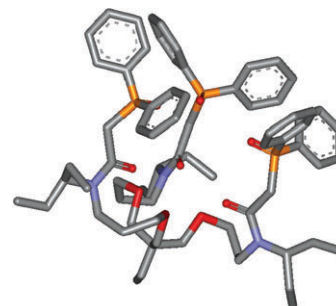


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**Tripodal (*N*-alkylated) CMP(O) and malonamide ligands: synthesis, extraction of metal ions, and potentiometric studies**

Dominik Jańczewski, David N. Reinhoudt,  
Willem Verboom,\* Elżbieta Malinowska, Mariusz Pietrzak,  
Clément Hill and Cécile Allignol

Introduction of *N*-alkyl substituents to C-pivot based tripodal ligands gives rise to an improved extraction behavior toward  $\text{Am}^{3+}$  and  $\text{Eu}^{3+}$ .

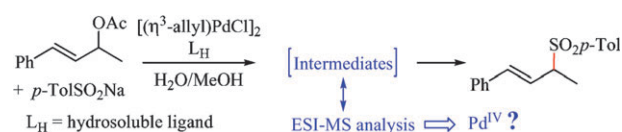


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**Substitution of allylic acetates with sodium *para*-toluenesulfonate in aqueous media using allylpalladium chloride dimer and a water-soluble ligand as the catalytic system; electrospray ionisation mass spectrometry analysis**

Carole Chevrin, Jean Le Bras, Anna Roglans,  
Dominique Harakat and Jacques Muzart\*

Substitution seems to involve a cationic ( $\eta^1$ -allyl) ( $\eta^3$ -allyl)palladium<sup>IV</sup> intermediate as the key step.

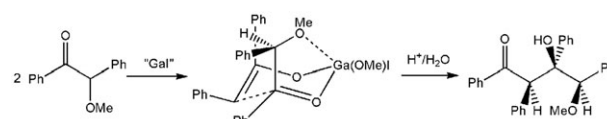


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**'GaI': A new reagent for chemo- and diastereoselective C–C bond forming reactions**

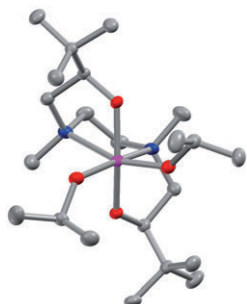
Shaun P. Green, Cameron Jones,\* Andreas Stasch and  
Richard P. Rose

The reactivity of "GaI" towards a range of  $\alpha$ -functionalised ketones has been examined for the first time. Of most interest are the reactions of this reagent with  $\alpha$ -alkoxy ketones which lead to diastereoselective aldol coupling reactions and the formation of novel trifunctional products containing three contiguous stereocentres (*e.g.* see picture).



## PAPERS

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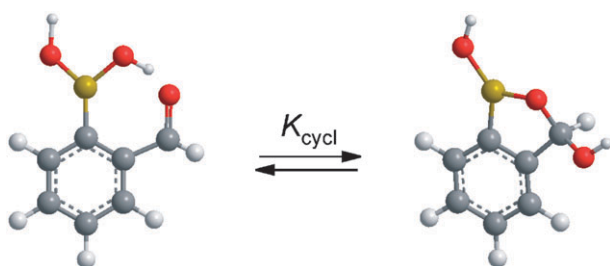


### Influence of ligand backbone flexibility in group 4 metal complexes of tetradentate mixed tertiary amine/alkoxide ligands

J. K. Day, R. E. Baghurst, R. R. Strevens, M. E. Light, M. B. Hursthouse, B. F. Stengel, I. A. Fallis and S. Aldridge\*

The contrasting reactivities of  $[\text{HOCH}(\text{'Bu})\text{CH}_2\text{N}(\text{R})\text{CH}_2]_2$  ( $\text{H}_2\text{L}^1$ :  $\text{R}_2 = \text{CH}_2\text{CH}_2\text{CH}_2$  and  $\text{H}_2\text{L}^2$ :  $\text{R}_2 = \text{Me}_2$ ) towards group 4 alkoxides illustrate the crucial role of ligand backbone flexibility in complex formation.

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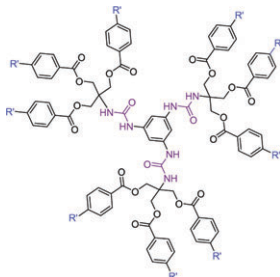


### A tautomeric equilibrium between functionalized 2-formylphenylboronic acids and corresponding 1,3-dihydro-1,3-dihydroxybenzo[c][2,1]oxaboroles

Sergiusz Luliński,\* Izabela Madura, Janusz Serwatowski, Halina Szatyłowicz and Janusz Zachara

An unprecedented chain–ring tautomeric rearrangement of functionalized 2-formylphenylboronic leads to the formation of corresponding 1,3-dihydro-1,3-dihydroxybenzo[c][2,1]oxaboroles.

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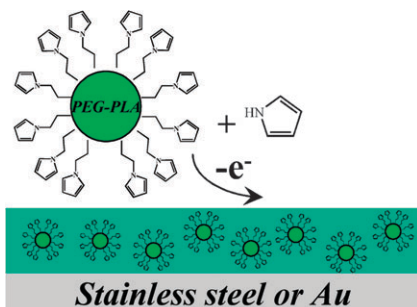


### Synthesis and characterisation of peripherally functionalised dendritic molecules

Sarah J. Atkinson, Vicky-June Ellis, Sue E. Boyd and Christopher L. Brown\*

A family of dendritic macromolecules has been prepared utilising the facile and versatile coupling reaction occurring between amines and isocyanates.

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### A novel electrochemically synthesized biodegradable thin film of polypyrrole–polyethyleneglycol–polylactic acid nanoparticles

Galit Shustak, Mariusz Gadzinowski, Stanislaw Slomkowski, Abraham J. Domb and Daniel Mandler\*

Electrodeposition of polypyrrole–PEG–PLA nanocomposite film on gold and stainless steel by electropolymerization of pyrrole and pyrrole-functionalized PEG–PLA nanoparticles.

## PAPERS

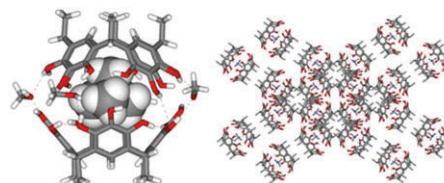


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### Complexation of *C*-methyl pyrogallarene with small quaternary and tertiary alkyl ammonium cations

Antti Åhman, Minna Luostarinen, Kari Rissanen and Maija Nissinen\*

*C*-Methyl pyrogallarene forms dimeric capsule and 1 : 1 inclusion complexes with quaternary and tertiary alkylammonium cations in gas phase, solution and in solid state.



## ADDITIONS AND CORRECTIONS

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### Sequential transformations in assemblies based on octamolybdate clusters and 1,2-bis(4-pyridyl)ethane

Reinaldo Atencio, Alexander Briceño, Pedro Silva, José A. Rodríguez and Jonathan C. Hanson

# Chemistry and Medicines

## An Introductory Text

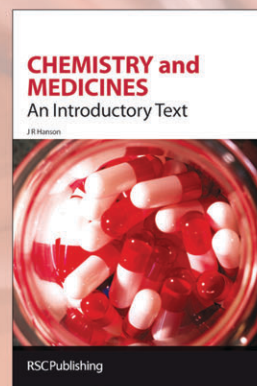
By J R Hanson

This text book covers all areas of medicinal chemistry including:

- bio-organic chemistry
- organic synthetic methods
- physical organic chemistry
- organic reaction mechanisms

It also describes the underlying chemistry for synthesis of key drugs used to combat diseases of central nervous system, infectious diseases and cancers. Ideal for advanced undergraduates and post graduates.

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