

## IN THIS ISSUE

ISSN 1144-0546 CODEN NJCHES 34(2) 173–368 (2010)



## Cover

See Domenico M. Grasso *et al.*, pp. 200–207.  
Are fibrils involved in Langerhans'  $\beta$ -cell death?  
Image reproduced by permission of Domenico M. Grasso from *New Journal of Chemistry*, 2010, **34**, 200.



## Inside cover

See Qian-Shu Li and R. Bruce King *et al.*, pp. 208–214.  
The tetranuclear iron carbonyls  $\text{Fe}_4(\text{CO})_n$  ( $n = 16, 15, 14$ ) are predicted to have low energy structures with rhombus, planar butterfly, and tetrahedral arrangements of the central  $\text{Fe}_4$  cluster.  
Image reproduced by permission of R. Bruce King from *New Journal of Chemistry*, 2010, **34**, 208.

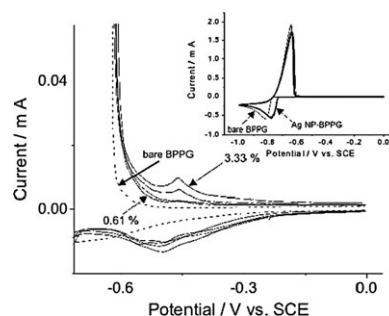
## LETTERS

187

## Thallium underpotential deposition on silver nanoparticles: size-dependent adsorption behaviour

Fallyn W. Campbell, Yi-Ge Zhou and Richard G. Compton\*

In this letter we report the size-dependent underpotential deposition (UPD) of thallium on silver nanoparticles (AgNPs); UPD of thallium is observed at bulk silver electrode and AgNPs of diameter greater than 50 nm but absent at smaller AgNPs.

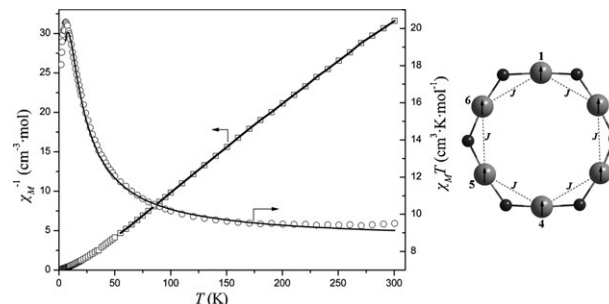


190

## A novel large Ni-azido circle with tridentate (NNO) Schiff base co-ligands: hexagonal structure and ferromagnetic properties

Baiwang Sun,\* Xiaodan Chen, Zhongshu Li, Lei Zhang and Qihua Zhao

The title complex has a nearly hexagonal geometry with large Ni–N–Ni angles of about  $127(1)^\circ$ . A study of its magnetic properties showed that although it is ferromagnetic, its exchange coupling constant is very small.



## EDITORIAL STAFF

**Editor (RSC)**

Sarah Ruthven

**Deputy editor (RSC)**

Kathleen Too

**Editor (CNRS)**

Denise Parent

**Assistant editor (CNRS)**

Marie Cote

**Senior publishing editor**

Elinor Richards

**Publishing editors**Mary Badcock, David Barden, David Parker,  
Michael Townsend**Publishing assistants**

Anna Anderson, Jackie Cockrill

**Publisher**

Emma Wilson

**Founding editor**

Lionel Salem

For queries about submitted articles please contact Elinor Richards, Senior publishing editor, in the first instance. E-mail [njc@rsc.org](mailto:njc@rsc.org)

For pre-submission queries please contact Sarah Ruthven (RSC), Editor. E-mail [njc-rsc@rsc.org](mailto:njc-rsc@rsc.org)

New Journal of Chemistry (Print: ISSN 1144-0546; electronic: ISSN 1369-9261) is published 12 times a year by the Centre National de la Recherche Scientifique (CNRS), 3 rue Michel-Ange, 75794 Paris cedex 16, France, and the Royal Society of Chemistry (RSC), Thomas Graham House, Science Park, Milton Road, Cambridge, UK CB4 0WF.

All orders, with cheques made payable to the Royal Society of Chemistry, should be sent to RSC Distribution Services, c/o Portland Customer Services, Commerce Way, Colchester, Essex, UK CO2 8HP. Tel +44 (0)1206 226050; E-mail [sales@rscdistribution.org](mailto:sales@rscdistribution.org)

2010 Annual (print + electronic) subscription price: £894; US\$1668. 2010 Annual (electronic) subscription price: £804; US\$1501. Customers in Canada will be subject to a surcharge to cover GST. Customers in the EU subscribing to the electronic version only will be charged VAT.

If you take an institutional subscription to any RSC journal you are entitled to free, site-wide web access to that journal. You can arrange access via Internet Protocol (IP) address at [www.rsc.org/ip](http://www.rsc.org/ip). Customers should make payments by cheque in sterling payable on a UK clearing bank or in US dollars payable on a US clearing bank. Periodicals postage paid at Rahway, NJ, USA and at additional mailing offices. Airfreight and mailing in the USA by Mercury Airfreight International Ltd., 365 Blair Road, Avenel, NJ 07001, USA.

US Postmaster: send address changes to New Journal of Chemistry, c/o Mercury Airfreight International Ltd., 365 Blair Road, Avenel, NJ 07001. All despatches outside the UK by Consolidated Airfreight.

Advertisement sales: Tel +44 (0) 1223 432246; Fax +44 (0) 1223 426017; E-mail [advertising@rsc.org](mailto:advertising@rsc.org)

For marketing opportunities relating to this journal, contact [marketing@rsc.org](mailto:marketing@rsc.org)

NJC

## New Journal of Chemistry

An international journal for the chemical sciences

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

The New Journal of Chemistry is a broad-based primary journal encompassing all branches of the chemical sciences. Published monthly, it contains full research articles, letters, opinions and perspectives.

## EDITORIAL BOARD

**Co-editor-in-chief**

Pascal Le Floch, Palaiseau, France

**Co-editor-in-chief**

Jerry Atwood, Columbia, MO, USA

**Consulting editor**

Odile Eisenstein, Montpellier, France

**Associate editors**

Manuscripts should be directed to one of the Editors detailed below.

Professor Peter Junk  
School of Chemistry,  
Monash University, Box 23,  
Victoria 3800,  
Australia  
Fax (+61) 3 9905 4597  
Tel (+61) 3 9905 4570  
E-mail [njc@sci.monash.edu.au](mailto:njc@sci.monash.edu.au)

**Board members**

Kumar Biradha, Khargapur, India  
Fabrizia Grepioni, Bologna, Italy  
Helen Hailes, London, UK  
Peter Junk, Monash, Australia

Barbara Nawrot, Lodz, Poland  
Alan Rowan, Nijmegen,  
The Netherlands  
Michael Scott, Gainesville, FL, USA

Dr Denise Parent  
New Journal of Chemistry,  
Université Montpellier II,  
Place Eugène Bataillon C.C. 014,  
34095 Montpellier cedex 5,  
France  
Fax (+33) (0) 4 67 14 48 79  
Tel (+33) (0) 4 67 14 48 78  
E-mail [njc@univ-montp2.fr](mailto:njc@univ-montp2.fr)

## ADVISORY BOARD

Markus Antonietti, MPI, Potsdam,  
Germany  
Yasuhiro Aoyama, Kyoto, Japan  
Matthias Bremer, Darmstadt,  
Germany  
Robert Crabtree, New Haven, CT, USA  
François Fajula, Montpellier, France  
John A. Gladysz, College Station,  
TX, USA

George Gokel, St Louis, MO, USA  
Andrew B. Holmes, Melbourne,  
Australia  
Miguel Julve, Valencia, Spain  
Henryk Koslowski, Wroclaw, Poland  
Jean-Pierre Majoral, Toulouse, France  
Luca Prodi, Bologna, Italy  
Jan Reedijk, Leiden, The Netherlands

David Reinhoudt, Enschede,  
The Netherlands  
Kari Rissanen, Jyväskylä, Finland  
Clément Sanchez, Paris, France  
Jeremy K. M. Sanders, Cambridge, UK  
Jean-Pierre Sauvage, Strasbourg,  
France  
Jonathan W. Steed, Durham, UK  
Vivian Yam, Hong Kong, PR China

## INFORMATION FOR AUTHORS

Full details on how to submit material for publication in New Journal of Chemistry are given in the Instructions for Authors (available from <http://www.rsc.org/authors>). Submissions should be made via the journal's homepage: <http://www.rsc.org/njc>.

Authors may reproduce/republish portions of their published contribution without seeking permission from the CNRS and the RSC, provided that any such republication is accompanied by an acknowledgement in the form: (Original Citation) – Reproduced by permission of the CNRS and the RSC

©The Royal Society of Chemistry and the Centre National de la Recherche Scientifique 2010. Apart from fair dealing for the purposes of research or private study for non-commercial purposes, or criticism or review, as permitted

under the Copyright, Designs and Patents Act 1988 and the Copyright and Related Rights Regulation 2003, this publication may only be reproduced, stored or transmitted, in any form or by any means, with the prior permission in writing of the Publishers or in the case of reprographic reproduction in accordance with the terms of licences issued by the Copyright Licensing Agency in the UK. US copyright law is applicable to users in the USA.

The Royal Society of Chemistry takes reasonable care in the preparation of this publication but does not accept liability for the consequences of any errors or omissions.

☞ The paper used in this publication meets the requirements of ANSI/NISO Z39.48–1992 (Permanence of Paper).

Royal Society of Chemistry: Registered Charity No. 207890.

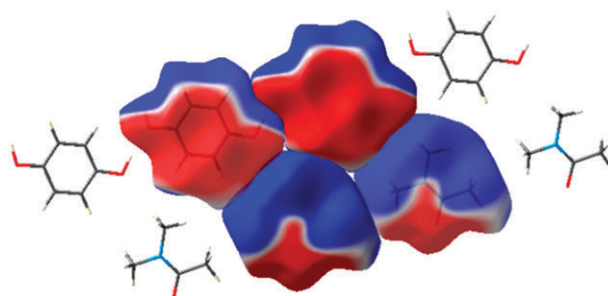
## PAPERS

193

**Three new co-crystals of hydroquinone: crystal structures and Hirshfeld surface analysis of intermolecular interactions**

Henrik F. Clausen, Marie S. Chevallier, Mark A. Spackman and Bo B. Iversen\*

Hirshfeld surface analysis is used to study the intermolecular interactions in three new co-crystals of hydroquinone. The analysis demonstrates the importance of electrostatic complementarity for packing of molecules in crystals.

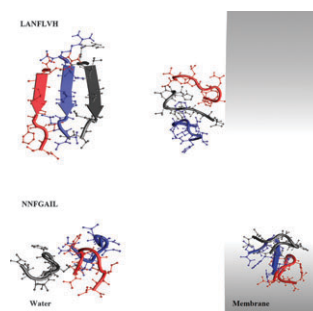


200

**Are fibril growth and membrane damage linked processes? An experimental and computational study of IAPP<sub>12–18</sub> and IAPP<sub>21–27</sub> peptides**

Michele F. M. Sciacca, Matteo Pappalardo, Francesco Attanasio, Danilo Milardi, Carmelo La Rosa and Domenico M. Grasso\*

This work demonstrates that if neutral peptides and lipids are employed, the most fibrillogenic peptide (LANFLVH) has the lowest membrane damaging effect whilst the most membrane active peptide (NNFGAIL) is less prone to form ordered amyloid-like structures.

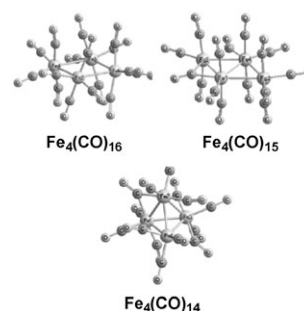


208

**Neutral homoleptic tetranuclear iron carbonyls: why haven't they been synthesized as stable molecules?**

Ting Ting Shi, Qian-Shu Li,\* Yaoming Xie, R. Bruce King\* and Henry F. Schaefer III

Tetranuclear iron carbonyls  $\text{Fe}_4(\text{CO})_n$  ( $n = 16, 15, 14$ ) are predicted to have low energy structures with rhombus, planar butterfly, and tetrahedral arrangements of the central  $\text{Fe}_4$  cluster and Fe–Fe single bond distances. An alternative low energy planar butterfly  $\text{Fe}_4(\text{CO})_{14}$  structure is also found with one short double bond  $\text{Fe}=\text{Fe}$  distance.

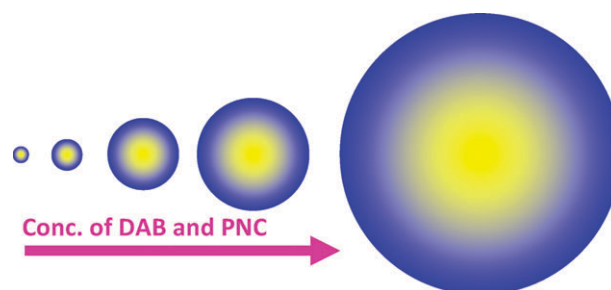


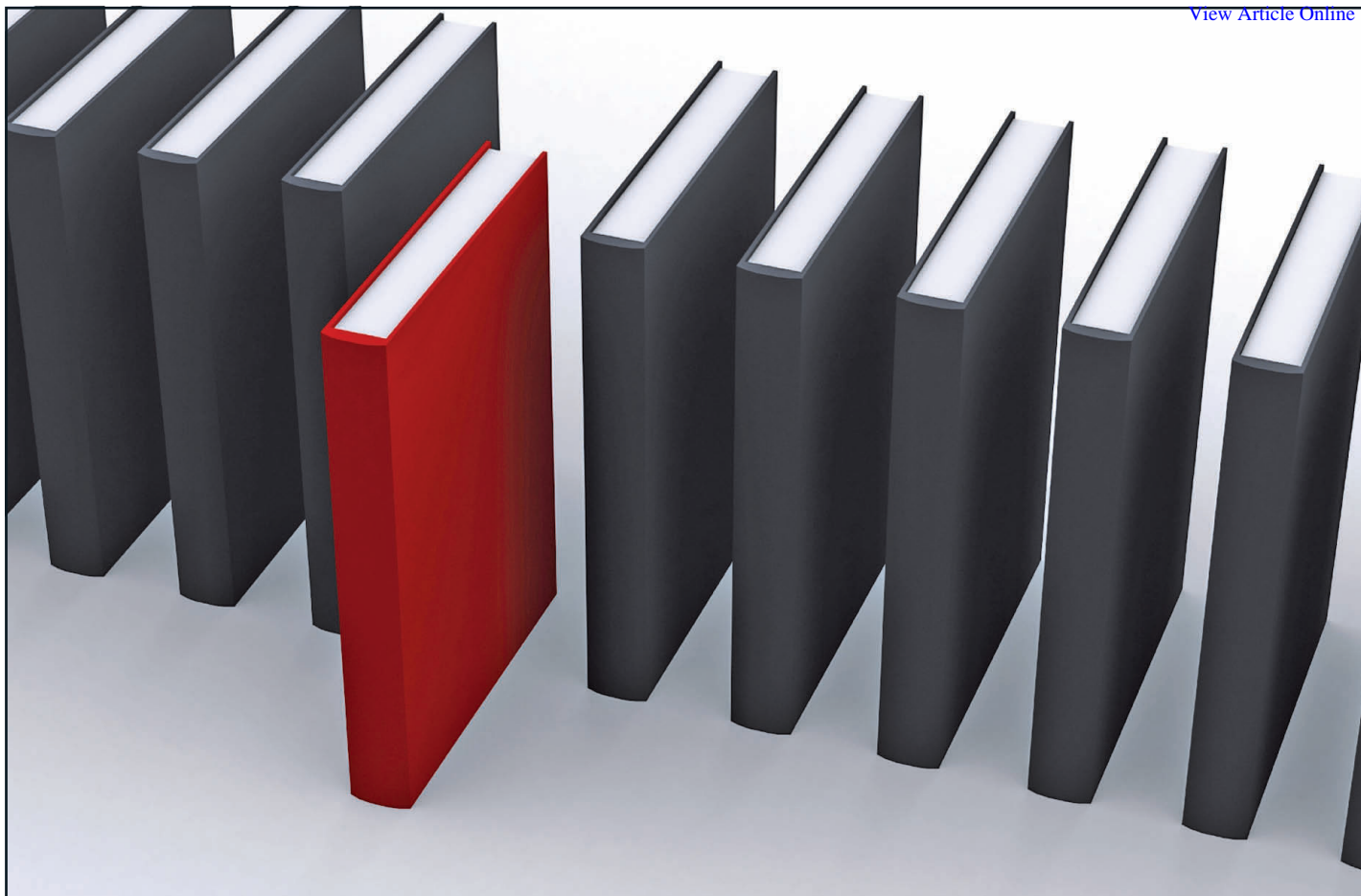
215

**Simple systematic synthesis of size-tunable covalent organophosphonitridic framework nano- and microspheres**

Paritosh Mohanty and Kai Landskron\*

Monodispersed covalent organophosphonitridic framework nano- and microspheres of sizes from 80 nm to 1.5  $\mu\text{m}$  were synthesized by varying the concentration of the reactants hexachlorocyclotriphosphazene (PNC) and 3,3'-diaminobenzidine (DAB) in DMF at a temperature of 125 °C in the presence of polyvinyl pyrrolidone.





## 'NJC book of choice'



Why not take advantage of free book chapters from the RSC? Through our 'NJC book of choice' scheme *NJC* will regularly highlight a book from the RSC eBook Collection relevant to your research interests. Read the latest chapter today by visiting the *NJC* website.

The RSC eBook Collection offers:

- Over 900 new and existing books
- Fully searchable
- Unlimited access

**Why not take a look today? Go online to find out more!**

RSC Publishing



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

Registered Charity Number 207890

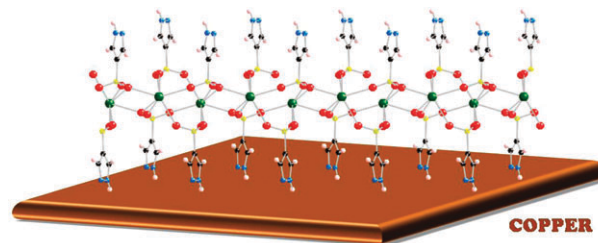


221

### Cation effect on the inorganic–organic layered structure of pyrazole-4-sulfonate networks and inhibitory effects on copper corrosion

Isurika R. Fernando, Nikos Daskalakis, Konstantinos D. Demadis\* and Gellert Mezei\*

Pyrazole-4-sulfonic acid is a versatile ligand that participates in various supramolecular interactions leading to a wide structural variety of its layered inorganic–organic metal complexes, as well as to reduced copper corrosion.

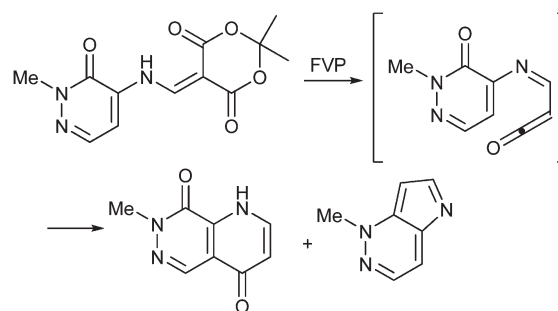


236

### Cyclisation reactions of some pyridazinylimidoalkenes

Alexander P. Gaywood, Lawrence Hill, S. Haider Imam, Hamish McNab,\* Gabor Neumajer, William J. O'Neill and Péter Mátyus\*

Flash vacuum pyrolysis (FVP) of the aminopyridazinone derivatives of Meldrum's acid at 600 °C (0.02 Torr) results in generation of an imidoalkene intermediate followed by cyclisation. The 4-amino compounds shown lead to mixtures of pyrido[2,3-*d*]pyridazines and pyrrolo[3,2-*c*]pyridazines. A suggested mechanism for the formation of the latter is supported by DFT calculations.

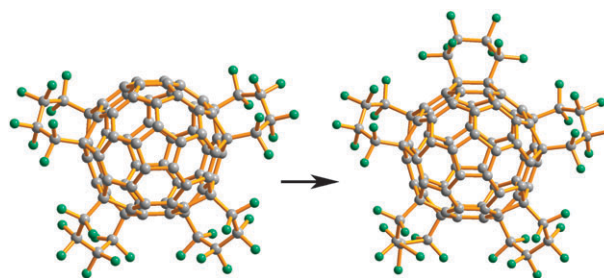


243

### Synthesis and structure of cycloperfluoroalkylated derivatives of C<sub>70</sub>, C<sub>70</sub>(C<sub>2</sub>F<sub>4</sub>) and C<sub>70</sub>(C<sub>4</sub>F<sub>8</sub>)<sub>n</sub>, n = 1–6

Natalia I. Gruzinskaya, Andrey I. Silin, Anna S. Pimenova, Pavel A. Khavrel, Vitaliy Yu. Markov, Lev N. Sidorov, Erhard Kemnitz and Sergey I. Troyanov\*

Molecular structures of new cycloperfluoroalkylated C<sub>70</sub>, C<sub>70</sub>(C<sub>2</sub>F<sub>4</sub>), C<sub>70</sub>(C<sub>4</sub>F<sub>8</sub>), C<sub>70</sub>(C<sub>4</sub>F<sub>8</sub>)<sub>2</sub>, C<sub>70</sub>(C<sub>4</sub>F<sub>8</sub>)<sub>4</sub>, C<sub>70</sub>(C<sub>4</sub>F<sub>8</sub>)<sub>5</sub>, and C<sub>70</sub>(C<sub>4</sub>F<sub>8</sub>)<sub>6</sub> were determined by single crystal X-ray diffraction and discussed in terms of their addition patterns, relative energies, and possible formation pathways (see picture).

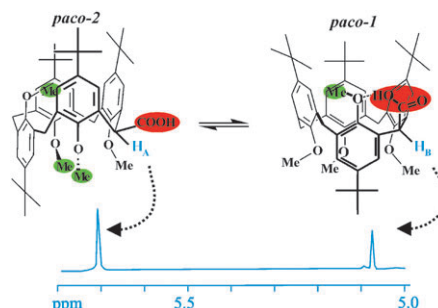


250

### Conformational behaviour and first crystal structures of a calix[4]arene featuring a laterally positioned carboxylic acid function in unsolvated and solvent-complexed forms

Tobias Gruber, Margit Gruner, Conrad Fischer, Wilhelm Seichter, Petra Bombicz and Edwin Weber\*

A calix[4]arene with a single laterally-substituted carboxylic acid group is studied, and the conformational behaviour in solution and crystal structures of the unsolvated and solvated species determined.



REGISTER BY  
1 MAY 2010  
FOR REDUCED RATES

# International Symposia on Advancing the Chemical Sciences

A new generation of global conferences

## Register now to save on delegate fees

Book your delegate place now at the inaugural events in the International Symposia on Advancing the Chemical Sciences (ISACS) - a significant new global symposia series organised by the RSC. Early booking (by 1 May 2010) ensures reduced delegate fees and discounted room rates at the conference hotel.



### Challenges in Organic Chemistry and Chemical Biology (ISACS1)

6-9 July 2010 • San Francisco, USA • [www.rsc.org/isacs1](http://www.rsc.org/isacs1)

**Speakers:** Carolyn R Bertozzi, Stephen L Buchwald, Jason W Chin, Benjamin F Cravatt, Vy M Dong, Justin Du Bois, Ben L Feringa, Linda C Hsieh-Wilson, Christopher A Hunter, Eric N Jacobsen, David W C MacMillan, Keiji Maruoka, Takashi Ooi, Andreas Pfaltz, Peter H Seeberger, Erik J Sorensen, F Dean Toste, M Christina White.



### Challenges in Physical Chemistry and Nanoscience (ISACS2)

13-16 July 2010 • Budapest, Hungary • [www.rsc.org/isacs2](http://www.rsc.org/isacs2)

**Speakers:** Mike N R Ashfold, Mounqi G Bawendi, David C Clary, Jianguo G Hou, Tianquan Lian, Kopin Liu, Daniel M Neumark, Michel Orrit, Hongkun Park, Vahid Sandoghdar, Alec M Wodtke, Martin Wolf, Toshio Yanagida, Haw Yang, Xueming Yang.



### Challenges in Inorganic and Materials Chemistry (ISACS3)

20-23 July 2010 • Hong Kong, China • [www.rsc.org/isacs3](http://www.rsc.org/isacs3)

**Speakers:** Christopher J Chang, Chi-Ming Che, Christopher C Cummins, Makoto Fujita, Michael Grätzel, Hansjörg Grützmacher, Gregory L Hillhouse, Susumu Kitagawa, Jeffrey R Long, Tetsuro Murahashi, Daniel G Nocera, Philip P Power, Manfred Scheer, Jean-Marie Tarascon, Omar M Yaghi, Bing Xu, Vivian W W Yam, Peidong Yang.

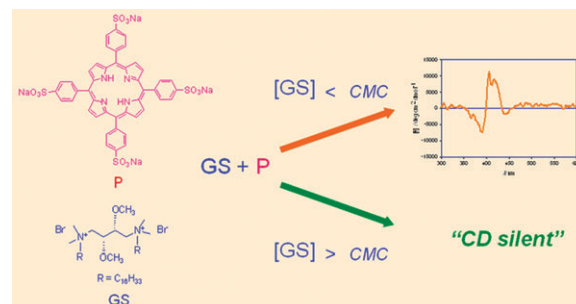
Join in – register today!

260

### Propagation of chirality from gemini surfactants to porphyrin/surfactant heteroaggregates: transcription of the stereochemical information into an organizational feature

Zoubir El-Hachemi, Giovanna Mancini,\* Josep M. Ribó and Alessandro Sorrenti

The chirality of a gemini surfactant controls the chiral morphology of porphyrins organized in H-type aggregates formed below the critical micellar concentration of the surfactant.

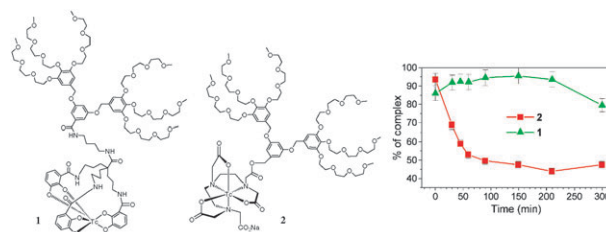


267

### Synthesis and characterization of a highly stable dendritic catechol-tripod bearing technetium-99m

Annabelle Bertin, Anne-Isabelle Michou-Gallani, Jérôme Steibel, Jean-Louis Gallani and Delphine Felder-Flesch\*

A dendritic <sup>99m</sup>Tc ligand **1** derived from a pre-organized tripodal tris-catecholamide exhibits a kinetic stability by far more important than its corresponding diethylenetriamine pentaacetic acid homologue **2**.

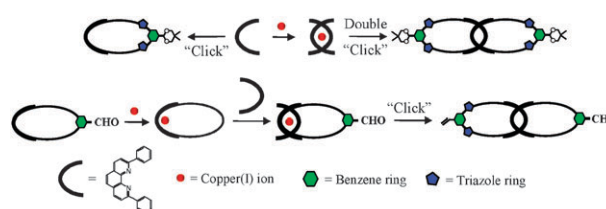


276

### Introduction of useful peripheral functional groups on [2]catenanes by combining Cu(I) template synthesis with "click" chemistry

Jackson D. Megiatto, Jr.\* and David I. Schuster\*

Two protocols based on Cu(I) template synthesis and "click" reactions for the synthesis of functionalized macrocycles and [2]catenanes are described. The introduction of peripheral functional groups into the catenane structure opens up possibilities of using these materials as building blocks for preparation of even more complex structures.

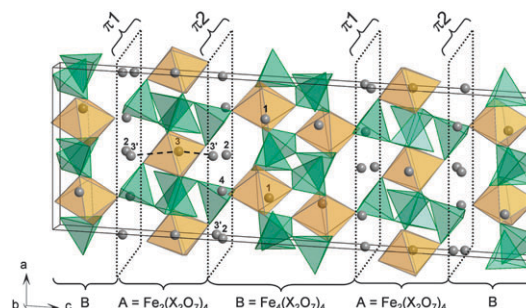


287

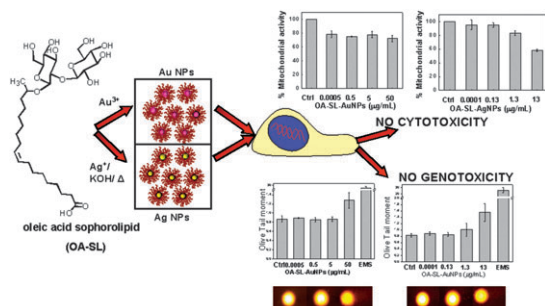
### Crystal structures and sodium/silver distributions within the ionic conductors Na<sub>5</sub>Ag<sub>2</sub>Fe<sub>3</sub>(As<sub>2</sub>O<sub>7</sub>)<sub>4</sub> and Na<sub>2</sub>Ag<sub>5</sub>Fe<sub>3</sub>(P<sub>2</sub>O<sub>7</sub>)<sub>4</sub>

Eric Quarez,\* Olivier Mentré, Karim Djellab and Christian Masquelier

Crystal structures of new Na<sub>5</sub>Ag<sub>2</sub>Fe<sub>3</sub>(As<sub>2</sub>O<sub>7</sub>)<sub>4</sub> and Na<sub>2</sub>Ag<sub>5</sub>Fe<sub>3</sub>(P<sub>2</sub>O<sub>7</sub>)<sub>4</sub> compounds are reported.



294

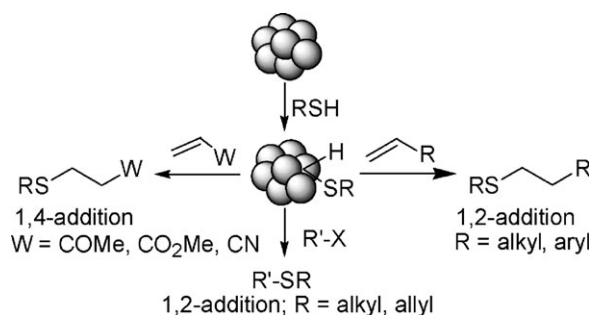


### Cytotoxic and genotoxic assessment of glycolipid-reduced and -capped gold and silver nanoparticles

Sanjay Singh, V. D'Britto, A. A. Prabhune, C. V. Ramana, Alok Dhawan\* and B. L. V. Prasad\*

No cytotoxicity and genotoxicity: sophorolipid (a class of glycolipid)-conjugated silver and gold nanoparticles do not show any cytotoxic and genotoxic effects up to 100  $\mu\text{M}$  metal concentrations.

302

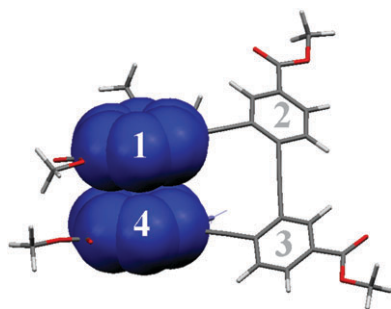


### Silica nanoparticles as a reusable catalyst: a straightforward route for the synthesis of thioethers, thioesters, vinyl thioethers and thio-Michael adducts under neutral reaction conditions

Subhash Banerjee,\* Jayanta Das, Richard P. Alvarez and Swadeshmukul Santra\*

A simple and straightforward route for the synthesis of thioethers, thioesters, vinyl thioethers and thio-Michael adducts has been demonstrated using free silica nanoparticles as a reusable catalyst *via* the 1,2-addition of thiols to alkenes, alkynes and alkyl/acyl halides, and the 1,4-addition of thiols to conjugated alkenes at room temperature.

307

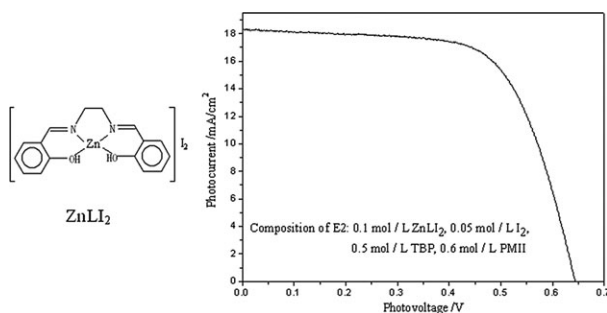


### Apolar *ortho*-phenylene ethynylene oligomers: conformational ordering without intermolecular aggregation

Jing Jiang, Morris M. Slutsky, Ticora V. Jones and Gregory N. Tew\*

Non-polar alkoxy substituted *ortho*-phenylene ethynylene (*o*-PE) oligomers with lengths up to nine units have been shown to adopt helical conformations in heptane by NMR and CD spectroscopy, while chloroform promotes extended conformations.

313



### Efficient electrolyte of *N,N'*-bis(salicylidene)ethylenediamine zinc(II) iodide in dye-sensitized solar cells

Shuming Yang,\* Huizhi Kou, Hongjun Wang, Ke Cheng and Jichao Wang

*N,N'*-Bis(salicylidene)ethylenediamine zinc(II) iodide ( $\text{ZnLI}_2$ ) was synthesized and applied as an efficient electrolyte in dye-sensitized solar cells, and found to have a photoelectric conversion efficiency of 7.75% with electrolyte E2 under 100  $\text{mW cm}^{-2}$  irradiation.



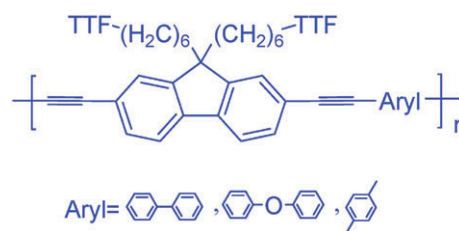
## PAPERS

318

### Conjugated ethynylene-fluorene polymers with electro-donating TTF as pendant groups: Synthesis, electrochemical and spectroscopic properties

Xuechao Zhang, Chengyun Wang,\* Guoqiao Lai, Lei Zhang and Yongjia Shen\*

A series of conjugated ethynylene-fluorene polymers with TTF as pendant groups were synthesized. These polymers exhibited good solubility and improving conductivity up to about  $1\text{--}3 \times 10^{-3} \text{ S cm}^{-1}$ .

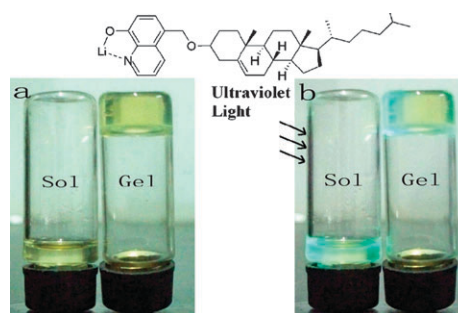


325

### Enhanced photoluminescence and the self-assembled fibrillar nanostructure of 5-(cholesteryloxy)methyl-8-hydroxyquinoline lithium in a gel state

Sheng Kong, Lixin Xiao,\* Zhijian Chen, Xingzhong Yan, Bo Qu, Shufeng Wang and Qihuang Gong\*

A soluble, highly efficient, fluorescent, organometallic gelator, LiChQ, was synthesized through the modification of LiQ with cholesterol.

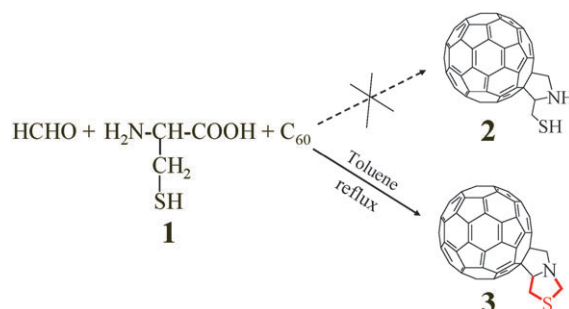


331

### One-pot synthesis of new thio-derivatives of C<sub>60</sub> with the unexpected formation of a thiazolidine-fulleropyrrolidine

Chuanbao Chen, Xiaofang Li and Shangfeng Yang\*

One-pot Prato reactions of C<sub>60</sub> with amino acids and aldehydes afford five new fullerene derivatives *via* 1,3-dipolar cycloaddition. These include the thiazolidine-fulleropyrrolidine **3**, the formation of which relies on the presence of the active S-H hydrogen in **1**.

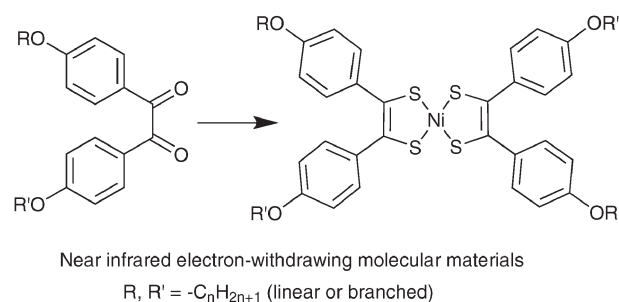


337

### Synthesis and preliminary physical properties of new neutral tetraalkoxy-substituted nickel bis(1,2-dithiolene) complexes

Thanh-Tuan Bui, Bénédicte Garreau-de Bonneval and Kathleen I. Moineau-Chane Ching\*

Nineteen neutral nickel bisdiphenylethenedithiolene complexes [Ni(dpedt)<sub>2</sub>], including seventeen new compounds, were synthesized and characterized by a new short, efficient and multigram-scale synthetic method.



# Introducing....

a new integrated publishing platform



The RSC has launched a powerful new integrated content delivery platform, providing over 165 years of world-class RSC-hosted journal, book and database content – all from one simple search. The new online resource supports multiple content types and offers rich functionality, powerful searching, simple browsing and intuitive navigation.

**search faster** ○ **navigate smarter** ○ **connect more**

RSC Publishing

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

Registered Charity Number 207890

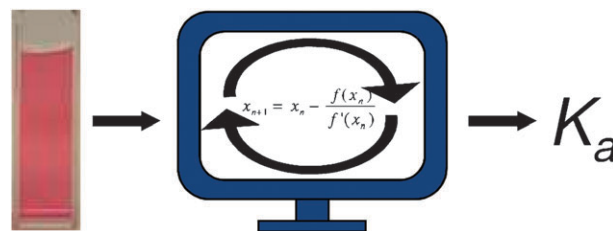
## PAPERS

348

**Algorithms for the determination of binding constants and enantiomeric excess in complex host: guest equilibria using optical measurements**

Amanda E. Hargrove, Zhenlin Zhong, Jonathan L. Sessler\* and Eric V. Anslyn\*

An iterative method using commercial software that allows for the rigorous determination of binding constants in a variety of systems, including 1:2 complexes, indicator displacement assays, and enantioselective indicator displacement assays has been developed.

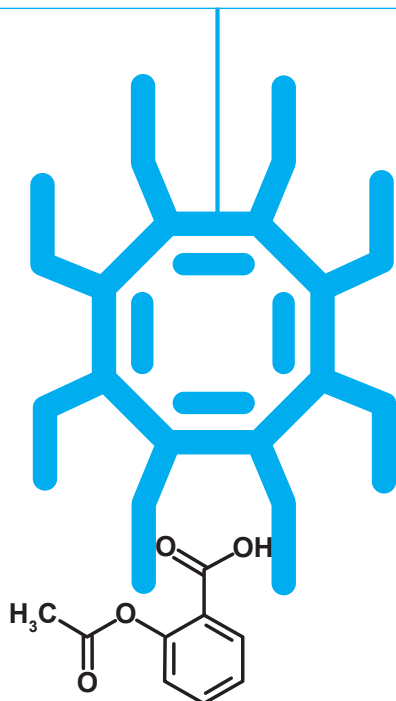
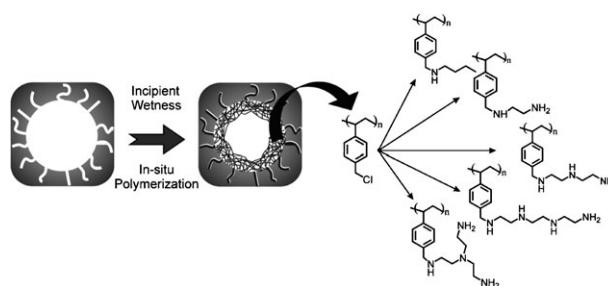


355

**Insights into pore surface modification of mesoporous polymer-silica composites: introduction of reactive amines**

Rémy Guillet-Nicolas, Louis Marcoux and Freddy Kleitz\*

Tailored mesoporous amine-functionalized polymer-silica composites are synthesized using a two-step mesopore surface-confined polymerization technique.



## New adventures on the web

ChemSpider is a free online, structure centric community for chemists, providing fast access to millions of unique chemical entities, resources and information and the opportunity to collaborate with a world wide community of scientists. Rapidly becoming the richest single source of structure based chemistry information online, ChemSpider is a ground breaking initiative now supported by the RSC, the most innovative of chemical societies.

[www.chemspider.com](http://www.chemspider.com)

## AUTHOR INDEX

- Alvarez, Richard P., 302  
 Anslyn, Eric V., 348  
 Attanasio, Francesco, 200  
 Banerjee, Subhash, 302  
 Bertin, Annabelle, 267  
 Bombicz, Petra, 250  
 Bui, Thanh-Tuan, 337  
 Campbell, Fallyn W., 187  
 Chen, Chuanbao, 331  
 Chen, Xiaodan, 190  
 Chen, Zhijian, 325  
 Cheng, Ke, 313  
 Chevallier, Marie S., 193  
 Clausen, Henrik F., 193  
 Compton, Richard G., 187  
 Das, Jayanta, 302  
 Daskalakis, Nikos, 221  
 Demadis, Konstantinos D., 221  
 Dhawan, Alok, 294  
 Djellab, Karim, 287  
 D'Britto, V., 294  
 El-Hachemi, Zoubir, 260  
 Felder-Flesch, Delphine, 267  
 Fernando, Isurika R., 221  
 Fischer, Conrad, 250  
 Gallani, Jean-Louis, 267  
 Garreau-de Bonneval, Bénédicte, 337  
 Gaywood, Alexander P., 236  
 Gong, Qihuang, 325  
 Grasso, Domenico M., 200  
 Gruber, Tobias, 250  
 Gruner, Margit, 250  
 Gruzinskaya, Natalia I., 243  
 Guillet-Nicolas, Rémy, 355  
 Hargrove, Amanda E., 348  
 Hill, Lawrence, 236  
 Imam, S. Haider, 236  
 Iversen, Bo B., 193  
 Jiang, Jing, 307  
 Jones, Ticora V., 307  
 Kemnitz, Erhard, 243  
 Khavrel, Pavel A., 243  
 King, R. Bruce, 208  
 Kleitz, Freddy, 355  
 Kong, Sheng, 325  
 Kou, Huizhi, 313  
 La Rosa, Carmelo, 200  
 Lai, Guoqiao, 318  
 Landskron, Kai, 215  
 Li, Qian-Shu, 208  
 Li, Xiaofang, 331  
 Li, Zhongshu, 190  
 Mancini, Giovanna, 260  
 Marcoux, Louis, 355  
 Markov, Vitaliy Yu., 243  
 Masquelier, Christian, 287  
 Mátyus, Péter, 236  
 McNab, Hamish, 236  
 Megiatto, Jr., Jackson D., 276  
 Mentré, Olivier, 287  
 Mezei, Gellert, 221  
 Michou-Gallani, Anne-Isabelle, 267  
 Milardi, Danilo, 200  
 Mohanty, Paritosh, 215  
 Moineau-Chane Ching, Kathleen I., 337  
 Neumajer, Gabor, 236  
 O'Neill, William J., 236  
 Pappalardo, Matteo, 200  
 Pimenova, Anna S., 243  
 Prabhune, A. A., 294  
 Prasad, B. L. V., 294  
 Qu, Bo, 325  
 Quarez, Eric, 287  
 Ramana, C. V., 294  
 Ribó, Josep M., 260  
 Santra, Swadeshmukul, 302  
 Schaefer III, Henry F., 208  
 Schuster, David I., 276  
 Sciacca, Michele F. M., 200  
 Seichter, Wilhelm, 250  
 Sessler, Jonathan L., 348  
 Shen, Yongjia, 318  
 Shi, Ting Ting, 208  
 Sidorov, Lev N., 243  
 Silin, Andrey I., 243  
 Singh, Sanjay, 294  
 Slutsky, Morris M., 307  
 Sorrenti, Alessandro, 260  
 Spackman, Mark A., 193  
 Steibel, Jérôme, 267  
 Sun, Baiwang, 190  
 Tew, Gregory N., 307  
 Troyanov, Sergey I., 243  
 Wang, Chengyun, 318  
 Wang, Hongjun, 313  
 Wang, Jichao, 313  
 Wang, Shufeng, 325  
 Weber, Edwin, 250  
 Xiao, Lixin, 325  
 Xie, Yaoming, 208  
 Yan, Xingzhong, 325  
 Yang, Shangfeng, 331  
 Yang, Shuming, 313  
 Zhang, Lei, 190  
 Zhang, Lei, 318  
 Zhang, Xuechao, 318  
 Zhao, Qihua, 190  
 Zhong, Zhenlin, 348  
 Zhou, Yi-Ge, 187

## FREE E-MAIL ALERTS AND RSS FEEDS

Contents lists in advance of publication are available on the web *via* [www.rsc.org/njc](http://www.rsc.org/njc) – or take advantage of our free e-mail alerting service ([www.rsc.org/ej\\_alert](http://www.rsc.org/ej_alert)) to receive notification each time a new list becomes available.



Try our RSS feeds for up-to-the-minute news of the latest research. By setting up RSS feeds, preferably using feed reader software, you can be alerted to the latest Advance Articles published on the RSC web site. Visit [www.rsc.org/publishing/technology/rss.asp](http://www.rsc.org/publishing/technology/rss.asp) for details.

## ADVANCE ARTICLES AND ELECTRONIC JOURNAL

Free site-wide access to Advance Articles and the electronic form of this journal is provided with a full-rate institutional subscription. See [www.rsc.org/ejs](http://www.rsc.org/ejs) for more information.

\* Indicates the author for correspondence: see article for details.



Electronic supplementary information (ESI) is available *via* the online article (see <http://www.rsc.org/esi> for general information about ESI).