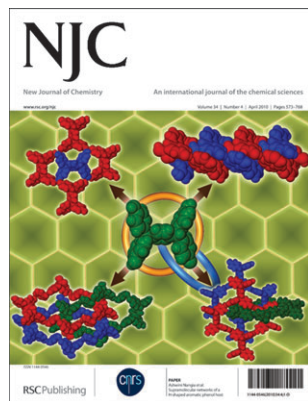


## IN THIS ISSUE

ISSN 1144-0546 CODEN NJCHES 34(4) 573-768 (2010)



## Cover

See Ashwini Nangia *et al.*, pp. 623-636.  
Rare topologies in organic networks. Artwork prepared by Ranjit Thakuria. Ranjit Thakuria, Bipul Sarma and Ashwini Nangia, *New J. Chem.*, 2010, **34**, 623.

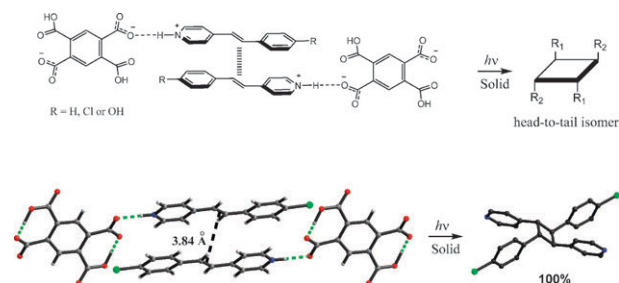
## LETTERS

587

## Solid-state synthesis of head-to-tail photodimers from supramolecular assemblies directed by charge-assisted hydrogen bonds

Maholy Linares and Alexander Briceño\*

A supramolecular approach based on the self-assembly of a hydrogen bonding switch with unsaturated pyridyl compounds is exploited in order to drive the topochemical synthesis of head-to-tail photodimers *via* charge-assisted hydrogen bonds.

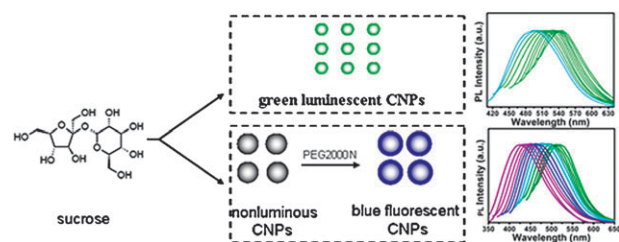


591

## Controlled synthesis of green and blue luminescent carbon nanoparticles with high yields by the carbonization of sucrose

Jingchun Zhang, Wenqing Shen, Dengyu Pan,\* Zongwen Zhang, Yaoguo Fang and Minghong Wu\*

A facile route to ultrasmall green luminescent (1-2 nm) and blue luminescent (4-5 nm) CNPs has been developed. Luminescent CNPs with high yields (~50%) are reported for the first time.



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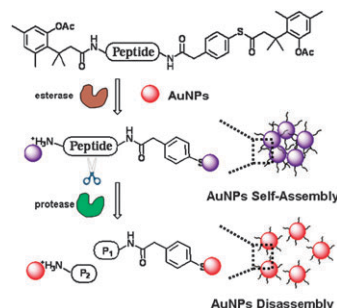
## LETTERS

594

**Novel trimethyl lock based enzyme switch for the self-assembly and disassembly of gold nanoparticles**

Rongrong Liu, Junxin Aw, Weiling Teo, Parasuraman Padmanabhan and Bengang Xing\*

A novel dual enzyme-responsive gold nanoparticles (GNPs) conjugate was developed to control the self-assembly and disassembly of GNPs in the one population of nanoparticles. The process can be monitored by the naked eye, simple spectrophotometer and SERS measurements.

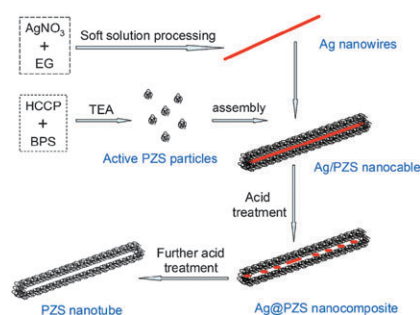


599

**The controlled preparation of cross-linked polyphosphazene nanotubes of high stability via a sacrificial template route**

Jianwei Fu,\* Jiafu Chen, Zhimin Chen, Qun Xu,\* Xiaobin Huang and Xiaozhen Tang

Cross-linked polyphosphazene nanotubes of high stability were successfully prepared by using Ag nanowires as a sacrificial template. The wall thickness and inner diameter of the as-synthesized nanotubes could be easily controlled.

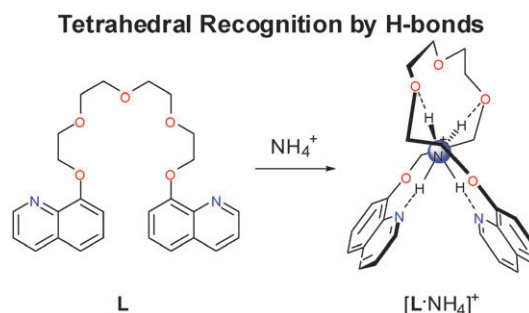


603

**Surprisingly stable ammonium ion complex of a non-cyclic crown-type polyether: solid and solution studies**

Ki-Min Park,\* Hyun Jee Kim, Suk-Hee Moon, Jagadees J. Vittal, Jong Hwa Jung and Shim Sung Lee\*

Non-cyclic receptor (L) forms a more stable complex with NH<sub>4</sub><sup>+</sup> than does 18-crown-6 by the formation of unique recognition tetrahedral-type hydrogen bonds.

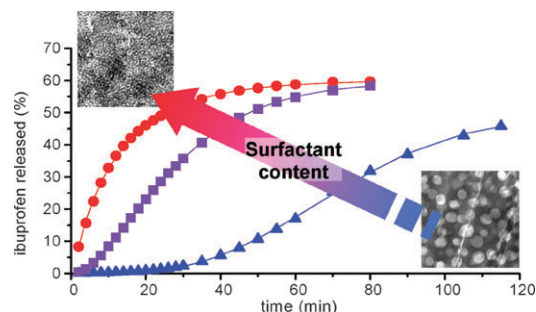


607

**Tuning nanophase separation and drug delivery kinetics through spray drying and self-assembly**

Mohamed Fatnassi, Corine Tourné-Péteilh, Thomas Cacciaguerra, Philippe Dieudonné, Jean-Marie Devoisselle and Bruno Alonso\*

For the first time, a new one-pot synthesis route associating sol-gel, self-assembly and spray drying allows the formation of microspheres with tuneable textures (worm-like mesophases, drug nanodomains, core-shell organisation) and drug delivery properties (from burst to delayed release).





# Fifth International Symposium on Macrocylic and Supramolecular Chemistry ISMSC 2010

June 6 - 10, 2010, Nara (Japan)

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Mitsuhiko Shionoya (Tokyo, Japan)

## Invited Speakers

Takuzo Aida / Cornelia Bohne / David Dearden /  
Harry Anderson / Lee Cronin / Philip Gale /  
Shinji Inagaki / Kimoon Kim / Nobuo Kimizuka /  
Hiroshi Kitagawa / Jeffery Moore / Achim Müller /  
Colin Nuckolls / Hiroyuki Noji / V. Ramamurthy /  
Julius Rebek, Jr. / Jean-Pierre Sauvage / Jonathan Sessler /  
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In 2006, the International Symposium on Macrocyclic Chemistry (established in 1977) and the International Symposium on Supramolecular Chemistry (established in 1980) were merged in a constructive way to establish ISMSC. Since then, ISMSC has been the largest symposium in the fields of macrocyclic chemistry and supramolecular chemistry.



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Regular Registration: May, 15th  
Abstract submission: May, 15th

For registration, abstract submission  
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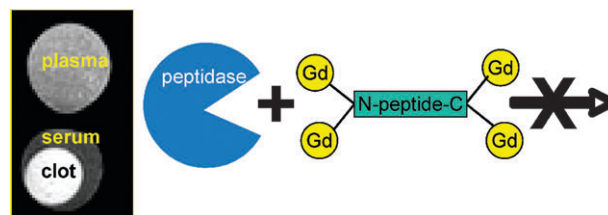
## LETTERS

611

**Effect of peptide-chelate architecture on the metabolic stability of peptide-based MRI contrast agents**

Zhaoda Zhang, Andrew F. Kolodziej, Jianfeng Qi, Shrikumar A. Nair, Xifang Wang, April W. Case, Matthew T. Greenfield, Philip B. Graham, Thomas J. McMurtry and Peter Caravan\*

Conjugating 2 GdDTPA moieties to both the C- and N-terminus of a fibrin-specific peptide blocks peptidase degradation of the compound (right), while boosting the MRI signal and enabling blood clots to be visualized by MRI (left).



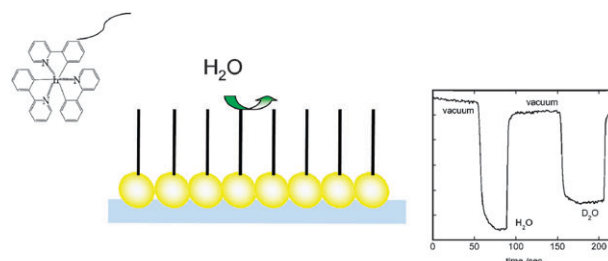
## PAPERS

617

**Highly luminescent Langmuir–Blodgett films of amphiphilic Ir(III) complexes for application in gas sensing**

Hisako Sato,\* Kenji Tamura, Masahiro Taniguchi and Akihiko Yamagishi

Langmuir–Blodgett films of an amphiphilic Ir(III) complex.



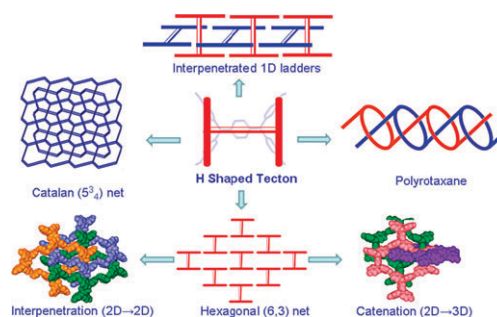
Langmuir–Blodgett films of Amphiphilic Ir(III) complex

623

**Supramolecular networks of a H-shaped aromatic phenol host**

Ranjit Thakuria, Bipul Sarma and Ashwini Nangia\*

Solvents and cocrystal formers give a variety of hydrogen bond network architectures to a H-shaped tetraphenol tecton, notably novel examples of interpenetrated ladders, pentagonal Catalan nets, interpenetration and catenation in hexagonal (6,3) nets, and polyrotaxane threading.

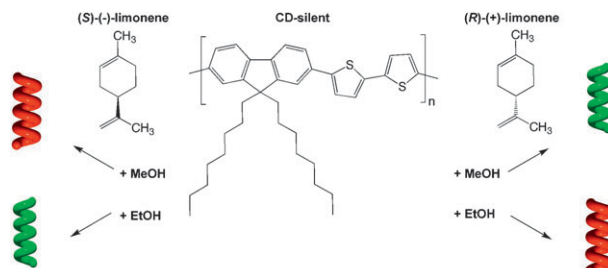


637

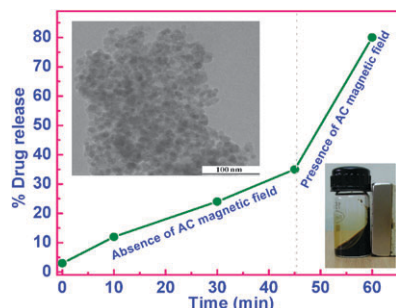
**Limonene magic: noncovalent molecular chirality transfer leading to ambidextrous circularly polarised luminescent  $\pi$ -conjugated polymers**

Yoshifumi Kawagoe, Michiya Fujiki\* and Yoko Nakano

Mirror imaged limonenes as chiral solvents with the help of alkanols allowed for the successful production of three ambidextrous polymer particles from the corresponding achiral  $\pi$ -conjugated polymers.



648

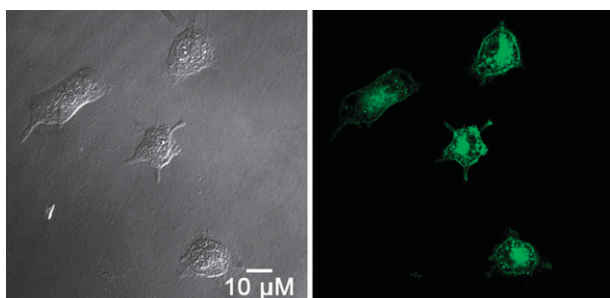


### Dendritic magnetite nanocarriers for drug delivery applications

Sudeshna Chandra, Shailee Mehta, Saumya Nigam and D. Bahadur\*

An efficient biocompatible dendritic magnetite nanocarrier for drug delivery has been fabricated by a facile approach, which can also be used as platform technology for next-generation combined therapy of hyperthermia and chemotherapy.

656

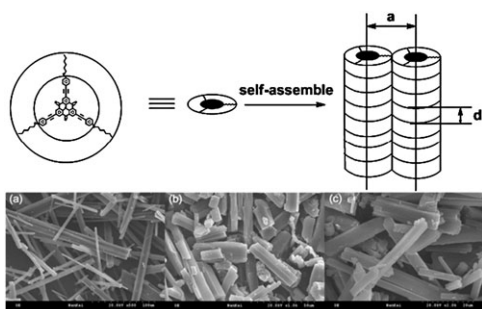


### A charge transfer type pH responsive fluorescent probe and its intracellular application

Zhipeng Liu, Changli Zhang, Weijiang He,\* Fang Qian, Xiaoliang Yang, Xiang Gao and Zijian Guo\*

A new charge transfer pH fluorescent probe **BTP** has been prepared by the ethylene bridging of benzothiazole and pyridine.

661

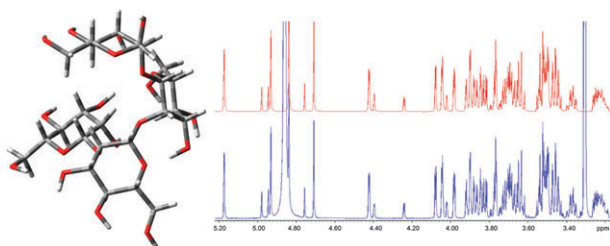


### Self-assembly based on heterotriangulene derivatives: from nanowires to microrods

Xiangjian Wan, Huaqiang Zhang, Yanqin Li and Yongsheng Chen\*

A two level self-assembly from nanowires to microrods based on a heterotriangulene derivative was reported. The  $\pi$ - $\pi$  stacking interactions of the cores and the hydrophobic interactions of alkyl chains with solvent molecules are the main driving forces for these two processes.

667



### Fully deprotected $\beta$ -(1→2)-mannotetraose forms a contorted $\alpha$ -helix in solution: convergent synthesis and conformational characterization by NMR and DFT

Filip S. Ekholm, Jari Sinkkonen and Reko Leino\*

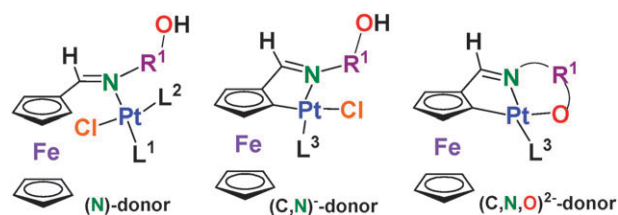
A convergent synthesis, complete NMR spectroscopic characterization and a conformational study of a  $\beta$ -(1→2)-mannotetraose is presented.

676

**Influence of the substituent  $R^1$  on the reactivity of  $[(\eta^5\text{-C}_5\text{H}_5)\text{Fe}\{(\eta^5\text{-C}_5\text{H}_4)\text{-CH=N-(R}^1\text{)-OH}\}]$   $\{R^1 = \text{-CH}_2\text{-CH}_2\text{- or 1,2-C}_6\text{H}_4\}$  with platinum(II) and on the properties of the complexes**

Concepción López,\* Sonia Pérez, Xavier Solans, Mercè Font-Bardía and Teresa Calvet

The effect of  $R^1$  on the properties and reactivity of platinum(II) complexes derived from ferrocenyliminoalcohols acting as (N),  $[\text{C}(\text{sp}^2, \text{ferrocene}), \text{N}]^-$  or  $[\text{C}(\text{sp}^2, \text{ferrocene}), \text{N}]^{2-}$  ligands is studied.

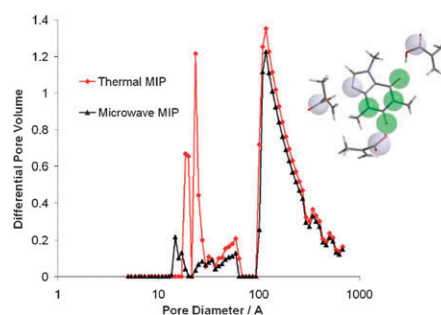


686

**Microwave induced MIP synthesis: comparative analysis of thermal and microwave induced polymerisation of caffeine imprinted polymers**

Nicholas W. Turner, Clovia I. Holdsworth, Scott W. Donne, Adam McCluskey and Michael C. Bowyer\*

Identically formulated, caffeine imprinted polymers were prepared by thermal and rapid microwave polymerization. The binding characteristics and physical properties of each system were assessed and compared.

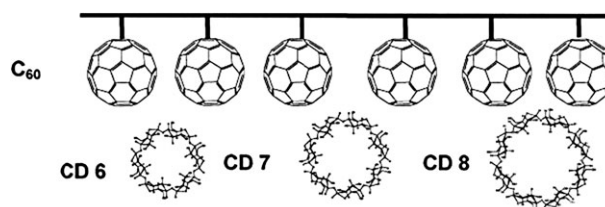


693

**Reciprocal principle of molecular recognition in supramolecular chromatography—highly selective analytical separation of cyclodextrin congeners on a silica-bonded [60]fullerene stationary phase**

Anja Bogdanski, Dorothee Wistuba, Kim L. Larsen, Uwe Hartnagel, Andreas Hirsch and Volker Schurig\*

Small-to-large-ring cyclodextrins were chromatographed on silica-bonded [60]fullerene using the concept of reciprocal molecular recognition in liquid chromatography.

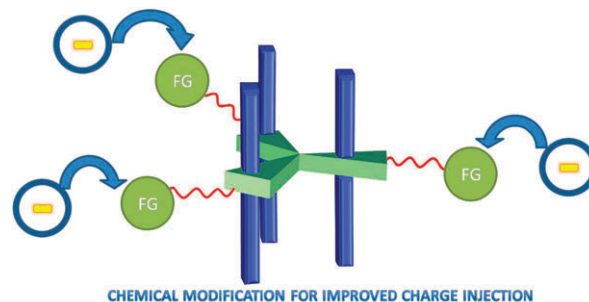


699

**Highly stable blue light-emitting materials with a three-dimensional architecture: improvement of charge injection and electroluminescence performance**

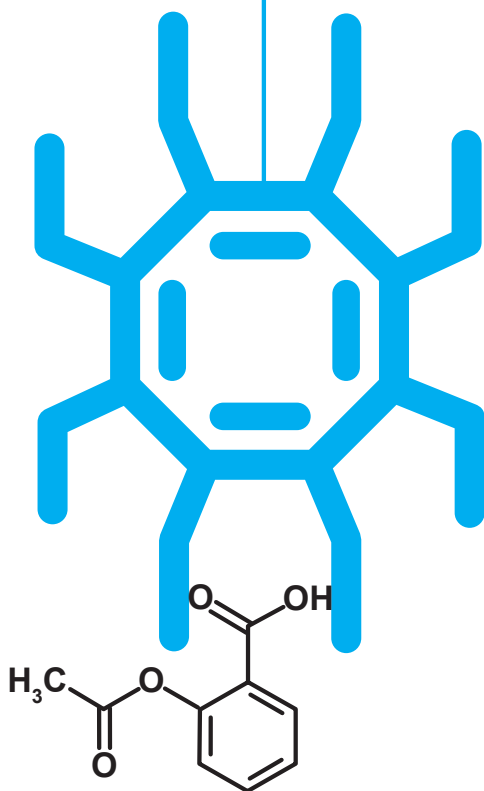
Ting Lei, Jia Luo, Lei Wang, Yuguo Ma, Jian Wang, Yong Cao\* and Jian Pei\*

Enhanced injection! Two classes of blue emitters bearing electron-rich or electron-deficient units were developed for enhanced organic light-emitting diodes.





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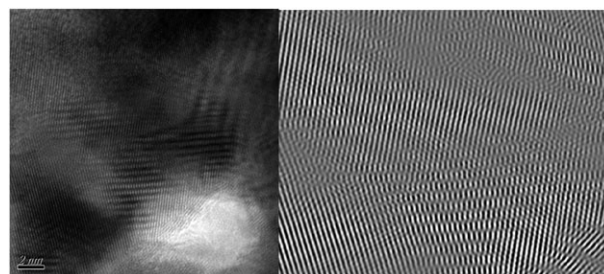
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708

### Preparation of nickel nanoparticles with different sizes and structures and catalytic activity in the hydrogenation of *p*-nitrophenol

Aili Wang, Hengbo Yin,\* Min Ren, Huihong Lu, Jinjuan Xue and Tingshun Jiang

Inverse FFT image of nickel nanoparticles with dislocations prepared by using sodium dodecyl sulfonate as an organic modifier.

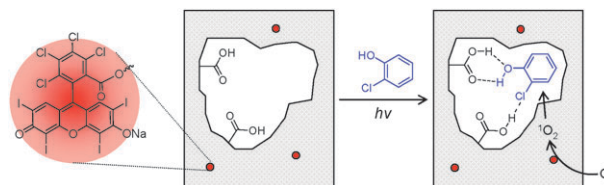


714

### Selective photooxidation of chlorophenols with molecularly imprinted polymers containing a photosensitizer

Yasuhiro Shiraishi,\* Takeshi Suzuki and Takayuki Hirai

Molecularly imprinted polymers containing rose bengal promote selective photooxidation of target chlorophenol by singlet oxygen due to the selective attraction of the target chlorophenol by the molecular recognition site.

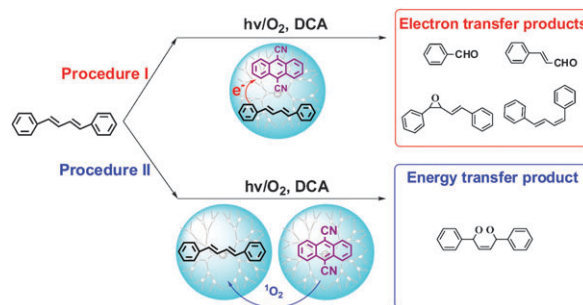


718

### Photosensitized oxidation of alkenes with dendrimers as microreactors: controllable selectivity between energy and electron transfer pathway

Zhao Yuan, Shaojun Zheng, Yi Zeng, Jinping Chen, Yongbin Han,\* Yingying Li and Yi Li\*

Carboxylic acid terminated poly(aryl ether) dendrimers were used as microreactors to successfully control the pathways of the photooxidation of *trans*-stilbene and *trans,trans*-1,4-diphenyl-1,3-butadiene (DPB) sensitized by 9,10-dicyano-anthracene (DCA).

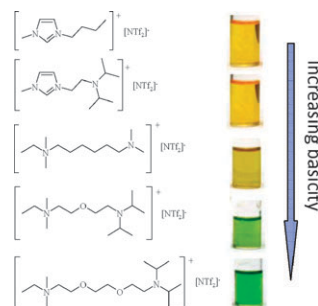


723

### Functionalised ionic liquids: synthesis of ionic liquids with tethered basic groups and their use in Heck and Knoevenagel reactions

Stewart A. Forsyth, Ute Fröhlich, Peter Goodrich, H. Q. Nimal Gunaratne, Christopher Hardacre,\* Angela McKeown and Kenneth R. Seddon\*

Ionic liquids bearing nucleophilic and non-nucleophilic base functionalities have been prepared and their relative basicity examined using both their interaction with universal indicator and their activity for Heck and Knoevenagel reactions.



732

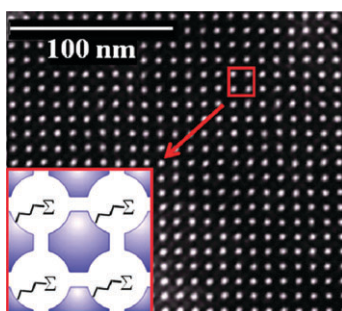


### Controllable hydrothermal synthesis, growth mechanism, and properties of ZnO three-dimensional structures

Yangang Sun, Junqing Hu,\* Na Wang, Rujia Zou, Jianghong Wu, Yuelin Song, Haihua Chen, Huihui Chen and Zhigang Chen

A series of three-dimensional (3D) ZnO structures, including flower-like, star-like, sphere-like and sea urchin-like morphologies, have been fabricated by a well-controlled hydrothermal method. The formation mechanism is proposed and their optical properties are examined.

738

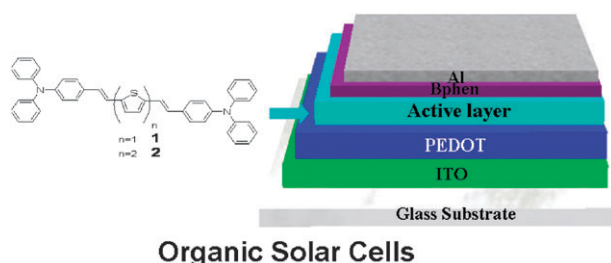


### Generic way for functionalised well-ordered cubic mesoporous silica *via* direct synthesis approach

Arnaud Boullanger, Johan Alauzun, Ahmad Mehdi,\* Catherine Reyé and Robert J. P. Corriu

Highly ordered functionalised and surfactant-free cubic mesoporous silicas were obtained in one step by co-condensation of TEOS and an organotrialkoxysilane  $(\text{RO})_3\text{Si}(\text{CH}_2)_3\Sigma$  ( $\Sigma = \text{CN}, \text{SH}, \text{CH}_3\text{COCHCOCH}_3, \text{PO}(\text{OEt})_2$ ) in the presence of the triblock copolymer F127 as structure-directing agent.

744

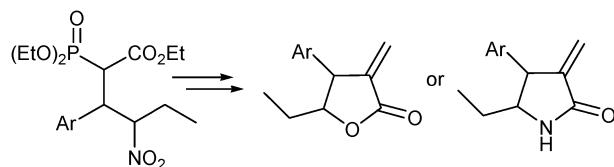


### Solution processable donor materials based on thiophene and triphenylamine for bulk heterojunction solar cells

Jongchul Kwon, Woochul Lee, Ji-young Kim, Seunguk Noh, Changhee Lee and Jong-In Hong\*

Solution processable and thermally stable donor materials based on thiophene and triphenylamine were synthesized for bulk heterojunction solar cells. The best device performance exhibited maximum power conversion efficiency of 0.34%, under simulated AM 1.5 solar irradiation at  $100 \text{ mW cm}^{-2}$ .

750



### A convenient synthesis and cytotoxic evaluation of $\beta$ -aryl- $\alpha$ -methylidene- $\gamma$ -lactones and $\beta$ -aryl- $\alpha$ -methylidene- $\gamma$ -lactams

Anna Albrecht, Łukasz Albrecht, Marek Róžalski, Urszula Krajewska, Anna Janecka, Kazimierz Studzian and Tomasz Janecki\*

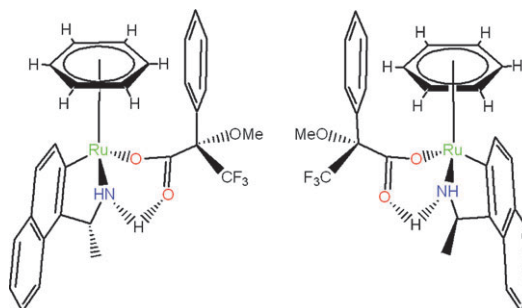
New  $\beta$ -aryl- $\gamma$ -ethyl- $\alpha$ -methylidene- $\gamma$ -lactones and  $\beta$ -aryl- $\gamma$ -ethyl- $\alpha$ -methylidene- $\gamma$ -lactams were synthesized and evaluated for their cytotoxic activity.



## Enantioselective recognition of chiral carboxylic anions by a ruthenacyclic receptor

Pape Sylla Dieng, Claude Sirlin\* and Michel Pfeffer

A ruthenacyclic complex based on the  $\text{Ru}^+ - \text{NH}$  unit, chiral at the metal centre, was shown to complex and discriminate two enantiomeric carboxylic substrates. Due to the configurationally labile metal centre, the two (*R*) and (*S*) substrates are bound, but each specifically to one stereoisomer of the receptor.



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## AUTHOR INDEX

- Alauzun, Johan, 738  
 Albrecht, Anna, 750  
 Albrecht, Lukasz, 750  
 Alonso, Bruno, 607  
 Aw, Junxin, 594  
 Bahadur, D., 648  
 Bogdanski, Anja, 693  
 Boullanger, Arnaud, 738  
 Bowyer, Michael C., 686  
 Briceño, Alexander, 587  
 Cacciaguerra, Thomas, 607  
 Calvet, Teresa, 676  
 Cao, Yong, 699  
 Caravan, Peter, 611  
 Case, April W., 611  
 Chandra, Sudeshna, 648  
 Chen, Haihua, 732  
 Chen, Huihui, 732  
 Chen, Jiafu, 599  
 Chen, Jinping, 718  
 Chen, Yongsheng, 661  
 Chen, Zhigang, 732  
 Chen, Zhimin, 599  
 Corriu, Robert J. P., 738  
 Devoisselle, Jean-Marie, 607  
 Dieng, Pape Sylla, 762  
 Dieudonné, Philippe, 607  
 Donne, Scott W., 686  
 Ekholm, Filip S., 667  
 Fang, Yaoguo, 591  
 Fatnassi, Mohamed, 607  
 Font-Bardía, Mercè, 676  
 Forsyth, Stewart A., 723  
 Fröhlich, Ute, 723  
 Fu, Jianwei, 599  
 Fujiki, Michiya, 637  
 Gao, Xiang, 656  
 Goodrich, Peter, 723  
 Graham, Philip B., 611  
 Greenfield, Matthew T., 611  
 Gunaratne, H. Q. Nimal, 723  
 Guo, Zijian, 656  
 Han, Yongbin, 718  
 Hardacre, Christopher, 723  
 Hartnagel, Uwe, 693  
 He, Weijiang, 656  
 Hirai, Takayuki, 714  
 Hirsch, Andreas, 693  
 Holdsworth, Clovia I., 686  
 Hong, Jong-In, 744  
 Hu, Junqing, 732  
 Huang, Xiaobin, 599  
 Janecka, Anna, 750  
 Janecki, Tomasz, 750  
 Jiang, Tingshun, 708  
 Jung, Jong Hwa, 603  
 Kawagoe, Yoshifumi, 637  
 Kim, Hyun Jee, 603  
 Kim, Ji-young, 744  
 Kolodziej, Andrew F., 611  
 Krajewska, Urszula, 750  
 Kwon, Jongchul, 744  
 Larsen, Kim L., 693  
 Lee, Changhee, 744  
 Lee, Shim Sung, 603  
 Lee, Woonchul, 744  
 Lei, Ting, 699  
 Leino, Reko, 667  
 Li, Yanqin, 661  
 Li, Yi, 718  
 Li, Yingying, 718  
 Linares, Maholy, 587  
 Liu, Rongrong, 594  
 Liu, Zhipeng, 656  
 López, Concepción, 676  
 Lu, Huihong, 708  
 Luo, Jia, 699  
 Ma, Yuguo, 699  
 McCluskey, Adam, 686  
 McKeown, Angela, 723  
 McMurry, Thomas J., 611  
 Mehdi, Ahmad, 738  
 Mehta, Shailee, 648  
 Moon, Suk-Hee, 603  
 Nair, Shrikumar A., 611  
 Nakano, Yoko, 637  
 Nangia, Ashwini, 623  
 Nigam, Saumya, 648  
 Noh, Seunguk, 744  
 Padmanabhan, Parasuraman, 594  
 Pan, Dengyu, 591  
 Park, Ki-Min, 603  
 Pei, Jian, 699  
 Pérez, Sonia, 676  
 Pfeffer, Michel, 762  
 Qi, Jianfeng, 611  
 Qian, Fang, 656  
 Ren, Min, 708  
 Reyé, Catherine, 738  
 Róźalski, Marek, 750  
 Sarma, Bipul, 623  
 Sato, Hisako, 617  
 Schurig, Volker, 693  
 Seddon, Kenneth R., 723  
 Shen, Wenqing, 591  
 Shiraishi, Yasuhiro, 714  
 Sinkkonen, Jari, 667  
 Sirlin, Claude, 762  
 Solans, Xavier, 676  
 Song, Yuelin, 732  
 Studzian, Kazimierz, 750  
 Sun, Yangang, 732  
 Suzuki, Takeshi, 714  
 Tamura, Kenji, 617  
 Tang, Xiaozhen, 599  
 Taniguchi, Masahiro, 617  
 Teo, Weiling, 594  
 Thakuria, Ranjit, 623  
 Tourné-Péteilh, Corine, 607  
 Turner, Nicholas W., 686  
 Vittal, Jagadeś J., 603  
 Wan, Xiangjian, 661  
 Wang, Aili, 708  
 Wang, Jian, 699  
 Wang, Lei, 699  
 Wang, Na, 732  
 Wang, Xifang, 611  
 Wistuba, Dorothee, 693  
 Wu, Jianghong, 732  
 Wu, Minghong, 591  
 Xing, Bengang, 594  
 Xu, Qun, 599  
 Xue, Jinjuan, 708  
 Yamagishi, Akihiko, 617  
 Yang, Xiaoliang, 656  
 Yin, Hengbo, 708  
 Yuan, Zhao, 718  
 Zeng, Yi, 718  
 Zhang, Changli, 656  
 Zhang, Huaqiang, 661  
 Zhang, Jingchun, 591  
 Zhang, Zhaoda, 611  
 Zhang, Zongwen, 591  
 Zheng, Shaojun, 718  
 Zou, Rujia, 732

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