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## IN THIS ISSUE

ISSN 1359-7345 CODEN CHCOFS (20) 1973–2088 (2007)



### Cover

See Iris Aviv and Zeev Gross, page 1987.

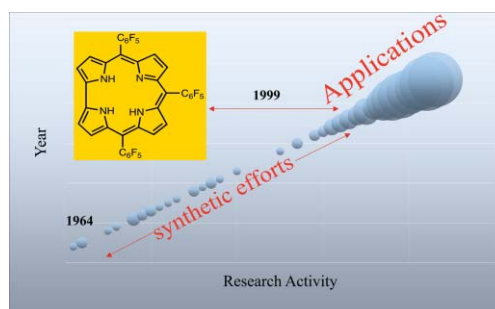
The cover depicts the developments in corrole chemistry: from 1964 (first reported derivative) and 1971 (first X-ray structure) through 1999 (first one-pot synthesis) to recent applications in medicine, solar cells, catalysis and more. Image reproduced by permission of Iris Aviv and Zeev Gross, from *Chem. Commun.*, 2007, 1987.

## FEATURE ARTICLES

1987

### Corrole-based applications

Iris Aviv and Zeev Gross\*

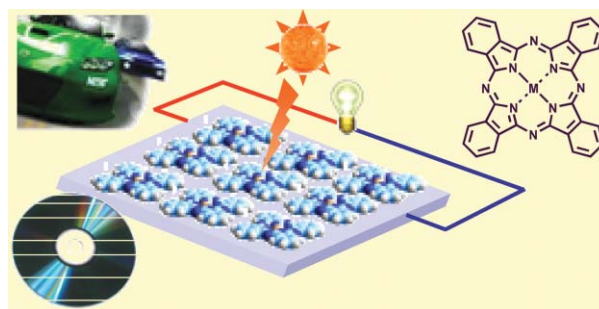


2000

### Phthalocyanines: old dyes, new materials. Putting color in nanotechnology

Gema de la Torre, Christian G. Claessens and Tomás Torres\*

Since their discovery in the 1930s, phthalocyanines have experienced a renaissance and they are, nowadays, essential components in many technological applications.



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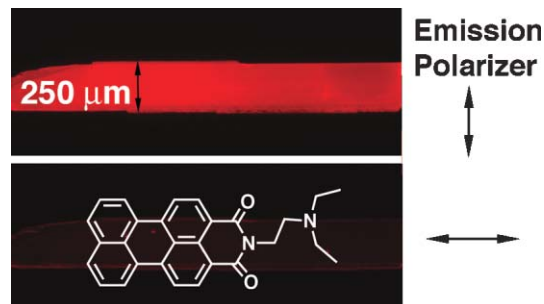
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2016

### Anisotropic fluorescent materials *via* self-organization of perylenedicarboximide

Liming Huang, Vincent J. Catalano and Suk-Wah Tam-Chang\*

We report the self-organization of a perylenedicarboximide to produce materials that exhibit dichroic (direction-dependent) absorption and anisotropic fluorescence emission of visible light.

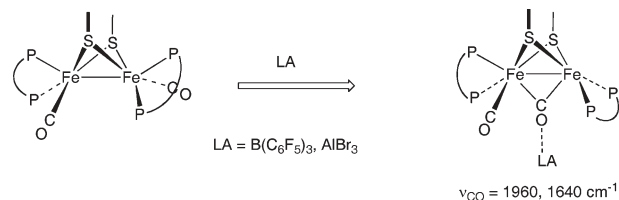


2019

### Lewis *vs.* Brønsted-basicities of diiron dithiolates: spectroscopic detection of the “rotated structure” and remarkable effects of ethane- *vs.* propane-dithiolate

Aaron K. Justice,\* Giuseppe Zampella, Luca De Gioia\* and Thomas B. Rauchfuss\*

The new complexes  $\text{Fe}_2(\text{S}_2\text{C}_n\text{H}_{2n})(\text{CO})_2(\text{dppv})_2$  ( $n = 2, 3$ ;  $\text{dppv} = \text{cis-1,2-C}_2\text{H}_2(\text{PPh}_2)_2$ ) form adducts with  $\text{AlBr}_3$  and  $\text{B}(\text{C}_6\text{F}_5)_3$ , which adopt the “rotated structure” proposed for the active site of the Fe-only hydrogenases—the propane-dithiolate is significantly more basic due to nonbonded interactions between the dithiolate strap and the ligands on the Fe.

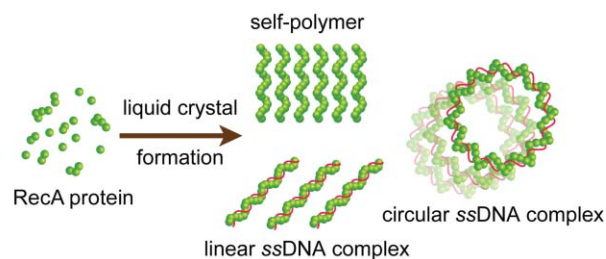


2022

### Liquid crystal formation of RecA–DNA filamentous complexes

Kento Okoshi,\* Taro Nishinaka,\* Yuko Doi, Reiko Hara, Makiko Hashimoto and Eiji Yashima\*

Spontaneous optical birefringence of RecA-bound linear and closed circular single-stranded DNA filaments, as well as RecA self-assembled polymer, was observed in aqueous buffer solutions, which demonstrates the formation of lyotropic liquid crystalline phases.

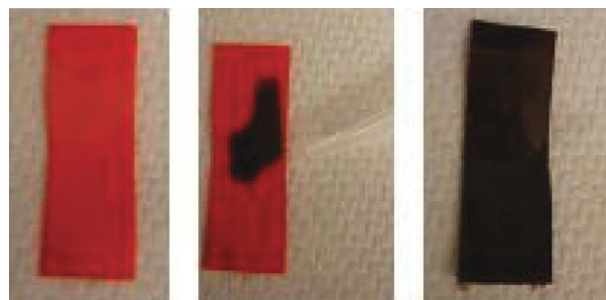


2025

### Sensor technologies based on a cellulose supported platform

Jane Holly Poplin, Richard P. Swatloski, John D. Holbrey, Scott K. Spear, Andreas Metlen, Michael Grätzel, Mohammad K. Nazeeruddin and Robin D. Rogers\*

A simple approach to sensor development based on encapsulating a probe molecule in a cellulose support followed by regeneration from an ionic liquid solution is demonstrated here with 1-(2-pyridylazo)-2-naphthol as a probe molecule for the colorimetric detection of  $\text{Hg}(\text{II})$ .



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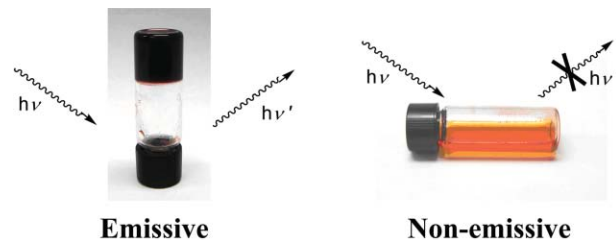
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2028

**Luminescent metallogels of platinum(II) terpyridyl complexes: interplay of metal...metal,  $\pi$ - $\pi$  and hydrophobic-hydrophobic interactions on gel formation**

Anthony Yiu-Yan Tam, Keith Man-Chung Wong, Guoxin Wang and Vivian Wing-Wah Yam\*

A series of platinum(II) terpyridyl complexes has been demonstrated to show gelation properties driven by Pt...Pt and  $\pi$ - $\pi$  interactions in addition to hydrophobic-hydrophobic interactions; counter-anions have been found to affect strongly the colour of the metallogel.

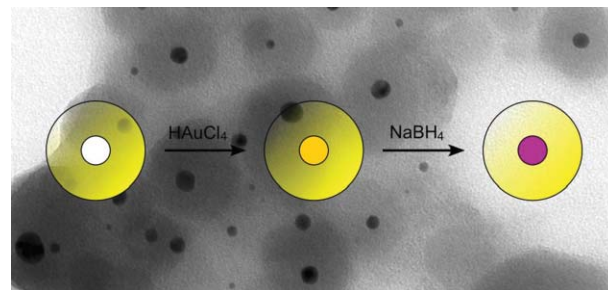


2031

**Au-silica nanoparticles by “reverse” synthesis of cores in hollow silica shells**

Sara Cavaliere-Jaricot,\* Masih Darbandi and Thomas Nann\*

Core-shell materials are typically prepared from the core to the shell(s). Conversely, this paper describes a method where the shell is prepared first and subsequently used as a template for the preparation of the core.

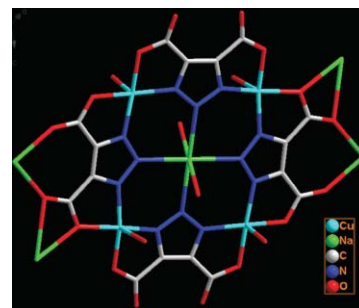


2034

**A novel three-dimensional heterometallic compound: templated assembly of the unprecedented planar “NaC[Cu4]” metalloporphyrin-like subunits**

Yan-Feng Yue, Bing-Wu Wang, En-Qing Gao, Chen-Jie Fang, Cheng He and Chun-Hua Yan\*

A 3D heterometallic  $[\text{Cu}_4\text{Na}_4(\text{TzDC})_4(\text{H}_2\text{O})_7]_n$  ( $\text{H}_3\text{TzDC}$  = 1,2,3-triazole-4,5-dicarboxylic acid), which contains unprecedented planar “NaC[Cu<sub>4</sub>]” metalloporphyrin-like subunits, was synthesized *via in situ* formation of the ligand and templated assembly of the “NaC[Cu<sub>4</sub>]” subunits.

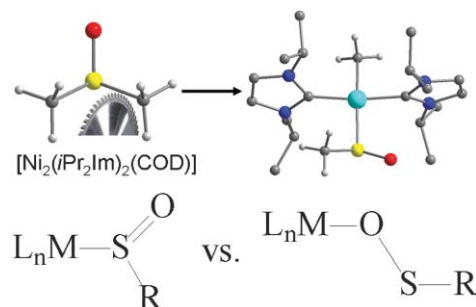


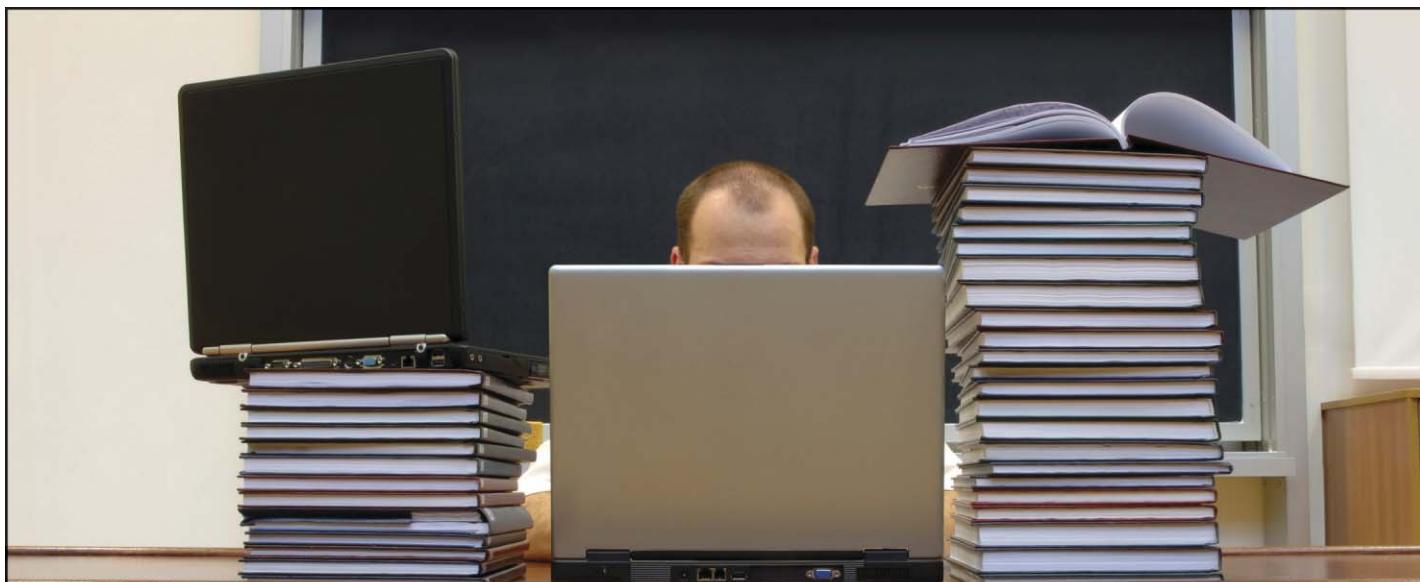
2037

**Unusual nickel-mediated C-S cleavage of alkyl and aryl sulfoxides**

Thomas Schaub, Marc Backes and Udo Radius\*

DmsO as a coordinating solvent? Not for  $[\text{Ni}_2(\text{iPr}_2\text{Im})_4(\text{COD})]$  **1**, which cleanly cleaves  $\text{sp}^2$ - and  $\text{sp}^3$ -carbon sulfur bonds of dmsO ( $\text{Me-S(O)-Me}$ ), pmsO ( $\text{Ph-S(O)-Me}$ ) and dpso ( $\text{Ph-S(O)-Ph}$ ) to afford  $[\text{Ni}(\text{iPr}_2\text{Im})_2(\text{Me})(\text{SOMe})]$  **2**,  $[\text{Ni}(\text{iPr}_2\text{Im})_2(\text{Ph})(\text{SOMe})]$  **3**, and  $[\text{Ni}(\text{iPr}_2\text{Im})_2(\text{Ph})(\text{OSPh})]$  **4**.





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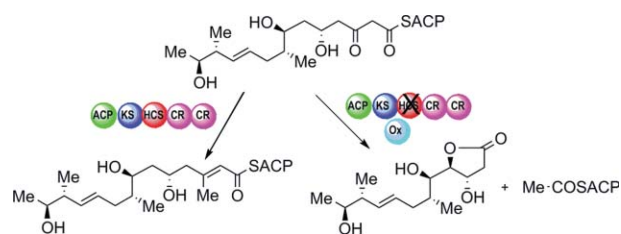
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2040

### Mupirocin H, a novel metabolite resulting from mutation of the HMG-CoA synthase analogue, *mupH* in *Pseudomonas fluorescens*

Ji'en Wu, Sian M. Cooper, Russell J. Cox, John Crosby, Matthew P. Crump, Joanne Hothersall, Thomas J. Simpson,\* Christopher M. Thomas and Christine L. Willis

Mutation of the HMG-CoA synthase encoding *mupH* gene in *Pseudomonas fluorescens* gives rise to a new metabolite formed from a truncated polyketide intermediate, providing *in vivo* evidence for the roles of *mupH* and cognate genes found in several bacterial PKS gene clusters.

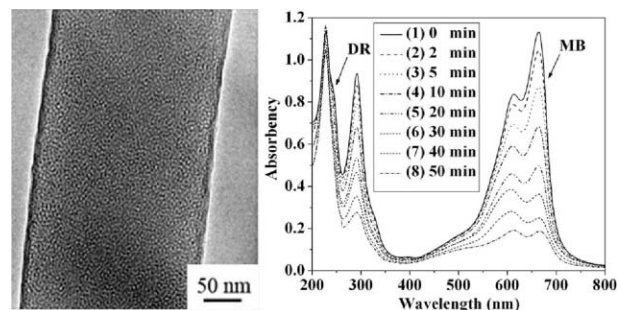


2043

### Mesoporous TiO<sub>2</sub>/SiO<sub>2</sub> composite nanofibers with selective photocatalytic properties

Sihui Zhan, Dairong Chen,\* Xiuling Jiao\* and Yang Song

Mesoporous TiO<sub>2</sub>/SiO<sub>2</sub> composite nanofibers with silica shell thickness of 5–50 nm, which exhibited selective photocatalytic activity, have been fabricated by a sol-gel combined two-capillary co-electrospinning method.

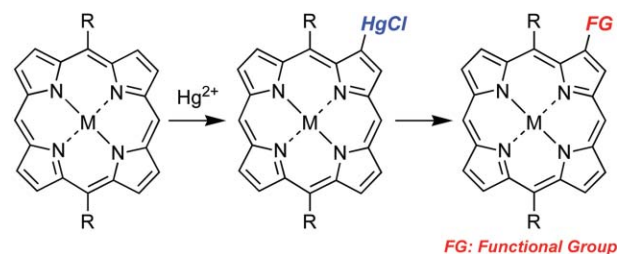


2046

### Unusual regioselective mercuration of metalloporphyrins and its potential applications

Ken-ichi Sugiura,\* Aiko Kato, Kentaro Iwasaki, Hitoshi Miyasaka, Masahiro Yamashita, Shojun Hino and Dennis P. Arnold\*

The reaction of Hg(CF<sub>3</sub>CO<sub>2</sub>)<sub>2</sub> with metalloporphyrins produces mercurated porphyrins substituted regioselectively in the most hindered β<sup>B</sup>-positions, which is in marked contrast to the meso-selectivity typical of electrophilic substitution reactions of porphyrins.

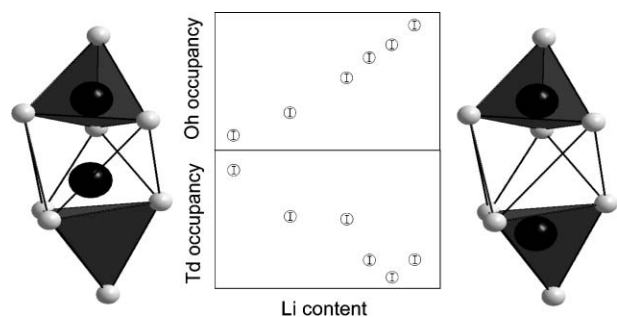


2048

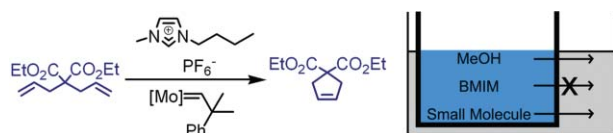
### Lithium dimer formation in the Li-conducting garnets Li<sub>5+x</sub>Ba<sub>x</sub>La<sub>3-x</sub>Ta<sub>2</sub>O<sub>12</sub> (0 < x ≤ 1.6)

Michael P. O'Callaghan and Edmund J. Cussen\*

The garnet system Li<sub>5+x</sub>Ba<sub>x</sub>La<sub>3-x</sub>Ta<sub>2</sub>O<sub>12</sub> shows an unprecedented Li<sup>+</sup> content (x ≤ 1.6) and short Li–Li distances of *ca.* 2.44 Å between majority occupied sites suggesting that the high Li<sup>+</sup> mobility requires a complex cooperative mechanism.



2051

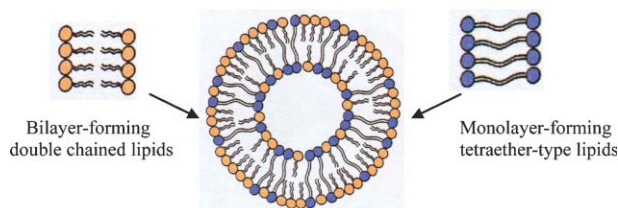


### Room temperature ionic liquids: new solvents for Schrock's catalyst and removal using polydimethylsiloxane membranes

A. Lee Miller II and Ned B. Bowden\*

A room temperature ionic liquid was used as the solvent for metathesis reactions with the Schrock catalyst. A new method to facilitate separation between small molecules and ionic liquids using polydimethylsiloxane thimbles is reported.

2054

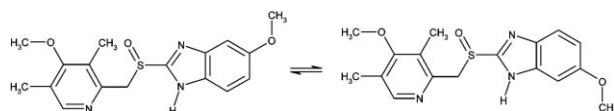


### Archaeosomes based on synthetic tetraether-like lipids as novel versatile gene delivery systems

G. Réthoré, T. Montier, T. Le Gall, P. Delépine, S. Cammas-Marion, L. Lemiègre, P. Lehn and T. Benvegna\*

Novel cationic liposomes, termed "archaeosomes", based on mixtures of neutral/cationic bilayer-forming lipids and archaeobacterial synthetic tetraether-type bipolar lipids show efficient *in vitro* gene transfection properties and represent a new approach for modulating the lipidic membrane fluidity of the complexes they form with DNA.

2057

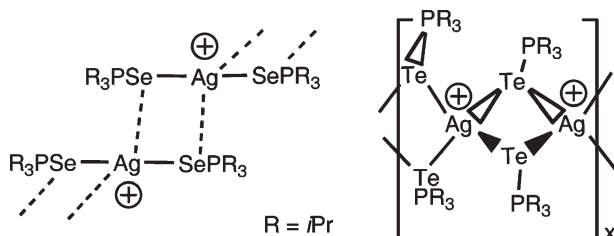


### Tautomeric polymorphism in omeprazole

Prashant M. Bhatt and Gautam R. Desiraju\*

The drug omeprazole exists in a continuous compositional range of solid solutions of two tautomers. How many polymorphs of omeprazole exist, one, two or infinite?

2060



### The first trialkylphosphane telluride complexes of Ag(I): molecular, ionic and supramolecular structural alternatives

Constantin Daniliuc, Christian Druckenbrodt, Cristian G. Hrib, Frank Ruthe, Armand Blaschette, Peter G. Jones and Wolf-W. du Mont\*

As a bridging ligand toward Ag(I), *i*Pr<sub>3</sub>PTe is superior to *i*Pr<sub>3</sub>PE (E = S, Se). In contrast to weak Ag⋯E contacts between linear cations in solid [(*i*Pr<sub>3</sub>PE)<sub>2</sub>Ag]SbF<sub>6</sub> complexes, [(*i*Pr<sub>3</sub>PTE)<sub>2</sub>Ag]SbF<sub>6</sub> contains a spirocyclic array of centrosymmetric four-membered Ag<sub>2</sub>Te<sub>2</sub> rings.

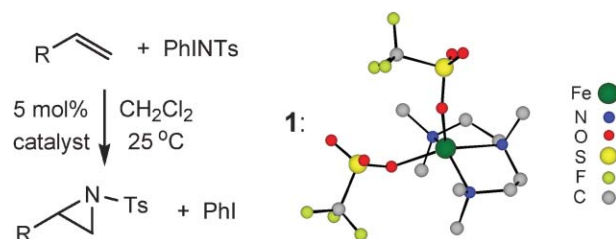


2063

### Non-heme iron(II) complexes are efficient olefin aziridination catalysts

Katie L. Klotz, Luke M. Slominski, Anthony V. Hull, Victoria M. Gottsacker, Rubén Mas-Ballesté, Lawrence Que, Jr. and Jason A. Halfen\*

Non-heme iron(II) complexes, such as complex **1**, mediate the rapid aziridination of olefins by PhINTs in moderate to good yields.

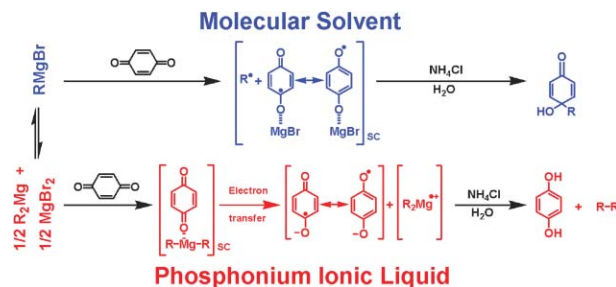


2066

### Grignard reagents in ionic solvents: electron transfer reactions and evidence for facile Br–Mg exchange

Taramatee Ramnial, Stephanie A. Taylor, Jason A. C. Clyburne and Charles J. Walsby

Grignard reagents form persistent solutions in phosphonium ionic liquids possessing *O*-donor anions and these solutions are excellent reaction media for electron transfer processes and transmetallation reactions.

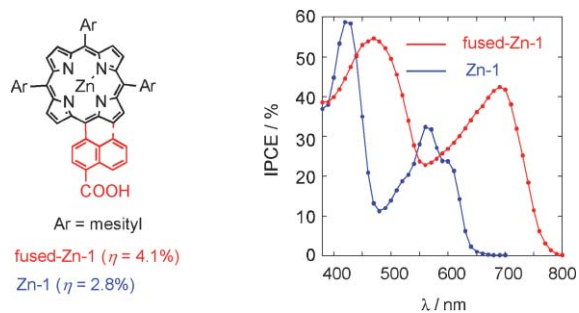


2069

### Novel unsymmetrically $\pi$ -elongated porphyrin for dye-sensitized TiO<sub>2</sub> cells

Masanobu Tanaka, Shinya Hayashi, Seunghun Eu, Tomokazu Umeyama, Yoshihiro Matano and Hiroshi Imahori\*

An aromatic ring-fused porphyrin (**fused-Zn-1**)-sensitized TiO<sub>2</sub> cell exhibited a power conversion efficiency of 4.1%, which was improved by 50% relative to the unfused porphyrin (**Zn-1**) reference cell.

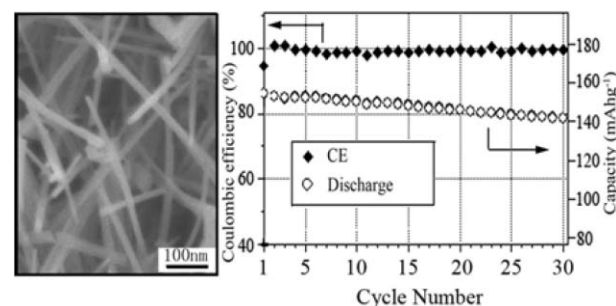


2072

### Facile preparation and electrochemical properties of cubic-phase Li<sub>4</sub>Mn<sub>5</sub>O<sub>12</sub> nanowires

Yang Tian, Dairong Chen,\* Xiuling Jiao\* and Yongzheng Duan

Single crystalline Li<sub>4</sub>Mn<sub>5</sub>O<sub>12</sub> nanowires with cubic phase were prepared by a simple molten salt route, which exhibited high storage capacity and coulombic efficiency as cathode materials for lithium-ion batteries.



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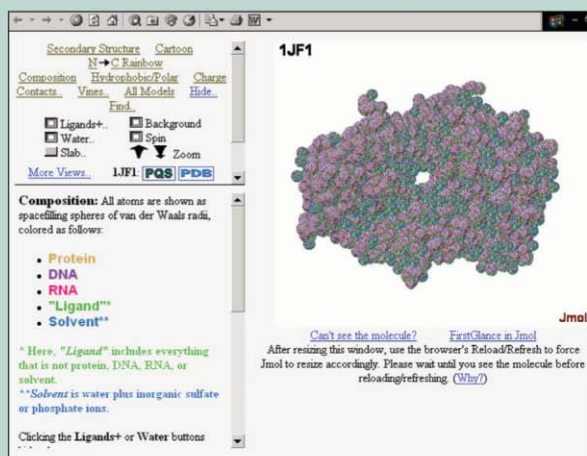
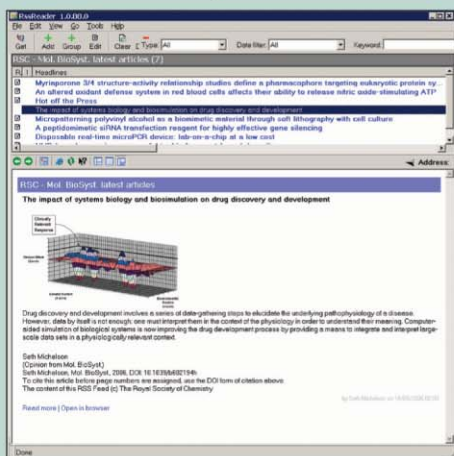
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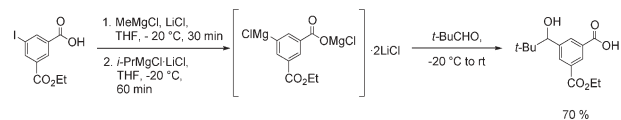
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2075

### Halogen–magnesium exchange on unprotected aromatic and heteroaromatic carboxylic acids

Felix Kopp, Stefan Wunderlich and Paul Knoche<sup>†</sup>\*

The formation of Grignard reagents derived from aromatic halides bearing free carboxylic acids is accomplished by the reaction of various iodobenzoic acids with MeMgCl in the presence of LiCl, followed by the addition of *i*-PrMgCl·LiCl. The resulting reagents react with various electrophiles in good yields.

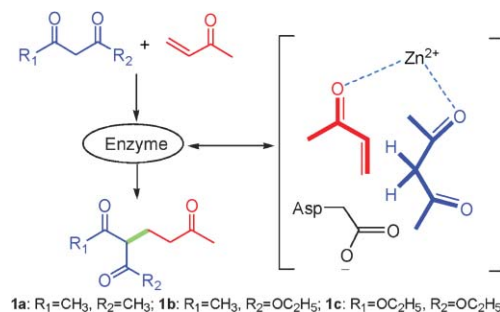


2078

### Promiscuous zinc-dependent acylase-mediated carbon–carbon bond formation in organic media

Jian-Ming Xu, Fu Zhang, Bo-Kai Liu, Qi Wu and Xian-Fu Lin<sup>\*</sup>

A zinc-dependent acylase, D-aminoacylase from *Escherichia coli*, displays a promiscuous activity to catalyze the carbon–carbon bond formation reaction of 1,3-dicarbonyl compounds to methyl vinyl ketone in organic media.

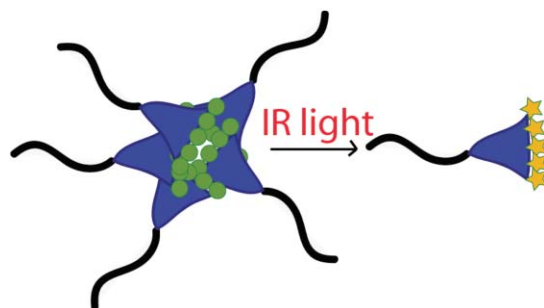


2081

### Two-photon degradable supramolecular assemblies of linear-dendritic copolymers

Justin L. Mynar, Andrew P. Goodwin, Joel A. Cohen, Yingzhong Ma, Graham R. Fleming and Jean M. J. Fréchet<sup>\*</sup>

Micelles of dendritic-linear copolymers have been developed that release a payload after being stimulated by an infrared laser.

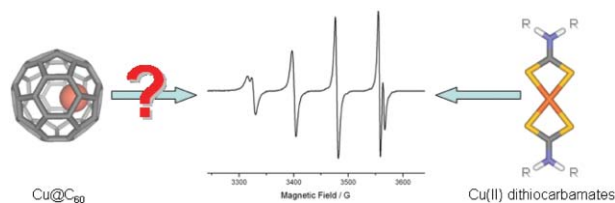


2083

### A reassignment of the EPR spectra previously attributed to Cu@C<sub>60</sub>

Bevan Elliott, Keqin Yang, Apparao M. Rao, Hadi D. Arman, William T. Pennington and Luis Echegoyen<sup>\*</sup>

EPR spectra attributed to the endohedral metallofullerene Cu@C<sub>60</sub> are better explained by the previously characterized Cu(II) dithiocarbamate family of compounds.




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