

## In this issue...

A novel, simple procedure towards two new classes of core-extended perylene chromophores. See Sibylle Müller and Klaus Müllen, page 4045.



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## Cover

See Isamu Kinoshita *et al.*, page 4047. The 2-D clathrate hydrate of toluene is formed by the aggregation of a trace amount of water in toluene by strong hydrogen bonds with [CuF(tptm)]. Image reproduced by permission of Riichi Miyamoto, Rika Tanaka Hamazawa, Masakazu Hirotsu, Takanori Nishioka, Isamu Kinoshita and L. James Wright, from *Chem. Commun.*, 2005, 4047–4049.

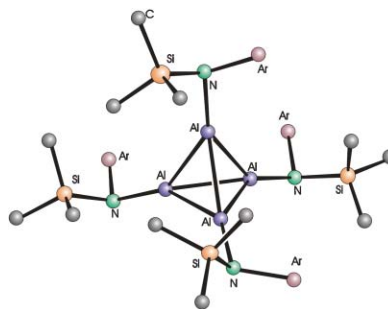
## FEATURE ARTICLE

4027

## Chemistry of aluminium(I)

Herbert W. Roesky\* and S. Shravan Kumar

The presence of a lone pair of electrons plays an important role in the preparation of aluminium-containing heterocyclic compounds, main group–main group and transition metal–main group compounds having donor–acceptor bonds by carrying out reactions with unsaturated compounds and Lewis acids.



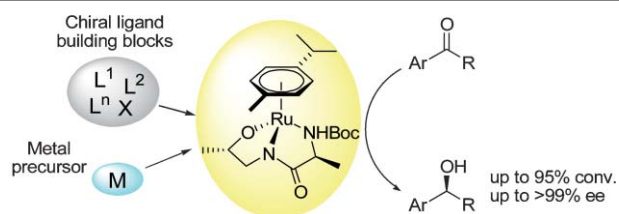
## COMMUNICATIONS

4039

*In situ* formation of ligand and catalyst—application in ruthenium-catalyzed enantioselective reduction of ketones

Patrik Västilä, Jenny Wettergren and Hans Adolfsson\*

The direct *in situ* formation of highly efficient ruthenium-catalysts for the asymmetric reduction of ketones was obtained by combining chiral ligand building blocks with a ruthenium precursor. Aryl alkyl ketones were reduced under hydrogen transfer conditions in high conversions with excellent enantiomeric excess (up to > 99% ee).



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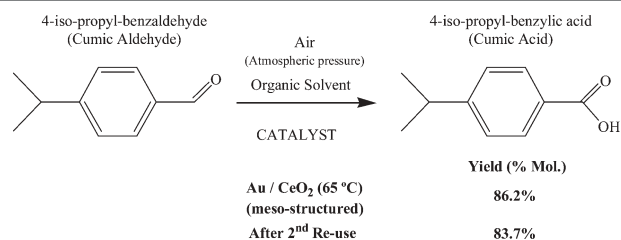
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4042

**Gold supported on a mesoporous CeO<sub>2</sub> matrix as an efficient catalyst in the selective aerobic oxidation of aldehydes in the liquid phase**

Avelino Corma\* and Marcelo E. Domine

Gold supported on CeO<sub>2</sub> catalyses the selective aerobic oxidation of aliphatic and aromatic aldehydes better than other reported catalysts such as Pt/C/Bi materials. The activity is due to the nanometric particle size of Au and CeO<sub>2</sub>.

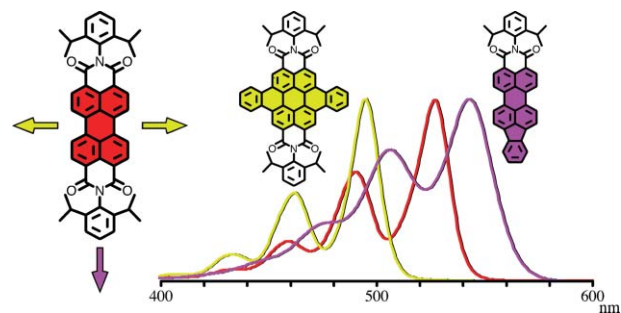


4045

**Facile synthetic approach to novel core-extended perylene carboximide dyes**

Sibylle Müller and Klaus Müllen\*

The straightforward synthesis of two new classes of core-extended perylene chromophores, dibenzocoronene tetracarboxydiimide and indenoperylene dicarboximide, proves that directional enlargement of the aromatic  $\pi$ -system leads to tailored bathochromic and hypsochromic shifts.

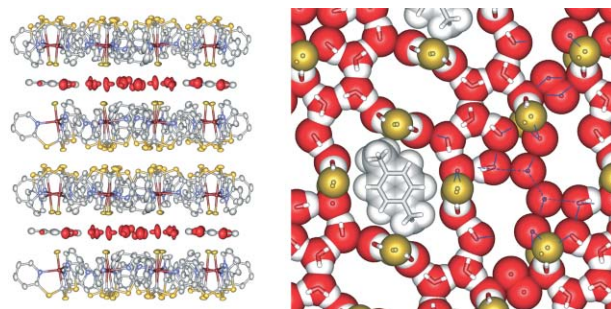


4047

**A two-dimensional clathrate hydrate sandwiched by planar arrays of a copper complex**

Riichi Miyamoto, Rika Tanaka Hamazawa, Masakazu Hirotsu, Takanori Nishioka, Isamu Kinoshita\* and L. James Wright\*

A 2-D clathrate hydrate of toluene spontaneously assembles between planar arrays of [CuF(tptm)] (tptm = tris(2-pyridylthio)methyl) when this amphiphilic complex crystallises from toluene–water mixtures.

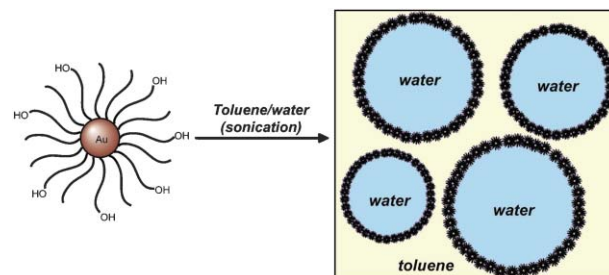


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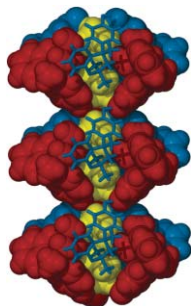
**Mixed monolayer coverage on gold nanoparticles for interfacial stabilization of immiscible fluids**

Elizabeth Glogowski, Jinbo He, Thomas P. Russell\* and Todd Emrick\*

Gold nanoparticles covered with a mixed monolayer of *n*-dodecanethiol and 11-mercapto-1-undecanol were prepared and found to mediate the oil–water interface, providing access to stable water droplets in oil.



4053

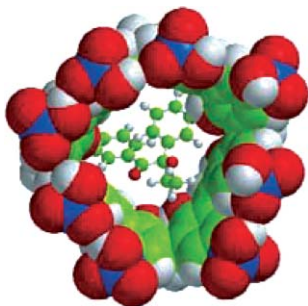


**Enclathration of morpholinium cations by Dianin's compound: salt formation by partial host-to-guest proton transfer**

Gareth O. Lloyd, Martin W. Bredenkamp and Leonard J. Barbour\*

In the solid state, Dianin's compound binds morpholine in a variant of its well-known clathrate structure: proton transfer between host and guest facilitates the formation of a new hydrogen bonding pattern for this host.

4056

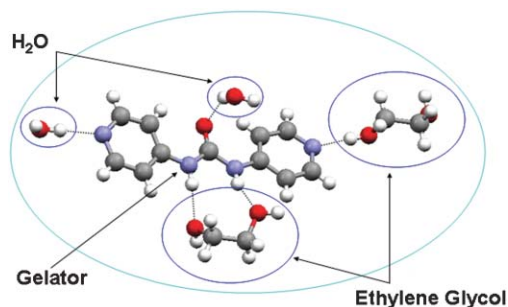


**A latent photoreaction predominates within water-soluble calixarenes: photochemistry of benzoin alkyl ethers**

Raja Kaliappan, Lakshmi S. Kaanumalle and V. Ramamurthy\*

Water soluble calixarenes bring out a dormant primary photoreaction of benzoin ethers.

4059

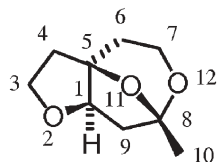


**First snapshot of a nonpolymeric hydrogelator interacting with its gelling solvents**

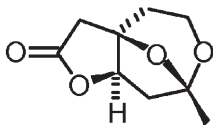
D. Krishna Kumar, D. Amilan Jose, Amitava Das\* and Parthasarathi Dastidar\*

A pyridyl urea based low molecular weight supramolecular hydrogelator has been synthesized; crystallized from its gelling solvent, the single crystal structure of the gelator molecule interacting with its gelling solvents reported herein is the first example in the literature.

4062



**Buergerin F (1)**



**Buergerin G (2)**

**Total synthesis of buergerin F via effective construction of the asymmetric quaternary carbons using an enantioselective aldol reaction**

Isamu Shiina,\* Yo-ichi Kawakita, Ryoutarou Ibuka, Kazutoshi Yokoyama and Yu-suke Yamai

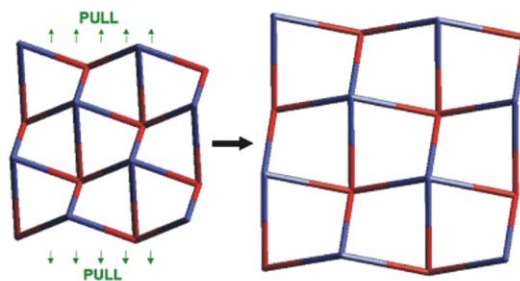
The synthesis of (+)-buergerin F proceeds in 14 steps and 33% overall yield from crotonaldehyde *via* the enantioselective aldol reaction with a tetrasubstituted ketene silyl acetal.

4065

### Networked calix[4]arene polymers with unusual mechanical properties

Joseph N. Grima,\* Jennifer J. Williams and Kenneth E. Evans

Polymeric networks built from calix[4]arenes that form a three dimensional folded structure have been predicted to exhibit negative Poisson's ratios (auxetic), an unusual property which makes them superior to conventional materials in many practical applications.

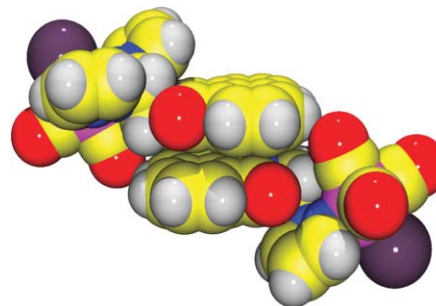


4068

### Directional control of $\pi$ -stacked building blocks for crystal engineering: the 1,8-naphthalimide synthon

Daniel L. Reger,\* J. Derek Elgin, Radu F. Semeniuc, Perry J. Pellechia and Mark D. Smith

Incorporating the 1,8-naphthalimide group into bis(pyrazolyl)methane ligands triggers the association of their rhenium(I) complexes into directionally ordered dimers in both solution and solid state, as demonstrated by ES<sup>+</sup>/MS, PGSE-NMR and X-ray diffraction studies.

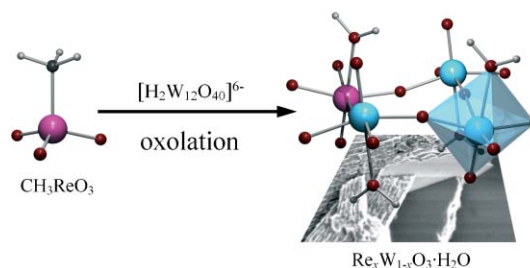


4071

### An organometallic *chimie douce* approach to new $\text{Re}_x\text{W}_{1-x}\text{O}_3$ phases

Christian Helbig, Rudolf Herrmann, Franz Mayr, Ernst-Wilhelm Scheidt, Klaus Tröster, Jan Hanss, Hans-Albrecht Krug von Nidda, Gunter Heymann, Hubert Huppertz and Wolfgang Scherer\*

$\text{Re}_x\text{W}_{1-x}\text{O}_3 \cdot \text{H}_2\text{O}$  and  $\text{Re}_x\text{W}_{1-x}\text{O}_3$  phases are prepared by a new organometallic *chimie douce* concept employing the organometallic precursor methyltrioxorhenium.

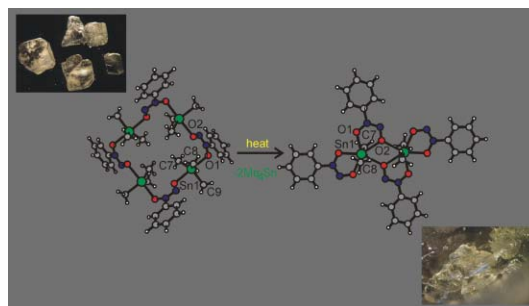


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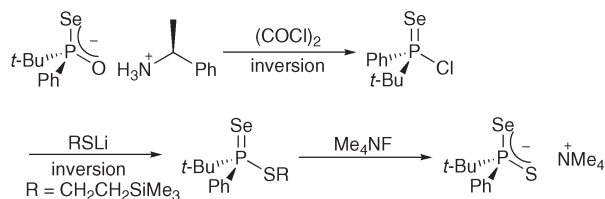
### Demethylation of the $[\text{Me}_3\text{Sn}(\text{PhN}_2\text{O}_2)]_4$ tetramer into dimeric $[\text{Me}_2\text{Sn}(\text{PhN}_2\text{O}_2)]_2$ : a thermally induced methyl-transfer between supramolecules

Andrea Deák\* and Gábor Tárkányi

Thermally induced crystal-to-crystal supramolecular structural transformation of a  $[\text{Me}_3\text{Sn}(\text{PhN}_2\text{O}_2)]_4$  tetramer into  $[\text{Me}_2\text{Sn}(\text{PhN}_2\text{O}_2)]_2$  dimer *via* methyl-transfer process



4077

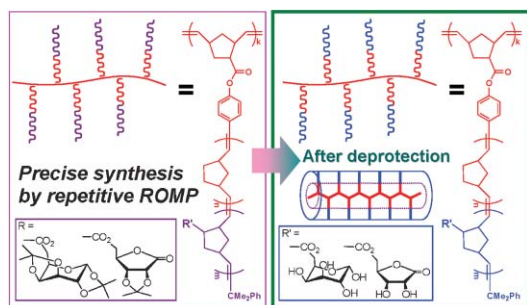


### Enantiomerically pure P-chiral phosphinoselenoic chlorides: inversion of configuration at the P-chirogenic center in the synthesis and reaction of these substances

Tsutomu Kimura and Toshiaki Murai\*

Optically active P-chiral phosphinoselenoic chlorides were successfully synthesized by reacting optically active phosphinoselenoic acid salts with oxalyl chloride. The chloride was converted to a phosphinoselenoic acid salt with high ee.

4080

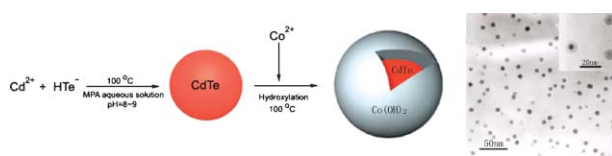


### Precise synthesis of poly(macromonomer)s containing sugars by repetitive ring-opening metathesis polymerisation

James J. Murphy and Kotohiro Nomura\*

The precise synthesis of poly(macromonomer)s containing sugars has been demonstrated using a repetitive ROMP technique, which upon removal of the sugar protecting groups affords a novel amphiphilic architecture.

4083

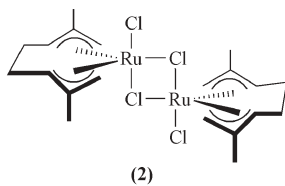
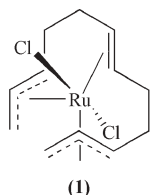
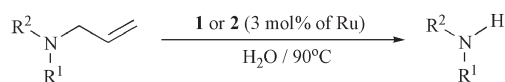


### CdTe@Co(OH)<sub>2</sub> (core-shell) nanoparticles: aqueous synthesis and characterization

Liang Li, Huifeng Qian and Jicun Ren\*

A seed-mediated growth approach for preparation of CdTe@Co(OH)<sub>2</sub> (core-shell) nanoparticles in the aqueous phase is reported.

4086



### Ru(IV)-catalyzed isomerization of allylamines in water: A highly efficient procedure for the deprotection of N-allylic amines

Victorio Cadierno,\* Sergio E. García-Garrido, José Gimeno\* and Noel Nebra

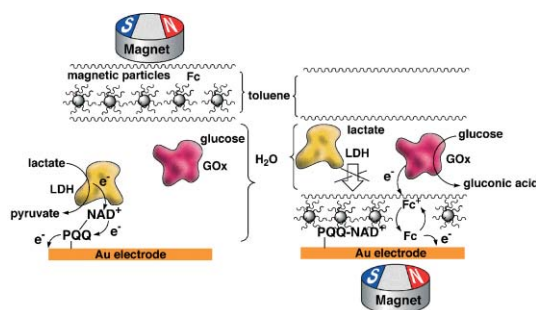
A general and efficient procedure for the deprotection of N-allylic substrates in aqueous media, using catalytic amounts of the bis(allyl)-ruthenium(IV) complexes  $[\text{Ru}(\eta^3 : \eta^2 : \eta^3\text{-C}_{12}\text{H}_{18})\text{Cl}_2]$  (1) and  $[\{\text{Ru}(\eta^3 : \eta^3\text{-C}_{10}\text{H}_{16})(\mu\text{-Cl})\text{Cl}\}_2]$  (2), has been developed.

4089

### Hydrophobic magnetic nanoparticles induce selective bioelectrocatalysis

Eugenii Katz and Itamar Willner\*

Selective bioelectrocatalysis is accomplished at modified electrodes using a water–toluene two-phase system and hydrophobic magnetic nanoparticles that control the properties of the electrode interface by means of an external magnet.

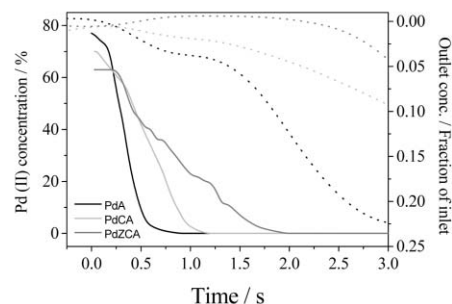


4092

### Redox behaviour of Pd-based TWCs under dynamic conditions: analysis using dispersive XAS and mass spectrometry

A. Iglesias-Juez, A. Martínez-Arias, M. A. Newton, S. G. Fiddy and M. Fernández-García\*

The redox behaviour of Pd-based TWCs is studied under dynamic, cycling conditions (*e.g.* lambda oscillations) on a 50 millisecond scale. Pd temporal response to gas inlet mixture changes is governed by metal–promoter interface properties.

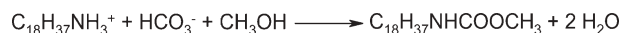


4095

### Chemical instability of octadecylammonium monolayers

Robin H. A. Ras, Cliff T. Johnston and Robert A. Schoonheydt\*

Octadecylammonium in monolayers transforms into a carbamate derivative, as observed by attenuated total reflection Fourier transform infrared (ATR-FTIR) spectroscopy and  $^{13}\text{C}$  nuclear magnetic resonance (NMR) spectroscopy.

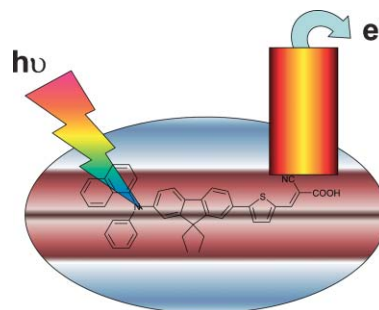


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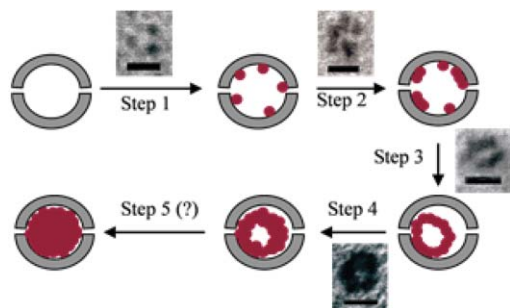
### Organic dyes containing thienylfluorene conjugation for solar cells

K. R. Justin Thomas, Jiann T. Lin,\* Ying-Chan Hsu and Kuo-Chuan Ho\*

Highly efficient sensitizers, containing donor–acceptor units and a conjugation bridge composed of alternating thiophene and fluorene segments, for nanocrystalline  $\text{TiO}_2$ -based dye-sensitized solar cells are reported.



4101

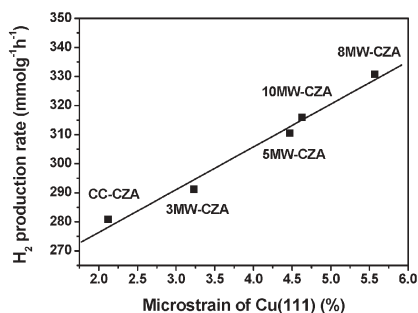


### Cobalt oxide hollow nanoparticles derived by bio-templating

Jae-Woo Kim,\* Sang H. Choi,\* Peter T. Lillehei, Sang-Hyon Chu, Glen C. King and Gerald D. Watt

We present here the hollow cobalt oxide nanoparticles by controlling the number of metal atoms inserted in ferritin and describe the metal growth mechanism in the ferritin interior.

4104

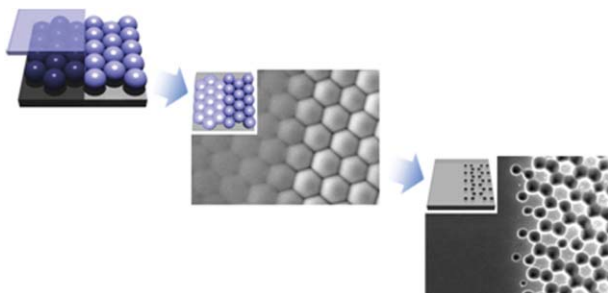


### A unique microwave effect on the microstructural modification of Cu/ZnO/Al<sub>2</sub>O<sub>3</sub> catalysts for steam reforming of methanol

Xin-Rong Zhang, Lu-Cun Wang, Yong Cao,\* Wei-Lin Dai, He-Yong He and Kang-Nian Fan\*

A short time (3–10 min) of microwave irradiation on the CuO/ZnO/Al<sub>2</sub>O<sub>3</sub> oxide precursor can result in a unique tailored microstructural modification on the catalyst, leading to a significantly enhanced performance for H<sub>2</sub> production from steam reforming of methanol.

4107

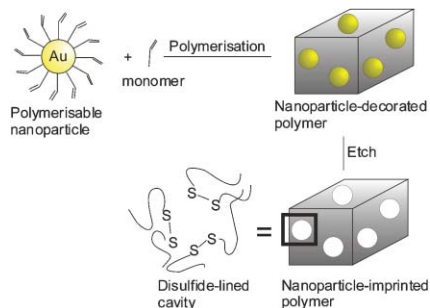


### Colloidal lithography with crosslinkable particles: fabrication of hierarchical nanopore arrays

Jun Hyuk Moon, Won Sun Kim, Jong-Wook Ha, Se Gyu Jang, Seung-Man Yang\* and Jung-Ki Park

Colloidal lithography with self-assembled monolayers of crosslinkable polymeric particles has been developed to create hierarchical arrays of nanopores on substrates.

4110



### Au nanoparticle-imprinted polymers

Stéphanie Koenig and Victor Chechik\*

Au nanoparticles protected with a polymerisable ligand were incorporated into bulk macroporous polymers; etching the metal core resulted in disulfide-lined, nanometre-scale cavities capable of recognising similarly-sized Au particles.

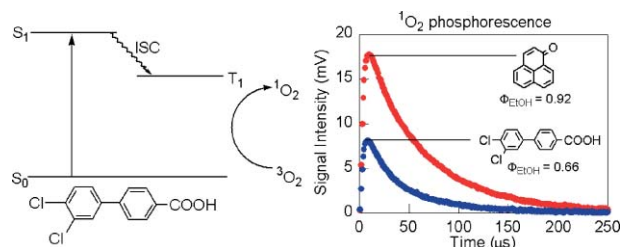


4113

**Photosensitizing properties of 2,4-dichlorobenzoic acid and chlorinated biphenyl carboxylic acids, potentially key components of chromophoric dissolved organic matter**

Anne L. Boreen and Kristopher McNeill\*

2,4-Dichlorobenzoic acid and a suite of chlorinated biphenyl carboxylic acids were found to be efficient sensitizers of the reactive oxygen species singlet oxygen ( $^1\text{O}_2$ ).

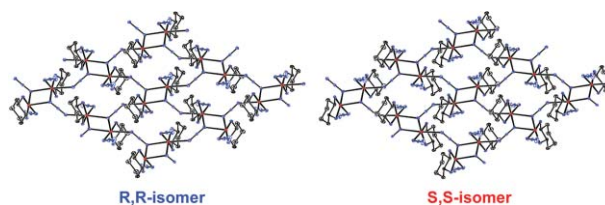


4116

**Chiral azide-bridged two-dimensional Cu(II) compounds showing a field-induced spin–flop transition**

Young Sin You, Jung Hee Yoon, Hyoung Chan Kim and Chang Seop Hong\*

Two azide-bridged chiral Cu(II) compounds,  $[\text{Cu}(R,R\text{-dacy})(\text{N}_3)_2]_n$  (**1**) ( $R,R\text{-dacy} = \textit{trans}$ -(1*R*,2*R*)-diaminocyclohexane) and  $[\text{Cu}(S,S\text{-dacy})(\text{N}_3)_2]_n$  (**2**) ( $S,S\text{-dacy} = \textit{trans}$ -(1*S*,2*S*)-diaminocyclohexane), with two-dimensional layer structures exhibiting end-to-end and end-on azide bridging patterns, were prepared and **1** undergoes a field-induced spin–flop transition.

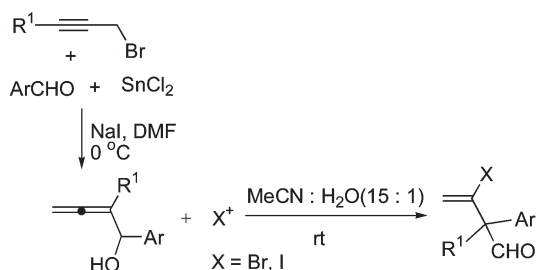


4119

**Efficient two-step synthesis of 3-halo-3-enals or 2-halo-2-alkenyl ketones from propargylic bromides via a unique cationic 1,2-aryl or proton shift in electrophilic addition reaction of 2,3-allenols with  $\text{X}^+$**

Chunling Fu, Jing Li and Shengming Ma\*

The reaction of readily available 1-substituted 2,3-allenols with  $\text{Br}_2$ , NBS, or  $\text{I}_2$  afforded the not-easily-available but synthetically useful 3-halo-3-alkenals or 2-halo-2-alkenyl ketones in good yields via a sequential electrophilic interaction of  $\text{X}^+$  with the allene moiety, a 1,2-aryl or proton shift, and a  $\text{H}^+$ -elimination process.

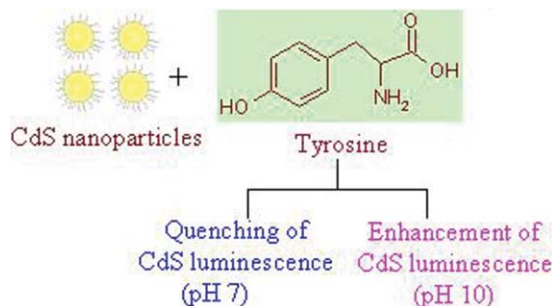


4122

**Size dependent interaction of biofunctionalized CdS nanoparticles with tyrosine at different pH**

Amiya Priyam, Anindita Chatterjee, Satyen K. Das and Abhijit Saha\*

Enhancement of fluorescence of CdS nanoparticles by tyrosine at pH 10 in contrast to Stern–Volmer quenching at pH 7 was observed and both the effects were found to depend on the size of the nanoparticles.




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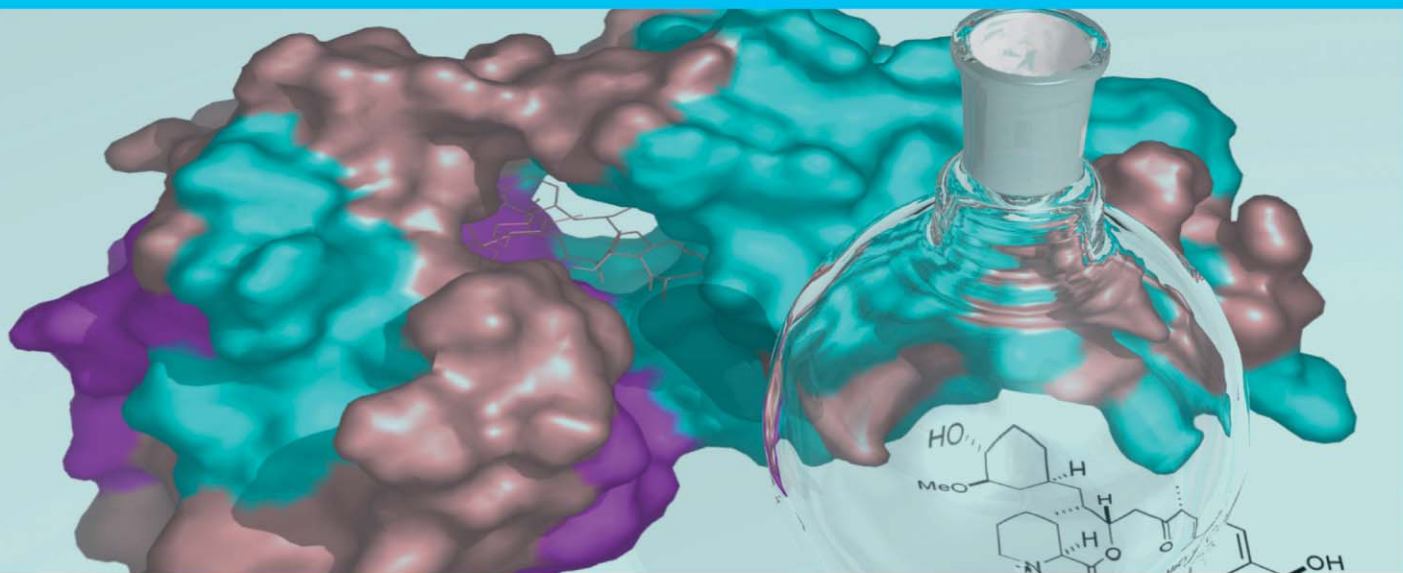


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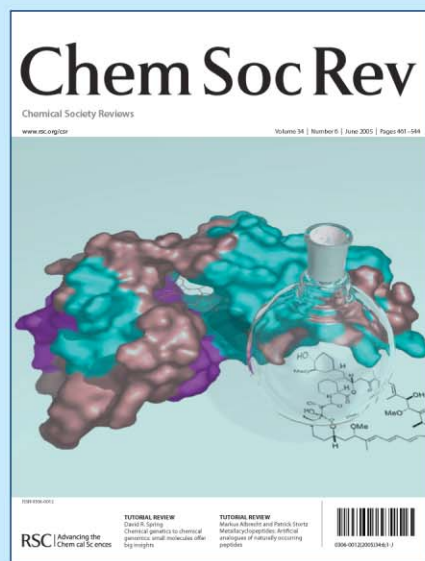
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