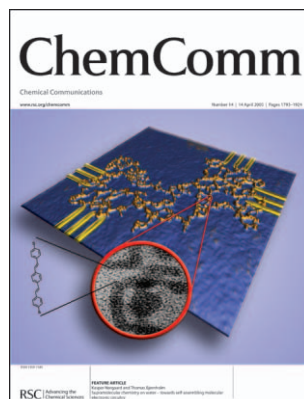




Cover

See Sunil Varughese and V. R. Pedireddi, page 1824. Supramolecular assemblies are synthesised through dative bonds as well as hydrogen bonds; the resultant host structure accommodates varied guest molecules. Image reproduced by permission of Sunil Varughese and V. R. Pedireddi from *Chem. Commun.*, 2005, 1824.



Inside cover

See Kasper Nørgaard and Thomas Bjørnholm, page 1812. Supramolecular chemistry on water – towards self-assembling molecular electronic circuitry. Image reproduced by permission of Kasper Nørgaard and Thomas Bjørnholm from *Chem. Commun.*, 2005, 1812.

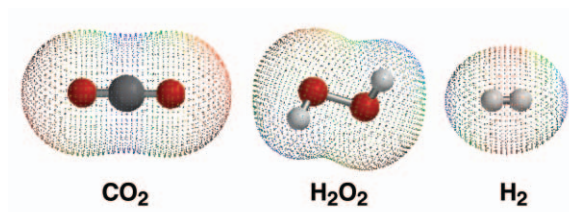
40TH ANNIVERSARY ARTICLE

1807

Pursuing practical elegance in chemical synthesis

Ryoji Noyori

Green chemistry/technology is indispensable for the survival of our future generations.



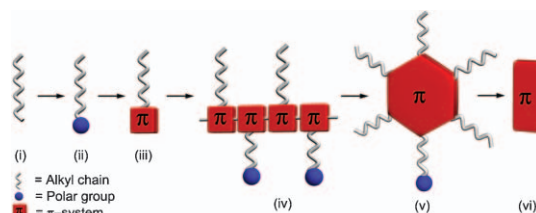
FEATURE ARTICLE

1812

Supramolecular chemistry on water – towards self-assembling molecular electronic circuitry

Kasper Nørgaard and Thomas Bjørnholm*

This feature article describes the self-assembly of electroactive molecules at the air/water interface, emphasizing the structural and electronic characterizations of the resulting supramolecular architectures.



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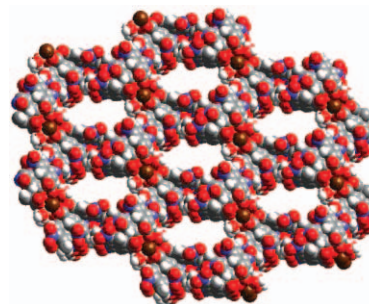
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1824

Hydrogen bond mediated open-frame networks in coordination polymers: supramolecular assemblies of Pr(III) and 3,5-dinitro-4-methylbenzoic acid with aza-donor compounds

Sunil Varughese and V. R. Pedireddi*

A coordination assembly of 3,5-dinitro-4-methylbenzoic acid and Pr(III), synthesized by hydrothermal methods, forms a host structure (stable up to 300 °C) through C–H···O hydrogen bonds, and accommodates different types of guest species.

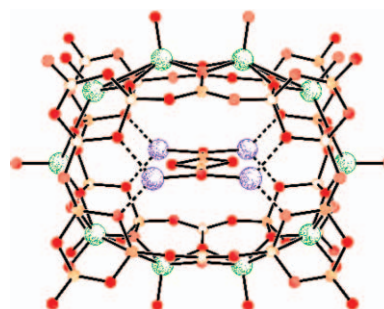


1827

Synthesis of elliptical vanadoborates housing bimetallic centers $[\text{Zn}_4(\text{B}_2\text{O}_4\text{H}_2)(\text{V}_{10}\text{B}_{28}\text{O}_{74}\text{H}_8)]^{8-}$ and $[\text{Mn}_4(\text{C}_2\text{O}_4)(\text{V}_{10}\text{B}_{28}\text{O}_{74}\text{H}_8)]^{10-}$

Mingmei Wu, Teresa S-C. Law, Herman H-Y. Sung, Jiwen Cai and Ian D. Williams*

The hydrothermal synthesis of three new vanadoborate compounds with elliptical ($\text{V}_{10}\text{B}_{28}\text{O}_{74}\text{H}_8$) clusters is described. The clusters contain pairs of bimetallic Zn_2 or Mn_2 units.

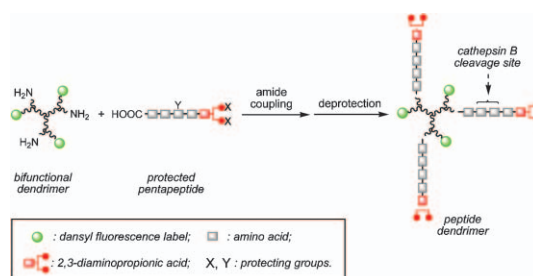


1830

Fluorescent dendrimers with a peptide cathepsin B cleavage site for drug delivery applications

Sabine Fuchs, Henning Otto,* Stefan Jehle, Peter Henklein and A. Dieter Schlüter*

Synthesis, cellular uptake, and intracellular localization of a multifunctionally equipped, first generation (G1) dendrimer carrying a pentapeptide with a cathepsin B cleavage site, chelating ligands for Pt^{2+} -complexation, and a dansyl fluorescence label.

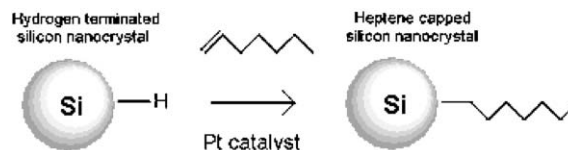


1833

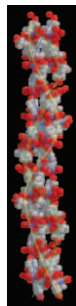
Micro-emulsion synthesis of monodisperse surface stabilized silicon nanocrystals

Richard D. Tilley,* Jamie H. Warner, Kazushige Yamamoto, Isao Matsui and Hiroyuki Fujimori

Silicon nanocrystals with a uniform size distribution were synthesized in inverse micelles using powerful hydride reducing agents.



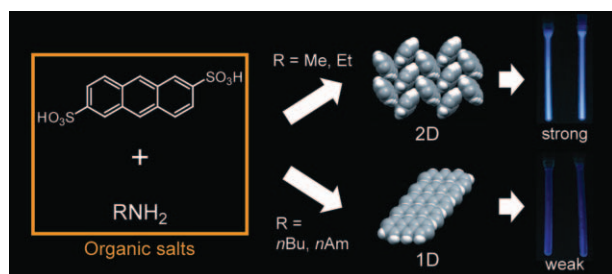
1836

**X-Ray crystallographic signature of supramolecular triple helix formation from a water soluble synthetic tetrapeptide**

Apurba Kumar Das, Debasish Haldar, Raghurama P. Hegde, N. Shamala* and Arindam Banerjee*

A water soluble synthetic tetrapeptide containing Aib residue adopts an “S”-shaped molecular structure that self-assembles to form a water mediated supramolecular triple helix using hydrogen bonding interactions in the solid state.

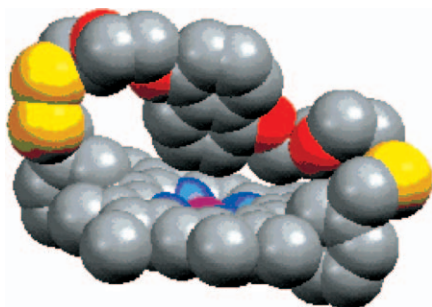
1839

**A tunable solid-state fluorescence system consisting of organic salts of anthracene-2,6-disulfonic acid with primary amines**

Yuji Mizobe, Norimitsu Tohnai,* Mikiji Miyata* and Yasuchika Hasegawa

Organic salts composed of anthracene-2,6-disulfonic acid and linear alkylamines provide a tunable solid-state fluorescence system, which facilitates high throughput combinatorial screening of fluorescence properties inherent to molecular arrangements of anthracene moieties.

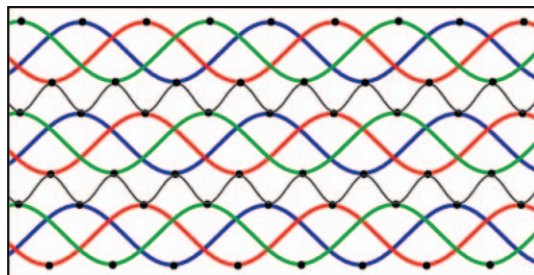
1842

**Dynamic synthesis of a macrocycle containing a porphyrin and an electron donor**

Amy L. Kieran, Sofia I. Pascu, Thibaut Jarrosson, Maxwell J. Gunter and Jeremy K. M. Sanders*

A remarkably efficient synthesis of a new porphyrin heterodimer by dynamic disulfide chemistry and a new unexpected way of templating using an electron acceptor is reported.

1845

**Water-assisted self-assembly of harmonic single and triple helices in a polymeric coordination complex**

Gareth O. Lloyd, Jerry L. Atwood and Leonard J. Barbour*

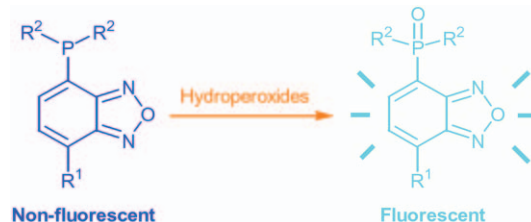
Combination of Cd^{2+} , water and two flexible ligands of different length produces a coordination polymeric structure containing both single and triple helices.

1848

Fluorescence enhancement by hydroperoxides based on a change in the intramolecular charge transfer character of benzofurazan

Maki Onoda,* Hidetoshi Tokuyama, Seiichi Uchiyama, Ken-ichi Mawatari, Tomofumi Santa, Kiyoko Kaneko, Kazuhiro Imai and Kazuya Nakagomi

Novel fluorescent reagents for hydroperoxides were developed. Strong fluorescence signals were produced by changing the intramolecular charge transfer character of the fluorophore.

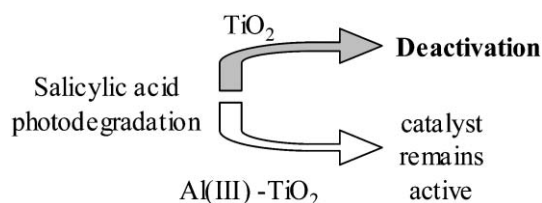


1851

Aluminium(III) adsorption: a soft and simple method to prevent TiO₂ deactivation during salicylic acid photodegradation

Maria Isabel Franch, José Peral, Xavier Domènech and José A. Ayllón*

Aluminium(III) adsorption is presented as a soft and simple method to prevent TiO₂ deactivation during salicylic acid photodegradation that, in addition, increases the elimination rate of the organic substrate.

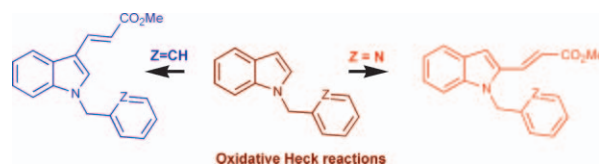


1854

Directed palladation: fine tuning permits the catalytic 2-alkenylation of indoles

Elena Capito, John M. Brown and Alfredo Ricci

A C–H activating Pd-catalysed alkenylation of indole is regioselective for 2-substitution when the nitrogen carries a 2-pyridylmethyl substituent.

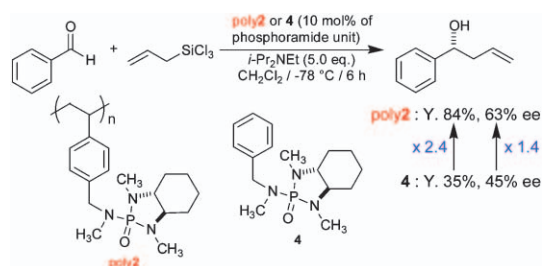


1857

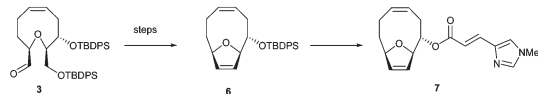
Polystyrenes with chiral phosphoramidate substituents as Lewis base catalysts for asymmetric addition of allyltrichlorosilane: enhancement of catalytic performance by polymer effect

Toshiyuki Oyama,* Hiroki Yoshioka and Masao Tomoi

In the asymmetric addition of allyltrichlorosilane to benzaldehyde, polystyrenes with chiral phosphoramidate substituents as Lewis base catalysts showed up to 2.4 times better catalytic activity and 1.4 times higher enantioselectivity than the corresponding low-molecular-weight analogues.



1860

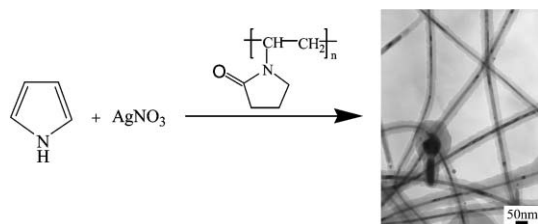


Synthesis of a simplified analogue of eleutherobin *via* a Claisen rearrangement and ring closing metathesis strategy

Gary C. H. Chiang, Andrew D. Bond, Andrew Ayscough, Gilles Pain, Sylvie Ducki and Andrew B. Holmes*

The enantioselective synthesis of a simplified eleutherobin analogue **7** by ring closing metathesis of a 2,9-divinyl-substituted oxocene is described; the analogue **7** and an advanced intermediate **15** revealed microtubule stabilising properties in the micromolar range.

1863

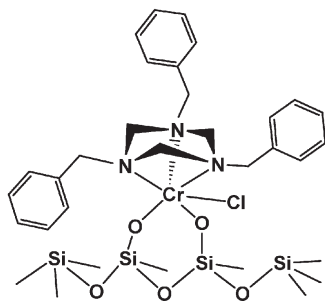


One-step process to fabricate Ag-polypyrrole coaxial nanocables

Aihua Chen, Haiqiao Wang and Xiaoyu Li*

Ag-polypyrrole nanocables were fabricated in aqueous solution at room temperature through a redox reaction between silver nitrite and pyrrole, using poly(vinylpyrrolidone) (PVP) as assistant agent.

1865

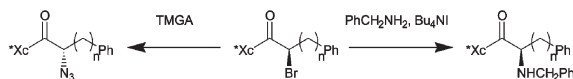


Single-site heterogeneous Cr-based catalyst for the selective trimerisation of ethylene

Cristina N. Nenu and Bert M. Weckhuysen*

TAC-Cr³⁺/SiO₂ complexes are highly active and selective ethylene trimerisation catalysts and possess single-site catalytic behaviour, an unusual property for heterogeneous catalysts.

1868



Controlling diastereoselectivity in the reactions of enantiomerically pure α -bromoacyl-imidazolidinones with nitrogen nucleophiles: substitution reactions with retention or inversion of configuration[‡]

N. R. Treweeke, P. B. Hitchcock, D. A. Pardoe and S. Caddick*

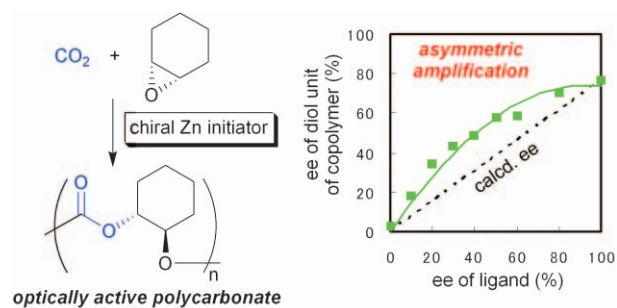
Substitution reactions of α -bromoacyl-imidazolidinones with N-nucleophiles can be carried out with retention or inversion by inducing or avoiding bromide epimerisation.

1871

Asymmetric amplification in asymmetric alternating copolymerization of cyclohexene oxide and carbon dioxide

Koji Nakano, Tamejiro Hiyama and Kyoko Nozaki*

Asymmetric amplification in the copolymerization of cyclohexene oxide and carbon dioxide is demonstrated using chiral zinc complexes, prepared from diethylzinc, diphenyl(pyrrolidin-2-yl)methanol, and ethanol.

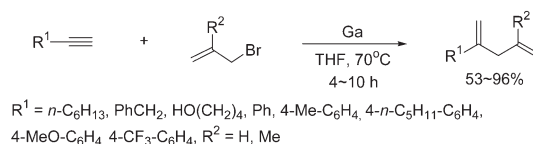


1874

Regioselective allylgallation of terminal alkynes

Phil Ho Lee,* Yunkiu Heo, Dong Seomoon, Sundae Kim and Kooyeon Lee

The reactions of terminal alkynes with allylgallium reagents generated *in situ* from gallium and allyl bromides gave the corresponding 1,4-dienes in good yield *via* Markovnikov addition in THF at 70 °C.

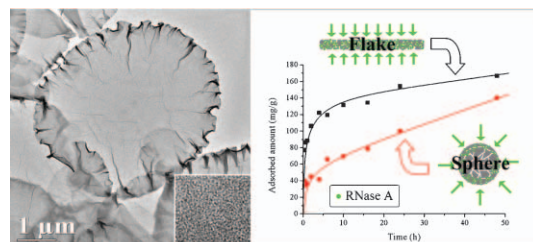


1877

Fabrication of lotus-leaf-like nanoporous silica flakes with controlled thickness

Wei Shan, Bo Wang, Yahong Zhang and Yi Tang*

Lotus-leaf-like nanoporous silica flakes with controlled thickness have been synthesized and have shown superior performance in adsorbing enzymes to their microspheric analogues.

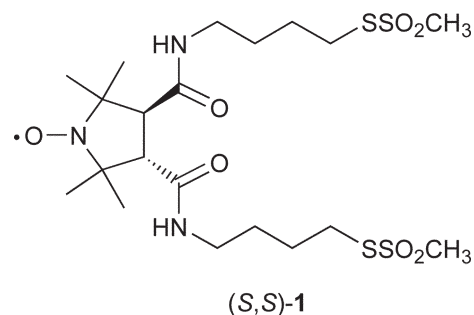


1880

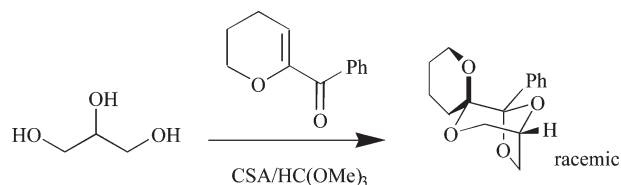
Synthesis of C₂-chiral bifunctionalised spin labels and their application to troponin C

Shunsuke Chatani, Motoyoshi Nakamura, Hidenobu Akahane, Naoki Kohyama, Masayasu Taki, Toshiaki Arata and Yukio Yamamoto*

An enantiomeric pair of C₂-chiral bifunctionalised spin labels having a pyrrolidine nitroxide moiety, whose configurations were determined by X-ray diffraction, was prepared and applied to troponin C whose binding mode of double disulfide linkage was characterised by EPR spectroscopy.



1883

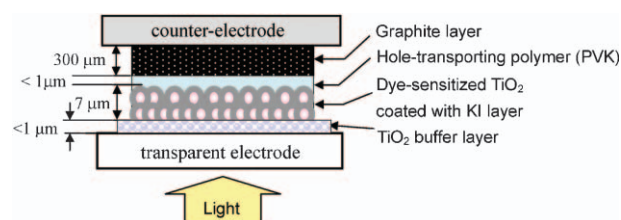


Triol protection with 6-benzoyl-3,4-dihydro-(2H)-pyran

Caroline D. L. Baker, John Fawcett, Christopher D. Insley, Derek S. Messenger, Claire L. Newland, Helen L. Overend, Anup B. Patel, Mufakhrul Shah, Bhavna Vara, Davinder Virdee and Bernard J. Rawlings*

6-Benzoyl-3,4-dihydro-(2H)-pyran will protect a range of 1,2,3-triol containing compounds such as glycerol, erythritol and xylitol as their corresponding spiro-[5-phenyl-3,6,8-trioxabicyclo[3.2.1]octane-4,2'-tetrahydropyran]; the hexol mannitol is converted into the corresponding bis-protected product.

1886

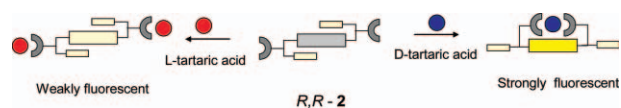


A solid-state dye-sensitized photovoltaic cell with a poly(*N*-vinyl-carbazole) hole transporter mediated by an alkali iodide

Nobuyuki Ikeda and Tsutomu Miyasaka

A solid-state dye-sensitized photocell constructed with a poly(vinylcarbazole) hole conductor mediated by alkali iodide achieves solar energy conversion efficiencies of 2.0% and 2.4% under 1 sun and 1/4 sun, respectively, with a photovoltage exceeding 0.7 V.

1889

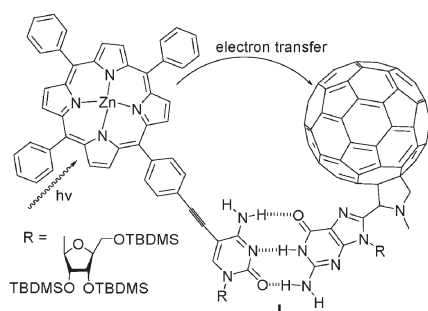


Enhanced fluorescence and chiral discrimination for tartaric acid in a dual fluorophore boronic acid receptor

Jianzhang Zhao and Tony D. James*

The addition of D-tartaric acid to *R,R*-2 causes a large increase in fluorescence, while addition of L-tartaric acid to *R,R*-2 only produces small changes in fluorescence.

1892



Synthesis and photophysics of a porphyrin-fullerene dyad assembled through Watson-Crick hydrogen bonding

Jonathan L. Sessler,* Janarthanan Jayawickramarajah, Andreas Gouloumis, Tomás Torres,* Dirk M. Guldi,* Stephen Maldonado and Keith J. Stevenson*

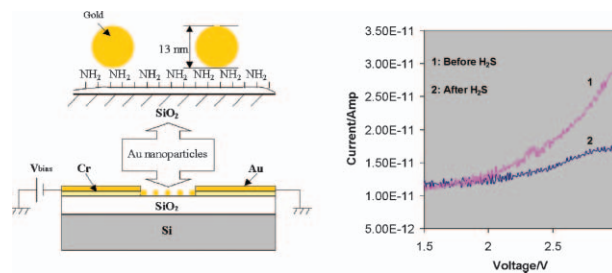
The new Watson-Crick base-pairing derived porphyrin-fullerene dyad **I** displays a lifetime for the photoinduced charge separated state that is significantly enhanced relative to those observed for previous Watson-Crick tethered electron transfer model systems.

1895

Suppressed electron hopping in a Au nanoparticle/H₂S system: development towards a H₂S nanosensor

Junfeng Geng, Michael D. R. Thomas,
Douglas S. Shephard and Brian F. G. Johnson*

We herein report and discuss electron transport within a Au/H₂S nanoscale device and thereby highlight a phenomenon that may be used in the development of a novel on-chip H₂S sensor.

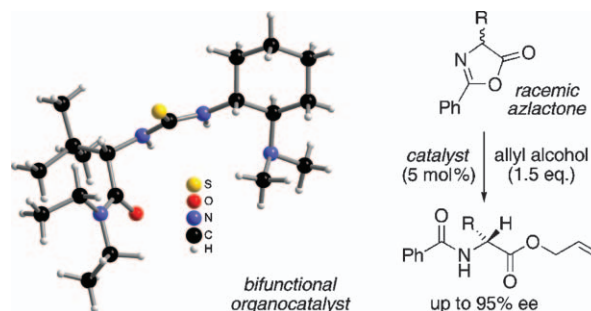


1898

Second-generation organocatalysts for the highly enantioselective dynamic kinetic resolution of azlactones

Albrecht Berkessel,* Santanu Mukherjee, Felix Cleemann,
Thomas N. Müller and Johann Lex

Bifunctional organocatalysts of the thiourea-*tert*-amine type, carrying two “matched” elements of chirality, effect the alcoholytic dynamic kinetic resolution of a variety of azlactones with up to 95% ee.

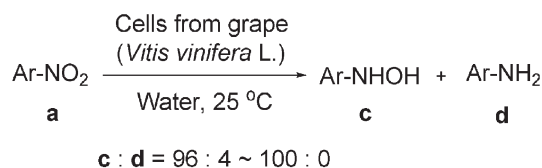


1901

Highly chemoselective reduction of aromatic nitro compounds to the corresponding hydroxylamines catalysed by plant cells from a grape (*Vitis vinifera* L.)

Feng Li, Jingnan Cui,* Xuhong Qian,* Rong Zhang and Yi Xiao

Cells from a grape (*Vitis vinifera* L.) reduce aromatic nitro compounds under mild conditions to the corresponding hydroxylamines with unprecedented chemoselectivity.

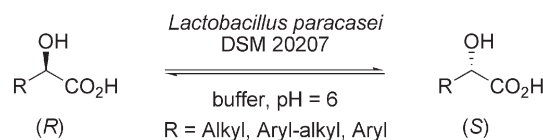


1904

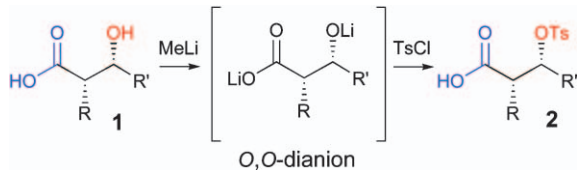
Biocatalytic racemisation of α -hydroxycarboxylic acids at physiological conditions

Silvia M. Glueck, Barbara Larissegger-Schnell,
Katrin Csar, Wolfgang Kroutil and Kurt Faber*

Biocatalytic racemisation of α -hydroxycarboxylic acids at physiological conditions was achieved using whole cells of *Lactobacillus paracasei* DSM 20207.



1906

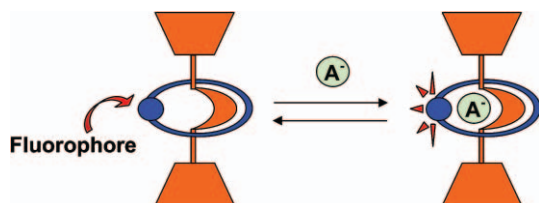


Novel chemoselective tosylation of the alcoholic hydroxyl group of *syn*- α,β -disubstituted β -hydroxy carboxylic acids

Yikang Wu* and Ya-Ping Sun

β -OH carboxylic acids were selectively activated at the β position *via* the O,O-dianions, which made it possible to prepare *anti* α,β -disubstituted β -lactones directly from the *syn* aldols.

1909

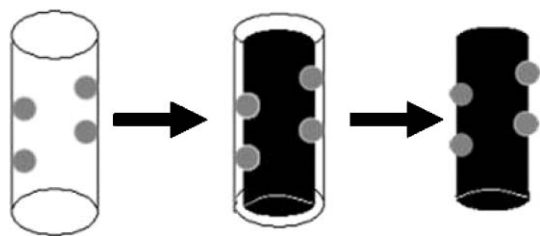


Anion directed synthesis of a hydrogensulfate selective luminescent rotaxane

David Curiel and Paul D. Beer*

A new photo-active rhenium(I) bipyridyl based rotaxane has been synthesised making use of a strategy founded on anion templation. By virtue of the unique interlocked structural cavity, the rotaxane selectively senses hydrogensulfate using luminescence spectroscopy.

1912

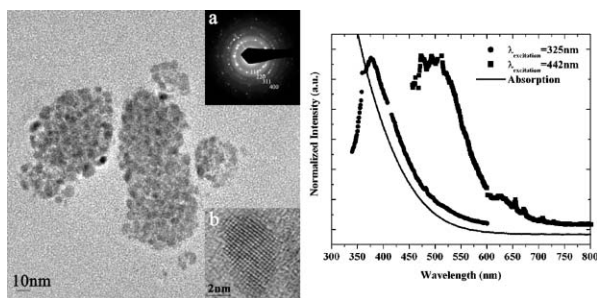


Encapsulation of metal particles within the wall structure of mesoporous carbons

S. M. Holmes,* P. Foran, E. P. L. Roberts and J. M. Newton

Incorporating metal particles into a mesoporous silica structure, prior to carbonisation and dissolution of the silica, has allowed the synthesis of a metal containing mesoporous carbon. The carbon structure has the metal particles embedded in the walls to prevent pore blockage and reduce leaching of the metal.

1914



Anhydrous solution synthesis of germanium nanocrystals from the germanium(II) precursor $\text{Ge}[\text{N}(\text{SiMe}_3)_2]_2$

Henry Gerung, Scott D. Bunge, Timothy J. Boyle,* C. Jeffrey Brinker and Sang M. Han

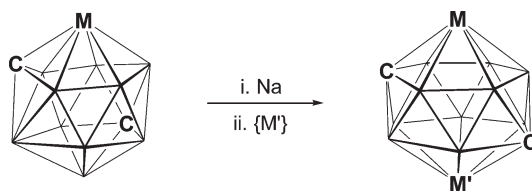
A convenient, simple, single source solution synthesis of Ge nanocrystals *via* thermal reduction of Ge(II) precursor $\text{Ge}[\text{N}(\text{SiMe}_3)_2]_2$ in a non-coordinating solvent at 300 °C and 1 atm Ar.

1917

Fourteen-vertex homo- and heterobimetallic metallocarboranes

David Ellis, Maria Elena Lopez, Ruairaidh McIntosh, Georgina M. Rosair and Alan J. Welch*

Reduction of 4-(*p*-cymene)-4,1,12-*closo*-RuC₂B₁₀H₁₂ followed by metallation with cobalt-, ruthenium- or nickel-ligand fragments affords 14-vertex homo- and heterobimetallic metallocarboranes with 1,14,2,10-RuM'C₂B₁₀ bicapped hexagonal antiprismatic architectures.



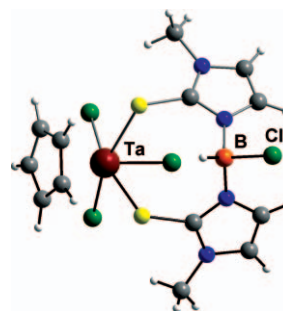
M = {(*p*-cymene)Ru}
M' = {CpCo}, {(C₆H₆)Ru}, {(*p*-cymene)Ru}, {(dppe)Ni}

1920

Novel poly(methimazolyl)borate complexes of niobium(V) and tantalum(V)

Anthony F. Hill* and Matthew K. Smith

The reactions of [MCl₄(η-C₅H₅)] (M = Nb, Ta) with Ph₃Sn{HB(mt)₃} (mt = methimazolyl) provide structurally characterised complexes of the novel chlorobis(methimazolyl)borate ligand, [MCl₃(η-C₅H₅){κ²-S,S'-HCIB(mt)₂}], the first examples of early transition metal poly(methimazolyl)borate complexes.



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