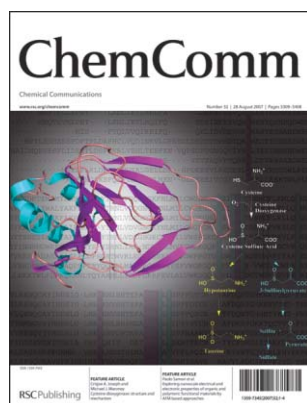


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Cover

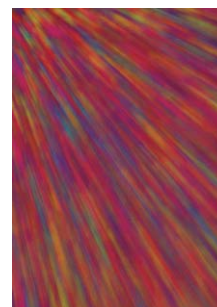
See Crisjoe A. Joseph and Michael J. Maroney, page 3338. Ribbon diagram of cysteine dioxygenase (CDO), an enzyme that converts cysteine to cysteine sulfinic acid. The background shows sequence alignments of various CDOs. Image reproduced by permission of Crisjoe A. Joseph and Michael J. Maroney, from *Chem. Commun.*, 2007, 3338.

EDITORIAL

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Important news for authors of articles containing X-ray crystallography

New guidelines for the assessment and publication of X-ray crystallography in RSC Journals have been announced.



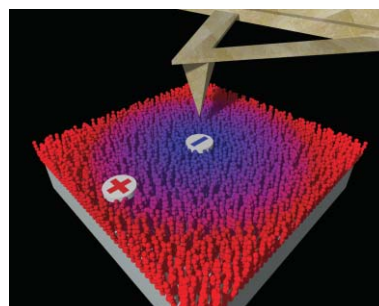
FEATURE ARTICLES

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Exploring nanoscale electrical and electronic properties of organic and polymeric functional materials by atomic force microscopy based approaches

Vincenzo Palermo, Andrea Liscio, Matteo Palma, Mathieu Surin, Roberto Lazzaroni and Paolo Samori*

This Feature Article describes two atomic force microscopy (AFM) modes, *i.e.* conducting-AFM and Kelvin probe force microscopy. These nanotools make it possible to gain quantitative insight into the (dynamic) electrical properties of nanostructured organic thin films with a nanoscale resolution.



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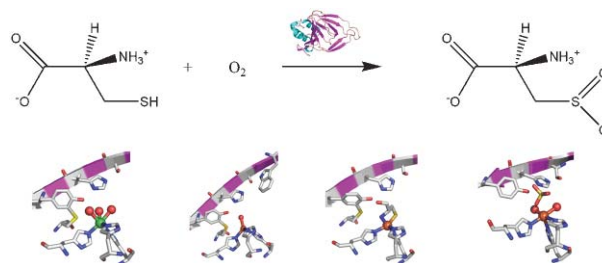
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Cysteine dioxygenase: structure and mechanism

Crisjoe A. Joseph and Michael J. Maroney*

A review addressing reaction mechanism and structure/function relationships in cysteine dioxygenase in light of recent structural and kinetic studies.



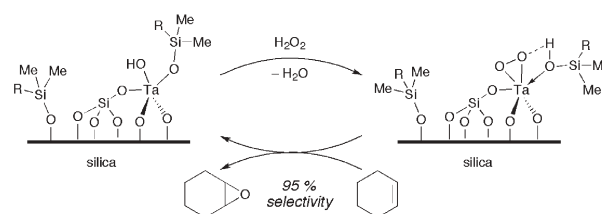
COMMUNICATIONS

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Highly selective olefin epoxidation with aqueous H₂O₂ over surface-modified TaSBA15 prepared via the TMP method

Daniel A. Ruddy and T. Don Tilley*

Trialkylsiloxy-modified Ta(v) centers on silica exhibit excellent selectivity for epoxide formation in cyclohexene oxidation using H₂O₂ as the oxidant; these catalysts exhibit an increased lifetime, retaining high selectivity after 6 h.

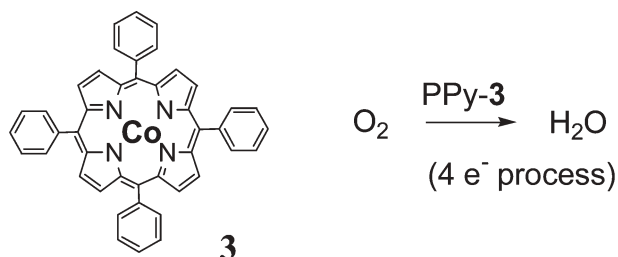


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A readily-prepared, convergent, oxygen reduction electrocatalyst

Jun Chen, Weimin Zhang, David Officer, Gerhard F. Swiegers* and Gordon G. Wallace*

Monomeric cobalt(II) tetraphenylporphyrin immobilized in high concentrations within vapour-phase polymerized polypyrrole deposited on an ITO electrode catalyzes the 4-electron reduction of dioxygen to water, a reaction requiring concerted action by two separate catalytic groups.

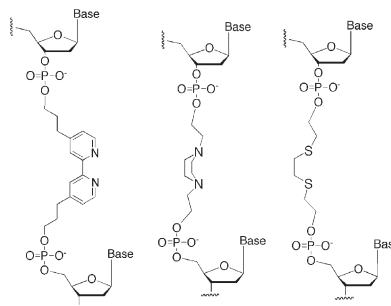


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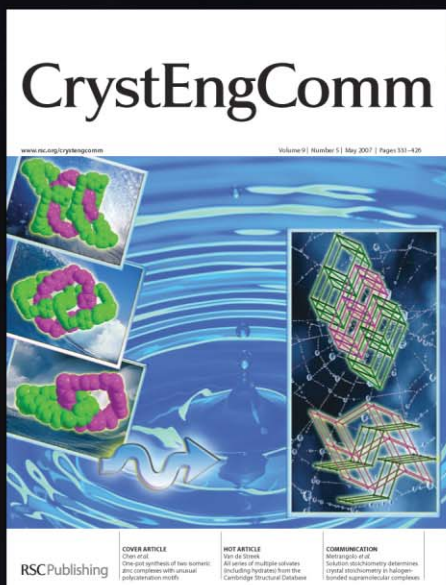
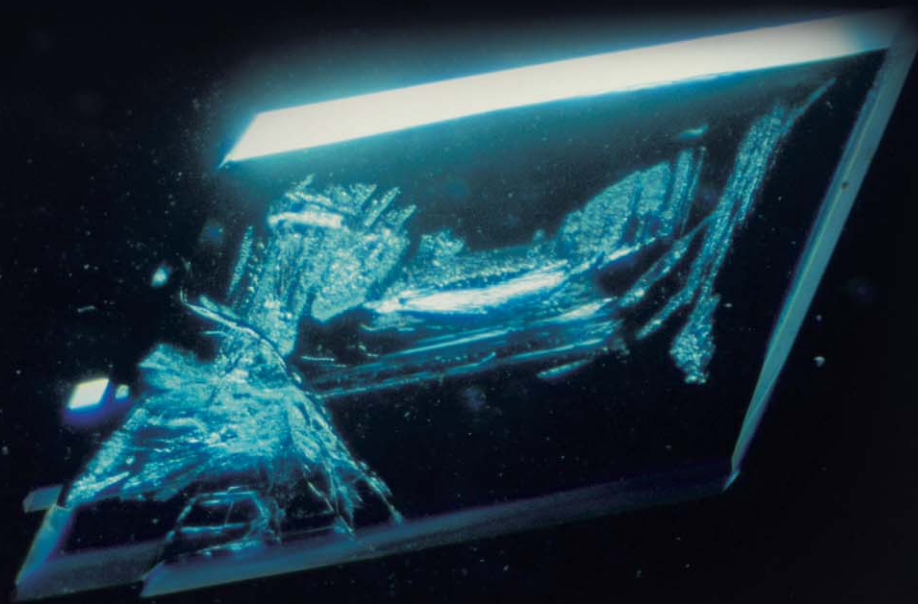
Ligand-based backbone modifications for metal-chelating nucleic acids

Megan M. Knagge and Jonathan J. Wilker*

Ligands were incorporated into the backbone of DNA as nucleoside replacements, and the binding of metal ions, such as Cu²⁺, Pt²⁺ and Pd⁴⁺, was shown to influence stability of the resulting duplexes.



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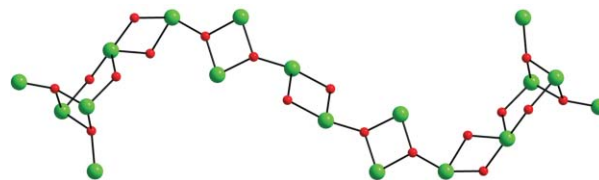
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A discrete Fe₁₈ ‘molecular chain’

Rashmi Bagai, Khalil A. Abboud and George Christou*

The initial use of *N,N'*-bis(2-hydroxyethyl)ethylenediamine (heenH₂) in transition metal cluster chemistry has led to Fe₆ and Fe₁₈ molecular compounds, the latter with an unusual double-headed serpentine chain structure.

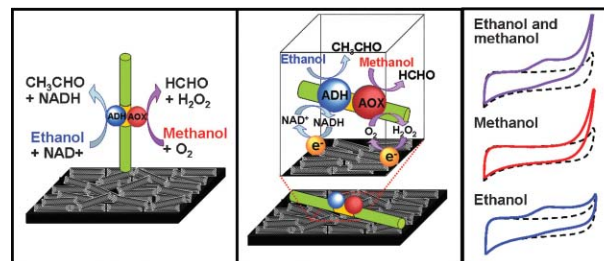


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Adaptive nanowire–nanotube bioelectronic system for on-demand bioelectrocatalytic transformations

Rawiwan Laocharoensuk, Andrea Bulbarello, Saverio Mannino and Joseph Wang*

An integrated nanobioelectronic system, exploiting the distinct properties of nanowires and carbon-nanotubes, has been designed for triggering reversibly and on-demand bioelectrocatalytic transformations of alcohols.

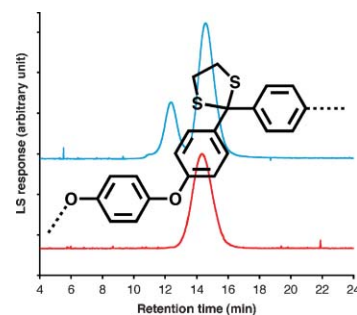


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Dithioacetalisation of PEEK: a general technique for the solubilisation and characterisation of semi-crystalline aromatic polyketones

Howard M. Colquhoun,* Francois P. V. Paoloni, Michael G. B. Drew and Philip Hodge*

Crystalline aromatic poly(ether-ketone)s such as PEEK are insoluble in conventional solvents, but react quantitatively with alkanedithiols in strong acid media, to give amorphous, soluble poly(dithioacetals), characterisable by GPC and light scattering techniques.

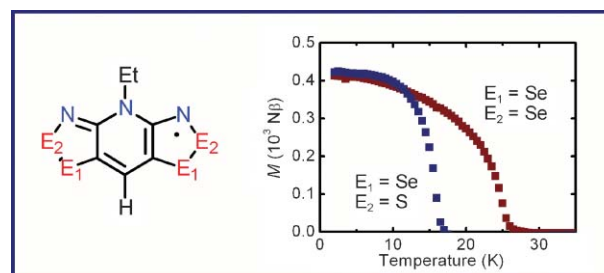


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Spin-canting in heavy atom heterocyclic radicals

Alicea A. Leitch, Jaclyn L. Brusso, Kristina Cvrkalj, Robert W. Reed, Craig M. Robertson, Paul A. Dube and Richard T. Oakley*

A pair of isostructural *bis*-selenathiazolyl and *bis*-diselenazolyl radical conductors display weak (spin-canted) ferromagnetism with *T_c* values of 18 K and 27 K respectively.



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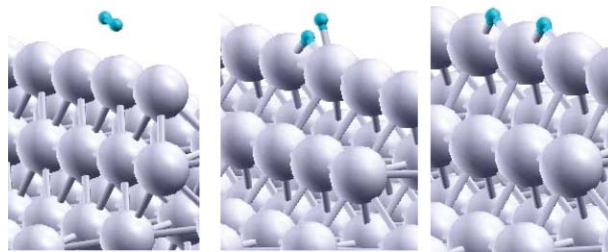
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On the activation of molecular hydrogen by gold: a theoretical approximation to the nature of potential active sites

Avelino Corma,* Mercedes Boronat, Silvia González and Francesc Illas

The DF study of adsorption and dissociation of H₂ on perfect and defective gold surfaces and on isolated nanoparticles allows us to conclude that the presence of low coordinated Au atoms is the necessary and sufficient condition for H₂ dissociation by gold catalysts.

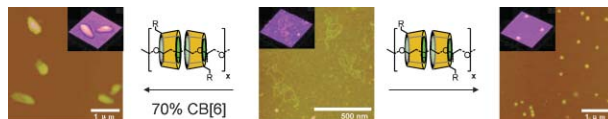


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Controllable DNA condensation through cucurbit[6]uril in 2D pseudopolyrotaxanes

Chen-Feng Ke, Sen Hou, Heng-Yi Zhang, Yu Liu,* Kun Yang and Xi-Zeng Feng*

2D pseudopolyrotaxanes containing β -cyclodextrins and cucurbit[6]urils can induce DNA condensation, and the number of cucurbit[6]urils threaded onto the side chains of β -cyclodextrins plays important roles in this process.

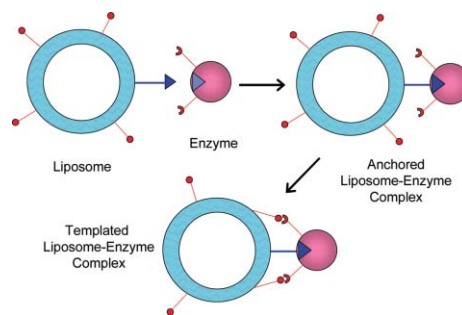


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A strategy for designing “multi-prong” enzyme inhibitors by incorporating selective ligands to the liposomal surface

Adekunle I. Elegbede, Manas K. Haldar, Sumathra Manokaran, Joel Kooren, Bidhan C. Roy, Sanku Mallik* and D. K. Srivastava*

We offer a novel strategy for designing “multi-prong” inhibitors of enzymes by incorporating selective ligands on the liposomal surface.

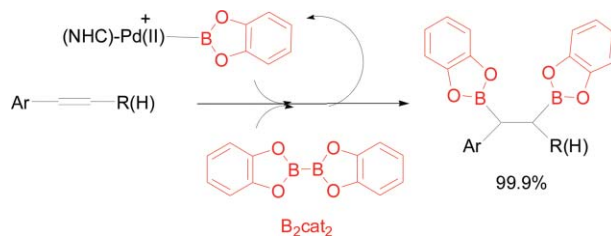


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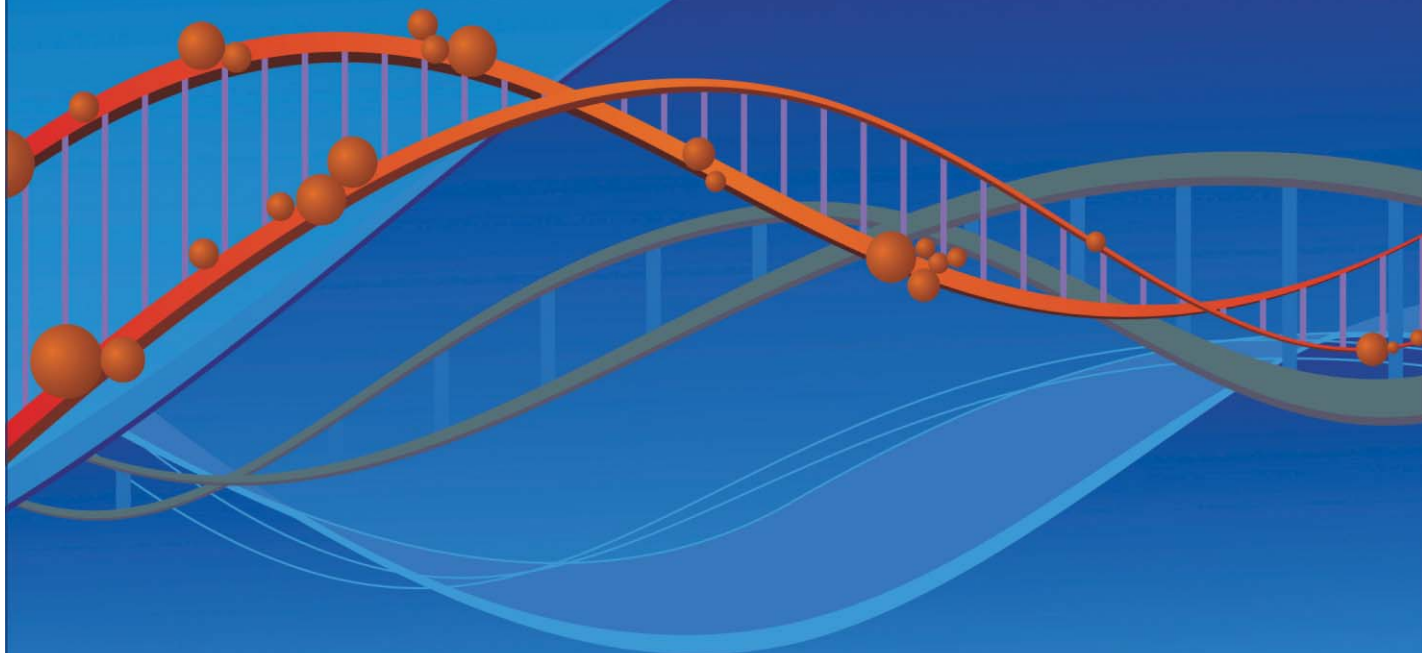
Palladium–NHC complexes do catalyse the diboration of alkenes: mechanistic insights

Vanesa Lillo, Elena Mas-Marzá, Anna M. Segarra, Jorge J. Carbó, Carles Bo,* Eduardo Peris* and Elena Fernandez*

Palladium(II)–NHC complexes (NHC = N-heterocyclic carbene ligand) are very efficient catalysts for 1,2-diboration of alkenes, representing the first example of Pd catalysing this B–B addition.



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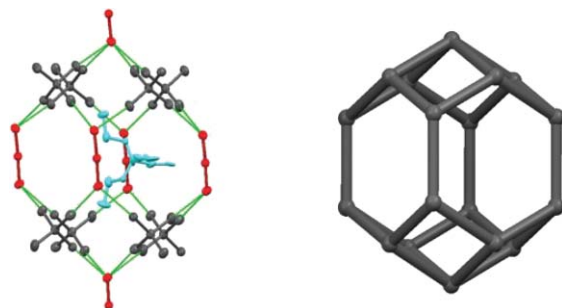
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Halogen-bonded assembly of hybrid inorganic/organic 3D-networks from dibromocuprate salts and tetrabromomethane

Sergiy V. Rosokha, Jianjiang Lu, Tetyana Y. Rosokha and Jay K. Kochi*

The efficiency of the *halogen-bonding motif* (green lines) is underscored in the synthesis of unusual 4,5-connected elongated dodecahedra (encapsulated with tetra-*n*-propylammonium counterion in light blue) in hybrid 3D-networks consisting of the dibromocuprate(I) salt (red) and CBr_4 (black) dyads.

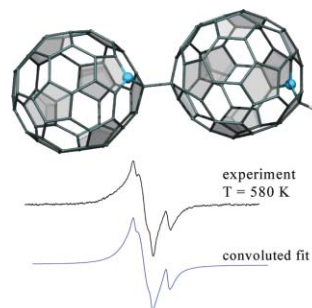


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Stability, thermal homolysis and intermediate phases of solid hydroza fullerene C_{59}HN

Denis Arçon,* Matej Pregelj, Pavel Cevc, Georgios Rotas, Georgia Pagona, Nikos Tagmatarchis* and Chris Ewels*

DFT calculations, high-temperature EPR and TEM results suggest that thermal homolysis of C_{59}HN involves a unique, remarkably stable intermediate $\text{C}_{59}\text{N}-\text{C}_{59}\text{HN}^{\bullet}$ structure characterised by charge redistribution from a $\text{C}_{59}\text{N}^{\bullet}$ radical to a bonded C_{59}HN . This could be important for the preparation of $\text{C}_{59}\text{N}^{\bullet}@\text{CNT}$ peapod structures.

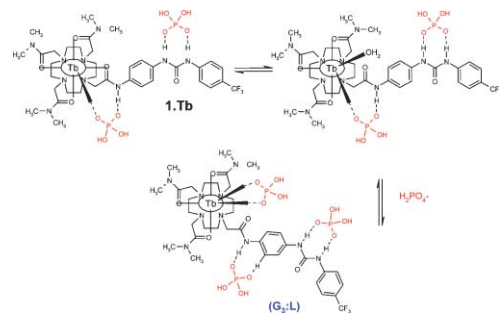


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Lanthanide luminescent anion sensing: evidence of multiple anion recognition through hydrogen bonding and metal ion coordination

Cidália M. G. dos Santos, Pablo Barrio Fernández, Sally E. Plush, Joseph P. Leonard and Thorfinnur Gunnlaugsson*

The sensing of anions by the use of hydrogen bonding and Tb(III) metal ion binding is described where both a strong anion binding, as well as multiple binding interactions between a lanthanide ion complex and anions is observed.

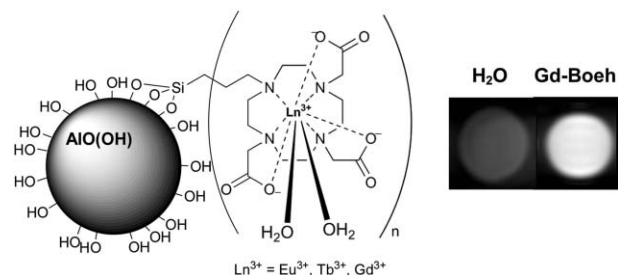


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One-pot preparation of surface modified boehmite nanoparticles with rare-earth cyclen complexes

Estefanía Delgado-Pinar, Juan C. Frías,* Luis J. Jiménez-Borreguero, M. Teresa Albelda, Javier Alarcón* and Enrique García-España*

Boehmite nanoparticles modified with cyclen derivatives show interesting properties as potential contrast agents for MRI and as fluorescence probes.



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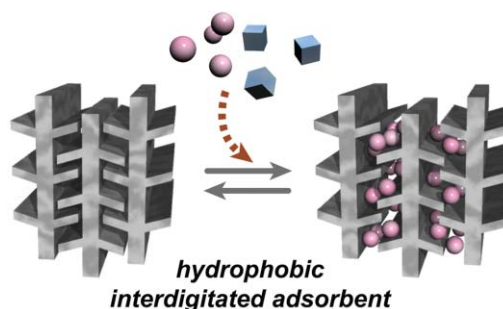
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Selective guest sorption in an interdigitated porous framework with hydrophobic pore surfaces

Satoshi Horike, Daisuke Tanaka, Keiji Nakagawa and Susumu Kitagawa*

An interdigitated porous coordination polymer with hydrophobic pore surface shows size and affinity dependent selective gas sorption properties accompanying the reversible structure transformation.

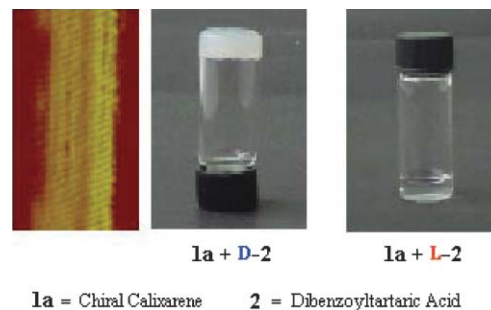


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Enantioselective nanofiber-spinning of chiral calixarene receptor with guest

Yan-Song Zheng,* Ao Ji, Xian-Jie Chen and Jin-Lan Zhou

Chiral *para-tert*-butylcalix[4]arene bearing (*S*)- α -methylbenzylamine groups at lower rim only self-assembles with one of two enantiomers of 2,3-dibenzoyltartaric acid into coiled nanofibers and the coiled nanofibers only stack with the nanofibers having the same handedness to construct bigger ribbon-like fibers bearing porosity. This finding mimics the biomolecular homochirality in nature not only at molecular level but also at nanometer level.

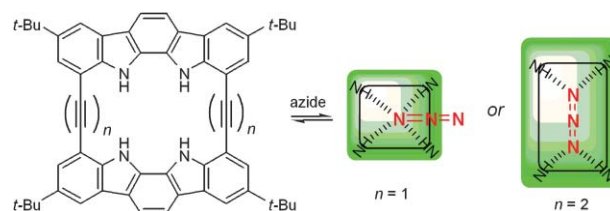


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Two distinct anion-binding modes and their relative stabilities

Nam-Kyun Kim, Kyoung-Jin Chang, Dohyun Moon, Myoung Soo Lah* and Kyu-Sung Jeong*

Two distinct hydrogen-bonding modes, end-on coordination and more stable end-to-end coordination, have been observed in complexes of macrocycles with azide.

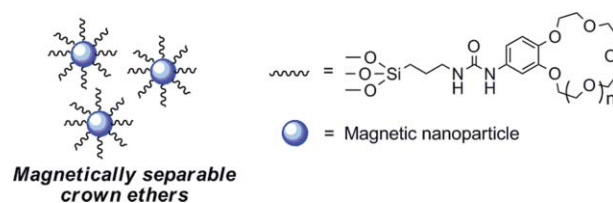


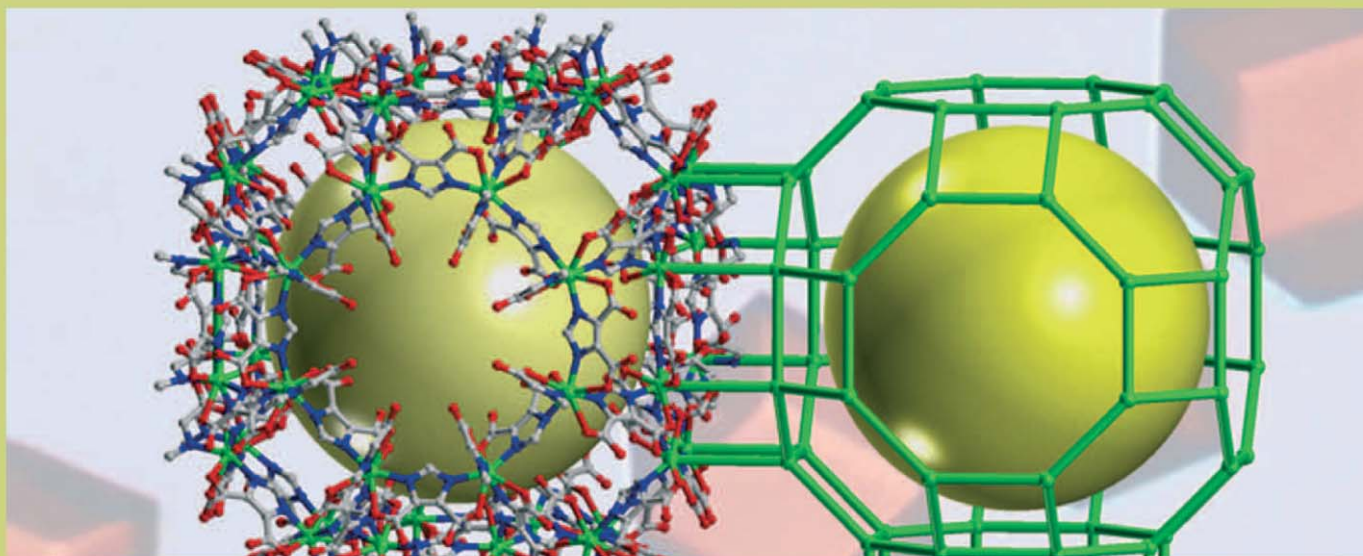
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Magnetic nanoparticle-supported crown ethers

Masato Kawamura and Kazuhiko Sato*

Magnetic nanoparticle (MNP)-supported crown ethers were prepared and evaluated as catalysts for solid-liquid phase-transfer reactions. The catalysts could be readily separated using an external magnet and reused without significant loss of catalytic efficiency.





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Poly(vinyl alcohol)-graft-poly(ethylene glycol) resins and their use in solid-phase synthesis and supported TEMPO catalysis

Juntao Luo, Christophe Pardin, William D. Lubell and X. X. Zhu

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