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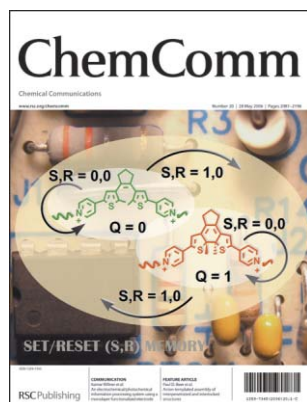
Chemical Communications

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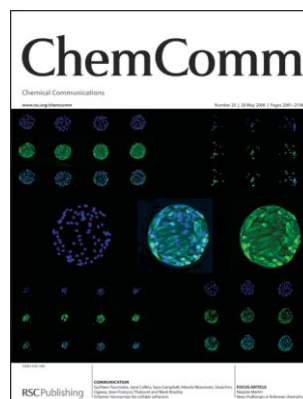
ISSN 1359-7345 CODEN CHCOFS (20) 2081–2196 (2006)



Cover

See Itamar Willner *et al.*, page 2147.

An electroactive and photoisomerizable monolayer linked to an electrode acts as a Write–Read–Erase system and as a Set–Reset memory device. Image reproduced by permission of Ronan Baron, Avital Onopriyenko, Eugenio Katz, Oleg Lioubashevski, Itamar Willner, Sheng Wang and He Tian from *Chem. Commun.*, 2006, 2147.



Inside cover

See Mark Bradley *et al.*, page 2118.

Polymer microarrays for selective binding and immobilisation of primary cells. Image reproduced by permission of Guilhem Tourniaire, Jane Collins, Sara Campbell, Hitoshi Mizomoto, Shuichiro Ogawa, Jean-François Thaburet and Mark Bradley from *Chem. Commun.*, 2006, 2118.

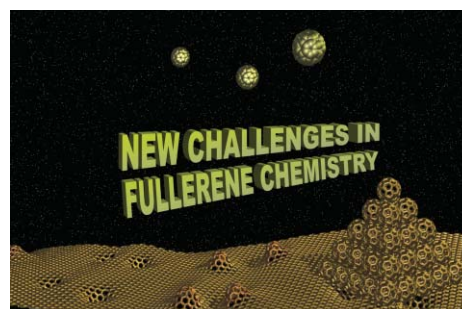
FOCUS ARTICLE

2093

New challenges in fullerene chemistry

Nazario Martín

In celebration of the tenth anniversary of the fullerenes Nobel Award, the recent achievements and future challenges of fullerene science, emphasizing their most realistic potential applications, are discussed in this focus article.



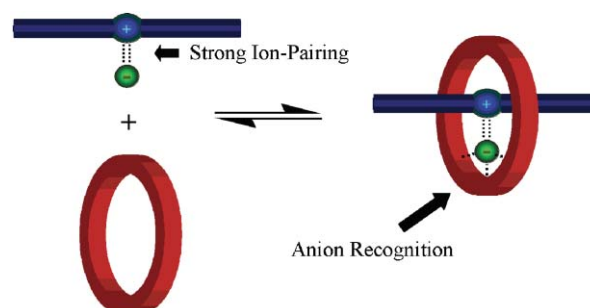
FEATURE ARTICLE

2105

Anion-templated assembly of interpenetrated and interlocked structures

Paul D. Beer,* Mark R. Sambrook and David Curiel

The rational development of a general anion templation strategy for the construction of interpenetrated and interlocked molecular structures based upon the coupling of anion recognition with ion-pairing is described.



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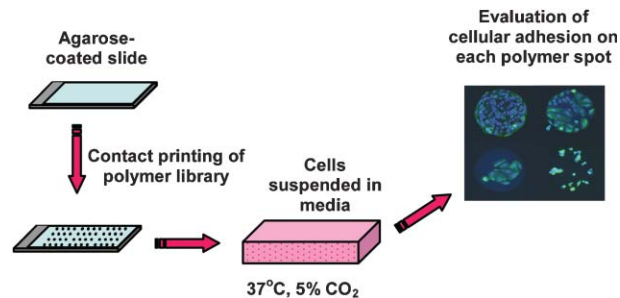
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Polymer microarrays for cellular adhesion

Guilhem Tourniaire, Jane Collins, Sara Campbell, Hitoshi Mizomoto, Shuichiro Ogawa, Jean-François Thaburet and Mark Bradley*

High-throughput screening of polymer libraries for selective cellular adhesion on a microarray platform was developed using a novel substrate to prevent non-specific cell binding.



2121

Effect of residual monomer on the spectroscopic properties of polythiophenes

Yu Wang, Ashley A. Mills, William B. Euler and Brett L. Lucht*

The addition of some small molecules, including residual monomer, can red shift UV-Visible absorption and quench the fluorescence of poly(3-octadecylthiophene).

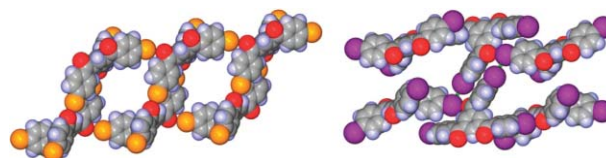


2123

Relative importance of X...O=C vs. X...X halogen bonding as structural determinants in 4-halotriarylbenzenes

F. Christopher Pigge,* Venu R. Vangala and Dale C. Swenson

The structures of 4-chloro- and 4-bromotribenzoylbenzene, as well as a solid solution prepared from these two components, are isomorphous and dominated by C-X...O=C interactions, whereas type-II I...I interactions are important in the 4-iodo derivative.

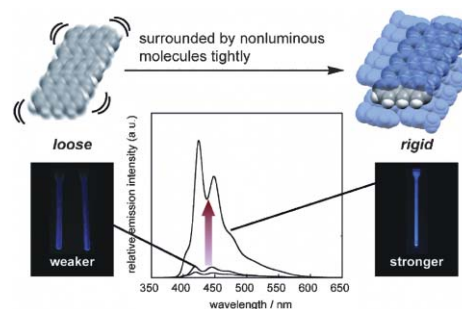


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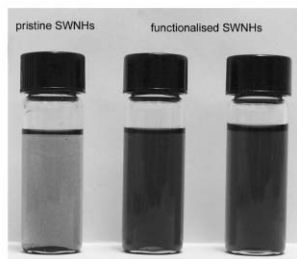
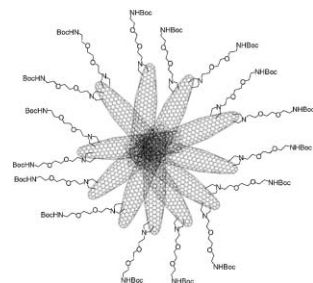
A novel strategy for fluorescence enhancement in the solid-state: affording rigidity to fluorophores packing

Yuji Mizobe, Hiromichi Ito, Ichiro Hisaki, Mikiji Miyata, Yasuchika Hasegawa and Norimitsu Tohnai*

Rigid packing around fluorophores prepared by using an organic salt system shows significant enhancement of solid-state fluorescence intensity, indicating that rigidity of the arrangement of anthracene moieties plays an important role in the fluorescence enhancement.



2129

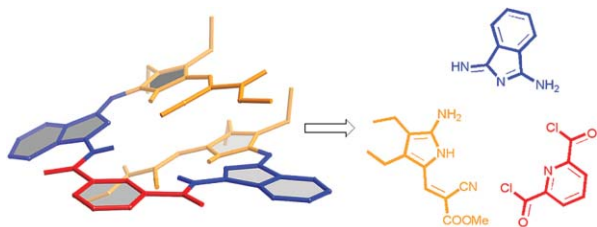


Functionalisation of carbon nanohorns

Carla Cioffi, Stéphane Campidelli,* Fulvio G. Brunetti, Moreno Meneghetti* and Maurizio Prato*

The functionalisation of single wall carbon nanohorns *via* 1,3-dipolar cycloaddition as well as their characterisation by spectroscopy, microscopy and thermogravimetry is reported.

2132

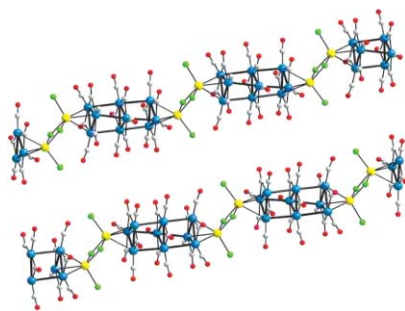


2-Amino-3,4-diethylpyrrole derivatives: New building blocks for coiled structures

G. Dan Pantoş, M. Salomé Rodríguez-Morgade, Tomás Torres,* Vincent M. Lynch and Jonathan L. Sessler*

A multicomponent, mixed oligomer based on α -aminopyrrole adopts a coiled structure in the solid state and serves as a prototype of a possible new class of hydrogen bond based helicates.

2135

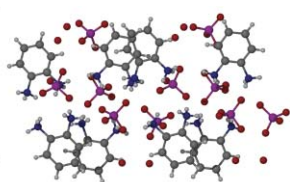
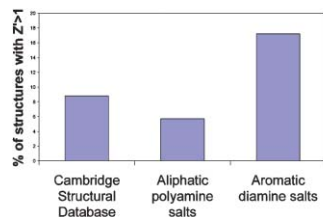


Copolymerisation of Pt-carbonyl clusters with Lewis acids: synthesis and crystal structure of the molecular $\{Cd_2Cl_4[Pt_9(CO)_{18}]^{2-}\}_\infty$ 1-D polymer

Cristina Femoni, Francesco Kaswalder, Maria Carmela Iapalucci, Giuliano Longoni* and Stefano Zacchini

A 1-D $\{[Pt_9(CO)_{18}(\mu_3-CdCl_2)_2]^{2-}\}_\infty$ polymer formed by the self-assembly of $[Pt_9(CO)_{18}(\mu_3-CdCl_2)_2]^{2-}$ upon crystallisation *via* the formation of chloride bridges.

2138



Unusual variations in the incidence of $Z' > 1$ in oxo-anion structures

Kirsty M. Anderson, Andres E. Goeta, Kirsty S. B. Hancock and Jonathan W. Steed*

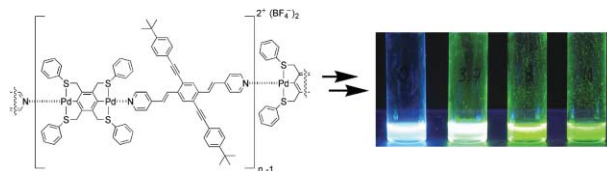
Aliphatic polyamine salts generally form strongly hydrogen bonded networks with a preference for $Z' = 1/2$ or 1, in keeping with database studies on ionic species. When a competing interaction is introduced by replacing aliphatic polyamines with aromatic ones, structures with higher Z' are formed more readily.

2141

Supramolecular cruciforms

Warren W. Gerhardt, Anthony J. Zucchero, James N. Wilson, Clinton R. South, Uwe H. F. Bunz* and Marcus Weck*

Metal coordination between a bis-Pd-pincer complex and a dipyriddy cruciform generating supramolecular oligomers and polymers with tunable fluorescent and materials properties.

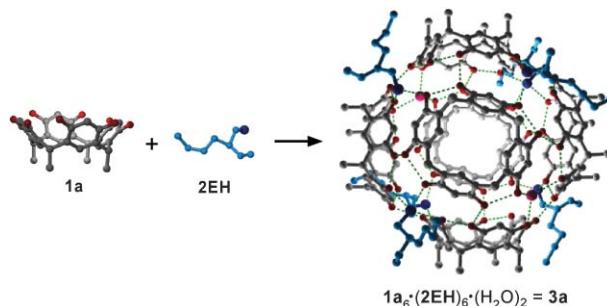


2144

An achiral form of the hexameric resorcin[4]arene capsule sustained by hydrogen bonding with alcohols

Onome Ugono and K. Travis Holman*

The well-known hexameric capsules sustained by self-assembly of resorcin[4]arenes **1** with water molecules ($\mathbf{1}_6 \cdot (\text{H}_2\text{O})_8$) are shown to assemble similarly with (\pm)-2-ethylhexanol (**2EH**) as an achiral $\mathbf{1}_6 \cdot (\mathbf{2EH})_6 \cdot (\text{H}_2\text{O})_2$ species which further encapsulates three molecules of **2EH**.

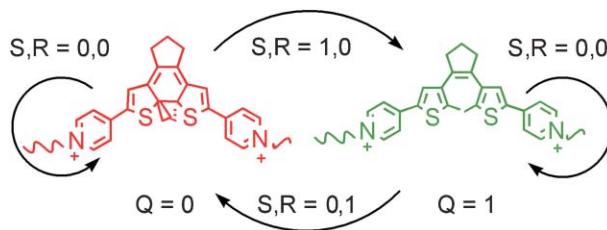


2147

An electrochemical/photochemical information processing system using a monolayer-functionalized electrode

Ronan Baron, Avital Onopriyenko, Eugenii Katz, Oleg Lioubashevski, Itamar Willner,* Sheng Wang and He Tian

An electroactive and photoisomerizable monolayer associated with a Au electrode acts as a Write–Read–Erase information processing system and as a flip-flop Set/Reset memory element.

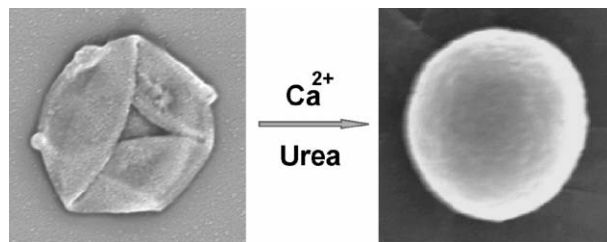


2150

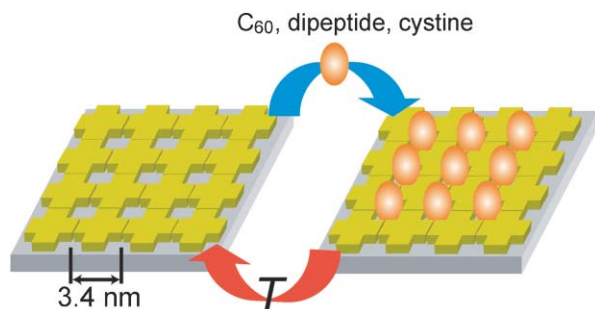
Nanoassembly of biocompatible microcapsules for urease encapsulation and their use as biomimetic reactors

Aimin Yu, Ian Gentle,* Gaoqing Lu* and Frank Caruso

Biocompatible polypeptide capsules with high enzyme loading and activity prepared by templating mesoporous silica spheres were used as biomimetic reactors for performing CaCO_3 synthesis exclusively inside the capsule interior *via* urease-catalyzed urea hydrolysis.



2153

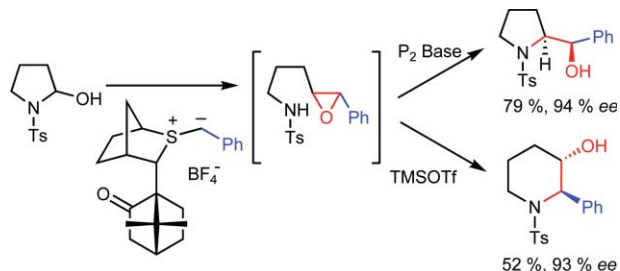


Non-covalent binding of fullerenes and biomolecules at surface-supported metallosupramolecular receptors

Sebastian Stepanow, Nian Lin,* Johannes V. Barth and Klaus Kern

Two-dimensional metallosupramolecular nanocavities behave as supramolecular receptors that bind a single or a discrete number of cystine, C_{60} , and diphenylalanine molecules reversibly through non-covalent interactions. High-resolution scanning tunneling microscopy allows us to follow the binding and release of the guest species at a single-molecular level.

2156

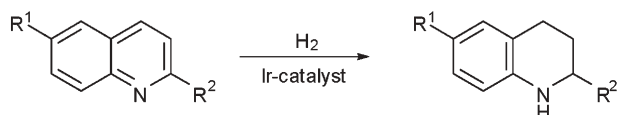


Hemiaminals as substrates for sulfur ylides: Direct asymmetric syntheses of functionalised pyrrolidines and piperidines

Christoforos G. Kokotos and Varinder K. Aggarwal*

Hemiaminals react with sulfur ylides to give functionalised pyrrolidines and piperidines with high diastereo- and enantiocontrol.

2159

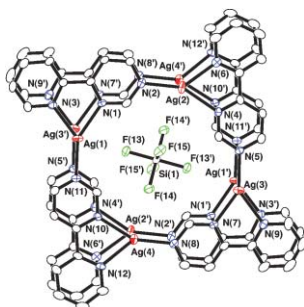


Asymmetric hydrogenation of quinolines catalyzed by iridium complexes of BINOL-derived diphosphonites

Manfred T. Reetz* and Xiaoguang Li

Tetrahydroquinolines are accessible with high enantiomeric purity (up to 96% ee) by the Ir-catalyzed hydrogenation of quinolines using a BINOL-derived diphosphonite with an achiral backbone based on diphenyl ether.

2161



Sandwich-shaped silver(I) metallomacrocycles encapsulating a XF_6^{2-} (X = Si, Ge and Sn) anion

Masahiko Maekawa,* Susumu Kitagawa,* Takayoshi Kuroda-Sowa and Megumu Munakata

A series of sandwich-shaped complexes based on two square tetranuclear Ag(I) metallomacrocycles, $\{[Ag_4(pprd)_4]_2(XF_6)\}(BF_4)_6 \cdot 8MeNO_2$ (pprd = 4-(2-pyridyl)pyrimidine; X = Si, Ge and Sn), in which a XF_6^{2-} anion is encapsulated, were prepared and their structures were characterized both in the solid state and solution.

2164

Bond length and bond multiplicity: σ -bond prevents short π -bonds

Eluvathingal D. Jemmis,* Biswarup Pathak, R. Bruce King and Henry F. Schaefer III

Analysis of model compounds such as $\text{Fe}_2(\text{CO})_6$, C_2 and HBBH shows that π -bonds left to themselves are shorter than σ -bonds; in many ways σ -bonds prevent π -bonds from adopting their optimal shorter distances.

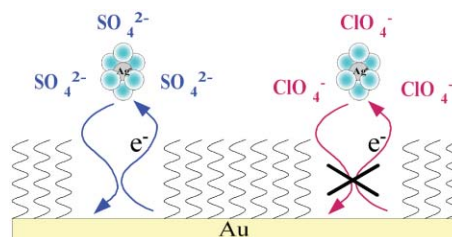


2167

Sieving behaviour of nanoscopic pores by hydrated ions

Joochan Lee and Juhyoun Kwak*

In this study, for the first time, the anion dependency of Ag-deposition on self-assembled monolayers (SAMs) with alkyl chains long enough to meet the densely packed and well-organized surface is reported. Irrespective of pH, types of terminal groups of the SAMs, and the convective mass transfer condition, SAM structures show the “sieving behaviour” to the Ag deposition by the composition of the electrolytes.

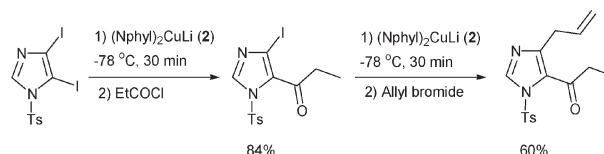


2170

Selective functionalization of imidazoles via an iodine–copper exchange reaction

Xiaoyin Yang and Paul Knochel*

The reaction of protected 4,5-diiodimidazoles with $(\text{PhMe}_2\text{CCH}_2)_2\text{CuLi}$ regioselectively provides 5-cuprated imidazoles, which readily react with various electrophiles furnishing functionalized imidazoles in good yields. Remarkably, these resulting mono-iodoimidazoles undergo again an iodine–copper exchange reaction in the presence of sensitive functional groups, like an aldehyde or a ketone.

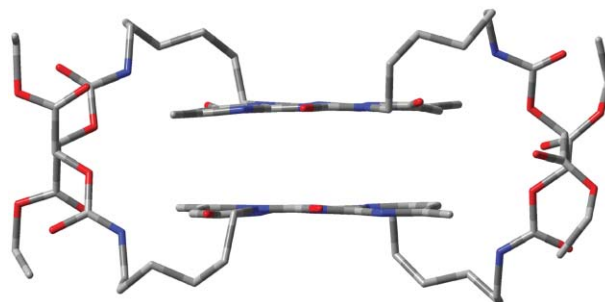


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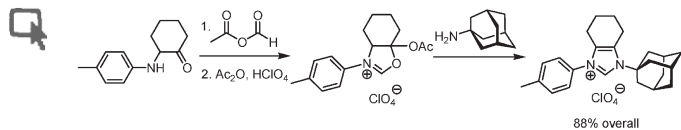
Highly stable cyclic dimers based on non-covalent interactions

Valérie G. H. Lafitte, Abil E. Aliev,* Peter N. Horton, Michael B. Hursthouse and Helen C. Hailes*

Highly stable cyclic dimers have been generated using a combination of non-covalent interactions, including multiple hydrogen bonding, parallel stacking and hydrophobic shielding.



2176

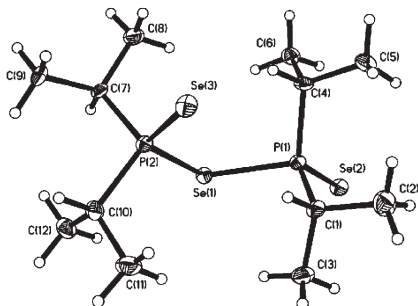


Convenient, scalable and flexible method for the preparation of imidazolium salts with previously inaccessible substitution patterns

Alois Fürstner,* Manuel Alcarazo, Vincent César and Christian W. Lehmann

A high yielding and modular approach to *N,N'*-disubstituted imidazolium salts is described, providing access to substitution patterns that are beyond the reach of established methodology.

2179

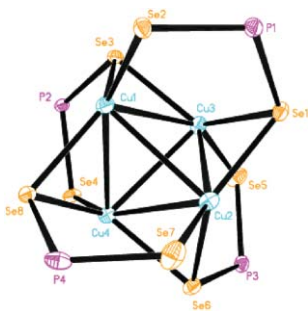


Facile and reproducible syntheses of bis(dialkylselenophosphanyl)-selenides and -diselenides: X-ray structures of $({}^i\text{Pr}_2\text{PSe})_2\text{Se}$, $({}^i\text{Pr}_2\text{PSe})_2\text{Se}_2$ and $(\text{Ph}_2\text{PSe})_2\text{Se}$

Chinh Q. Nguyen, Adekunle Adeogun, Mohammad Afzaal, Mohammad A. Malik and Paul O'Brien*

Facile and reproducible methods for the syntheses of bis(di-iso-propylselenophosphanyl)selenide (**1**), bis(di-iso-propylselenophosphanyl)diselenide (**2**) and bis(di-phenylselenophosphanyl)selenide (**3**) is reported.

2182

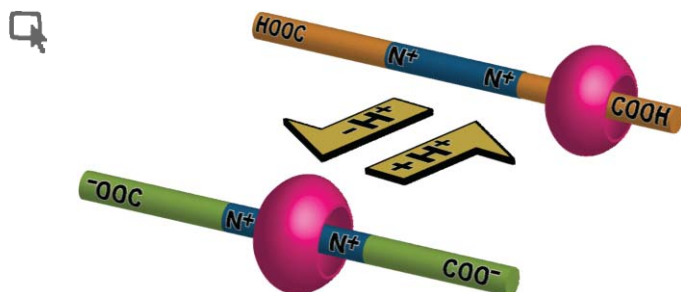


Metal complexes of selenophosphinates from reactions with $(\text{R}_2\text{PSe})_2\text{Se}$: $[\text{M}(\text{R}_2\text{PSe}_2)_n]$ ($\text{M} = \text{Zn}^{\text{II}}, \text{Cd}^{\text{II}}, \text{Pb}^{\text{II}}, \text{In}^{\text{III}}, \text{Ga}^{\text{III}}, \text{Cu}^{\text{I}}, \text{Bi}^{\text{III}}, \text{Ni}^{\text{II}}$; $\text{R} = {}^i\text{Pr}, \text{Ph}$) and $[\text{Mo}_2\text{O}_2\text{Se}_2(\text{Se}_2\text{P}^i\text{Pr}_2)_2]$

Chinh Q. Nguyen, Adekunle Adeogun, Mohammad Afzaal, Mohammad A. Malik and Paul O'Brien*

The reactions of bis(dialkylselenophosphanyl)selenide with a series of metals have been investigated. Syntheses of several metal selenophosphinate complexes and their structures are reported.

2185



Switching a molecular shuttle on and off: simple, pH-controlled pseudorotaxanes based on cucurbit[7]uril

Vladimir Sindelar, Serena Silvi and Angel E. Kaifer*

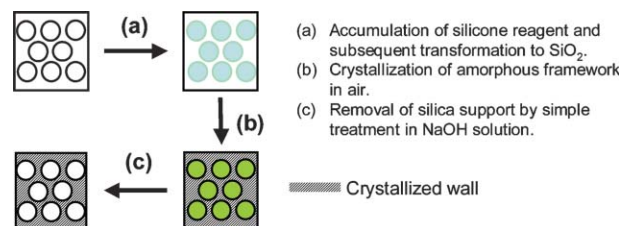
Structurally simple cucurbit[7]uril-based pseudorotaxanes can be reversibly switched between a degenerate molecular shuttle state—at low pH—to a state in which the wheel resides in the center viologen residue of the dumbbell at high pH.

2188

Synthesis of crystallized mesoporous transition metal oxides by silicone treatment of the oxide precursor

Nao Shirokura, Kiyotaka Nakajima, Akira Nakabayashi, Daling Lu, Michikazu Hara, Kazunari Domen, Takashi Tatsumi and Junko N. Kondo*

Ordered mesoporous transition metal oxides were successfully crystallized after strengthening the amorphous framework by a silica layer, which efficiently protected the original mesoporous structure against crystallization and resulting mass transfer.

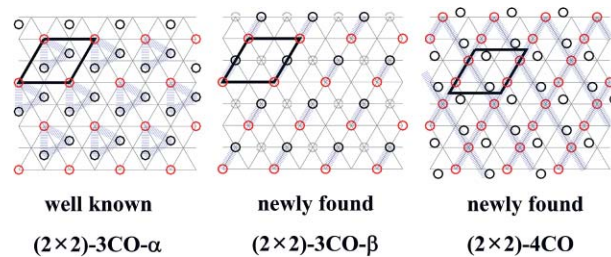


2191

Electrochemical STM observation of new structures of CO adsorbed on a Pt(111) electrode surface

Changhoon Jung, Bonseong Ku, Jandee Kim and Choong Kyun Rhee*

Two newly observed adstructures of CO on a Pt(111) surface.



ADDITIONS AND CORRECTIONS

2194

Functionalisation of carbon nanohorns

Carla Cioffi, Stéphane Campidelli, Fulvio G. Brunetti, Moreno Meneghetti and Maurizio Prato

Synthesis of crystallized mesoporous transition metal oxides by silicone treatment of the oxide precursor


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