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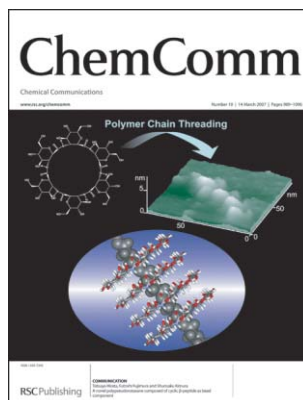
IN THIS ISSUE

ISSN 1359-7345 CODEN CHCOFS (10) 989-1096 (2007)



Cover

See Francesco Naso *et al.*, page 1003. The image shows the structures of durable fluorinated materials superimposed on the everlasting "Castel del Monte", a castle built by the Swabian Emperor Frederick II near Bari (Italy) in 1245. Image reproduced by permission of Francesco Babudri, Gianluca M. Farinola, Francesco Naso and Roberta Ragni, from *Chem. Commun.*, 2007, 1003.



Inside cover

See Shunsaku Kimura *et al.*, page 1023. A novel polypseudorotaxane composed of a peptide nanotube and poly(ethylene glycol) having a large dipole. Image reproduced by permission of Tatsuya Hirata, Futoshi Fujimura and Shunsaku Kimura, from *Chem. Commun.*, 2007, 1023.

CHEMICAL TECHNOLOGY

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March 2007/Volume 4/Issue 3

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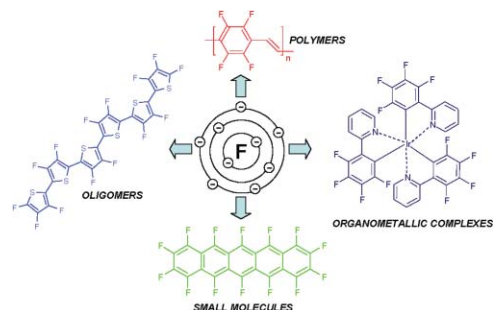
FEATURE ARTICLE

1003

Fluorinated organic materials for electronic and optoelectronic applications: the role of the fluorine atom

Francesco Babudri, Gianluca M. Farinola, Francesco Naso* and Roberta Ragni

In this article we highlight the features of some classes of fluorinated conjugated materials and their use in electronic devices. A variety of fluorinated conjugated systems are dealt with.



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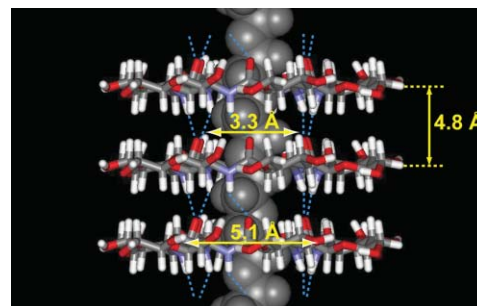
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1023

A novel polypseudorotaxane composed of cyclic β -peptide as bead component

Tatsuya Hirata, Futoshi Fujimura and Shunsaku Kimura*

The authors prepared a novel polypseudorotaxane composed of a PEG chain and cyclic hexa- β -peptides having sugar units. A notable feature of this polyrotaxane is the self-assembling of the beads into a peptide nanotube.

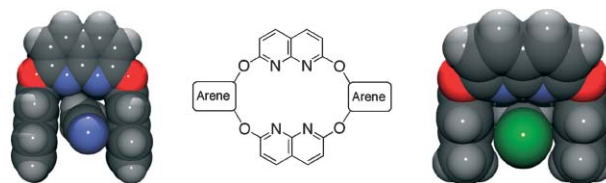


1026

Oxalixarenes and oxacyclophanes containing 1,8-naphthyridines: a new class of molecular tweezers with concave-surface functionality

Jeffrey L. Katz,* Bram J. Geller and Peter D. Foster

The first examples of oxalix[4]arenes and [1₄]oxacyclophanes bearing 1,8-naphthyridine units are reported, and these systems function as molecular tweezers containing inner-cavity hydrogen bond acceptors.

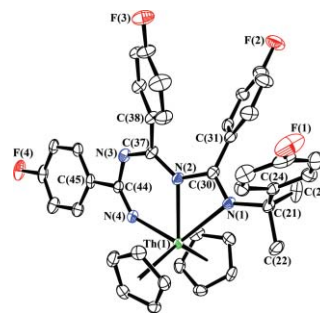


1029

Actinide-mediated coupling of 4-fluorobenzonitrile: synthesis of an eight-membered thorium(IV) tetraazamacrocycle

Eric J. Schelter, David E. Morris, Brian L. Scott and Jaqueline L. Kiplinger*

An eight-membered thorium(IV) tetraazamacrocycle is produced by the sequential, metal-mediated coupling of four equivalents of 4-fluorobenzonitrile; its formation is consistent with the involvement of an imido intermediate, generated from a thorium ketimide complex.

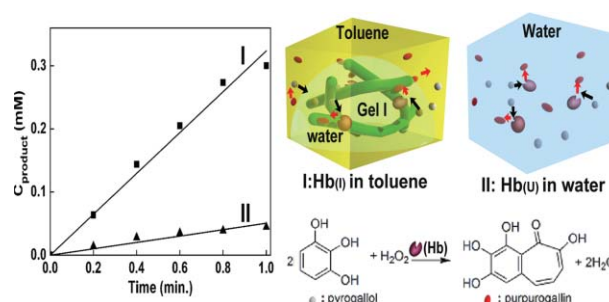


1032

Molecular hydrogel-immobilized enzymes exhibit superactivity and high stability in organic solvents

Qigang Wang, Zhimou Yang, Ling Wang, Manlung Ma and Bing Xu*

The use of a molecular hydrogel to immobilize enzymes attains superactivity and exceptional stability in an organic solvent.





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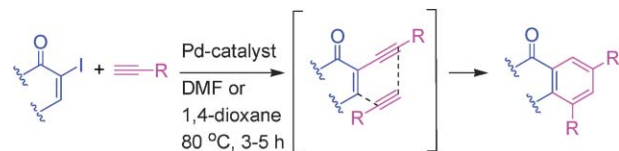


1035

Pd-mediated synthesis of substituted benzenes fused with carbocycle/heterocycle

Nalivela Kumara Swamy, Lakshmi Kumar Tatini, J. Moses Babu, Pazhanimuthu Annamalai and Manojit Pal*

The Pd-mediated coupling reaction of α -haloenone with terminal alkynes under a Cu-free condition provided a new and one-pot synthetic procedure for the construction of benzene ring fused with carbocyclic and heterocyclic structures.

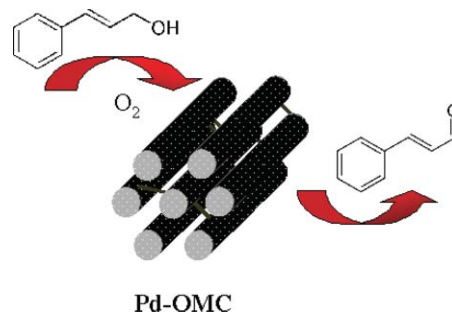


1038

Molecular level dispersed Pd clusters in the carbon walls of ordered mesoporous carbon as a highly selective alcohol oxidation catalyst

An-Hui Lu, Wen-Cui Li, Zhenshan Hou and Ferdi Schüth

Ordered mesoporous carbon containing molecular-level dispersed Pd clusters in the carbon walls was synthesized by the nanocasting pathway, and shows high selectivity for the oxidation of alcohols to aldehydes.

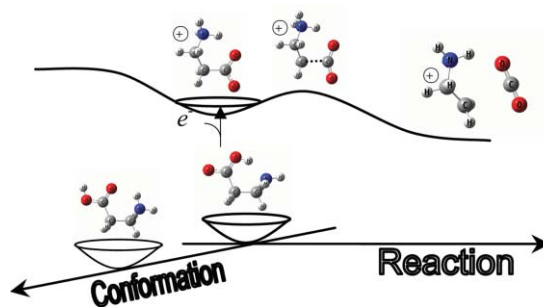


1041

A highly conformationally specific α - and β -Ala⁺ decarboxylation pathway

Kyo-Won Choi, Doo-Sik Ahn, Joo-Hee Lee and Sang Kyu Kim*

A new dissociative ionization channel is found for alanine and β -alanine. This channel giving rise to CO_2 proceeds *via* highly conformer specific intramolecular hydrogen transfer.

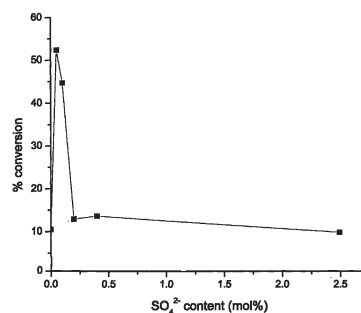


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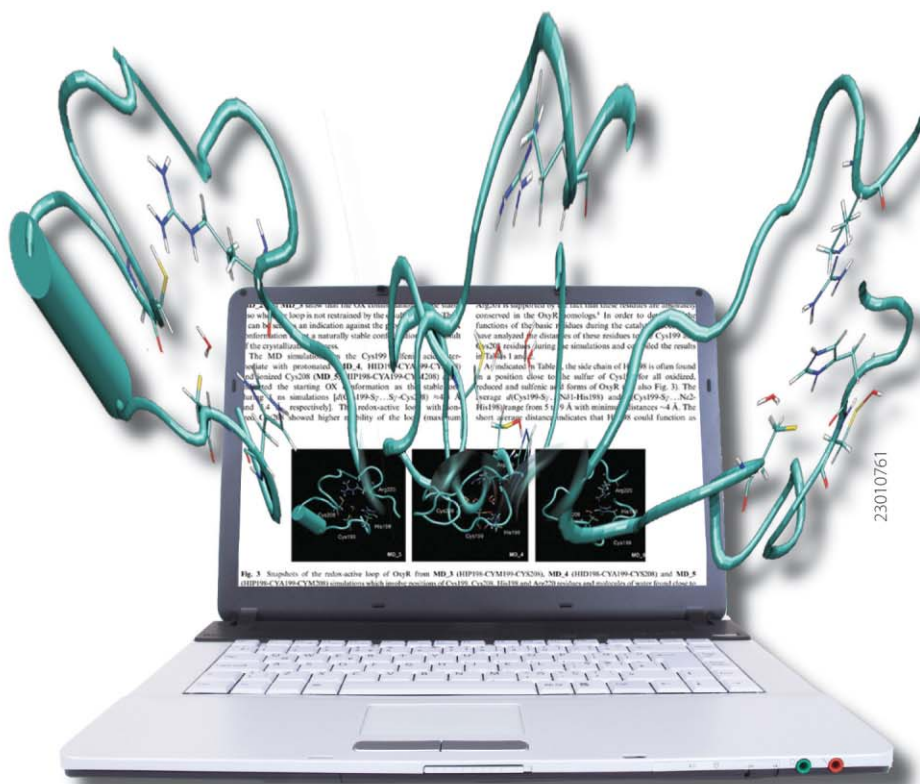
Dramatic promotion of gold/titania for CO oxidation by sulfate ions

P. Mohapatra, John Moma, K. M. Parida, W. A. Jordaan and Mike S. Scurrill*

The presence of sulfate ions at very low levels dramatically increases the CO oxidation activity of gold/titania catalysts. At least some of the sulfur introduced interacts directly with the gold centres.



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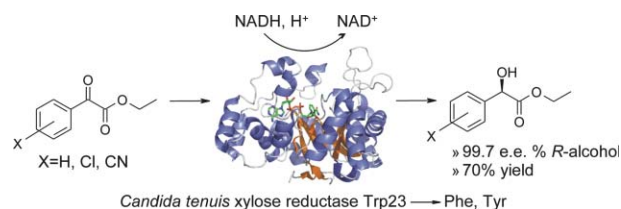
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Identification of *Candida tenuis* xylose reductase as highly selective biocatalyst for the synthesis of aromatic α -hydroxy esters and improvement of its efficiency by protein engineering

Regina Kratzer and Bernd Nidetzky*

Wild-type *Candida tenuis* xylose reductase and two Trp-23 mutants thereof catalyze NADH-dependent reduction of a homologous series of aromatic α -keto esters with absolute pseudo *re*-face stereoselectivity and broad tolerance for the substituent on the aromatic ring.

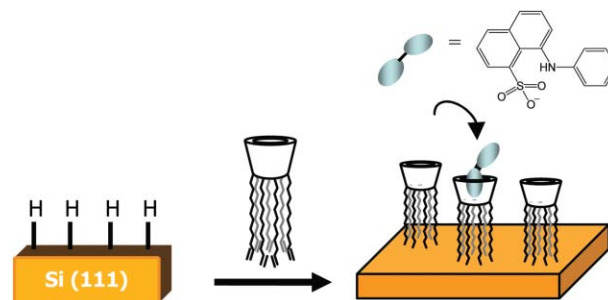


1050

Functionalization of silicon surfaces with Si–C linked β -cyclodextrin monolayers

Corinne Lagrost,* Gilles Alcaraz, Jean-François Bergamini, Bruno Fabre and Iuliana Serbanescu

Heptakis{6-deoxy-6-[undec-10-enamido]}- β -cyclodextrins react with monocrystalline Si–H surfaces to generate robust molecular recognition devices.

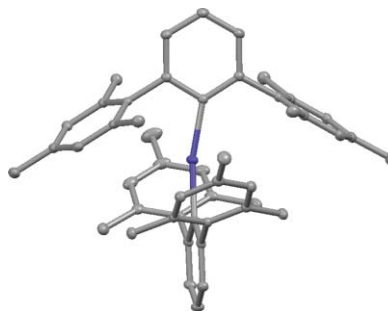


1053

Monomeric, two-coordinate Mn, Fe and Co(II) complexes featuring 2,6-(2,4,6-trimethylphenyl)phenyl ligands

Deborah L. Kays (née Coombs)* and Andrew R. Cowley

The reaction of $[2,6\text{-Mes}_2\text{C}_6\text{H}_3\text{Li}]_2$ with first-row transition-metal halides yields the monomeric complexes $(2,6\text{-Mes}_2\text{C}_6\text{H}_3)_2\text{M}$ (Mes = mesityl, M = Mn, Fe, Co), of which the cobalt analogue is the first structurally authenticated two-coordinate, homoleptic cobalt(II) aryl complex.

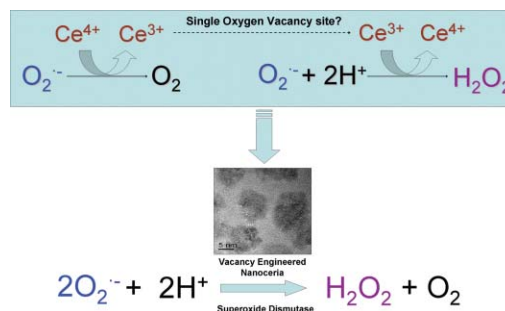


1056

Superoxide dismutase mimetic properties exhibited by vacancy engineered ceria nanoparticles

Cassandra Korsvik, Swanand Patil, Sudipta Seal and William T. Self*

SOD mimetics are currently being tested in clinical trials as novel drugs to reduce superoxide levels in tissues. Vacancy Engineered nanoceria exhibits potent SOD mimetic activity and thus may represent a novel class of nanomaterials that can be further developed into clinical applications in the near future.



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In its February 2007 special issue *Chem Soc Rev* celebrates two landmark anniversaries in the field of Supramolecular Chemistry:

1967: Charles Pedersen's first paper on the synthesis and metal binding properties of crown ethers is published in the *Journal of the American Chemical Society*.

1987: the Nobel prize in chemistry is awarded to Charles Pedersen, Jean-Marie Lehn and Donald Cram in recognition of their pioneering work in Supramolecular Chemistry.

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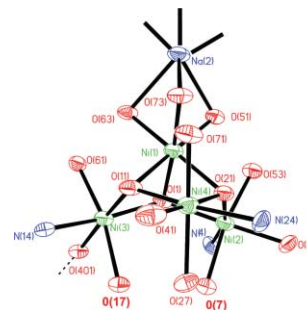
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A one-pot synthesis of a paramagnetic high-nuclearity nickel(II) cluster: an octadecanuclear $\text{Ni}^{\text{II}}_{16}\text{Na}^{\text{I}}_2$ metal aggregate

Biplab Biswas, Sumit Khanra, Thomas Weyhermüller and Phalguni Chaudhuri*

An unusual $\text{Ni}^{\text{II}}_{16}\text{Na}^{\text{I}}_2$ cluster which features formate as a bridging clamp between two octanuclear nickel cages is reported; preliminary magnetic studies exhibit paramagnetic low-lying states resulting from dominating antiferromagnetic interactions between the nickel(II) centers.

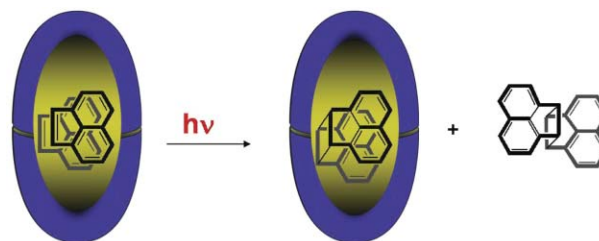


1062

Photodimerization of acenaphthylene within a nanocapsule: excited state lifetime dependent dimer selectivity

Lakshmi S. Kaanumalle and V. Ramamurthy*

The dimer selectivity from acenaphthylene@octa acid is dependent on the lifetime of the reactive state.

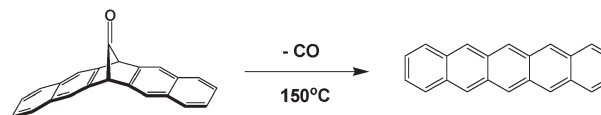


1065

A new type of soluble pentacene precursor for organic thin-film transistors

Kew-Yu Chen, Hsing-Hung Hsieh, Chung-Chih Wu,* Jiunn-Jye Hwang and Tahsin J. Chow*

A stable and soluble pentacene precursor is prepared, which extrudes a unit of CO upon heating at 150 °C, to produce pure pentacene suitable for OTFT applications.

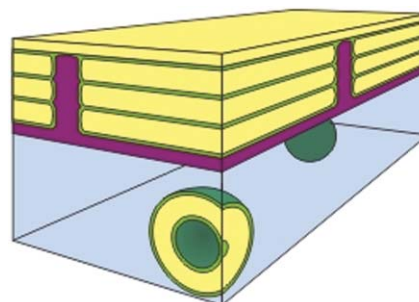


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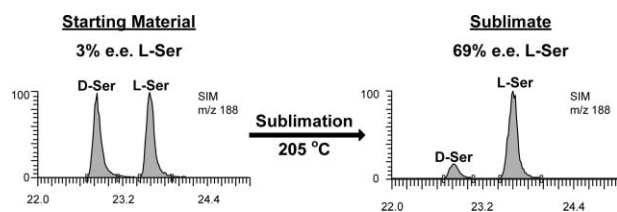
Formation of robust, free-standing nanostructured membranes from catanionic surfactant mixtures and hydrophilic polymers

Benjamin M. D. O'Driscoll, E. Anne Nickels and Karen J. Edler

Highly ordered and robust nanostructured membranes self-assemble over arbitrarily large areas from solutions of water-soluble polymers and catanionic surfactant mixtures. The films retain their structure when dried.



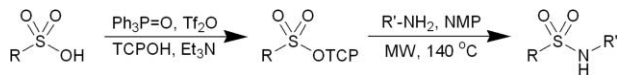
1071

**Serine sublimates with spontaneous chiral amplification**

Richard H. Perry, Chunping Wu, Marcela Nefliu and R. Graham Cooks*

Sublimation of near-racemic samples of serine (Ser) yields a sublimate which is highly enriched in the major enantiomer. This simple one-step process occurs under relatively mild conditions, and represents a possible mechanism for the chiral amplification step in homochirogenesis.

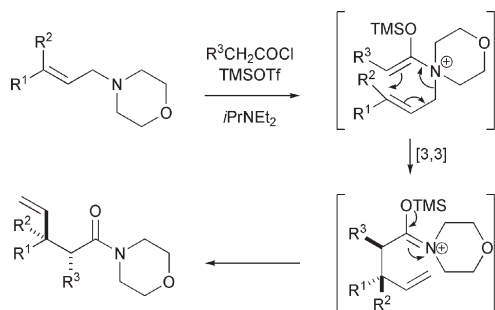
1074

**Trichlorophenol (TCP) sulfonate esters: A selective alternative to pentafluorophenol (PFP) esters and sulfonyl chlorides for the preparation of sulfonamides**

Jonathan D. Wilden,* Lynsey Geldeard, Chieh C. Lee, Duncan B. Judd and Stephen Caddick*

2,4,6-Trichlorophenol (TCP) sulfonate esters are an effective replacement for PFP-sulfonates and sulfonyl chlorides. They undergo microwave enhanced aminolysis, but are less reactive than PFP-sulfonate esters, allowing chemoselective aminolysis of the PFP-sulfonates in the presence of TCP-sulfonates.

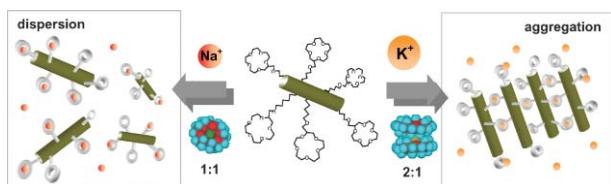
1077

**Silyl-modified Belluř–Claisen rearrangement**

Donald Craig,* N. Paul King and David M. Mountford

A silyl-modified, metal-free Lewis acid-assisted Belluř–Claisen reaction is described; the generality of the rearrangement is demonstrated with a range of allylic amines and ketenes.

1080

**Anisotropic assembly of gold nanorods assisted by selective ion recognition of surface-anchored crown ether derivatives**

Hiroshi Nakashima,* Kazuaki Furukawa, Yoshiaki Kashimura and Keiichi Torimitsu

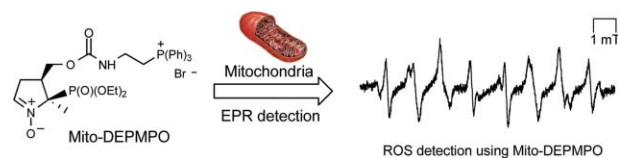
A complex of gold nanorods with crown ethers recognised ions selectively in response to dispersion and aggregation; the preferential end-to-end or side-to-side assembly of nanorods was observed in the aggregates.

1083

Mito-DEPMPO synthesized from a novel NH₂-reactive DEPMPO spin trap: a new and improved trap for the detection of superoxide

Micael Hardy, Florence Chalier, Olivier Ouari, Jean-Pierre Finet, Antal Rockenbauer, Balaraman Kalyanaraman and Paul Tordo*

The half-life of the Mito-DEPMPO superoxide adduct was estimated to be *ca.* 40 min. Using Mito-DEPMPO, reactive oxygen species generated in intact mitochondria were detected and characterized by EPR.

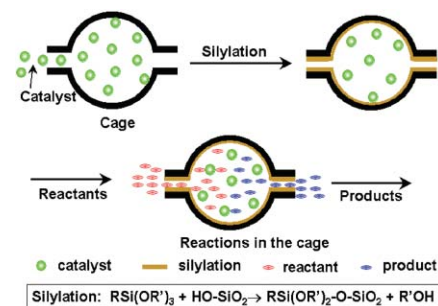


1086

Asymmetric reactions on chiral catalysts entrapped within a mesoporous cage

Hengquan Yang, Jun Li, Jie Yang, Zhimin Liu, Qihua Yang* and Can Li*

The encapsulation of homogeneous chiral catalysts, *e.g.* Co(Salen) and Ru-TsDPEN, in the mesoporous cage of SBA-16 is demonstrated; the encapsulated catalysts show performance as good as that of the homogeneous catalysts, and can be recycled for more than 10 times without significant loss of catalytic performance.

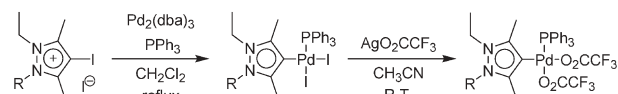


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Preparation and characterization of the first pyrazole-based remote N-heterocyclic carbene complexes of palladium(II)

Yuan Han and Han Vinh Huynh*

The first pyrazolin-4-ylidene complexes of palladium(II) have been synthesized by oxidative addition of 4-iodopyrazolium salts to Pd₂(dba)₃/PPh₃ and were fully characterized by multinuclear NMR spectroscopies, ESI mass spectrometry and X-ray diffraction studies.

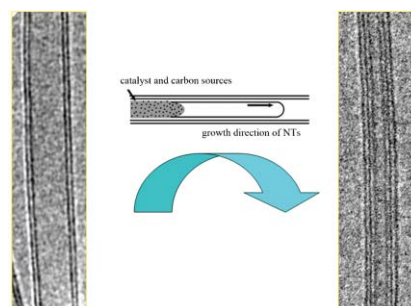


1092

Controllable preparation of triple-walled carbon nanotubes and their growth mechanism

Hanxun Qiu, Zujin Shi,* Zhennan Gu and Jieshan Qiu*

Triple-walled carbon nanotubes (TWNTs) have been selectively synthesized for the first time from decomposition of ferrocene encapsulated in double-walled carbon nanotubes (DWNTs), demonstrating a base-growth mechanism for carbon nanotubes.




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