

Cover  
[Cr(Salen)] as a flexible chiral ligand.

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# contents

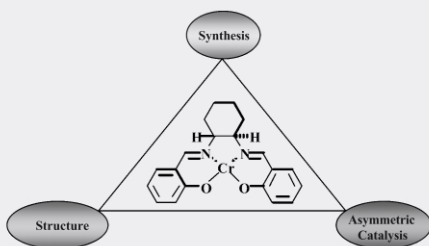
## FEATURE ARTICLE

919

### [Cr(Salen)] as a 'bridge' between asymmetric catalysis, Lewis acids and redox processes

Marco Bandini, Pier Giorgio Cozzi\* and Achille Umani-Ronchi\*

This overview focuses on synthesis, structural features and catalytic applications of chiral [Cr(Salen)] complexes. Key aspects such as Lewis acids, asymmetric catalysis and redox processes are connected with chromium–Schiff base complexes. Asymmetric transformations mediated by [Cr(Salen)] complexes include Diels–Alder and hetero-Diels–Alder reactions, ARO of epoxides, kinetic resolution of meso-epoxides and Nozaki-Hiyama reactions.



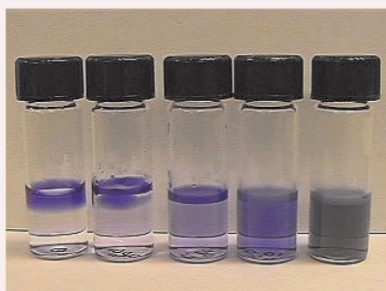
## COMMUNICATIONS

928

### Fluorinated NAD as an affinity surfactant

Janice L. Panza, Alan J. Russell and Eric J. Beckman\*

A poly(perfluoroether)-functional NAD is used as a surfactant to extract dyes and the protein horse liver alcohol dehydrogenase into a fluoruous solvent, the latter with retention of activity.

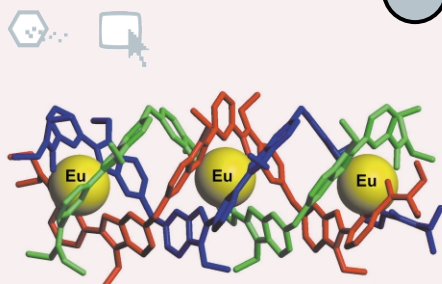


930

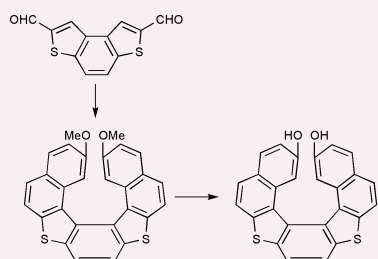
### The first self-assembled trimetallic lanthanide helicate: different coordination sites in symmetrical molecular architectures

Bernard Bocquet, Gérald Bernardinelli, Nadjet Ouali, Sebastien Floquet, Fabien Renaud, Gérard Hopfgartner and Claude Piguet\*

The isolation and characterization of the  $D_3$ -symmetrical triple-stranded helicates  $[\text{Ln}_3(\text{L}3)_3]^{9+}$  demonstrate that three  $\text{Ln}^{\text{III}}$  cations can be held at approximately 9 Å if sufficient bond strength compensates electrostatic repulsion.



932



### Synthesis, crystal structure and properties of thiaheterohelicenes containing phenolic hydroxy functions

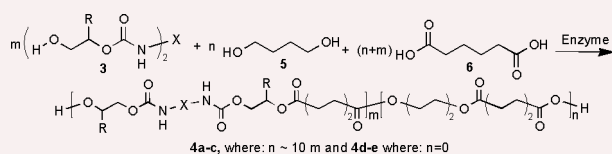
Yoshinori Kitahara and Kazuhiko Tanaka\*

A convenient method for preparation of dimethoxythiahelix and dihydroxythiahelix is described; these helical molecules showed self-assembling properties such as enantiomorphic crystal growth and clathrate formation.

934

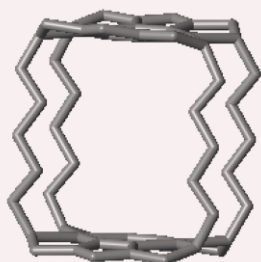
### Synthesis of novel polyurethane polyesters using the enzyme *Candida antarctica* lipase B

Richard W. McCabe\* and Alan Taylor



A novel enzymatic route has been used to synthesise standard and unusual polyester polyurethanes without employing the usual highly toxic diisocyanate intermediates.

936

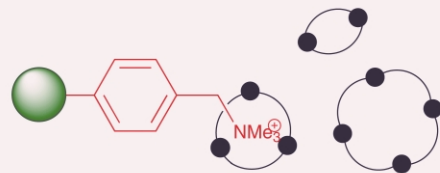


### $\text{Cu}^{2+}$ -Induced formation of cage-like compounds containing pyrazole macrocycles

Francisco Escartí, Carlos Miranda, Laurent Lamarque, Julio Latorre, Enrique García-España,\* M. Kumar, Vicente J. Arán and Pilar Navarro\*

The crystal structure of the complex  $[\text{Cu}_4(\text{H}_2\text{L})_2(\text{H}_2\text{O})_2(\text{ClO}_4)_2](\text{ClO}_4)_2 \cdot 2\text{H}_2\text{O}$ , where L is a new macrocyclic pyrazole ligand containing 1,5-diaminopentane spacers, represents a novel way of obtaining metal ion-induced inorganic-organic cages.

938

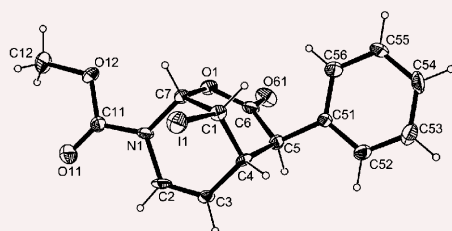


### Simultaneous selection, amplification and isolation of a pseudo-peptide receptor by an immobilised *N*-methyl ammonium ion template

Sarah L. Roberts, Ricardo L. E. Furlan, Graham R. L. Cousins and Jeremy K. M. Sanders\*

The demonstration that an immobilised template can simultaneously select, amplify and purify a receptor is a key step forward in the development of dynamic combinatorial chemistry.

940

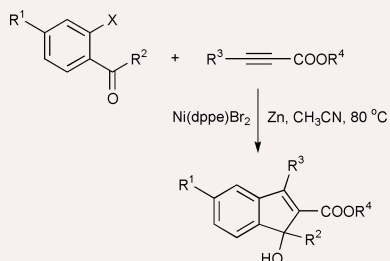


### One pot synthesis of nitrogen-containing polycyclic $\delta$ -lactones by double nucleophilic addition of bis(trimethylsilyl)ketene acetals to pyridines

Henri Rudler,\* Bernard Denise, Andrée Parlier and Jean-Claude Daran

Pyridine and bis(TMS)ketene acetals react successively with methylchloroformate and iodine (or peracids) to give, *via* functionalized dihydropyridines, bicyclic nitrogen-containing lactones which have been characterized by X-ray crystallography.

942

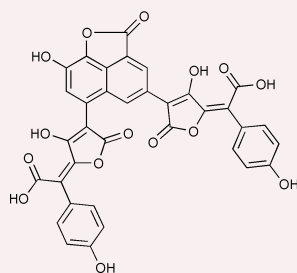


### Nickel-catalyzed regioselective carbocyclization of *ortho*-halophenyl ketones with propiolates: an efficient route to disubstituted indenols

Dinesh Kumar Rayabarapu and Chien-Hong Cheng\*

A class of substituted indenols was conveniently synthesized *via* regioselective carbocyclization of *o*-halophenyl ketones with propiolates in the presence of a nickel complex.

944

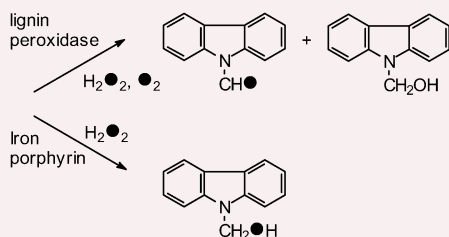
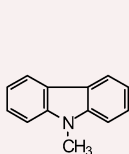


### Allosteric effects in norbadione A. A clue for the accumulation process of <sup>137</sup>Cs in mushrooms?

Sandrine Garaudée, Mourad Elhabiri, Daniel Kalny, Céline Robiolle, Jean-Michel Trendel, Raymond Hueber, Alain Van Dorsseleer, Pierre Albrecht\* and Anne-Marie Albrecht-Gary\*

Protonated forms and Cs<sup>+</sup> complexes of norbadione A were studied by a combination of analytical methods and emphasised positive cooperative interactions in the dimetallic species.

946

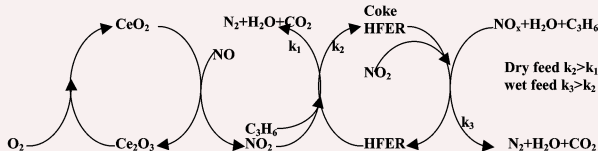


### <sup>18</sup>O incorporation in the oxidation of *N*-methylcarbazole by lignin peroxidase and a model compound: a mechanistic insight into the oxidative *N*-demethylation of aromatic tertiary amines

Enrico Baciocchi,\* Maria Francesca Gerini and Andrea Lapi

Using <sup>18</sup>O labelled reactants and/or solvent, the origin of the oxygen in the products of the oxidation of *N*-methylcarbazole by H<sub>2</sub>O<sub>2</sub> catalysed by lignin peroxidase and a model compound has been determined.

948

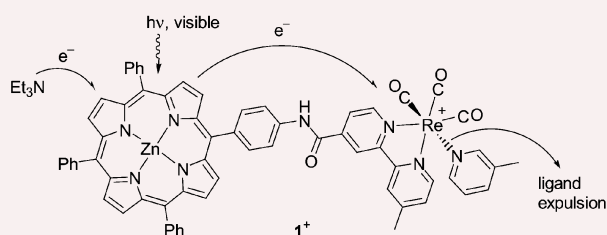


### Selective catalytic reduction of NO<sub>x</sub> with propene over CeO<sub>2</sub>-ferrierite

K. Krishna,\* G. B. F. Seijger, C. M. van den Bleek, H. van Bekkum and H. P. A. Calis

CeO<sub>2</sub>-Hferrierite catalysts, prepared by physically mixing the components, showed very high conversions of NO under dry and wet conditions and excellent regeneration properties of the coked catalyst in the presence of water.

950

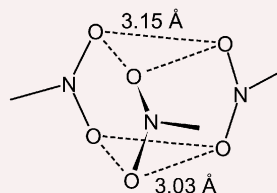


### Photo-induced ligand substitution at a remote site *via* electron transfer in a porphyrin-appended rhenium carbonyl supermolecule

Anders Gabrielsson, František Hartl, John R. Lindsay Smith and Robin N. Perutz\*

Low energy visible radiation of I<sup>+</sup> in the presence of an electron donor brings about ligand substitution at a remote site *via* a catalytic electron-transfer mechanism.

952

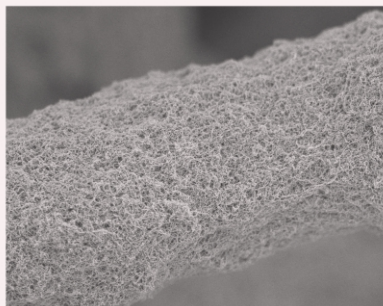


### 2,4,6-Tris(4-nitrophenoxy)-1,3,5-triazine: a hexagonal host framework stabilised by the NO<sub>2</sub>-trimer supramolecular synthon

Ram K. R. Jetti, Praveen K. Thallapally, Ashwini Nangia,\* Chi-Keung Lam and Thomas C. W. Mak\*

The title molecule forms a honeycomb network of molecular and nitro-trimer synthons with guest species included in the hexagonal voids.

954

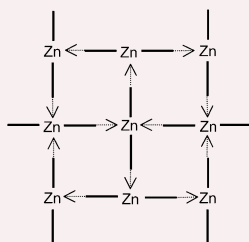
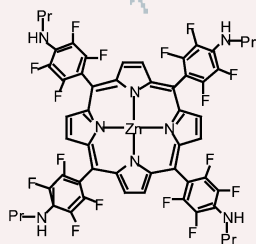


### New carbon nanofiber/graphite felt composite for use as a catalyst support for hydrazine catalytic decomposition

R. Vieira, C. Pham-Huu,\* N. Keller and M. J. Ledoux

A new carbon composite support made of web-like entangled carbon nanofibers coating graphite felt is successfully used for iridium dispersion and hydrazine catalytic decomposition.

956

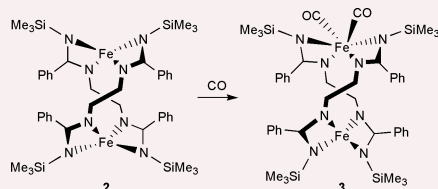


### Supramolecular self-assembly of a fluorinated Zn porphyrin. Molecular structure of a two-dimensional network of amine-functionalized, hexacoordinated Zn porphyrins

Kathleen M. Barkigia, Pierrette Battioni, Vanessa Riou, Daniel Mansuy and Jack Fajer\*

[5,10,15,20-Tetrakis(4-*n*-propylamino-2,3,5,6-tetrafluorophenyl)porphyrinato]zinc(II) self-assembles into a two-dimensional supramolecular array in which each porphyrin is linked to four orthogonally-oriented chromophores.

958

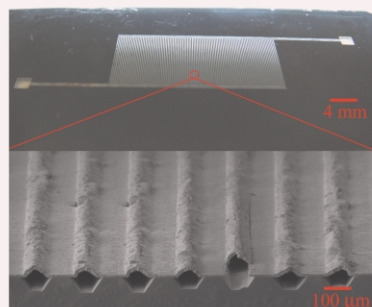


### Binuclear iron(II) complex from a linked-bis(amidinate) ligand: synthesis and its reaction with carbon monoxide

Hiroyuki Kawaguchi\* and Tsukasa Matsuo

The binuclear iron(II) complex **2** supported by a cyclohexane-linked bis(amidinate) ligand reacts with CO to yield the bis-carbonyl complex **3**, in which one metal center can influence the other's ability to bind CO.

960



### Zeolite microtunnels and microchannels

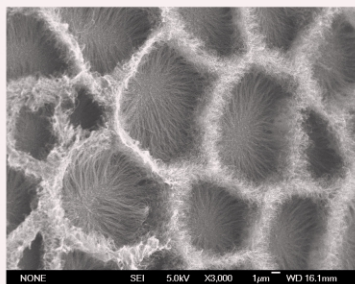
Joseph Lik Hang Chau and King Lun Yeung\*

Using a new fabrication strategy, novel, self-enclosed zeolite microtunnel and microchannel architectures is presented.

962

**Self-networking of carbon nanotubes**

Zhengjun Zhang,\* Bingqing Wei and P. M. Ajayan

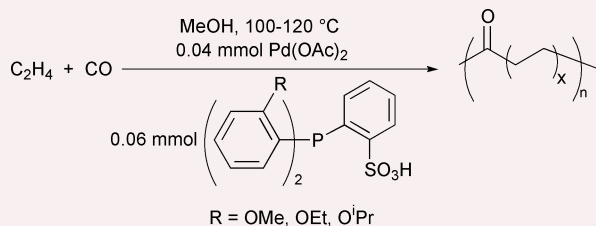


Carbon nanotube self-assembly into honeycomb-networks *via* controlling the ratio of the catalyst over hydrocarbon in the vapor phase using a tunable chemical vapor deposition process.

964

**The first example of palladium catalysed non-perfectly alternating copolymerisation of ethene and carbon monoxide**

Eite Drent, Rudmer van Dijk, Roel van Ginkel, Bart van Oort and Robert I. Pugh\*



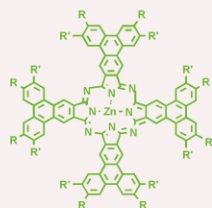
Non-alternating ethene–CO copolymerisation is catalysed by a new series of [P–O]Pd catalysts based on *o*-alkoxy derivatives of diphenylphosphinobenzene sulfonic acid

966

**Macrodiscotic triphenylenophthalocyanines**

Andrew N. Cammidge\* and Hemant Gopee

The first heavily substituted triphenylenophthalocyanines have been synthesised and found to be mesogenic.



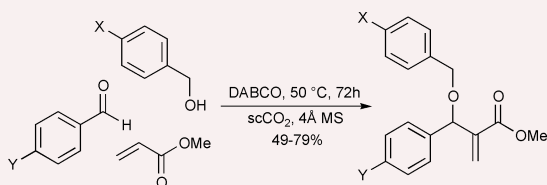
3 R = OC<sub>6</sub>H<sub>13</sub>, R' = H  
4 R = H, R' = OC<sub>6</sub>H<sub>13</sub>  
5 R = R' = OC<sub>6</sub>H<sub>13</sub>

968

**The Baylis–Hillman reaction in supercritical carbon dioxide: enhanced reaction rates, unprecedented ether formation, and a novel phase-dependent 3-component coupling**

Paul M. Rose, Anthony A. Clifford and Christopher M. Rayner\*

The Baylis–Hillman reaction has been investigated in scCO<sub>2</sub>; enhanced reaction rates are observed relative to comparable solution phase reactions, and novel dimerisation and 3-component coupling reactions have been developed.

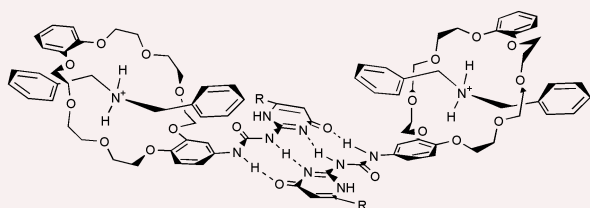


970

**The contribution of complementary hydrogen bonding to supramolecular structure**

Yuji Tokunaga\* and Toshihiro Seo

Two different types of complementary hydrogen bonding contribute to the formation and temperature dependent behavior of a pseudo[2]rotaxane dimer.

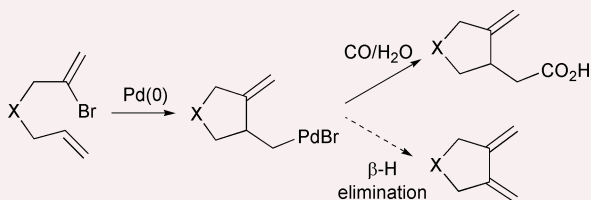


972

### A palladium catalysed cyclisation–carbonylation of bromodienes: control in carbonylation over facile $\beta$ -hydride elimination

Varinder K. Aggarwal,\* Paul W. Davies and William O. Moss

Conditions have been found for the efficient palladium mediated cyclisation–carbonylation of bromodienes to give  $\gamma,\delta$ -unsaturated acids.

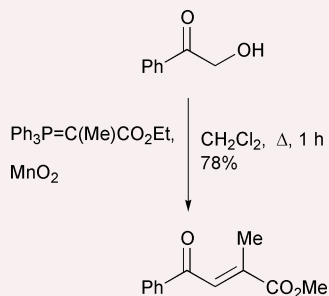


974

### The *in situ* oxidation–Wittig reaction of $\alpha$ -hydroxyketones

Karen A. Runcie and Richard J. K. Taylor\*

*In situ* oxidation–Wittig methodology has been applied to  $\alpha$ -hydroxyketones avoiding the problems normally associated with  $\alpha$ -ketoaldehydes; the procedure has also been successfully utilised with ethyl glycolate and glycolaldehyde dimer.

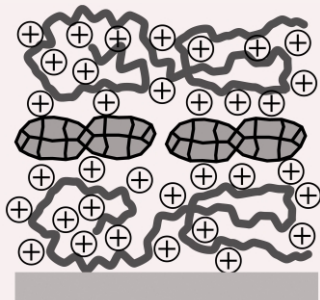


976

### Polyoxometalates as pH-sensitive probes in self-assembled multilayers

Shaoqin Liu, Dirk G. Kurth\* and Dirk Volkmer

The polyoxometalate cluster  $[\text{Co}^{\text{II}}_4(\text{H}_2\text{O})_2\text{P}_4\text{W}_{30}\text{O}_{112}]^{16-}$  (Co-POM) embedded in a self-assembled polyelectrolyte matrix shows a remarkable pH dependence of its electrochemical response, opening a route to use Co-POM as a molecular probe or to fabricate pH microelectrodes.

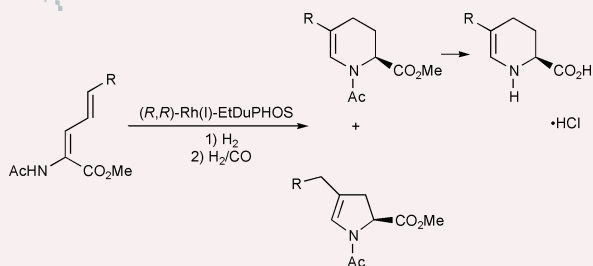


978

### A highly enantioselective synthesis of cyclic $\alpha$ -amino acids involving a one-pot, single catalyst, tandem hydrogenation–hydroformylation sequence

Euneace Teoh, Eva M. Campi, W. Roy Jackson and Andrea J. Robinson\*

Cyclic amino acids can be obtained in high yield and enantiomeric excess using a one pot, single catalyst tandem hydrogenation, hydroformylation, cyclisation and dehydration sequence.

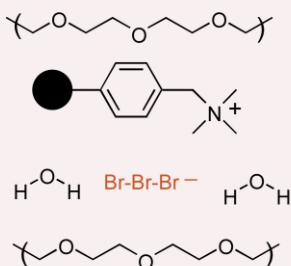


980

### A novel piezo-optical styrene sensor incorporating polymer-supported tribromide ion

Kelly R. Bearman, David C. Blackmore, Timothy J. N. Carter, Florence Colin, John D. Wright and Steven A. Ross\*

Polyethyleneglycol-encapsulation of Amberlyst tribromide gives a robust colour reagent for the detection of styrene and other alkene vapours using a piezo-optical detection system.



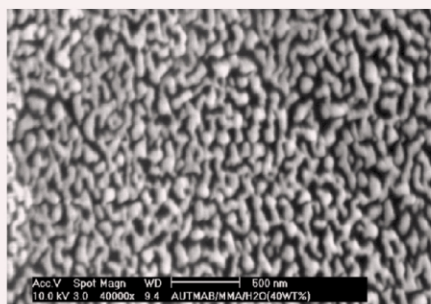


982

**Ruthenium(II) complexes in polymerised bicontinuous microemulsions**

H. Y. Moy, P. Y. Chow, W. L. Yu, K. M. C. Wong, V. W. W. Yam and L. M. Gan\*

Novel polymerised bicontinuous microemulsions can provide unique microenvironments for some functional molecules of scientific interests and practical applications.

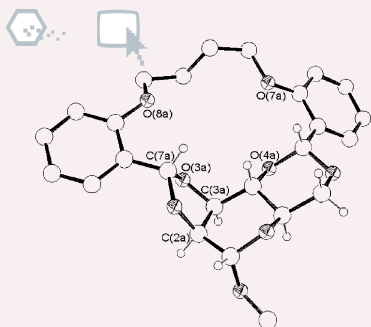


984

**The formation of a cyclic diacetal of methyl  $\alpha$ -D-mannopyranoside with a 16-membered macrocyclic loop**

Jolanta Maslinska-Solich,\* Nikodem Kuznik, Maciej Kubicki and Sylwia Kukowka

Alternative synthetic pathways lead interestingly either to excess of polymers or to a cyclic diacetal with a 16-membered macrocyclic loop, which may serve as a host for small molecules.

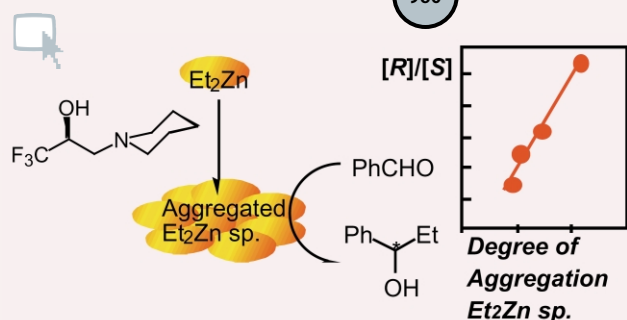


986

**Chiral induction controlled by aggregation of organometallics: trifluoromethylated aminoalcohols for chiral ligands in  $\text{Et}_2\text{Zn}$  alkylation of benzaldehyde**

Toshimasa Katagiri,\* Yasuyuki Fujiwara, Satoshi Takahashi, Nobuyuki Ozaki and Kenji Uneyama\*

Chiral induction in the reaction of  $\text{Et}_2\text{Zn}$  with PhCHO by fluorinated chiral amino alcohols was controlled by the extent of aggregation of  $\text{Et}_2\text{Zn}$  species.

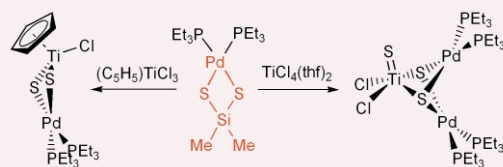


988

**Palladium dimethylsilanedithiolato complex: a precursor for Ti–Pd and Ti–Pd<sub>2</sub> heterometallic complexes**

Takashi Komuro, Tsukasa Matsuo, Hiroyuki Kawaguchi\* and Kazuyuki Tatsumi

The silanedithiolato complex  $\text{Pd}(\text{S}_2\text{SiMe}_2)(\text{PEt}_3)_2$  reacted with  $(\text{C}_5\text{H}_5)\text{TiCl}_3$  and  $\text{TiCl}_4(\text{thf})_2$  to produce Ti–Pd heterometallic sulfido clusters along with silicon–sulfur bond cleavage.

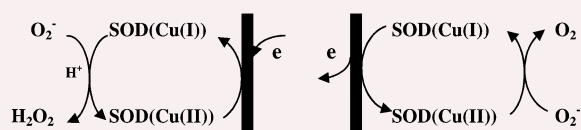


990

**A superoxide dismutase-modified electrode that detects superoxide ion**

Takeo Ohsaka,\* Yang Tian, Mieko Shioda, Shinjiro Kasahara and Takeyoshi Okajima

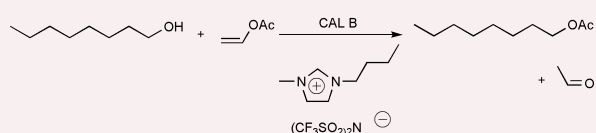
A superoxide dismutase (SOD)-modified electrode, in which SOD is oriented on the gold electrode *via* a self-assembled monolayer of cysteine so as to allow its direct electrode reaction, possesses a bi-directional electrocatalysis for both the oxidation of superoxide ion ( $\text{O}_2^-$ ) to  $\text{O}_2$  and the reduction of  $\text{O}_2^-$  to  $\text{H}_2\text{O}_2$  and functions as a third generation  $\text{O}_2^-$  biosensor.



992

**Biocatalysis in ionic liquids: batchwise and continuous flow processes using supercritical carbon dioxide as the mobile phase**

Manfred T. Reetz,\* Wolfgang Wiesenhöfer, Giancarlo Franciò and Walter Leitner\*

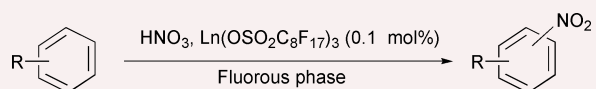


Using supercritical CO<sub>2</sub> as the mobile phase, the products of enzyme-catalyzed reactions in ionic liquids are easily extracted in batchwise or continuous flow operations.

994

**Electrophilic aromatic nitration using perfluorinated rare earth metal salts in fluorous phase**

Min Shi\* and Shi-Cong Cui

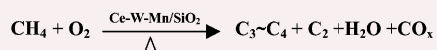


By using perfluorodecalin (C<sub>10</sub>F<sub>18</sub>, *cis*- and *trans*-mixture) as a fluorous solvent and perfluorinated rare earth metal salt [Yb(OSO<sub>2</sub>C<sub>8</sub>F<sub>17</sub>)<sub>3</sub>] as a catalyst, the electrophilic aromatic nitration can be repeated for many times only by nitric acid.

996

**CeO<sub>2</sub>-Promoted W-Mn/SiO<sub>2</sub> catalysts for conversion of methane to C<sub>3</sub>-C<sub>4</sub> hydrocarbons at elevated pressure**

Lingjun Chou, Yingchun Cai, Bing zhang, Jianzhong Niu, Shengfu Ji and Shuben Li\*

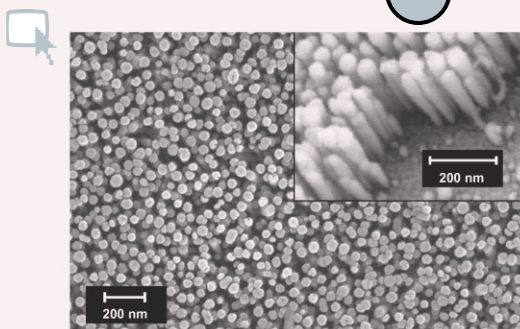


A CH<sub>4</sub> conversion of 47.2% and C<sub>3</sub>-C<sub>4</sub> selectivity of 47.3% was observed at 983 K, 1.0 × 10<sup>5</sup> ml g<sup>-1</sup> h<sup>-1</sup> GHSV and 0.6 MPa in a micro-stainless-steel reactor.

998

**Morphology controlled growth of arrays of GaN nanopillars and randomly distributed GaN nanowires on sapphire using (N<sub>3</sub>)<sub>2</sub>Ga[(CH<sub>2</sub>)<sub>3</sub>NMe<sub>2</sub>] as a single molecule precursor**

Andreas Wohlfart, Anjana Devi, Eva Maile and Roland A. Fischer\*

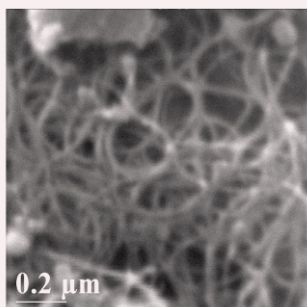


Controlled growth of oriented GaN nanopillars and randomly distributed nanowires is accomplished by MOCVD using (N<sub>3</sub>)<sub>2</sub>Ga[(CH<sub>2</sub>)<sub>3</sub>NMe<sub>2</sub>] as a single molecule precursor.

1000

**Microwave single walled carbon nanotubes purification**

M. T. Martínez,\* M. A. Callejas, A. M. Benito, W. K. Maser, M. Cochet, J. M. Andrés, J. Schreiber, O. Chauvet and J. L. G. Fierro



A new microwave purification procedure for single walled carbon nanotubes (SWNTs) is reported. This method leads to a high percentage of metal removal and to a significant reduction of the purification process time.



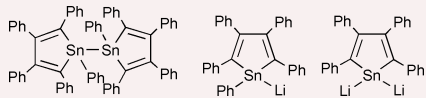
1002



### Formation of the first monoanion and dianion of stannole

Masaichi Saito,\* Ryuta Haga and Michikazu Yoshioka

The first syntheses of mono- and dianions of stannole were accomplished by transmetallation or reduction of the novel bi(1,1-stannole)



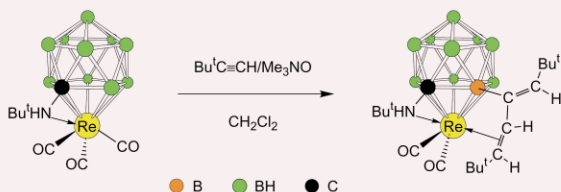
1004



### Alkyne coupling in rhenacarbaborane chemistry. Structure of [1,2- $\mu$ -NHBu<sup>t</sup>-2,2-(CO)<sub>2</sub>-3,2- $\sigma$ : $\eta^2$ -{C(=CHBu<sup>t</sup>)-CH=CHBu<sup>t</sup>}-*closo*-2,1-ReCB<sub>10</sub>H<sub>9</sub>]

Shaowu Du, Jason A. Kautz, Thomas D. McGrath and F. Gordon A. Stone\*

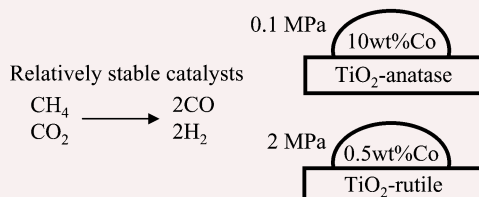
Two alkynes couple at a carbaborane-bound rhenium centre, ultimately giving a butadienyl moiety that is bound to both cage-boron and rhenium vertices.



1006

### Influence of the phase composition of titania on catalytic behavior of Co/TiO<sub>2</sub> for the dry reforming of methane

Katsutoshi Nagaoka, Kazuhiro Takanabe and Ken-ichi Aika\*



The phase transfer of TiO<sub>2</sub> from anatase to rutile for a 10wt% Co/TiO<sub>2</sub> catalyst during the reduction causes serious disappearance of activity at 0.1 MPa during CH<sub>4</sub>/CO<sub>2</sub> reforming, whereas the transfer for 0.5wt% Co/TiO<sub>2</sub> brings about relatively stable activity at 2 MPa.

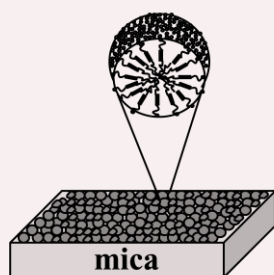
1008



### Confined supramolecular nanostructures of mesogen-bearing amphiphiles

Bo Zou, Mingfeng Wang, Dengli Qiu, Xi Zhang,\* Lifeng Chi\* and Harald Fuchs

Stable surface nanostructures with different morphology have been successfully constructed by modifying the chemical structure of synthetic amphiphiles.



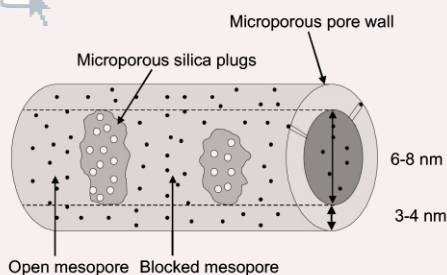
1010



### Plugged hexagonal templated silica: a unique micro- and mesoporous composite material with internal silica nanocapsules

P. Van Der Voort,\* P. I. Ravikovitch, K. P. De Jong, A. V. Neimark, A. H. Janssen, M. Benjelloun, E. Van Bavel, P. Cool, B. M. Weckhuysen and E. F. Vansant

Plugged hexagonal templated silica (PHTS) consists of large cylindrical pores with microporous perforations in the walls and contains microporous silica nanocapsules inside its cylindrical pores. These extremely stable mesoporous materials will find applications as specific adsorbents and catalyst supports.



1012



### Stepwise, ring-closure synthesis and characterization of a homoleptic palladium(II)-pyrazolato cyclic trimer

Peter Baran, Cruz M. Marrero, Soribel Pérez and Raphael G. Raptis\*



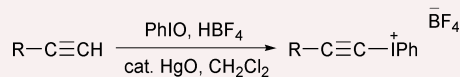
An unsymmetrically substituted ligand, 3-phenylpyrazole, is used to initially form an open-chain tripalladium(II) complex, and subsequently an homoleptic, trimeric metallacycle,  $[\text{Pd}(\mu\text{-}3\text{-Ph-pz})_2]_3$ , of  $D_3$  symmetry.

1014

### Direct synthesis of alkynyl(phenyl)iodonium salts from alk-1-yne

Masanori Yoshida, Naoya Nishimura and Shoji Hara\*

Alkynyliodonium salts can be directly prepared from alk-1-yne by the reaction with iodobenzene, tetrafluoroboric acid, and a catalytic amount of HgO.



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