



Cover
Red Poppies—a painting by Emil Nolde
 (1867–1956)

Free site-wide access to Advance Articles
 and the electronic form of this journal is
 provided with a full-rate institutional
 subscription.
 See www.rsc.org/ejs for more information

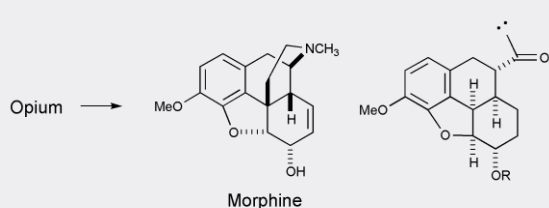
contents

FEATURE ARTICLE

1159

Morphine, the Proteus of organic molecules

Paul R. Blakemore and James D. White*



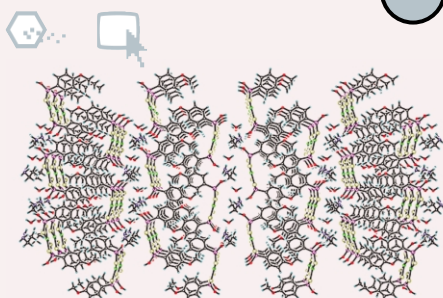
The history of morphine, its current production from opium, and efforts at its synthesis by bioanalogous and other routes are described.

COMMUNICATIONS

1170

An unprecedented example of a *cis*-phosphonodithioato nickel(II) complex built by an extensive hydrogen bonding supramolecular network

Vincenzo G. Albano, M. Carla Aragoni, Massimiliano Arca, Carlo Castellari, Francesco Demartin, Francesco A. Devillanova, Francesco Isaia, Vito Lippolis, Laura Loddo and Gaetano Verani*

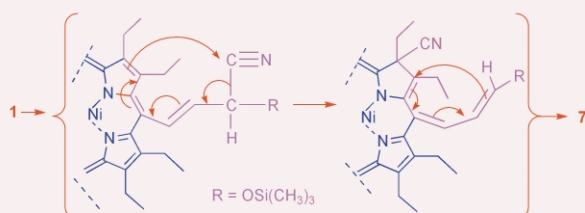


A very novel case is presented of a one-pot self assembly of a *cis*-phosphonodithioato complex–ethylenediamine network, where both building blocks are formed *in situ*.

1172

A novel synthetic route to fused propenochlorin and benzochlorin photodynamic therapy probes

Guolin Li, Ricky Mehta, Thamarapu Srikrishnan, Daniel J. Nurco, Walter A. Tabaczynski, James L. Alderfer, Kevin M. Smith, Thomas J. Dougherty and Ravindra K. Pandey*

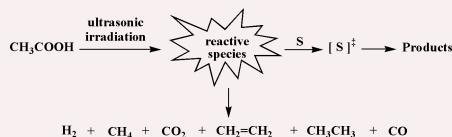


Octaethylporphyrin containing *meso*-(2-formylvinyl) group on reacting with $(\text{CH}_3)_3\text{SiCN-Cu}(\text{OTf})_2$ produced chlorin by cyanide displacement followed by a Woodward–Hoffman [1,6] electrocyclicization.

1174

The role of solvent in sonochemical reactions: the case of acetic acid

Takahide Kimura,* Hisashi Harada, Takashi Ando, Mitsue Fujita, Jean-Marc Levêque and Jean-Louis Luche

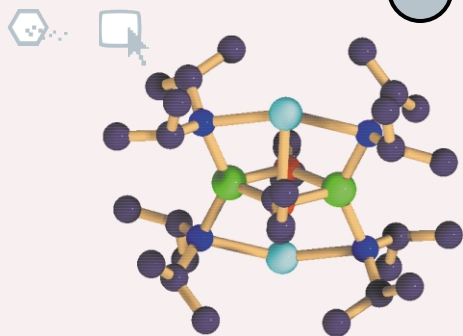


Organic sonochemistry can originate in organic solvents as aqueous sonochemistry can in water, *via* the formation of reactive species from the solvent.

1176

Alkoxide binding in inverse crown chemistry: rational synthesis of a series of composite alkali metal–magnesium–alkoxide–diisopropylamides

Katy J. Drewette, Kenneth W. Henderson, Alan R. Kennedy, Robert E. Mulvey,* Charles T. O'Hara and René B. Rowlings

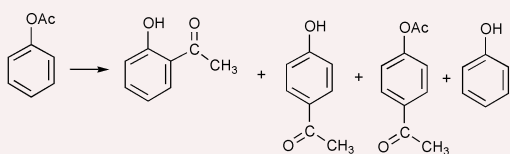


Extending yet further the concept of 'inverse crown' chemistry, a series of composite alkali metal–magnesium–alkoxide–diisopropylamides has been synthesised and structurally characterised.

1178

Heteropoly acid as a novel efficient catalyst for Fries rearrangement

Elena F. Kozhevnikova, Eric G. Derouane and Ivan V. Kozhevnikov*

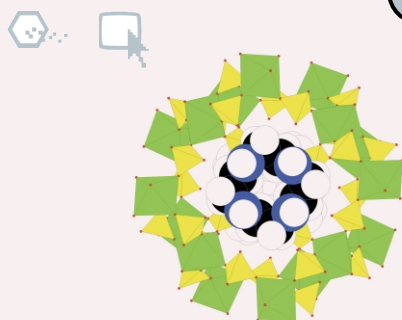


Heteropoly acid $\text{H}_3\text{PW}_{12}\text{O}_{40}$ is a very efficient and environmentally benign catalyst for the Fries rearrangement of phenyl acetate in homogeneous or heterogeneous liquid-phase systems.

1180

Synthesis and crystal structure of the first scandium-containing open framework solid

Ivor Bull, Paul S. Wheatley, Philip Lightfoot, Russell E. Morris, Enrique Sastre and Paul A. Wright*



A novel open framework scandium sulfate phosphate, $\text{Sc}_{56}(\text{SO}_4)_{98}(\text{PO}_4)_{22} \cdot [(\text{C}_8\text{N}_4\text{H}_{24})^{4+}]_{15} \cdot 34\text{H}^+ \cdot 57\text{H}_2\text{O}$, containing supercages with free diameter of 13 Å, has been prepared hydrothermally using the azamacrocycle cyclen, 1,4,7,10-tetraazacyclododecane, as a template.

1182

Oxidation of lignin model compounds by organic and transition metal-based electron transfer mediators

Dominic Rochefort, Robert Bourbonnais, Dónal Leech* and Michael G. Paice

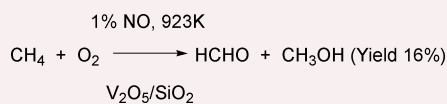


Oxidation of lignin model compounds by organic and transition metal-based mediators using laccase or electrolysis proves a useful tool for studying delignification reactions and seems a promising technology for pulp delignification.

1184

Breakthrough in the direct conversion of methane into C₁-oxygenates

J. A. Barbero, M. C. Alvarez, M. A. Bañares, M. A. Peña and J. L. G. Fierro



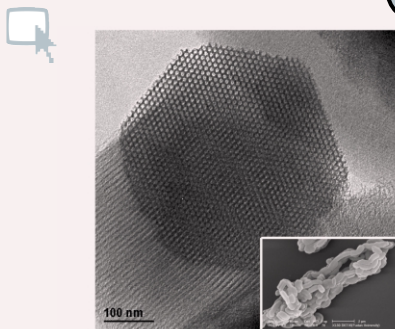
The direct, one-step partial oxidation of methane into C₁-oxygenates in the presence of small amounts of gaseous NO (1% vol) and a non-porous redox V/SiO₂ catalyst resulted in an exceptionally high yield of methanol and formaldehyde (16% at 923 K).

1186

Microwave assisted template removal of siliceous porous materials

Bozhi Tian, Xiaoying Liu, Chengzhong Yu, Feng Gao, Qian Luo, Songhai Xie, Bo Tu and Dongyuan Zhao*

Highly efficient removal of the organic templates for porous materials by microwave digestion is demonstrated in this communication.

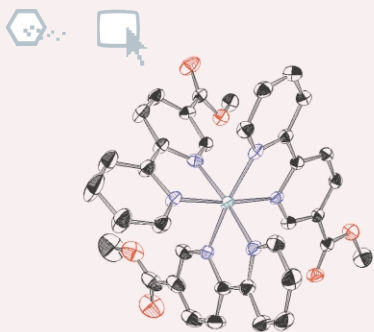


1188

The isolation and secondary functionalisation of *fac*-tris-2,2'-bipyridine complexes of ruthenium(II)

Nicholas C. Fletcher,* Mark Nieuwenhuyzen, Ravi Prabarahan and Alison Wilson

A new C₃-symmetric ruthenium polypyridyl 'building-block' suitable for the preparation of supramolecular species.

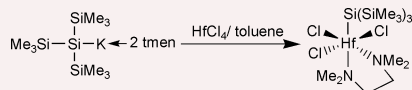


1190

First successful reaction of a silyl anion with hafnium tetrachloride

Dieter Frank, Judith Baumgartner and Christoph Marschner*

The reaction of a tmen adduct of tris(trimethylsilyl)silyl potassium with hafnium tetrachloride yields the first example of a hafnium trichlorosilyl tmen complex.

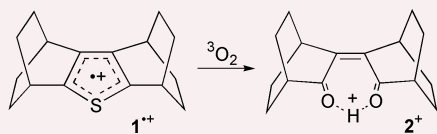


1192

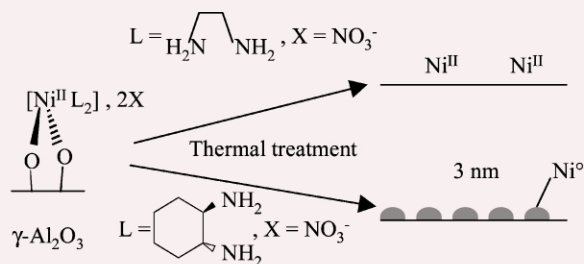
The stable radical cation of thiophene annelated with bicyclo[2.2.2]octene and its reaction with triplet oxygen to give a protonated cation of 2-butene-1,4-dione derivative

Atsushi Wakamiya, Tohru Nishinaga and Koichi Komatsu*

The first isolable salt of the thiophene radical cation **1**^{•+} was prepared. Its reaction with triplet oxygen gave a novel proton-chelating cation **2**⁺.



1194

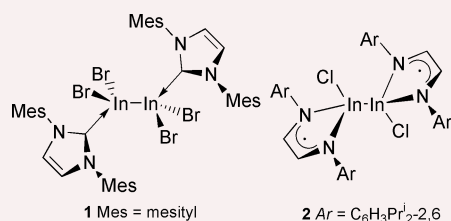


Interplay of anions and ligands on the nature and reducibility of $\text{NiO}_x/\text{Al}_2\text{O}_3$ catalysts prepared by impregnation

F. Negrier,* E. Marceau and M. Che

Thermal treatments in N_2 of $\text{NiO}_x/\text{Al}_2\text{O}_3$ catalysts prepared from $[\text{NiL}_2(\text{H}_2\text{O})_2]\text{X}_2$ ($L = \text{diamine}$, $X = \text{Cl}^-$ or NO_3^-) lead either to easily reducible nickel(II) ions or dispersed metal particles depending on the ligand and counter anion.

1196

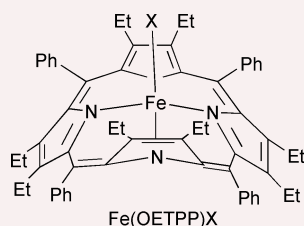


Synthesis and characterisation of the first carbene and diazabutadiene–indium(II) complexes

Robert J. Baker, Robert D. Farley, Cameron Jones,* Marc Kloth and Damien M. Murphy

The reactions of an N-heterocyclic carbene or a diazabutadiene ligand with indium(I) halides afford the structurally characterised indium(II) compounds **1** and **2**, respectively.

1198



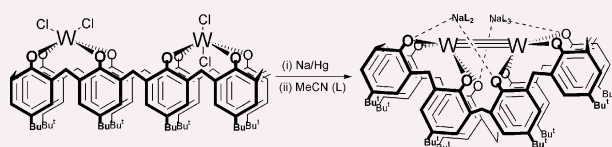
- 1: X = F
- 2: X = Cl
- 3: X = Br
- 4: X = I

Highly saddle shaped (porphyrinato)iron(III) iodide with a pure intermediate spin state

Mikio Nakamura,* Takahisa Ikeue, Yoshiki Ohgo, Masashi Takahashi and Masuo Takeda

Combined analyses using NMR, EPR and Mössbauer spectroscopy as well as SQUID magnetometry have revealed that highly saddled **4** adopts a pure intermediate spin state in spite of the coordination of an iodide ligand.

1200

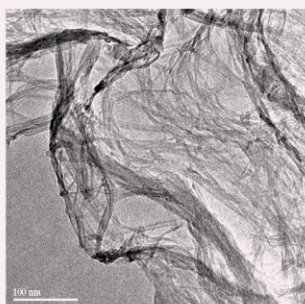


Novel tungsten calix[8]arene complexes

Vernon C. Gibson, Carl Redshaw* and Mark R. J. Elsegood

p-tert-butylcalix[8]arene H_8 reacts with WCl_6 forming a number of new metalocalix[8]arenes, one of which is reduced to give the first example of a metal-metal triple bond supported by a large calixarene ligand; the degree of metallation and conformations adopted are determined by single crystal X-ray diffraction.

1202



Hierarchical interlinked structure of titanium oxide nanofibers

Zhong-Yong Yuan, Wuzong Zhou* and Bao-Lian Su*

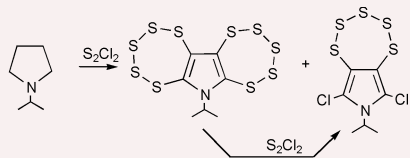
A novel hierarchical interlinking structure of titanium oxide nanofibers with high surface area has been prepared by a soft hydrothermal chemical process *via* the reactions of amorphous TiO_2 gel (or commercial TiOSO_4 particles) and NaOH solution.

1204

A one-step synthesis of fused pentathiepins

Lidia S. Konstantinova, Oleg A. Rakitin and Charles W. Rees

Fused mono and bis pentathiepins are now readily available by treatment of nucleophilic heterocycles like pyrroles and thiophene, and their tetrahydro derivatives, with S_2Cl_2 and DABCO in chloroform at room temperature.

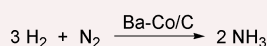


1206

New efficient catalyst for ammonia synthesis: barium-promoted cobalt on carbon

Stefan Hagen,* Rasmus Barfod, Rasmus Fehrmann, Claus J. H. Jacobsen, Herman T. Teunissen, Kenny Ståhl and Ib Chorkendorff

Barium promotes efficiently cobalt and nickel as ammonia synthesis catalysts. Ba-Co supported on carbon exhibits higher ammonia activities at synthesis temperatures than the commercial, multipromoted iron catalyst and also a lower ammonia inhibition.

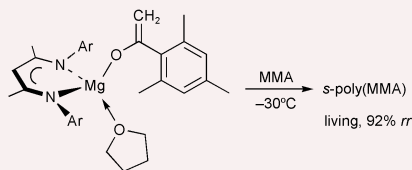


1208

A well-defined magnesium enolate initiator for the living and highly syndioselective polymerisation of methylmethacrylate

Andrew P. Dove, Vernon C. Gibson,* Edward L. Marshall, Andrew J. P. White and David J. Williams

A magnesium enolate initiator supported by a bulky β -diketiminato ligand is found to polymerise methylmethacrylate (MMA) to highly syndiotactic poly(MMA), *rr* ~92%, under relatively mild conditions.

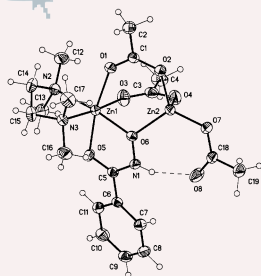


1210

A novel dizinc bridged hydroxamate model for hydroxamate inhibited zinc hydrolases

David A. Brown,* William Errington, Noel J. Fitzpatrick, William K. Glass, Terence J. Kemp, Hassan Nimir and Áine T. Ryan

A novel dizinc hydroxamate bridged complex, $[\text{Zn}_2(\mu\text{-OAc})_2(\text{OAc})(\mu\text{-BA})(\text{tmen})]$, is described, whose structure closely mimics that of the native hydroxamate inhibited *Aeromonas proteolytica* aminopeptidase.

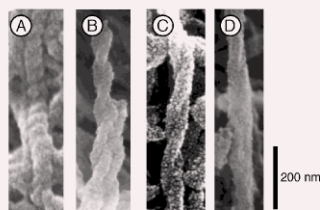
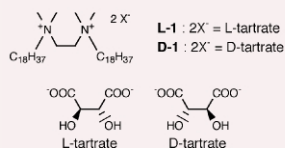


1212

Double helical silica fibrils by sol-gel transcription of chiral aggregates of gemini surfactants

Kazunori Sugiyasu, Shun-ichi Tamaru, Masayuki Takeuchi, Damien Berthier, Ivan Huc, Reiko Oda and Seiji Shinkai*

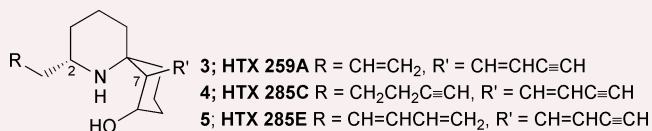
Novel silica fibrils, which have the double helical structure are prepared for the first time by sol-gel transcription of twisted bilayer ribbons formed by gemini surfactants.



1214

The total synthesis of alkaloids (–)-histrionicotoxin 259A, 285C and 285E

Catherine J. Smith, Andrew B. Holmes* and Neil J. Press



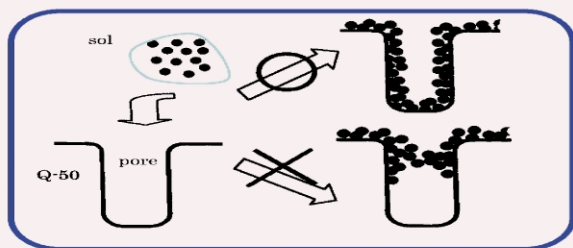
The first total syntheses of three “unsymmetrical” members of the histrionicotoxin family of alkaloids have been accomplished *via* stepwise introduction of the two side chain moieties onto a common tricyclic core.

1216

Simultaneous introduction of chemical and spatial effects *via* a new bimodal catalyst support preparation method

Yi Zhang, Yoshiharu Yoneyama and Noritsugu Tsubaki*

New multi-functional bimodal supports are readily prepared by direct introduction of zirconia sol to silica gel; this is useful for the preparation of a highly active catalyst.

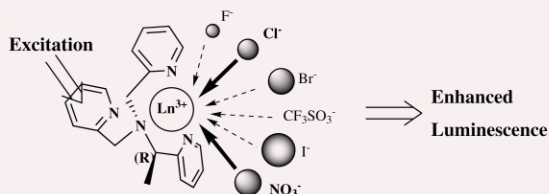


1218

Anion sensing with luminescent lanthanide complexes of tris(2-pyridylmethyl)amines: Pronounced effects of lanthanide center and ligand chirality on anion selectivity and sensitivity

Takashi Yamada, Satoshi Shinoda and Hiroshi Tsukube*

Proper combinations of chiral chromophoric ligands and luminescent lanthanide centers promise many possibilities in the development of anion sensory systems.

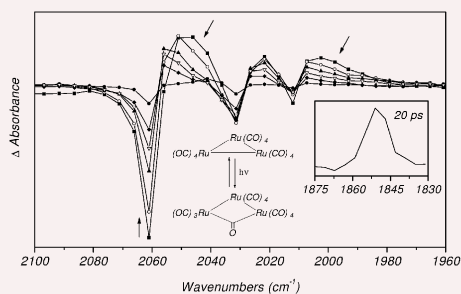


1220

First direct observation of a CO-bridged primary photoproduct of [Ru₃(CO)₁₂] by picosecond time-resolved IR spectroscopy

Frank W. Vergeer, František Hartl,* Pavel Matousek, Derk J. Stufkens and Michael Towrie

For the first time, a CO-bridged primary photoproduct has been observed for [Ru₃(CO)₁₂] by using picosecond time-resolved IR spectroscopy. The observation of a bridging ν(CO) band supports the formation of a reactive isomer of [Ru₃(CO)₁₂], as proposed in the literature.

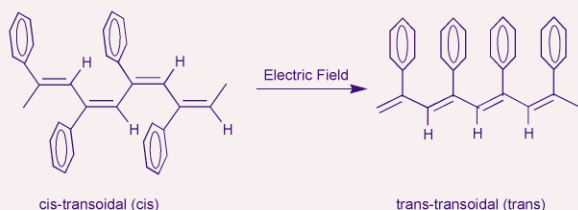


1222

Electric field induced *cis*-to-*trans* isomerization of polyphenylacetylene in solid state

Jing Zhi Sun, Hong Zheng Chen, Rui Song Xu, Mang Wang,* J. W. Y. Lam and Ben Zhong Tang

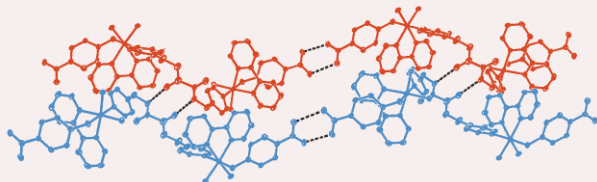
A field induced isomerization from *cis*-transoid to *trans*-transoid form in stereo-regular *cis*-rich polyphenylacetylenes was observed; it suggested that the *cis*-*trans* ratio in a working electronic device can never be assumed constant.



1224

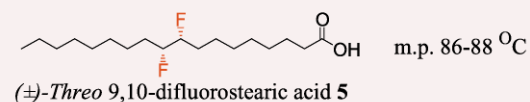
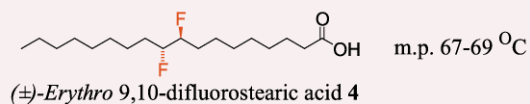
Self-assembly of an organometallic side-by-side double helix

Christopher S. A. Fraser, Dana J. Eisler, Michael C. Jennings and Richard J. Puddephatt*



The first polymeric organometallic double helix has been synthesized by self-assembly through hydrogen bonding by using a biomimetic strategy and a new side-by-side structural motif.

1226

The fluorine *gauche* effect. Langmuir isotherms report the relative conformational stability of (\pm)-*erythro*- and (\pm)-*threo*-9,10-difluorostearic acids

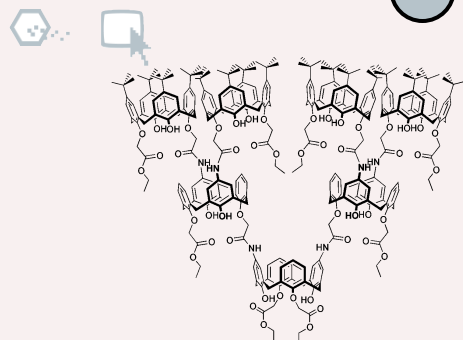
Mustafa Tavasli, David O'Hagan,* Christopher Pearson and Michael C. Petty

(\pm)-*Erythro*- and (\pm)-*threo*- 9,10-difluorostearic acids **4** and **5**, which differ only by a stereogenic interconversion of a single C–F bond, have significantly different conformational stabilities.

1228

Calix[4]arene based dendrimers

Fridrich Szemes, Michael G. B. Drew and Paul D. Beer*

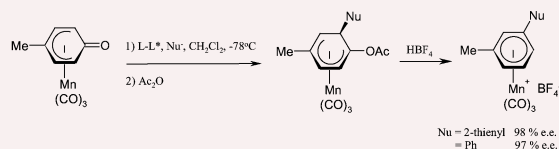


The synthesis of calix[4]arene based dendrimers containing up to seven calix[4]arene moieties is described, including the X-ray crystal structure of a tris-calix[4]arene branching derivative.

1230

Synthesis of planar chiral (1,3-disubstituted arene)Mn(CO)₃⁺ cations via addition of nucleophiles to (oxocyclohexadienyl)Mn(CO)₃ in the presence of chiral ligands

Seung Uk Son, Kang Hyun Park, Seung Jung Lee, Hwimin Seo and Young Keun Chung*

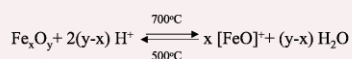
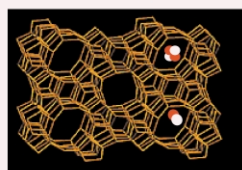


Planar chiral (1,3-disubstituted arene)Mn(CO)₃⁺ cations have been firstly synthesized from (*p*-cresol)Mn(CO)₃⁺.

1232

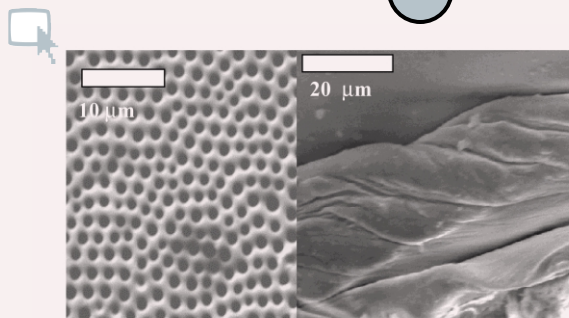
N₂O decomposition over Fe/ZSM-5: reversible generation of highly active cationic Fe species

Q. Zhu, E. J. M. Hensen,* B. L. Mojet, J. H. M. C. van Wolput and R. A. van Santen



Fe-oxide species in the micropore space of Fe/ZSM-5 react with protons at 700 °C to form cation species and are regenerated by exposure to water vapor at 500 °C, resulting in different catalytic activities in N₂O decomposition.

1234



Nanotectonic approach of the texturation of CeO₂ based nanomaterials

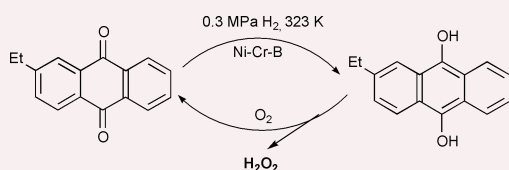
Anne Bouchara, Galo J. de A. A. Soler-Illia, Jean-Yves Chane-Ching and Clément Sanchez*

Original coral-like, macroporous or helical macrotextures are obtained following a nanotectonic approach based on the co-assembly of functionalised nanocrystalline CeO₂ with a templating polypeptide (PBLG); porous CeO₂ is obtained upon calcination.

1236

Highly selective amorphous Ni–Cr–B catalyst in 2-ethylanthraquinone hydrogenation to 2-ethylanthrahydroquinone

Bo Liu, Minghua Qiao, Jianqiang Wang and Kangnian Fan*

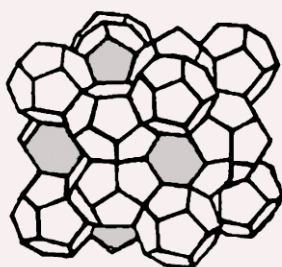


A nanosized amorphous Ni–Cr–B catalyst prepared by the chemical reduction method exhibited superior thermal stability and selectivity in hydrogen peroxide synthesis *via* the anthraquinone route.

1238

Direct synthesis and catalytic evaluation of AISBA-1

Martin Hartmann,* A. Vinu, S. P. Elangovan, V. Murugesan and Winfried Böhlmann



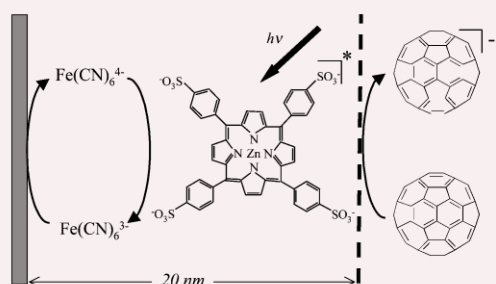
Direct synthesis of AISBA-1 containing only tetrahedrally coordinated aluminium: characterization and catalysis.

1240

Photocurrent responses at dye sensitised ultrathin polyelectrolyte multilayers supported on gold electrodes

Joseph J. Kakkassery, David J. Fermín* and Hubert H. Girault

The photoelectrochemical behaviour of ionic conducting ultrathin multilayers formed by sequential deposition of poly-L-lysine and poly-L-glutamic acid on modified gold electrodes is investigated upon sensitisation by zinc meso-tetrakis(*p*-sulfonatophenyl)porphyrin.



CONFERENCE DIARY

xi

Dates, venues and contact details of forthcoming events.

The Library and Information Centre (LIC) of the RSC offers a first class Document Delivery Service for items in Chemistry and related subjects. Contact the LIC, The Royal Society of Chemistry, Burlington House, Piccadilly, London W1V 0BN, UK.

This service is only available from the LIC in London and not the RSC in Cambridge.

Contents lists in advance of publication are available on the web via www.rsc.org/chemcomm – or take advantage of our free e-mail alerting service (www.rsc.org/ej_alert) to receive notification each time a new list becomes available.

* Indicates the author for correspondence: see article for contact details.



Supplementary crystallographic data are available: see article for further information.



Electronic supplementary information is available on <http://www.rsc.org/esi>: see article for further information.

Attention all Book Authors and Editors!

As an internationally renowned publisher in chemistry, the Royal Society of Chemistry is always keen to see proposals for new books. The Society would like to hear from you, or a colleague, if you have an idea for a book or are organising a conference from which you would like the proceedings published. (Even if you have an idea for a book, but do not wish to write it yourself, we would still be happy to hear from you.)

The categories of books published by the RSC include the following:

- Monographs
- Reviews
- Handbooks and Reference works
- Texts for undergraduates and graduates
- Proceedings of symposia and conferences



The RSC is unique in its coverage of chemistry and allied subjects, so is ideally placed for effective, world-wide marketing.

Please take a look at our website information at www.rsc.org/books or contact the Print Products Department at our Cambridge address for further details

RSC-12070032-MONO

RSC
ROYAL SOCIETY OF CHEMISTRY

Royal Society of Chemistry · Thomas Graham House · Science Park
Milton Road · Cambridge · CB4 0WF · UK · T +44(0)1223 432360
F +44(0)1223 423429 · E sales@rsc.org · Or visit our website: www.rsc.org
Part of the chemistry societies' network: www.chemsoc.org

ROYAL SOCIETY OF CHEMISTRY *Investing in Chemistry*

- Albano, Vincenzo G., 1170
 Alderfer, James L., 1172
 Alvarez, M. C., 1184
 Ando, Takashi, 1174
 Aragoni, M. Carla, 1170
 Arca, Massimiliano, 1170
 Baker, Robert J., 1196
 Bañares, M. A., 1184
 Barbero, J. A., 1184
 Barfod, Rasmus, 1206
 Baumgartner, Judith, 1190
 Beer, Paul D., 1228
 Berthier, Damien, 1212
 Blakemore, Paul R., 1159
 Böhlmann, Winfried, 1238
 Bouchara, Anne, 1234
 Bourbonnais, Robert, 1182
 Brown, David A., 1210
 Bull, Ivor, 1180
 Castellari, Carlo, 1170
 Chane-Ching, Jean-Yves, 1234
 Che, M., 1194
 Chen, Hong Zheng, 1222
 Chorkendorff, Ib, 1206
 Chung, Young Keun, 1230
 Demartin, Francesco, 1170
 Derouane, Eric G., 1178
 Devillanova, Francesco A., 1170
 Dougherty, Thomas J., 1172
 Dove, Andrew P., 1208
 Drew, Michael G. B., 1228
 Drewette, Katy J., 1176
 Eisler, Dana J., 1224
 Elangovan, S. P., 1238
 Elsegood, Mark R. J., 1200
 Errington, William, 1210
 Fan, Kangnian, 1236
 Farley, Robert D., 1196
 Fehrmann, Rasmus, 1206
 Fermín, David J., 1240
 Fierro, J. L. G., 1184
 Fitzpatrick, Noel J., 1210
 Fletcher, Nicholas C., 1188
 Frank, Dieter, 1190
 Fraser, Christopher S. A., 1224
 Fujita, Mitsue, 1174
 Gao, Feng, 1186
 Gibson, Vernon C., 1200, 1208
 Girault, Hubert H., 1240
 Glass, William K., 1210
 Hagen, Stefan, 1206
 Harada, Hisashi, 1174
 Hartl, František, 1220
 Hartmann, Martin, 1238
 Henderson, Kenneth W., 1176
 Hensen, E. J. M., 1232
 Holmes, Andrew B., 1214
 Huc, Ivan, 1212
 Ikeue, Takahisa, 1198
 Isaia, Francesco, 1170
 Jacobsen, Claus J. H., 1206
 Jennings, Michael C., 1224
 Jones, Cameron, 1196
 Kakkassery, Joseph J., 1240
 Kemp, Terence J., 1210
 Kennedy, Alan R., 1176
 Kimura, Takahide, 1174
 Kloth, Marc, 1196
 Komatsu, Koichi, 1192
 Konstantinova, Lidia S., 1204
 Kozhevnikov, Ivan V., 1178
 Kozhevnikova, Elena F., 1178
 Lam, J. W. Y., 1222
 Lee, Seung Jung, 1230
 Leech, Dónal, 1182
 Levêque, Jean-Marc, 1174
 Li, Guolin, 1172
 Lightfoot, Philip, 1180
 Lippolis, Vito, 1170
 Liu, Bo, 1236
 Liu, Xiaoying, 1186
 Loddo, Laura, 1170
 Luche, Jean-Louis, 1174
 Luo, Qian, 1186
 Marceau, E., 1194
 Marschner, Christoph, 1190
 Marshall, Edward L., 1208
 Matousek, Pavel, 1220
 Mehta, Ricky, 1172
 Mojet, B. L., 1232
 Morris, Russell E., 1180
 Mulvey, Robert E., 1176
 Murphy, Damien M., 1196
 Murugesan, V., 1238
 Nakamura, Mikio, 1198
 Negrier, F., 1194
 Nieuwenhuyzen, Mark, 1188
 Nimir, Hassan, 1210
 Nishinaga, Tohru, 1192
 Nurco, Daniel J., 1172
 Oda, Reiko, 1212
 O'Hagan, David, 1226
 O'Hara, Charles T., 1176
 Ohgo, Yoshiki, 1198
 Paice, Michael G., 1182
 Pandey, Ravindra K., 1172
 Park, Kang Hyun, 1230
 Pearson, Christopher, 1226
 Peña, M. A., 1184
 Petty, Michael C., 1226
 Prabarahan, Ravi, 1188
 Press, Neil J., 1214
 Puddephatt, Richard J., 1224
 Qiao, Minghua, 1236
 Rakitin, Oleg A., 1204
 Redshaw, Carl, 1200
 Rees, Charles W., 1204
 Rochefort, Dominic, 1182
 Rowlings, René B., 1176
 Ryan, Aine T., 1210
 Sanchez, Clément, 1234
 Sastre, Enrique, 1180
 Seo, Hwimin, 1230
 Shinkai, Seiji, 1212
 Shinoda, Satoshi, 1218
 Smith, Catherine J., 1214
 Smith, Kevin M., 1172
 Soler-Illia, Galo J. de A. A., 1234
 Son, Seung Uk, 1230
 Srikrishnan, Thamarapu, 1172
 Ståhl, Kenny, 1206
 Stufkens, Derk J., 1220
 Su, Bao-Lian, 1202
 Sugiyasu, Kazunori, 1212
 Sun, Jing Zhi, 1222
 Szemes, Fridrich, 1228
 Tabaczynski, Walter A., 1172
 Takahashi, Masashi, 1198
 Takeda, Masuo, 1198
 Takeuchi, Masayuki, 1212
 Tamaru, Shun-ichi, 1212
 Tang, Ben Zhong, 1222
 Tavasli, Mustafa, 1226
 Teunissen, Herman T., 1206
 Tian, Bozhi, 1186
 Towrie, Michael, 1220
 Tsubaki, Noritatsu, 1216
 Tsukube, Hiroshi, 1218
 Tu, Bo, 1186
 van Santen, R. A., 1232
 van Wolput, J. H. M. C., 1232
 Verani, Gaetano, 1170
 Vergeer, Frank W., 1220
 Vinu, A., 1238
 Wakamiya, Atsushi, 1192
 Wang, Jianqiang, 1236
 Wang, Mang, 1222
 Wheatley, Paul S., 1180
 White, Andrew J. P., 1208
 White, James D., 1159
 Williams, David J., 1208
 Wilson, Alison, 1188
 Wright, Paul A., 1180
 Xie, Songhai, 1186
 Xu, Rui Song, 1222
 Yamada, Takashi, 1218
 Yoneyama, Yoshiharu, 1216
 Yu, Chengzhong, 1186
 Yuan, Zhong-Yong, 1202
 Zhang, Yi, 1216
 Zhao, Dongyuan, 1186
 Zhou, Wuzong, 1202
 Zhu, Q., 1232

NOTE: An asterisk in the heading of each paper indicates the author who is to receive any correspondence.