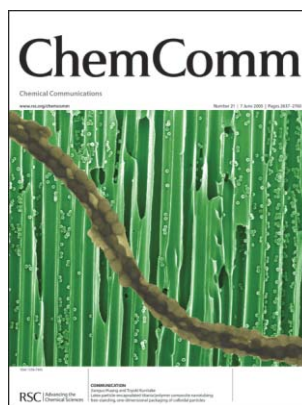




Cover
See Qing-Zheng Yang, Olivier Siri and Pierre Braunstein, page 2660. Structure of the zinc(II) complex formed with a new functional zwitterionic benzoquinonemonoimine containing a pendant amino group, superimposed on the H-bonded network generated when OH pendant groups are introduced by transamination reaction. Image kindly produced by Prof. R. Welter (ULP Strasbourg) by permission of Pierre Braunstein *et al.* from *Chem. Commun.*, 2005, 2660.



Inside cover
See Jianguo Huang and Toyoki Kunitake, page 2680. TEM image of latex particles in tubing superimposed onto a SEM image of particles in membrane channels. Image reproduced by permission of Jianguo Huang and Toyoki Kunitake from *Chem. Commun.*, 2005, 2680.

CHEMICAL SCIENCE

C41

Drawing together the research highlights and news from all RSC publications, *Chemical Science* provides a 'snapshot' of the latest developments across the chemical sciences showcasing newsworthy articles, as well as the most significant scientific advances.

Chemical Science

June 2005/Volume 2/Issue 6

www.rsc.org/chemicalscience

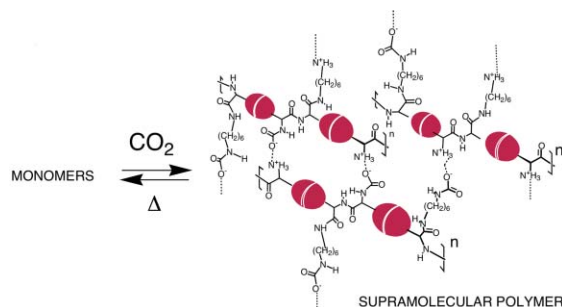
FEATURE ARTICLE

2651

Carbon dioxide and supramolecular chemistry

Dmitry M. Rudkevich* and Heng Xu

Principles of supramolecular chemistry and molecular recognition are applied to the century-old chemistry between CO₂ and amines in designing novel sensing systems and nanoscale, self-assembling polymeric materials and molecular networks.



EDITORIAL STAFF

Editor

Sarah Thomas

Deputy editor

Sula Armstrong

Assistant editors

Rachel Hopper, Lorna Jack, Nicola Nugent,
Alison Stoddart, Katherine Vickers

Publishing assistants

Jayne Drake, Jayne Gough, Lois Kershaw,

Crystallographic data editor

Kirsty Anderson

Team leader, serials production

Helen Saxton

Technical editors

Celia Clarke, Sandra Jones, Caroline Moore,
David Parker, Michael Smith, Ken Wilkinson

Editorial secretaries

Sonya Spring, Julie Thompson, Rebecca Gotobed

Publisher

Adrian Kybett

Chemical Communications (print: ISSN 1359-7345; electronic: ISSN 1364-548X) is published 48 times a year by the Royal Society of Chemistry, Thomas Graham House, Science Park, Milton Road, Cambridge, UK CB4 0WF. All orders, with cheques made payable to the Royal Society of Chemistry, should be sent to RSC Distribution Services, c/o Portland Customer Services, Commerce Way, Colchester, Essex, UK CO2 8HP. Tel +44 (0)1206 226050; E-mail sales@rscdistribution.org

2005 Annual (print + electronic) subscription price: £1595; US\$2635. 2005 Annual (electronic) subscription price: £1435; US\$2370. Customers in Canada will be subject to a surcharge to cover GST. Customers in the EU subscribing to the electronic version only will be charged VAT. If you take an institutional subscription to any RSC journal you are entitled to free, site-wide web access to that journal. You can arrange access via Internet Protocol (IP) address at www.rsc.org/ip. Customers should make payments by cheque in sterling payable on a UK clearing bank or in US dollars payable on a US clearing bank. Periodicals postage paid at Rahway, NJ, USA and at additional mailing offices. Airfreight and mailing in the USA by Mercury Airfreight International Ltd., 365 Blair Road, Avenel, NJ 07001, USA. US Postmaster: send address changes to Chemical Communications, c/o Mercury Airfreight International Ltd., 365 Blair Road, Avenel, NJ 07001. All despatches outside the UK by Consolidated Airfreight.
PRINTED IN THE UK

© The Royal Society of Chemistry, 2005. Apart from fair dealing for the purposes of research or private study for non-commercial purposes, or criticism or review, as permitted under the Copyright, Designs and Patents Act 1988 and the Copyright and Related Rights Regulations 2003, this publication may only be reproduced, stored or transmitted, in any form or by any means, with the prior permission in writing of the Publisher or in the case of reprographic reproduction in accordance with the terms of licences issued by the Copyright Licensing Agency in the UK. US copyright law is applicable to users in the USA. The Royal Society of Chemistry takes reasonable care in the preparation of this publication but does not accept liability for the consequences of any errors or omissions. Inclusion of an item in this publication does not imply endorsement by The Royal Society of Chemistry of the content of the original documents to which that item refers.

ChemComm

Chemical Communications

www.rsc.org/chemcomm

EDITORIAL BOARD

Chairman

Roeland J. M. Nolte, Nijmegen, The Netherlands
nolte@sci.kun.nl

Jerry L. Atwood, Columbia, USA

rsc.chemcomm@missouri.edu

Shankar Balasubramanian, Cambridge, UK
sb10031@cam.ac.uk

Hans-Ulrich Blaser, Solvias AG, Switzerland

hans-ulrich.blaser@SOLVIAS.com

P. Andrew Evans, Bloomington, USA

chemcomm@indiana.edu

Makoto Fujita, Tokyo, Japan

mfujita@appchem.t.u-tokyo.ac.jp

Alois Fürstner, Mülheim, Germany

fuerstner@mpi-muelheim.mpg.de

David Haddleton, Warwick, UK

D.M.Haddleton@warwick.ac.uk

Donald Hilvert, Zurich, Switzerland

hilvert@org.chem.ethz.ch

Mir Wais Hosseini, Strasbourg, France

hosseini@chimie.u-strasbg.fr

Barbara Imperiali, Cambridge, USA

chemcomm@mit.edu

Dermot O'Hare, Oxford, UK

chemcomm@chem.ox.ac.uk

Colin Raston, Perth, Australia

clraston@chem.uwa.edu.au

Ferdí Schüth, Mülheim, Germany

schueth@mpi-muelheim.mpg.de

T. Don Tilley, Berkeley, USA

chemcomm@berkeley.edu

SCIENTIFIC EDITORS

The Scientific Editors welcome enquiries from potential authors regarding the submission and scientific content of papers. For more information please see <http://www.rsc.org/authors>

Associate editors

Submissions should be sent via ReSource: <http://www.rsc.org/resource>

Manuscripts from the Americas should be submitted to the appropriate Associate Editor.

Supramolecular

Jerry L. Atwood

Organic

P. Andrew Evans

Dermot O'Hare

Donald Hilvert

Mir Wais Hosseini

Alois Fürstner

Chemical biology

Barbara Imperiali

Inorganic, Organometallic and Materials

T. Don Tilley

Submissions from other regions should be submitted to the Editor via ReSource at <http://www.rsc.org/resource>. For information on how to submit your manuscript see <http://www.rsc.org/authors>

EDITORIAL ADVISORY BOARD

Varinder Aggarwal, Bristol, UK

Takuzo Aida, Tokyo, Japan

Frank Allen, CCDC, Cambridge, UK

Dario Braga, Bologna, Italy

Jillian M. Buriak, Alberta, Canada

Derrick Clive, Alberta, Canada

Marcetta Daresbourg, College Station, USA

Gregory C. Fu, Cambridge, USA

Tohru Fukuyama, Tokyo, Japan

Lutz Gade, Heidelberg, Germany

Philip Gale, Southampton, UK

George W. Gokel, St Louis, USA

Craig Hawker, Santa Barbara, USA

Andrew B. Holmes, Melbourne, Australia

Amir Hoveyda, Boston, USA

Kazuyuki Kuroda, Tokyo, Japan

Jérôme Lacour, Geneva, Switzerland

David MacMillan, Pasadena, USA

E. W. 'Bert' Meijer, Eindhoven, The Netherlands

Jason Micklefield, Manchester, UK

Achim Müller, Bielefeld, Germany

Catherine Murphy, South Carolina, USA

Atsuhiko Osuka, Kyoto, Japan

Ian Paterson, Cambridge, UK

Maurizio Prato, Trieste, Italy

Christopher A. Reed, Riverside, USA

Robin Rogers, Alabama, USA

Michael Sailor, San Diego, USA

Jonathan Sessler, Austin, USA

Jonathan W. Steed, Durham, UK

Carsten Tschierske, Halle, Germany

Herbert Waldmann, Dortmund, Germany

Henry N. C. Wong, Hong Kong, PR China

Advertisement sales: Tel +44 (0) 1223 432243 Fax +44 (0) 1223 426017; E-mail advertising@rsc.org

♻️ The paper used in this publication meets the requirements of ANSI/NISO Z39.48-1992 (Permanence of Paper).

Royal Society of Chemistry: Registered Charity No. 207890.

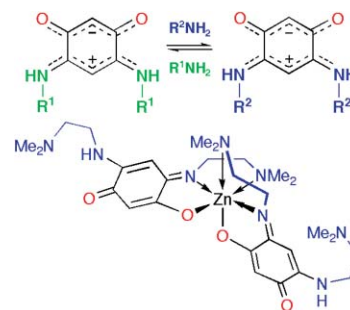
Authors may reproduce/republish portions of their published contribution without seeking permission from the RSC, provided that any such republication is accompanied by an acknowledgement in the form: (Original Citation)–Reproduced by permission of The Royal Society of Chemistry.

2660

First transamination reactions for the one-pot synthesis of substituted zwitterionic quinones

Qing-Zheng Yang, Olivier Siri and Pierre Braunstein*

Reversible transamination reactions carried out in water are used for the first time in quinonoid chemistry to access a range of functional, $6\pi + 6\pi$ electron molecules with enhanced H-bonding and metal-coordination properties.

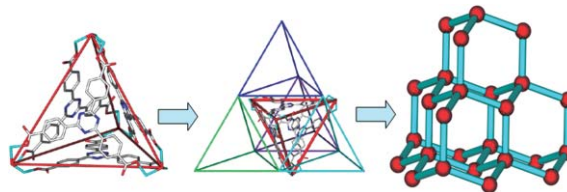


2663

Synthesis, characterization, and photoluminescence of isostructural Mn, Co, and Zn MOFs having a diamondoid structure with large tetrahedral cages and high thermal stability

Daofeng Sun, Shengqian Ma, Yanxiong Ke, Tracy M. Petersen and Hong-Cai Zhou*

Three novel isostructural metal–organic frameworks having a diamondoid structure with large tetrahedral cages have been prepared and characterized.

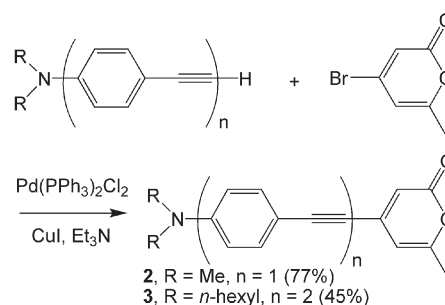


2666

Optical properties of donor–acceptor phenylene-ethynylene systems containing the 6-methylpyran-2-one group as an acceptor

Jonathan C. Collings, Alexander C. Parsons, Laurent Porrès, Andrew Beeby, Andrei S. Batsanov, Judith A. K. Howard, Donocadh P. Lydon, Paul J. Low, Ian J. S. Fairlamb* and Todd B. Marder*

Push–pull systems **2** and **3** containing the 6-methylpyran-2-one group exhibit pronounced solvatochromism in fluorescence suggesting a highly polar excited state; Φ_f for **3** is >0.9 .



2669

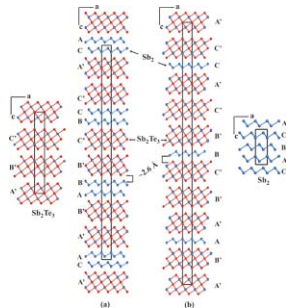
Template-free, polymerase-free DNA polymerization

Ye Tian and Chengde Mao*

A combination of a DNA ligase and a restriction endonuclease provides a DNA polymerase activity, which might suggest a novel strategy for polymer synthesis.



2672



Design in solid state chemistry based on phase homologies. Sb_4Te_3 and Sb_8Te_9 as new members of the series $(Sb_2Te_3)_m \cdot (Sb_2)_n$

Pierre F. P. Poudeu and Mercuri G. Kanatzidis*

The $(Sb_2Te_3)_m \cdot (Sb_2)_n$ family represents an example of a natural superlattice. The flexibility achievable through variation of the semi-conducting part (Sb_2Te_3) with the semi-metallic part (Sb_2) can help control the electronic and thermal transport properties in this class of compounds.

2675



DNA-coated microcrystals

Michaela Kreiner, Geeta Fuglevand, Barry D. Moore* and Marie-Claire Parker*

Water-soluble micron-sized particles coated with a layer of bioactive DNA can be prepared by a generic self-assembly process.

2677

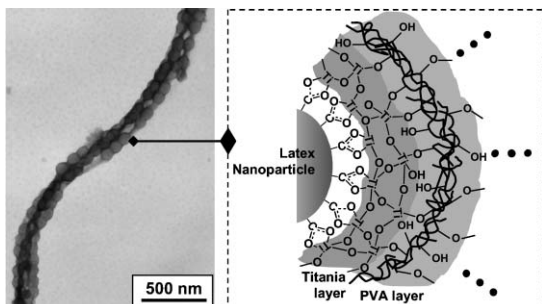


Nanoparticle-coated microcrystals

Muthu Murugesan, Douglas Cunningham, José-Luis Martínez-Albertos, Ranko M. Vrcelj and Barry D. Moore*

Water-soluble micron-sized particles coated with a layer of metal nanoparticles can be prepared by a generic self-assembly process.

2680



Latex particle-encapsulated titania/polymer composite nanotubings: free-standing, one-dimensional package of colloidal particles

Jianguo Huang and Toyoki Kunitake*

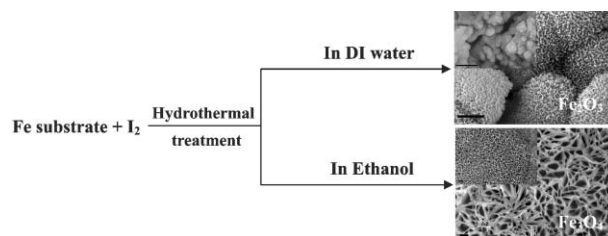
Latex nanoparticles were packed inside nanometer-thick titania/polymer composite nanotubules templated by porous alumina membrane, to give free-standing particle-in-tubing "micro-beanpods" after removal of the template membrane.

2683

Fabrication of hierarchical porous iron oxide films utilizing the Kirkendall effect

Lizhi Zhang,* Jimmy C. Yu,* Zhi Zheng and Cheuk Wan Leung

Hierarchical porous iron oxide (Fe_2O_3 and Fe_3O_4) films were selectively grown on iron substrates through hydrothermal reactions between an iron substrate and iodine powder in water or ethanol, respectively.

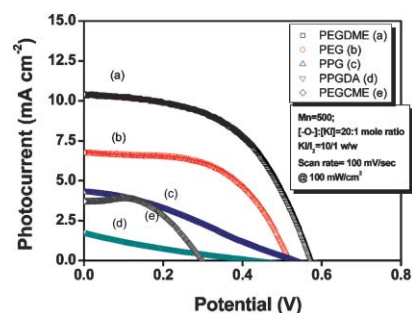


2686

Roles of terminal groups of oligomer electrolytes in determining photovoltaic performances of dye-sensitized solar cells

Moon-Sung Kang, Young Jin Kim, Jongok Won and Yong Soo Kang*

The terminal groups of oligomers significantly affect the photovoltaic characteristics of dye-sensitized solar cells (DSSC) by causing the changes in ionic conductivity, flatband potential and I_3^- concentration.

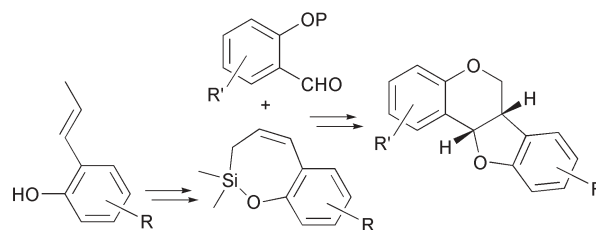


2689

A concise and diastereoselective total synthesis of *cis* and *trans*-pterocarpan

Leticia Jiménez-González, Míriam Álvarez-Corral, Manuel Muñoz-Dorado and Ignacio Rodríguez-García*

A new strategy for the diastereoselective and convergent synthesis of pterocarpan which is able to control the relative stereochemistry of the molecule through allylation of aromatic aldehydes with cyclic allylsiloxanes is described.

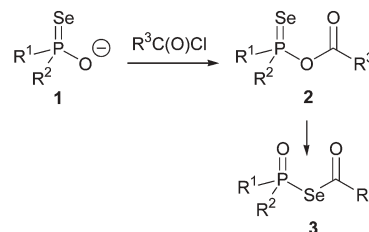


2692

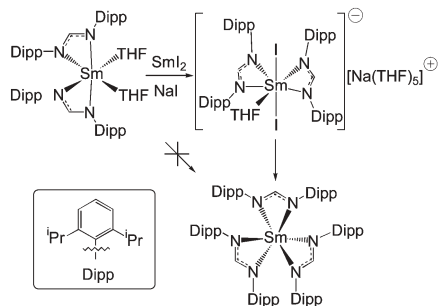
Synthesis and reactivity of *O*-acyl selenophosphates

Janusz Rachon,* Grzegorz Cholewinski and Dariusz Witt

The synthesis of several new *O*-acyl selenophosphates and their rearrangement to *Se*-acyl derivatives are investigated. Experimental evidence of the radical-driven mechanism of these rearrangements is presented.



2695

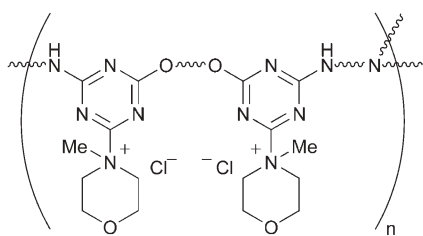


The synthesis of a sterically hindered samarium(II) bis(amidinate) and conversion to its homoleptic trivalent congener

Marcus L. Cole and Peter C. Junk*

The first samarium(II) bis(amidinate) has been prepared by salt elimination, redox transmetallation/ligand exchange and transamination syntheses. Aspects of the novel chemistry of this species, including the formation of a sterically hindered Sm(III) homoleptic tris(amidinate), are presented.

2698

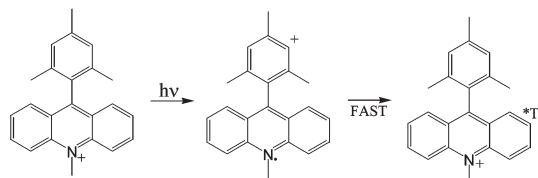


Development of novel polymer-type dehydrocondensing reagents comprised of chlorotriazines

Munetaka Kunishima,* Kazuyoshi Yamamoto, Yasunobu Watanabe, Kazuhito Hioki and Shohei Tani

A novel polymer-type dehydrocondensing reagents has been synthesized by alternating copolymerization between chlorotriazine derivatives and a diol or a triamine, exploiting the chemical property of cyanuric chloride that readily binds to alcohol or amines.

2701

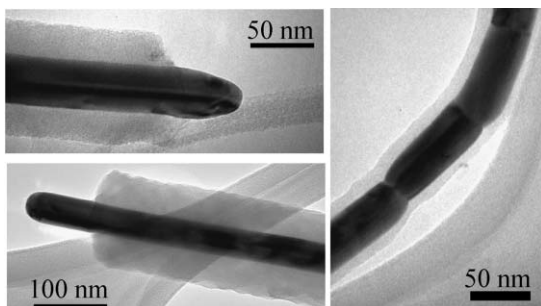


Illumination of the 9-mesityl-10-methylacridinium ion does not give a long-lived photoredox state

Andrew C. Benniston, Anthony Harriman,* Peiyi Li, James P. Rostron and Jan W. Verhoeven

The stable radical observed upon photolysis of the 9-mesityl-10-methylacridinium cation should not be taken as evidence for unusually slow charge recombination within the photoredox state.

2704



Microwave-assisted synthesis and *in-situ* self-assembly of coaxial Ag/C nanocables

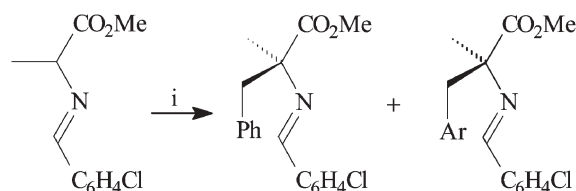
Jimmy C. Yu,* Xianluo Hu, Quan Li and Lizhi Zhang

We have demonstrated a new one-pot solution-phase route, namely microwave-assisted hydrothermal reduction/carbonization (MAHRC), for the rapid synthesis of coaxial Ag/C nanocables that can self-assemble in an end-to-end fashion into interconnected chains.

2707

Mechanistic studies on the asymmetric alkylation of amino ester enolates using a copper(II)salen catalystDonatella Banti, Yuri N. Belokon[†], Wen-Lan (Steffy) Fu, Elisabetta Groaz and Michael North*

In competition reactions with amino ester enolates, substituted aryl halides react in preference to benzyl bromide. Hammett data indicate that electron transfer from the enolate to the benzylic bromide occurs in the transition state of the reaction.

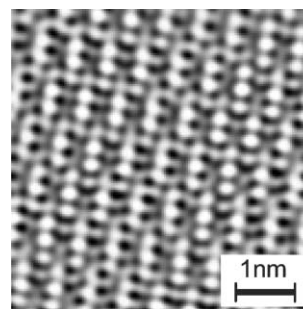


2710

Structures of a CO adlayer on a Pt(100) electrode in HClO₄ solution studied by *in situ* STM

Mitsuru Wakisaka, Takaharu Ohkanda, Toshiki Yoneyama, Hiroyuki Uchida and Masahiro Watanabe*

We for the first time have obtained an *in situ* STM atomic image of a CO adlayer, $c(6 \times 2)$ -10CO, on a Pt(100)-(1 × 1) electrode in a 0.1 M HClO₄ solution, which can transform to $c(4 \times 2)$ -6CO at $E > 0.3$ V vs. RHE.

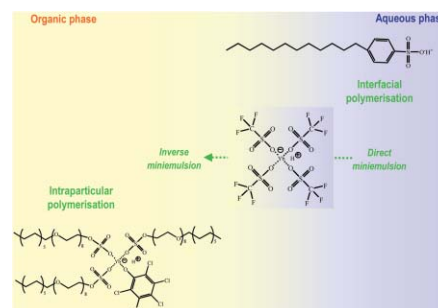


2713

High molar mass polymers by cationic polymerisation in emulsion and miniemulsion

S  verine Cauvin, Fran  ois Ganachaud,* Michel Moreau and Patrick H  mery

The *in situ* preparation of bulky, organosoluble super-acids allows fast cationic polymerisation of *p*-methoxystyrene in an emulsion and the production of high molar mass polymers.

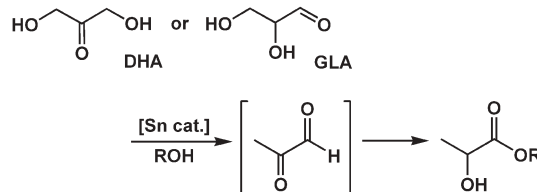


2716

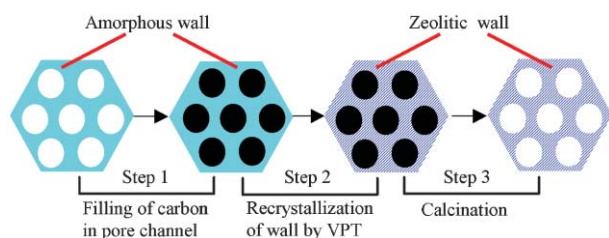
Tin-catalyzed conversion of trioses to alkyl lactates in alcohol solution

Yukiko Hayashi and Yoshiyuki Sasaki*

A high-yielding preparation of alkyl lactates is achieved by the reaction of trioses, dihydroxyacetone (DHA) and glyceraldehyde (GLA) with tin catalysts in alcohols.



2719

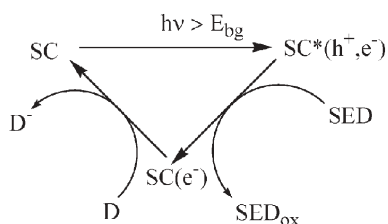


Synthesis of mesoporous aluminosilicate with zeolitic characteristics using vapor phase transport

Yiwen Zhang, Tatsuya Okubo and Masaru Ogura

A mesoporous material with zeolitic characteristics is synthesized using a vapor phase transport method, along with stabilization of the mesostructure during crystallization of the amorphous walls by carbon filling.

2721

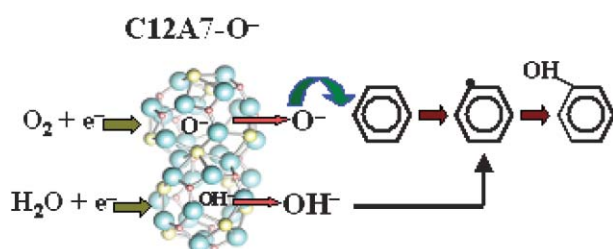


An intelligence ink for photocatalytic films

Andrew Mills,* Jishun Wang, Soo-Keun Lee and Morten Simonsen

Major processes associated with a photocatalyst ink for the rapid assessment of photocatalyst film activity.

2724

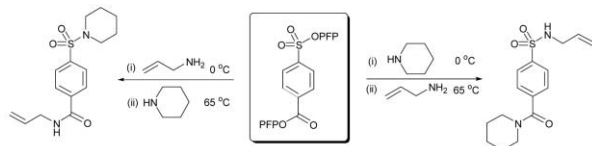


One-step synthesis of phenol by O⁻ and OH⁻ emission material

Ting Dong, Jiang Li, Fan Huang, Lian Wang, Jing Tu, Yoshifumi Torimoto, Masayoshi Sadakata and Quanxin Li*

A novel approach to the direct synthesis of phenol was obtained with high benzene conversion (30%) and phenol selectivity (~90%) by using a microporous material [Ca₂₄Al₂₈O₆₄]⁴⁺·4O⁻ (C12A7-O⁻) as catalyst with oxygen and water.

2727



Observations on the reactivity of pentafluorophenyl sulfonate esters

Stephen Caddick,* Jonathan D. Wilden and Duncan B. Judd

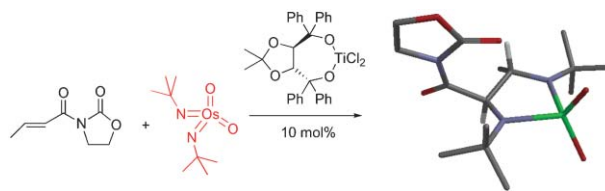
Mechanistic and synthetic studies on PFP-sulfonates demonstrate that alkyl PFP-sulfonates undergo displacement with amines consistent with a sulfene intermediate. Recent work demonstrates compatibility of PFP-sulfonates with aqueous reaction conditions. Further opportunities for two-directional synthesis using bis-PFP derivatives are also presented.

2729

Enantioselective catalytic diamination of alkenes with a bisimidoosmium oxidant

Kilian Muñiz* and Martin Nieger

The differentiation of the enantiotopic face of an olefin can be accomplished by application of an oxazolidinone as directing group for a Ti-TADDOL-catalyst. Thus, enantioselective diamination with a bisimido osmium reagent has been achieved for the first time.

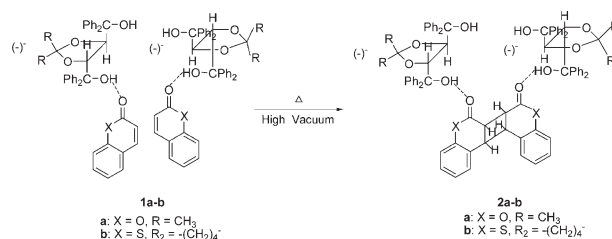


2732

Highly regio- and enantioselective thermal [2 + 2] cycloaddition of coumarin in a crystalline inclusion complex under high vacuum

Yongqiang Wen, Yanlin Song,* Dongbo Zhao, Kuiling Ding,* Jiang Bian, Xue Zhang, Jingxia Wang, Yang Liu, Lei Jiang and Daoben Zhu

Highly regio- and stereoselective thermal [2 + 2] cycloaddition was achieved by coumarin or thiocoumarin in their inclusion crystalline complexes. Hydrogen bond and high vacuum were found to be indispensable factors for the reaction.

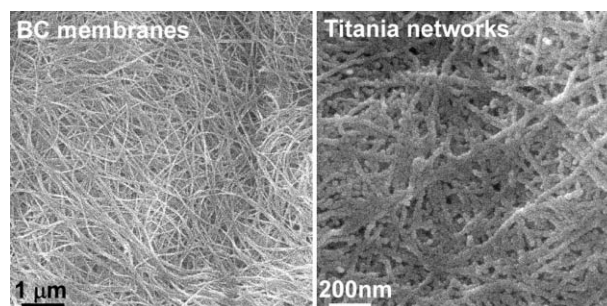


2735

Synthesis of mesoporous titania networks consisting of anatase nanowires by templating of bacterial cellulose membranes

Dayong Zhang and Limin Qi*

Mesoporous titania networks consisting of interconnected anatase nanowires were synthesized by using unique bacterial cellulose (BC) membranes as natural biotemplates.

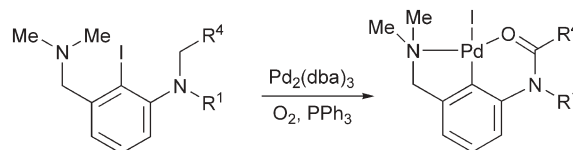


2738

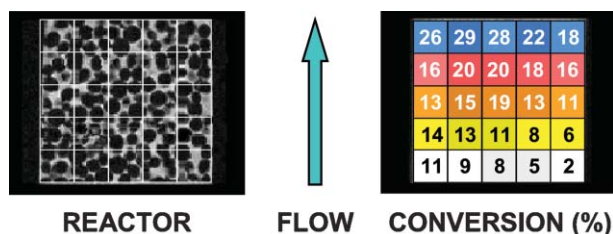
Synthesis of novel palladium OCN-pincer complexes: unprecedented sequential C(sp³)-H activation and aerobic oxidation in the reaction of *N,N*-dialkyl-3-[(*N,N*-dimethylamino)methyl]-2-iodoanilines with Pd₂(dba)₃

Daniel Solé,* Lluís Vallverdú, Xavier Solans and Mercé Font-Bardia

Palladium OCN-pincer complexes are obtained by reaction of 2-haloanilines with Pd₂(dba)₃ and O₂ by means of an unprecedented process.



2741

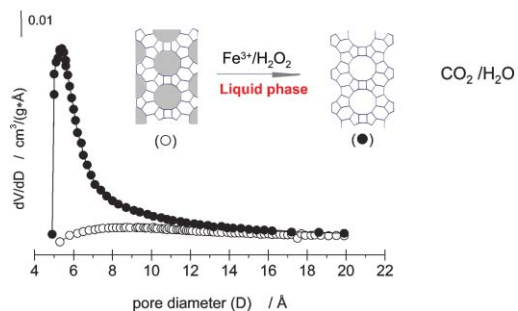


In situ ^{13}C DEPT-MRI as a tool to spatially resolve chemical conversion and selectivity of a heterogeneous catalytic reaction occurring in a fixed-bed reactor

Belinda S. Akpa, Michael D. Mantle, Andrew J. Sederman and Lynn F. Gladden*

Natural abundance ^{13}C DEPT-MRI is used to map chemical conversion and selectivity in a fixed-bed reactor.

2744

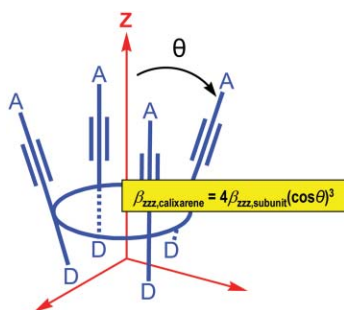


Room temperature detemplation of zeolites through H_2O_2 -mediated oxidation

Ignacio Melián-Cabrera,* Freek Kapteijn and Jacob A. Moulijn

Detemplation of zeolite beta has been successfully achieved at low temperature by controlled oxidation of the template using H_2O_2 and catalyzed by traces of Fe^{3+} , and the pristine structure of the material is preserved.

2747

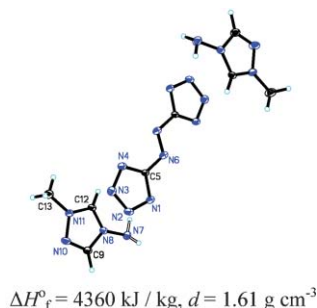


Tetraalkynyl calix[4]arenes with advanced NLO properties

Gunther Hennrich,* M. Teresa Murillo, Pilar Prados, Kai Song, Inge Asselberghs, Koen Clays,* André Persoons, Jordi Benet-Buchholz and Javier de Mendoza

Hyper-Raleigh scattering is used to establish the second-order hyperpolarizability values β as well as to address conformational aspects, in particular the dihedral angle θ , of two tetraalkynyl-calix[4]arenes in solution.

2750



Energetic salts of azotetrazolate, iminobis(5-tetrazolate) and 5, 5'-bis(tetrazolate)

Chengfeng Ye, Ji-Chang Xiao, Brendan Twamley and Jean'ne M. Shreeve*

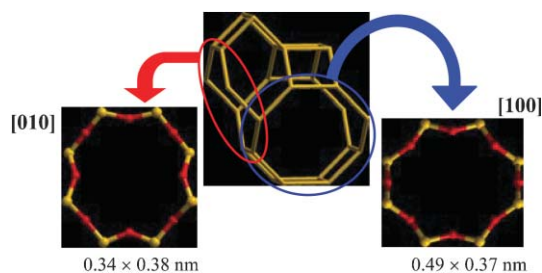
1-Methyl-4-aminotriazolium azotetrazolate has a layered structure and exhibits a heat of formation of $+4360 \text{ kJ kg}^{-1}$.

2753

RMA-3: synthesis and structure of a novel Rb-aluminosilicate zeolite

Takuji Ikeda and Keiji Itabashi*

A novel aluminosilicate zeolite RMA-3 incorporating rubidium ion was hydrothermally synthesized. The framework composed of two sub-building units have two-dimensional straight channels with different sizes of 8-membered rings.

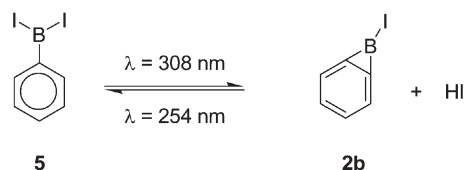


2756

Generation of iodobenzoborirene, a boraaromatic cyclopropabenzene derivative

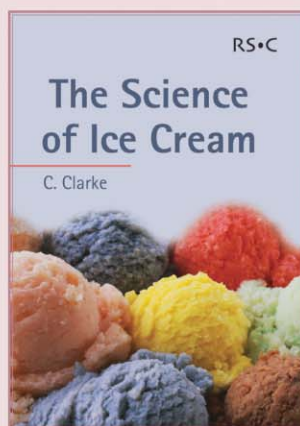
Holger F. Bettinger*

Iodobenzoborirene is obtained photochemically ($\lambda = 308$ nm) from diiodophenylborane by elimination of HI in solid argon at 10 K.



The Science of Ice Cream

RSC Paperbacks
By C Clarke



This book is accessible to the general reader who has studied science to A level. It describes the link between the microscopic structure and the macroscopic properties of ice cream.

It describes:

- the physical chemistry underlying the manufacture of ice cream
- the ingredients and industrial production of ice cream and ice cream products
- a wide range of different physical and sensory techniques used to measure and assess ice cream
- the microstructure of ice cream and how this relates to the physical properties and ultimately the texture that you experience when you eat it

Softcover | 2004 | approx xvi + 182 | 0 85404 629 1 | £24.95 | RSC members' price £16.00

www.rsc.org/books/6291

Orders & further details Sales & Customer Services
Royal Society of Chemistry · Thomas Graham House
Science Park · Milton Road · Cambridge · CB4 0WF · UK

T +44(0)1223 432360 · F +44(0)1223 426017 · E sales@rsc.org
Or visit our websites: www.rsc.org and www.chemsoc.org
Registered Charity No. 207890

RSC


AUTHOR INDEX

- Akpa, Belinda S., 2741
 Álvarez-Corral, Míriam, 2689
 Asselberghs, Inge, 2747
 Banti, Donatella, 2707
 Batsanov, Andrei S., 2666
 Beeby, Andrew, 2666
 Belokon', Yuri N., 2707
 Benet-Buchholz, Jordi, 2747
 Benniston, Andrew C., 2701
 Bettinger, Holger F., 2756
 Bian, Jiang, 2732
 Braunstein, Pierre, 2660
 Caddick, Stephen, 2727
 Cauvin, Séverine, 2713
 Cholewinski, Grzegorz, 2692
 Clays, Koen, 2747
 Cole, Marcus L., 2695
 Collings, Jonathan C., 2666
 Cunningham, Douglas, 2677
 de Mendoza, Javier, 2747
 Ding, Kuiling, 2732
 Dong, Ting, 2724
 Fairlamb, Ian J. S., 2666
 Font-Bardia, Mercé, 2738
 Fu, Wen-Lan (Steffy), 2707
 Fuglevand, Geeta, 2675
 Ganachaud, François, 2713
 Gladden, Lynn F., 2741
 Groaz, Elisabetta, 2707
 Harriman, Anthony, 2701
 Hayashi, Yukiko, 2716
 Hémy, Patrick, 2713
 Hennrich, Gunther, 2747
 Hioki, Kazuhito, 2698
 Howard, Judith A. K., 2666
 Hu, Xianluo, 2704
 Huang, Fan, 2724
 Huang, Jianguo, 2680
 Ikeda, Takuji, 2753
 Itabashi, Keiji, 2753
 Jiang, Lei, 2732
 Jiménez-González, Leticia, 2689
 Judd, Duncan B., 2727
 Junk, Peter C., 2695
 Kanatzidis, Mercouri G., 2672
 Kang, Moon-Sung, 2686
 Kang, Yong Soo, 2686
 Kapteijn, Freek, 2744
 Ke, Yanxiong, 2663
 Kim, Young Jin, 2686
 Kreiner, Michaela, 2675
 Kunishima, Munetaka, 2698
 Kunitake, Toyoki, 2680
 Lee, Soo-Keun, 2721
 Leung, Cheuk Wan, 2683
 Li, Jiang, 2724
 Li, Peiyi, 2701
 Li, Quan, 2704
 Li, Quanxin, 2724
 Liu, Yang, 2732
 Low, Paul J., 2666
 Lydon, Donocadh P., 2666
 Ma, Shengqian, 2663
 Mantle, Michael D., 2741
 Mao, Chengde, 2669
 Marder, Todd B., 2666
 Martínez-Albertos, José-Luis, 2677
 Melián-Cabrera, Ignacio, 2744
 Mills, Andrew, 2721
 Moore, Barry D., 2675, 2677
 Moreau, Michel, 2713
 Moulijn, Jacob A., 2744
 Muñoz, Kilian, 2729
 Muñoz-Dorado, Manuel, 2689
 Murillo, M. Teresa, 2747
 Murugesan, Muthu, 2677
 Nieger, Martin, 2729
 North, Michael, 2707
 Ogura, Masaru, 2719
 Ohkanda, Takaharu, 2710
 Okubo, Tatsuya, 2719
 Parker, Marie-Claire, 2675
 Parsons, Alexander C., 2666
 Persoons, André, 2747
 Petersen, Tracy M., 2663
 Porrès, Laurent, 2666
 Poudeu, Pierre F. P., 2672
 Prados, Pilar, 2747
 Qi, Limin, 2735
 Rachon, Janusz, 2692
 Rodríguez-García, Ignacio, 2689
 Rostron, James P., 2701
 Rudkevich, Dmitry M., 2651
 Sadakata, Masayoshi, 2724
 Sasaki, Yoshiyuki, 2716
 Sederman, Andrew J., 2741
 Shreeve, Jean'ne M., 2750
 Simonsen, Morten, 2721
 Siri, Olivier, 2660
 Solans, Xavier, 2738
 Solé, Daniel, 2738
 Song, Kai, 2747
 Song, Yanlin, 2732
 Sun, Daofeng, 2663
 Tani, Shohei, 2698
 Tian, Ye, 2669
 Torimoto, Yoshifumi, 2724
 Tu, Jing, 2724
 Twamley, Brendan, 2750
 Uchida, Hiroyuki, 2710
 Vallverdú, Lluís, 2738
 Verhoeven, Jan W., 2701
 Vrcelj, Ranko M., 2677
 Wakisaka, Mitsuru, 2710
 Wang, Jingxia, 2732
 Wang, Jishun, 2721
 Wang, Lian, 2724
 Watanabe, Masahiro, 2710
 Watanabe, Yasunobu, 2698
 Wen, Yongqiang, 2732
 Wilden, Jonathan D., 2727
 Witt, Dariusz, 2692
 Won, Jongok, 2686
 Xiao, Ji-Chang, 2750
 Xu, Heng, 2651
 Yamamoto, Kazuyoshi, 2698
 Yang, Qing-Zheng, 2660
 Ye, Chengfeng, 2750
 Yoneyama, Toshiki, 2710
 Yu, Jimmy C., 2683, 2704
 Zhang, Dayong, 2735
 Zhang, Lizhi, 2683, 2704
 Zhang, Xue, 2732
 Zhang, Yiwen, 2719
 Zhao, Dongbo, 2732
 Zheng, Zhi, 2683
 Zhou, Hong-Cai, 2663
 Zhu, Daoben, 2732

FREE E-MAIL ALERTS

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 details.

 Electronic supplementary information (ESI) is available *via* the online article (see <http://www.rsc.org/esi> for general information about ESI).

ADVANCE ARTICLES AND ELECTRONIC JOURNAL

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