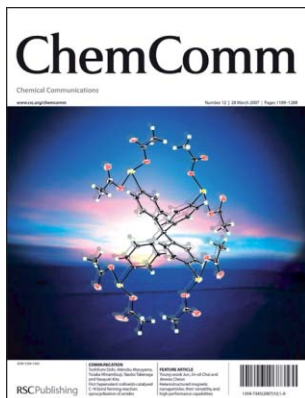


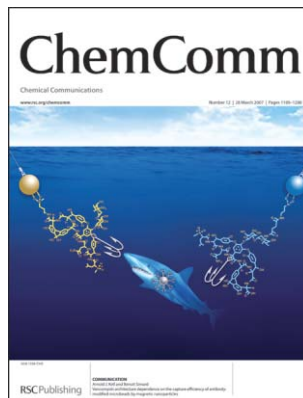
IN THIS ISSUE

ISSN 1359-7345 CODEN CHCOFS (12) 1189–1288 (2007)



Cover

See Yasuyuki Kita *et al.*, page 1224. The use of fluoroalcohols expands the concept of catalytic utilization of hypervalent iodine reagents. Image reproduced by permission of Toshifumi Dohi, Akinobu Maruyama, Yutaka Minamitsuji, Naoko Takenaga and Yasuyuki Kita, from *Chem. Commun.*, 2007, 1224.



Inside cover

See Arnold J. Kell and Benoit Simard, page 1227. The orientation of vancomycin on the surface of superparamagnetic nanoparticles has a drastic effect on their ability to magnetically “fish” vancomycin-antibody modified polystyrene beads from aqueous solution. Image reproduced by permission of Arnold J. Kell and Benoit Simard, from *Chem. Commun.*, 2007, 1227.

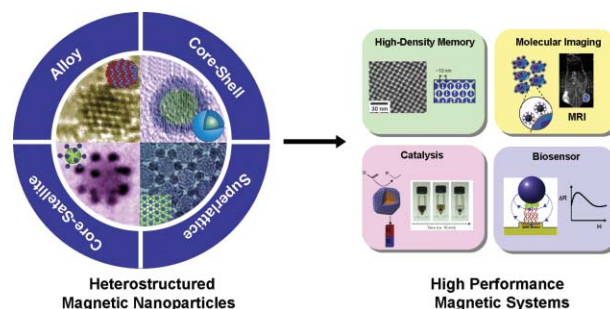
FEATURE ARTICLE

1203

Heterostructured magnetic nanoparticles: their versatility and high performance capabilities

Young-wook Jun, Jin-sil Choi and Jinwoo Cheon*

Recent advances in the development of heterostructured nanoparticles including alloys, core–shells, and binary superlattices are discussed. Their multifunctionalities and high performance capabilities are demonstrated for applications in magnetic storages, catalysis, and biomedical diagnostics.



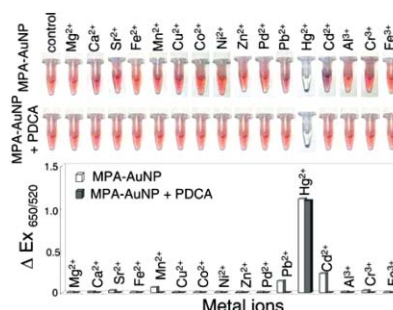
COMMUNICATIONS

1215

Parameters for selective colorimetric sensing of mercury(II) in aqueous solutions using mercaptopropionic acid-modified gold nanoparticles

Chih-Ching Huang and Huan-Tsung Chang*

A new homogeneous assay—using mercaptopropionic acid-modified Au nanoparticles (MPA-AuNPs) in the presence of 2,6-pyridinedicarboxylic acid (PDCA)—for the highly selective and sensitive detection of Hg^{2+} ions.



EDITORIAL STAFF

Editor

Sarah Thomas

Deputy editor

Kathryn Sear

Assistant editors

James Mitchell Crow, Nicola Nugent, Alison Stoddart, Katherine Vickers, Jenna Wilson

Publishing assistants

Jackie Cockrill, Jayne Gough, Rachel Hegarty

Team leader, serials production

Helen Saxton

Technical editors

Sue Askey, Celia Clarke, Nicola Convine, Alan Holder, Laura Howes, Sandra Jones, David Parker, Ken Wilkinson, Roger Young

Administration coordinator

Sonya Spring

Editorial secretaries

Donna Fordham, Jill Segev, Julie Thompson

Publisher

Emma Wilson

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

2007 Annual (print + electronic) subscription price: £1832; US\$3462. 2007 Annual (electronic) subscription price: £1649; US\$3116. 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, 2007. 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

Associate Editors

P. Andrew Evans, Liverpool, UK
andrew.evans@liverpool.ac.uk
Jonathan L. Sessler, Austin, USA
chemcommun@cm.utexas.edu
T. Don Tilley, Berkeley, USA
chemcomm@berkeley.edu

Scientific Editors

Alois Fürstner, Mülheim, Germany
fuerstner@mpi-muelheim.mpg.de
Mir Wais Hosseini, Strasbourg, France
hosseini@chimie.u-strasbg.fr

Members

Shankar Balasubramanian, Cambridge, UK
sb10031@cam.ac.uk
Penny Brothers, Auckland, New Zealand
p.brothers@auckland.ac.nz

Jillian M. Buriak, Edmonton, Canada
jburiak@ualberta.ca

Ben L. Feringa, Groningen, The Netherlands
feringa@chem.rug.nl

David Haddleton, Warwick, UK
D.M.Haddleton@warwick.ac.uk

Peter Kündig, Geneva, Switzerland
Peter.Kundig@chiorg.unige.ch

Nazario Martín, Madrid, Spain
nazmar@quim.ucm.es

Keiji Maruoka, Kyoto, Japan
maruoka@kuchem.kyoto-u.ac.jp

Ryong Ryoo, Taejeon, Korea
rryoo@kaist.ac.kr

Ferdi Schüth, Mülheim, Germany
schueth@mpi-muelheim.mpg.de

Nicholas J. Turner, Manchester, UK
nicholas.turner@manchester.ac.uk

EDITORIAL ADVISORY BOARD

Varinder Aggarwal, Bristol, UK
Frank Allen, CCDC, Cambridge, UK
Jerry L. Atwood, Columbia, USA
Amit Basak, Kharagpur, India
Dario Braga, Bologna, Italy
Xiao-Ming Chen, Guangzhou, China
Derrick Clive, Alberta, Canada
Marcetta Darensbourg, College Station, USA
Scott E. Denmark, Urbana, USA
Shaojun Dong, Changchun, China
Chris Easton, Canberra, Australia
Gregory C. Fu, Cambridge, USA
Tohru Fukuyama, Tokyo, Japan
Lutz Gade, Heidelberg, Germany
Philip Gale, Southampton, UK
George W. Gokel, St Louis, USA
Trevor Hambley, Sydney, Australia
Craig Hawker, Santa Barbara, USA
Andrew B. Holmes, Melbourne, Australia
Amir Hoveyda, Boston, USA
Steven M. Howdle, Nottingham, UK
Taeghwan Hyeon, Seoul, Korea
Biao Jiang, Shanghai, China
Karl Anker Jørgensen, Aarhus, Denmark
Kimoan Kim, Pohang, Korea

Susumu Kitagawa, Kyoto, Japan
Shu Kobayashi, Tokyo, Japan
Jérôme Lacour, Geneva, Switzerland
Teck-Peng Loh, Singapore
Tien-Yau Luh, Taipei, Taiwan
Doug MacFarlane, Monash, Australia
David MacMillan, Princeton, USA
Seth Marder, Atlanta, USA
Ilan Marek, Haifa, Israel
E. W. 'Bert' Meijer, Eindhoven, The Netherlands
Achim Müller, Bielefeld, Germany
Catherine Murphy, South Carolina, USA
Atsuhiko Osuka, Kyoto, Japan
Ian Paterson, Cambridge, UK
Maurizio Prato, Trieste, Italy
C. N. R. Rao, Bangalore, India
Christopher A. Reed, Riverside, USA
Robin Rogers, Alabama, USA
Michael Sailor, San Diego, USA
Jonathan W. Steed, Durham, UK
Zhong-Qun Tian, Xiamen, China
Carsten Tschierske, Halle, Germany
Herbert Waldmann, Dortmund, Germany
Henry N. C. Wong, Hong Kong, China
Eiji Yashima, Nagoya, Japan

Advertisement sales: Tel +44 (0) 1223 432246; 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.

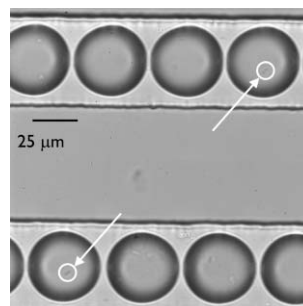
Authors may reproduce/republish portions of their published contribution without seeking permission from the RSC, provided that any such republication is accompanied by an acknowledgement in the form: (Original Citation)–Reproduced by permission of The Royal Society of Chemistry.

1218

Quantitative detection of protein expression in single cells using droplet microfluidics

A. Huebner, M. Srisa-Art, D. Holt, C. Abell, F. Hollfelder, A. J. deMello and J. B. Edel

We demonstrate that single cells can be controllably compartmentalized within aqueous microdroplets. Using such an approach we perform high-throughput screening by detecting the expression of a fluorescent protein in individual cells with simultaneous measurement of droplet size, fluorescence and cell occupancy.

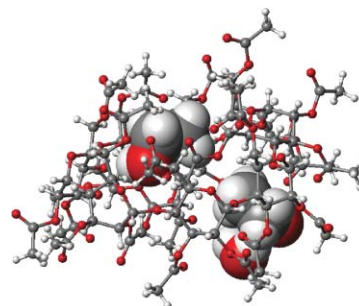


1221

Effect of peracetylation on the conformation of γ -cyclodextrin

Mino R. Caira,* Giampiero Bettinetti, Milena Sorrenti, Laura Catenacci, Dyanne Cruickshank and Kate Davies

Peracetylation of the γ -cyclodextrin molecule destroys the fourfold symmetry that typifies the conformation observed in its crystalline inclusion complexes. 'Self-inclusion' of acetyl residues in the derived molecule results in the formation of two sub-cavities that accommodate guest solvent molecules.

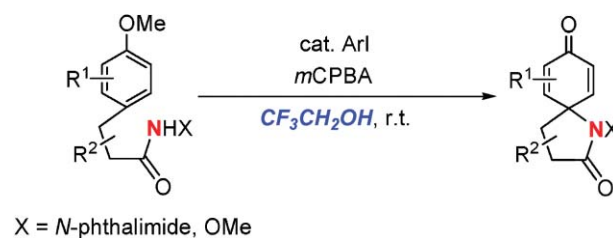


1224

First hypervalent iodine(III)-catalyzed C–N bond forming reaction: catalytic spirocyclization of amides to *N*-fused spiroactams

Toshifumi Dohi, Akinobu Maruyama, Yutaka Minamitsuji, Naoko Takenaga and Yasuyuki Kita*

The authors have developed the first iodoarene-catalyzed intramolecular carbon–nitrogen bond forming reaction utilizing $\text{CF}_3\text{CH}_2\text{OH}$ media in the presence of stoichiometric cooxidant, *m*-chloroperbenzoic acid (*m*CPBA).

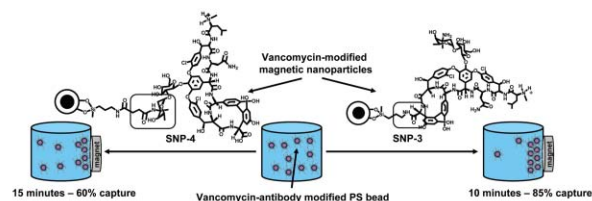


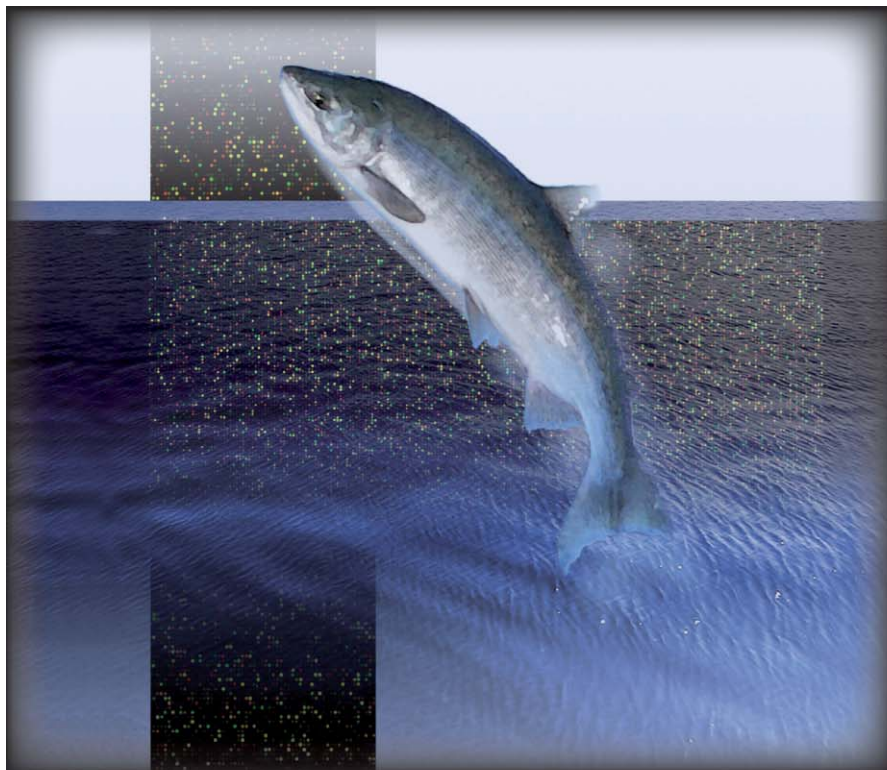
1227

Vancomycin architecture dependence on the capture efficiency of antibody-modified microbeads by magnetic nanoparticles

Arnold J. Kell and Benoit Simard*

We show that the ability to control the architecture/orientation of vancomycin on the surface of magnetic nanoparticles has a drastic effect on the ability of the nanoparticles to magnetically confine vancomycin-antibody modified polystyrene microbeads.





Molecular BioSystems publishes cutting-edge research at the interface between chemistry, the -omic sciences and systems biology. Fast publication and additional online features, added to the high visibility ensured by indexing in MEDLINE, makes Molecular BioSystems the perfect place for your research in subject areas including chemical biology, systems biology, proteomics and genomics, cellular processes and metabolism.

Examples of recent papers include:

An integrated chemical, mass spectrometric and computational strategy for (quantitative) phosphoproteomics: application to *Drosophila melanogaster* Kc167 cells
Bernd Bodenmiller, Lukas N. Mueller, Patrick G. A. Pedrioli, Delphine Pfeifer, Martin A. Jünger, Jimmy K. Eng, Ruedi Aebersold and W. Andy Tao

High content siRNA screening

Eberhard Krausz

Fish 'n' chips: the use of microarrays for aquatic toxicology

Nancy D. Denslow, Natàlia Garcia-Reyero and David S. Barber

Artificial protein sensors

Thomas Schrader and Sebastian Koch

Biochemical, biophysical and proteomic approaches to study DNA helicases

Alessandro Vindigni

NMR as a tool for elucidating the structure of circular and knotted proteins

David Craik and Norelle L. Daly

Functional screening revisited in the postgenomic era

Shiro Tochtani and Yoshihide Hayashizaki

Submit your manuscript at www.rsc.org/ReSource, or contact the editorial team at MoIBioSyst@rsc.org

To discuss your submission, contact:

Michael Smith
Commissioning
Editor
MoIBioSyst@rsc.org



21020763

RSC Publishing

www.molecularbiosystems.org

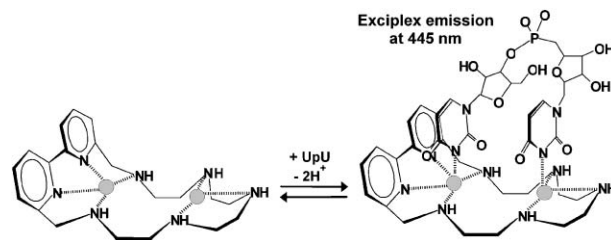
Registered Charity Number 207890

1230

A dizinc complex for selective fluorescence sensing of uridine and uridine-containing dinucleotides

Carla Bazzicalupi, Andrea Bencini,* Laura Bussotti, Emanuela Berni, Silvia Biagini, Enrico Faggi, Paolo Foggi,* Claudia Giorgi, Andrea Lapini, Agnese Marcelli and Barbara Valtancoli

A dizinc complex with a polyamine macrocycle is able to selectively sense uridine as well as U(3'-5')pU and U(3'-5')pA, thanks to an exciplex emission arising from a π -stacking complex involving dipyridine and Zn(II)-bound uridine units.

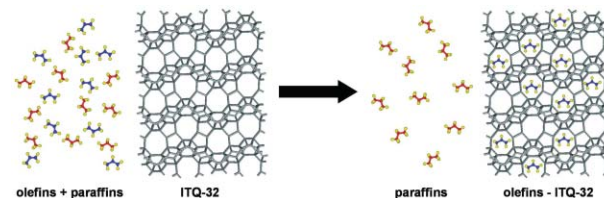


1233

Pure silica ITQ-32 zeolite allows separation of linear olefins from paraffins

Miguel Palomino, Angel Cantín, Avelino Corma, Sandra Leiva, Fernando Rey* and Susana Valencia*

Pure silica ITQ-32 zeolite is a promising material for separation of light linear olefins and paraffins from their mixtures.

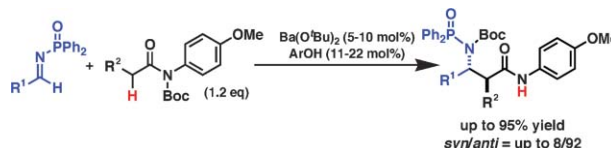


1236

Direct-type catalytic Mannich reactions of amides with imines

Susumu Saito, Tetsu Tsubogo and Shū Kobayashi*

Direct-type catalytic Mannich reactions of amides with imines proceeded smoothly using barium phenoxide as a catalyst to afford the desired adducts in high yields with high *anti* selectivities.

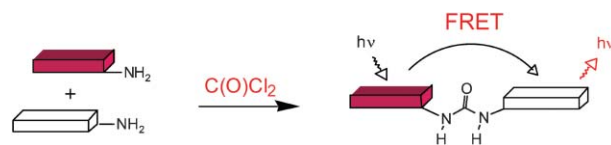


1238

A FRET approach to phosgene detection

Hexiang Zhang and Dmitry M. Rudkevich*

A FRET approach towards potential detection of phosgene is presented, which is based on a selective chemical reaction between phosgene (or triphosgene as a simulant) and donor and acceptor fluorophores.



Alternative Fuel Technologies

A series of PCCP special issues guest edited by Joachim Maier (MPI Stuttgart), Dirk Guldi (Universität Erlangen-Nürnberg), and Adriano Zecchina (University of Torino)

Following on from the highly successful nano-themed issues, PCCP presents a series of themed issues on Alternative Fuel Technologies. Published in selected printed issues of PCCP over the coming months and collected online on a dedicated website, these issues feature the very latest research including:

- ▶ fuel cells
- ▶ electrochemical energy conversion
- ▶ supercapacitors and molecular materials
- ▶ hydrogen storage
- ▶ solar energy conversion
- ▶ biohydrogen

Sign up for RSS alerts to have the latest articles delivered directly to your desktop



06110615

RSC Publishing

www.rsc.org/pccp/altfuel

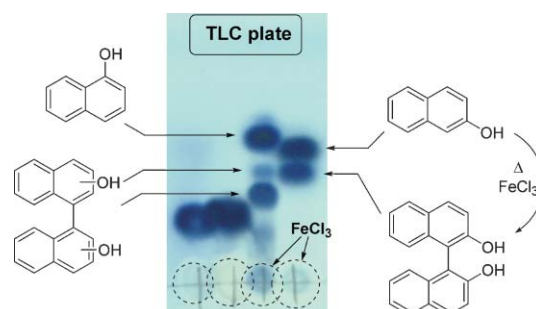
Registered Charity Number 207890

1240

TLC plates as a convenient platform for solvent-free reactions

Jonathan M. Stoddard,* Lien Nguyen, Hector Mata-Chavez and Kelly Nguyen

Solvent-free oxidative couplings of naphthols have been optimized by co-spotting catalysts and substrates directly on silica TLC plates and heating, followed by chromatography, staining, and qualitative visualization.

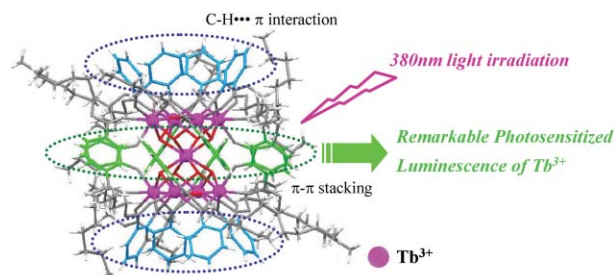


1242

Effective and efficient photoluminescence of salicylate-ligating terbium(III) clusters stabilized by multiple phenyl-phenyl interactions

Kazuhiro Manseki and Shozo Yanagida*

A nonanuclear terbium(III) hydroxo cluster with well-organized salicyl esters gives remarkable terbium(III) emission by longer wavelength photosensitization, *i.e.*, by near-UV light excitation.

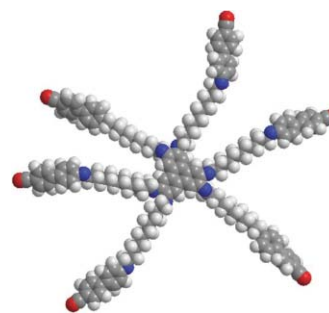


1245

Oligomeric rod–disc nematic liquid crystals

Corrie T. Imrie,* Zhibao Lu, Stephen J. Picken and Zeynep Yildirim

Liquid crystals consisting of molecules having a triphenylene core attached to which are six 4-cyanobiphenyl units *via* flexible spacers are described; the molecular symmetry is disc-like and discotic nematic phases are observed.

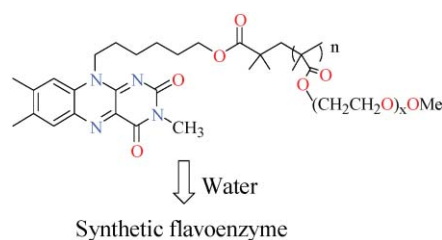


1248

Polymeric model systems for flavoenzyme activity: towards synthetic flavoenzymes

Brian J. Jordan, Graeme Cooke,* James F. Garety, Michael A. Pollier, Nadiya Kryvokhyzha, Ali Bayir, Gouher Rabani and Vincent M. Rotello

The authors report the synthesis of a water soluble flavin polymer using ATRP, whereby the oligoethylene glycol backbone provides both a local hydrophobic environment and redox tuning of the flavin moiety typical of flavoenzyme prototypes.



RSC Biomolecular Sciences

A series of research level books covering the interface between chemistry and biology. Written by high profile scientists the books are fully referenced and colour illustrated.

Editor-in-Chief

Professor Stephen Neidle, *University of London, UK*

Series Editors:

Dr Simon F Campbell

Dr Marius Clore, *National Institute of Health, USA*

Professor David M J Lilley, *University of Dundee, UK*

Readership:

Academic researchers, graduate students, government institutions, industry

Format:

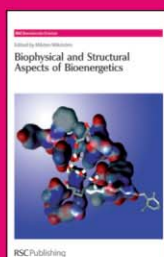
Hardcover

Biophysical and Structural Aspects of Bioenergetics

Edited by *M Wikström*

Highlighting the latest key developments with an emphasis on molecular structure and how this changes during the bioenergetic function.

2005 | xviii+396 pages | 978 0 85404 346 0 | £74.95
RSC Member Price £48.75

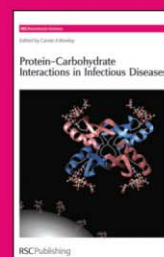


Protein-Carbohydrate Interactions in Infectious Diseases

Edited by *CA Bewley*

The book reviews the atomic basis of protein – carbohydrate interactions; and goes on to discuss several types of infectious agents.

2006 | xiv+250 pages | 978 0 85404 802 1 | £74.95
RSC Member Price £49.50

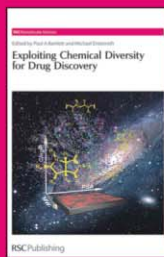


Exploiting Chemical Diversity for Drug Discovery

Edited by *PA Bartlett and M Entzeroth*

Covers the design and optimisation of chemical libraries; including automated chemistry, high throughput design and data analysis.

2006 | xxiv+420 pages | 978 0 85404 842 7 | 119.95
RSC Member Price £77.75



Structure-Based Drug Discovery: An Overview

Edited by *RE Hubbard*

The book discusses structure based methods including: x-ray crystallography, NMR spectroscopy, computational chemistry and modelling.

2006 | xvi+262 pages | 978 0 85404 351 4 | £74.95
RSC Member Price £48.75

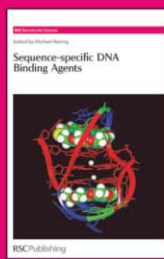


Sequence-specific DNA Binding Agents

Edited by *J Waring*

The book discusses key aspects and the diverse modes of binding of antibiotics and drugs to DNA.

2006 | xii+258 pages | 978 0 85404 370 5 | £79.95
RSC Member Price £51.75

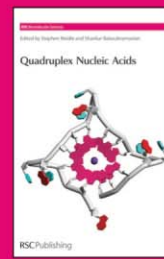


Quadruplex Nucleic Acids

Edited by *S Neidle and S Balasubramanian*

Discusses all aspects of quadruplex structure including the kinetics of folding and the role of cations on stability.

2006 | 254 pages | 978 0 85404 374 3 | £79.95
RSC Member Price £51.75

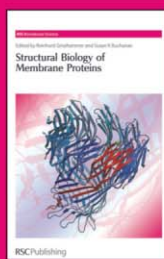


Structural Biology of Membrane Proteins

Edited by *R Grishammer and S K Buchanan*

This book discusses expression, purification and crystallisation; characterisation techniques and new protein structures.

2006 | xxiv+390 pages | 978 0 85404 361 3 | £119.95
RSC Member Price £77.75



Forthcoming Titles

Protein Folding And Misfolding

Edited by *V Munoz*

Computational Biology: Structure Based Drug Design

Edited by *R Stroud*

Registered Charity Number: 207890

RSC Publishing

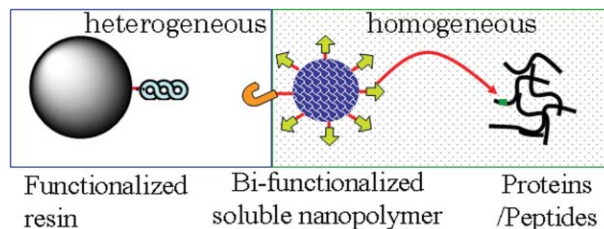
www.rsc.org/biomolecularsciences

1251

A novel quantitative proteomics reagent based on soluble nanoparticles

Minjie Guo, Jacob Galan and W. Andy Tao*

A new strategy, termed Soluble Polymer-based Isotopic Labeling (SoPIL), was presented for quantitative proteomics. Bi-functionalized dendrimers leads to highly efficient quantitation and the determination of protease activities in snake venoms.

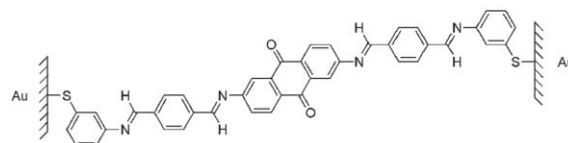
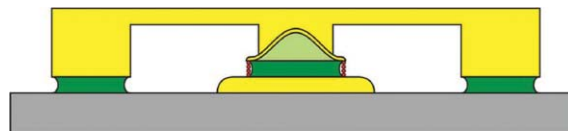


1254

Molecular electronics: connection across nano-sized electrode gaps

Geoffrey J. Ashwell,* Piotr Wierzchowicz, Catherine J. Bartlett and Philip D. Buckle

Prefabricated nano-scale structures in which gold electrodes are separated by an insulating core permit self-assembly of a single string “molecular necklace” around the circumference and such devices require no further invasive metal deposition following molecular insertion.

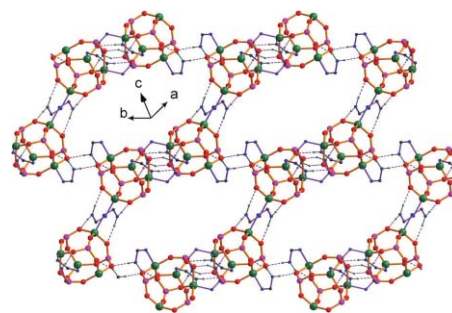


1257

Seeking tetrameric transition metal phosphonate with a D4R core and organising it into a 3-D supramolecular assembly

Ramaswamy Murugavel* and Swaminathan Shanmugan

The first example of a transition metal phosphonate whose core resembles the D4R SBU of zeolites has been synthesised; this compound forms an interesting 3-D supramolecular framework.

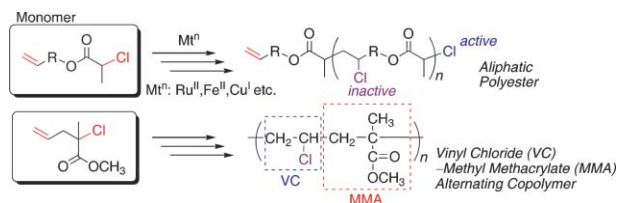


1260

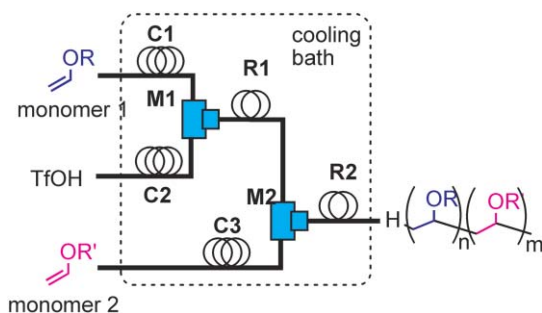
Metal-catalyzed radical polyaddition as a novel polymer synthetic route

Kotaro Satoh, Masato Mizutani and Masami Kamigaito*

A new class of polymerizations was developed *via* metal-catalyzed C–C bond forming radical polyaddition. The monomers were designed to have a reactive C–Cl bond along with a C=C bond, to which the carbon radical generated from another molecule adds to form a C–C backbone polymer with an inactive C–Cl pendant.



1263

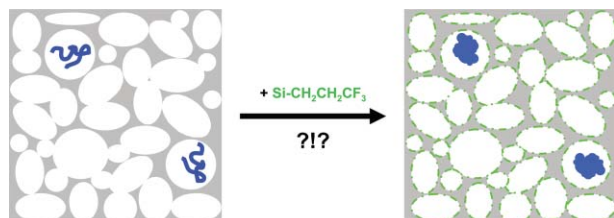


Microsystem controlled cationic polymerization of vinyl ethers initiated by $\text{CF}_3\text{SO}_3\text{H}$

Takeshi Iwasaki, Aiichiro Nagaki and Jun-ichi Yoshida*

Practical cationic polymerization and block-copolymerization of vinyl ethers have been achieved at $-25\text{ }^\circ\text{C}$ by using $\text{CF}_3\text{SO}_3\text{H}$ initiator in microsystems with high level of molecular weight distribution control.

1266

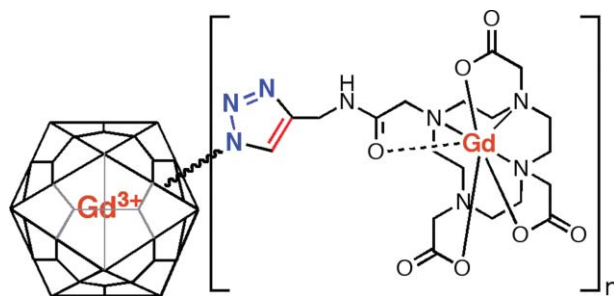


Hydrophobic, organically-modified silica gels enhance the secondary structure of encapsulated apomyoglobin

Veronica A. Rocha and Daryl K. Eggers*

Insertion of hydrophobic groups in a silica matrix, by addition of propyl- or trifluoropropyltrimethoxysilane, leads to a surprising increase in the helical content of apomyoglobin following encapsulation by the sol-gel technique.

1269

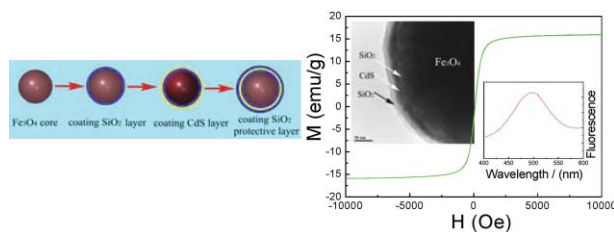


Viral MRI contrast agents: coordination of Gd by native virions and attachment of Gd complexes by azide-alkyne cycloaddition

Duane E. Prasuhn, Jr., Robert M. Yeh, Andre Obenaus, Marianne Manchester and M. G. Finn*

Icosahedral virions were rendered active for MRI by attachment of Gd(III) ions to the interior and exterior surfaces of virus particles using complementary coordination and covalent methods.

1272



Fabrication of well-defined water-soluble core/shell heteronanostructures through the SiO_2 spacer

Minghai Chen, Lian Gao,* Songwang Yang and Jing Sun

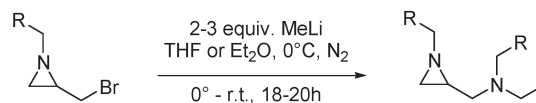
An approach to the fabrication of core/shell heteronanostructures through a chemical bath deposition method assisted by the bridging of SiO_2 spacer has been developed including a slow heterogeneous nucleation mechanism.

1275

Highly unusual conversion of 1-alkyl-2-(bromomethyl)aziridines into 1-alkyl-2-(*N*-alkyl-*N*-ethylaminomethyl)aziridines using methyllithium

Matthias D'hooghe and Norbert De Kimpe*

1-Alkyl-2-(bromomethyl)aziridines were transformed into 1-alkyl-2-(*N*-alkyl-*N*-ethylaminomethyl)aziridines upon treatment with methyllithium through a highly unusual reaction course with a novel S_N2'-type substitution at the aziridine moiety and liberation of acetylene from an intermediate vinylamine as the key reaction steps.

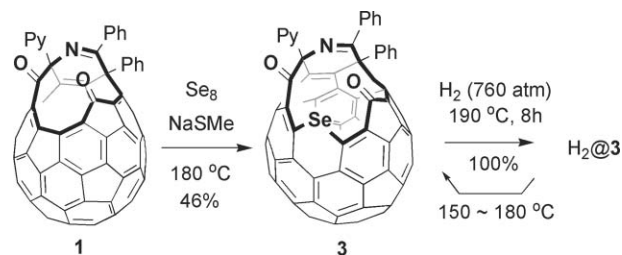


1278

Fine tuning of the orifice size of an open-cage fullerene by placing selenium in the rim: insertion/release of molecular hydrogen

Shih-Ching Chuang, Yasujiro Murata,* Michihisa Murata, Sadayuki Mori, Shuhei Maeda, Fumiyuki Tanabe and Koichi Komatsu*

A newly synthesized open-cage fullerene containing selenium in the rim of the 13-membered-ring orifice allows milder conditions for hydrogen insertion, and the rate for hydrogen release is *ca.* 3-times faster than its sulfur analogue.

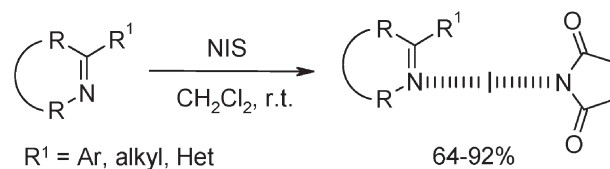


1281

Reaction of imines with *N*-iodosuccinimide (NIS): unexpected formation of stable 1 : 1 complexes

Isabel Castellote, María Morón, Carolina Burgos,* Julio Alvarez-Builla, Avelino Martin, Pilar Gómez-Sal and Juan J. Vaquero*

Substituted cyclic imines and some ketimines react with NIS to afford unexpected stable 1 : 1 complexes based on a halogen bonding between the iminic nitrogen and the iodine of NIS. The structure of one of the complexes was determined by single-crystal X-ray diffraction.

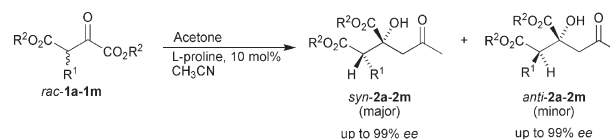


1284

Dynamic kinetic resolution of 2-oxo-3-aryl-succinates by organocatalyzed aldolization

Yajun Wang, Zongxuan Shen, Bin Li, Yong Zhang and Yawen Zhang*

The dynamic kinetic resolution of 2-oxo-3-arylsuccinates was achieved *via* L-proline-catalyzed addition of acetone in acetonitrile at room temperature, providing the desired adduct in good yield with up to 87 : 13 dr and high ee up to 99%.




AUTHOR INDEX

- Abell, C., 1218
Alvarez-Builla, Julio, 1281
Ashwell, Geoffrey J., 1254
Bartlett, Catherine J., 1254
Bayir, Ali, 1248
Bazzicalupi, Carla, 1230
Bencini, Andrea, 1230
Berni, Emanuela, 1230
Bettinetti, Giampiero, 1221
Biagini, Silvia, 1230
Buckle, Philip D., 1254
Burgos, Carolina, 1281
Bussotti, Laura, 1230
Caira, Mino R., 1221
Cantín, Angel, 1233
Castellote, Isabel, 1281
Catenacci, Laura, 1221
Chang, Huan-Tsung, 1215
Chen, Minghai, 1272
Cheon, Jinwoo, 1203
Choi, Jin-sil, 1203
Chuang, Shih-Ching, 1278
Cooke, Graeme, 1248
Corma, Avelino, 1233
Cruickshank, Dyanne, 1221
Davies, Kate, 1221
De Kimpe, Norbert, 1275
deMello, A. J., 1218
D'hooghe, Matthias, 1275
Dohi, Toshifumi, 1224
Edel, J. B., 1218
Eggers, Daryl K., 1266
Faggi, Enrico, 1230
Finn, M. G., 1269
Foggi, Paolo, 1230
Galan, Jacob, 1251
Gao, Lian, 1272
Garety, James F., 1248
Giorgi, Claudia, 1230
Gómez-Sal, Pilar, 1281
Guo, Minjie, 1251
Hollfelder, F., 1218
Holt, D., 1218
Huang, Chih-Ching, 1215
Huebner, A., 1218
Imrie, Corrie T., 1245
Iwasaki, Takeshi, 1263
Jordan, Brian J., 1248
Jun, Young-wook, 1203
Kamigaito, Masami, 1260
Kell, Arnold J., 1227
Kita, Yasuyuki, 1224
Kobayashi, Shū, 1236
Komatsu, Koichi, 1278
Kryvokhyzha, Nadiya, 1248
Lapini, Andrea, 1230
Leiva, Sandra, 1233
Li, Bin, 1284
Lu, Zhibao, 1245
Maeda, Shuhei, 1278
Manchester, Marianne, 1269
Manseki, Kazuhiro, 1242
Marcelli, Agnese, 1230
Martin, Avelino, 1281
Maruyama, Akinobu, 1224
Mata-Chavez, Hector, 1240
Minamitsuji, Yutaka, 1224
Mizutani, Masato, 1260
Mori, Sadayuki, 1278
Morón, María, 1281
Murata, Michihisa, 1278
Murata, Yasujiro, 1278
Murugavel, Ramaswamy, 1257
Nagaki, Aiichiro, 1263
Nguyen, Kelly, 1240
Nguyen, Lien, 1240
Obenaus, Andre, 1269
Palomino, Miguel, 1233
Picken, Stephen J., 1245
Pollier, Michael A., 1248
Prasuhn, Jr., Duane E., 1269
Rabani, Gouher, 1248
Rey, Fernando, 1233
Rocha, Veronica A., 1266
Rotello, Vincent M., 1248
Rudkevich, Dmitry M., 1238
Saito, Susumu, 1236
Satoh, Kotaro, 1260
Shanmugan, Swaminathan, 1257
Shen, Zongxuan, 1284
Simard, Benoit, 1227
Sorrenti, Milena, 1221
Srisa-Art, M., 1218
Stoddard, Jonathan M., 1240
Sun, Jing, 1272
Takenaga, Naoko, 1224
Tanabe, Fumiyuki, 1278
Tao, W. Andy, 1251
Tsubogo, Tetsu, 1236
Valencia, Susana, 1233
Valtancoli, Barbara, 1230
Vaquero, Juan J., 1281
Wang, Yajun, 1284
Wierzchowiec, Piotr, 1254
Yanagida, Shozo, 1242
Yang, Songwang, 1272
Yeh, Robert M., 1269
Yildirim, Zeynep, 1245
Yoshida, Jun-ichi, 1263
Zhang, Hexiang, 1238
Zhang, Yawen, 1284
Zhang, Yong, 1284

FREE E-MAIL ALERTS AND RSS FEEDS


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.

 Try our RSS feeds for up-to-the-minute news of the latest research. By setting up RSS feeds, preferably using feed reader software, you can be alerted to the latest Advance Articles published on the RSC web site. Visit www.rsc.org/publishing/technology/rss.asp for details.

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.

* 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).