Organic & Biomolecular Chemistry

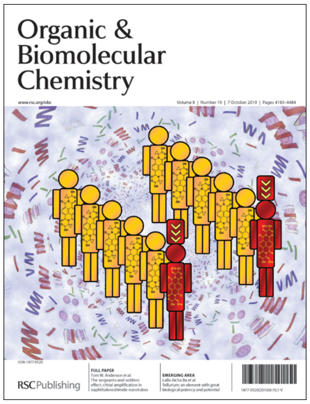
An international journal of synthetic, physical and biomolecular organic chemistry

www.rsc.org/obc

RSC Publishing is a not-for-profit publisher and a division of the Royal Society of Chemistry. Any surplus made is used to support charitable activities aimed at advancing the chemical sciences. Full details are available from www.rsc.org

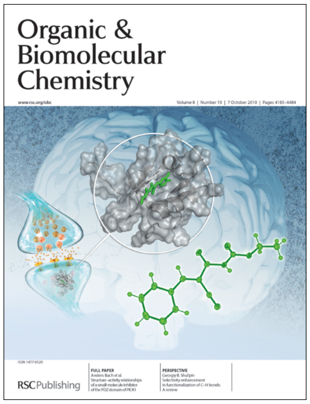
IN THIS ISSUE

ISSN 1477-0520 CODEN OBCRAK 8(19) 4185–4484 (2010)



Cover
See Anderson *et al.*, pp. 4274–4280.
Chiral naphthalenediimide-based monomers impose a helical supramolecular structure upon achiral monomers much like sergeants organising soldiers in rank and file.

Image reproduced by permission of G. Dan Pantoş from *Org. Biomol. Chem.*, 2010, **8**, 4274.



Inside cover
See Bach *et al.*, pp. 4281–4288.
Structure-activity relationships of the first small-molecule inhibitor of the PDZ domain of PICK1, an important protein in the brain, have been explored.

Image reproduced by permission of Ulrik Gether and Kristian Strømgaard from *Org. Biomol. Chem.*, 2010, **8**, 4281.

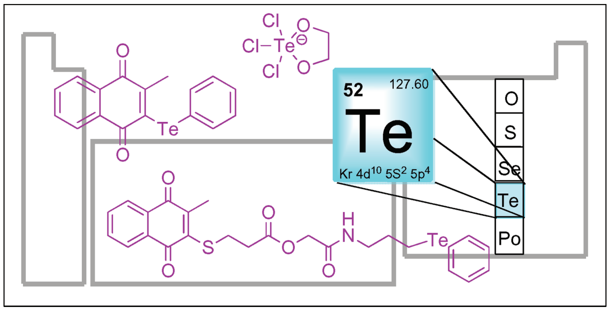
EMERGING AREA

4203

Tellurium: an element with great biological potency and potential

Lalla Aicha Ba, Mandy Döring, Vincent Jamier and Claus Jacob*

Although their synthesis is not always straightforward, organotellurium compounds have recently attracted considerable interest among biological chemists, in particular in areas such as imaging, antibiotics and anticancer drug design.



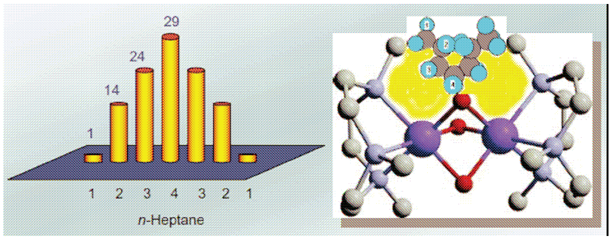
PERSPECTIVE

4217

Selectivity enhancement in functionalization of C–H bonds: A review

Georgiy B. Shul'pin*

By applying the ideas of biochemistry, chemists can create new catalysts which selectively functionalize various C–H compounds.



View Online

Published on 07 September 2010 on http://pubs.rsc.org | doi:10.1039/C0OB90037K
Downloaded on 28 September 2010

Organic & Biomolecular Chemistry

An international journal of synthetic, physical and biomolecular organic chemistry

www.rsc.org/obc

Organic & Biomolecular Chemistry brings together molecular design, synthesis, structure, function and reactivity in one journal. It publishes fundamental work on synthetic, physical and biomolecular organic chemistry as well as all organic aspects of: chemical biology, medicinal chemistry, natural product chemistry, supramolecular chemistry, macromolecular chemistry, theoretical chemistry, and catalysis.

EDITORIAL STAFF

Editor
Richard Kelly

Deputy editor
Lorena Tomás Laudo

Senior publishing editor
Helen Saxton

Publishing editors
Nicola Burton, Bailey Fallon, Scott Galliflent-Holmes, Frances Galvin, Jonathan Gammon, Ben Merison, Roxane Owen

Publishing assistants
Anna Anderson, Jackie Cockrill

Publisher
Emma Wilson

For queries about submitted papers, please contact Helen Saxton, Senior publishing editor in the first instance. E-mail: obc@rsc.org

For pre-submission queries please contact Richard Kelly, Editor. Email: obc-rsc@rsc.org

Organic & Biomolecular Chemistry (print: ISSN 1477-0520; electronic: ISSN 1477-0539) is published 24 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

2010 Annual (print+electronic) subscription price: £3105; US$5796. 2010 Annual (electronic) subscription price: £2794; US$5216 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 Organic & Biomolecular Chemistry (OBC) c/o Mercury Airfreight International Ltd., 365 Blair Road, Avenel, NJ 07001. All despatches outside the UK by Consolidated Airfreight.

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.

Advertisement sales: Tel +44 (0) 1223 432246;
Fax +44 (0) 1223 426017; E-mail advertising@rsc.org

For marketing opportunities relating to this journal, contact marketing@rsc.org

EDITORIAL BOARD

Chair
Professor Jay Siegel, Zürich, Switzerland

Professor Jeffrey Bode, Philadelphia, USA
Professor Margaret Brimble, Auckland, New Zealand
Professor Ben Davis, Oxford, UK
Dr Veronique Gouverneur, Oxford, UK

Professor Stefan Matile, Geneva, Switzerland
Professor Paolo Scrimin, Padova, Italy
Professor Brian Stoltz, Pasadena, USA
Professor Keisuke Suzuki, Tokyo, Japan

ADVISORY BOARD

Roger Alder, Bristol, UK
Helen Blackwell, Madison, USA
John S Carey, Tonbridge, UK
Barry Carpenter, Cardiff, UK
Michael Crimmins, Chapel Hill, USA
Antonio Echavarren, Tarragona, Spain
Jonathan Ellman, New Haven, USA
Kurt Faber, Graz, Austria
Ben Feringa, Groningen, The Netherlands
Nobutaki Fujii, Kyoto, Japan
Jan Kihlberg, Umea, Sweden

Philip Kocienski, Leeds, UK
Steven V Ley, Cambridge, UK
Stephen Loeb, Ontario, Canada
Ilan Marek, Haifa, Israel
Manuel Martín Lomas, San Sebastián, Spain
Keiji Maruoka, Kyoto, Japan
Heather Maynard, Los Angeles, USA
E W 'Bert' Meijer, Eindhoven, The Netherlands
Eiichi Nakamura, Tokyo, Japan

Ryoji Noyori, Nagoya, Japan
Mark Rizzacasa, Melbourne, Australia
Oliver Seitz, Berlin, Germany
Bruce Turnbull, Leeds, UK
Chris Welch, Rahway, USA
Peter Wipf, Pittsburg, USA
Henry N C Wong, Hong Kong, China
Sam Zard, Ecole Polytechnique, France
Zhang Li-He, Beijing, China

INFORMATION FOR AUTHORS

Full details on how to submit material for publication in Organic & Biomolecular Chemistry are given in the Instructions for Authors (available from http://www.rsc.org/authors). Submissions should be made *via* the journal's homepage: http://www.rsc.org/obc.

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.

This journal is © The Royal Society of Chemistry 2010. 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 Regulation 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 Publishers 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.

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

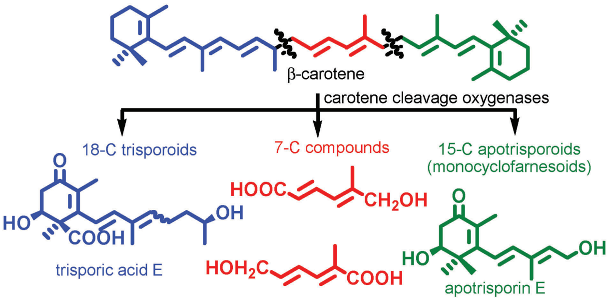
Royal Society of Chemistry: Registered Charity No. 207890.

4229

Splitting of β-carotene in the sexual interaction of *Phycomyces*

Silvia Polaino, M. Mar Herrador, Enrique Cerdá-Olmedo and Alejandro F. Barrero*

The new C7 natural products **1–2** are the result of enzymatic carotene degradation during the sexual interaction.

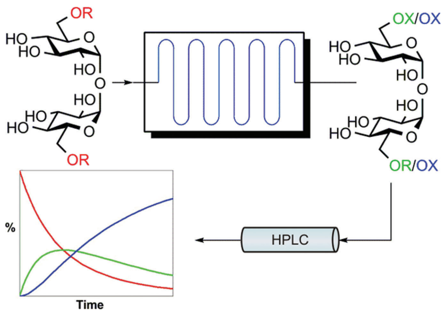


4232

Flow chemistry kinetic studies reveal reaction conditions for ready access to unsymmetrical trehalose analogues

Mitul K. Patel and Benjamin G. Davis*

Trehalose functionalization was studied in a microreactor, furnishing kinetic data that allowed the development of a synthetic route for large scale desymmetrizations.

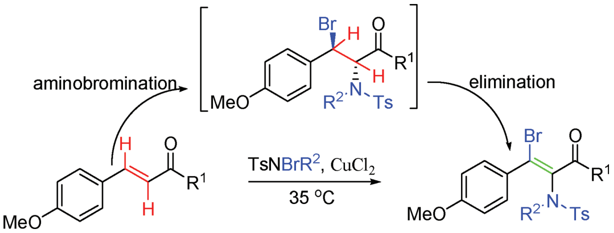


4236

Copper-catalyzed aminobromination/elimination process: an efficient access to α,β-unsaturated vicinal haloamino ketones and esters

Hao Sun, Guangqian Zhang, Sanjun Zhi, Jianlin Han,* Guigen Li and Yi Pan*

A novel copper-catalyzed aminobromination-elimination process has been developed, which provides an easy access to α,β-unsaturated vicinal haloamindes derivatives.

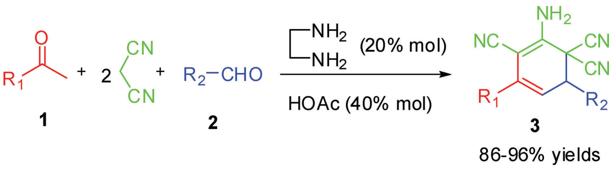


4240

Primary 1,2-diamine catalysis III: an unexpected domino reaction for the synthesis of multisubstituted cyclohexa-1,3-dienamines

Junfeng Wang, Qin Li, Chao Qi, Yi Liu, Zemei Ge* and Runtao Li*

Primary 1,2-diamine was employed in the first organocatalyzed multicomponent domino reactions of aryl ketones, aldehydes and malononitrile, affording multisubstituted cyclohexa-1,3-dienamines **3** in satisfactory results.



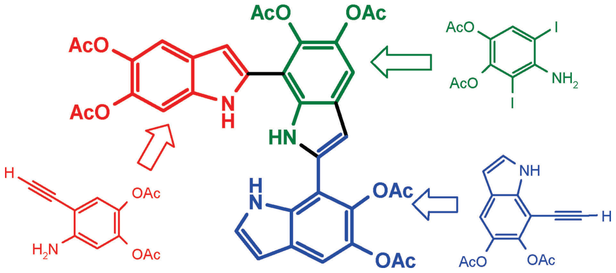

Chemical Science
RSC Publishing
011067

4243

First synthetic entry to the trimer stage of 5,6-dihydroxyindole polymerization: *ortho*-alkynylaniline-based access to the missing 2,7′:2′,7″-triindole

Luigia Capelli, Paola Manini,* Alessandro Pezzella and Marco d'Ischia

An *ortho*-alkynylaniline-based strategy allowed the first access to a 5,6-dihydroxyindole trimer, 5,5′,5″,6,6′,6″-hexaacetoxy-2,7′:2′,7″-triindole, *via* a sequence of Sonogashira coupling and metal cation catalyzed intramolecular cyclization.

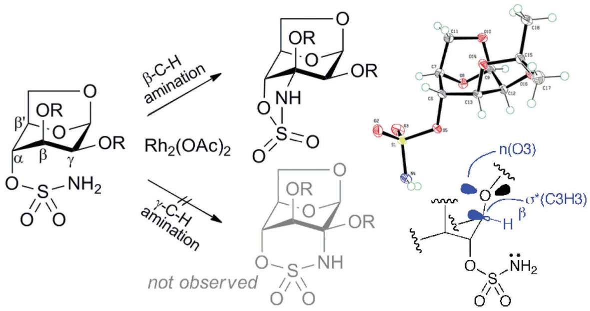


4246

Inverted regioselectivity of C–H amination: Unexpected oxidation at β- rather than γ-C–H

Filip J. Wyszynski, Amber L. Thompson and Benjamin G. Davis*

From derivatives of 1,6-anhydro-β-D-mannopyranose, five-membered sulfamidates were formed in preference to the typical six-membered oxathiazinane intramolecular insertion products.

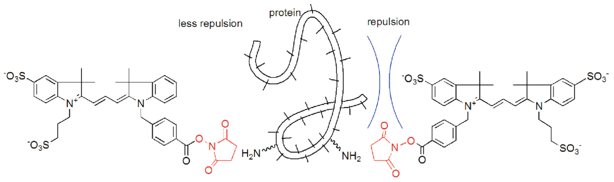


4249

Asymmetric trimethine 3*H*-indocyanine dyes: efficient synthesis and protein labeling

Fengling Song, Li Wang, Xiaoqiang Qiao, Bingshuai Wang, Shiguo Sun, Jiangli Fan, Lihua Zhang and Xiaojun Peng*

To achieve better protein labeling performance, sulfo groups should be away from the NHS ester end.

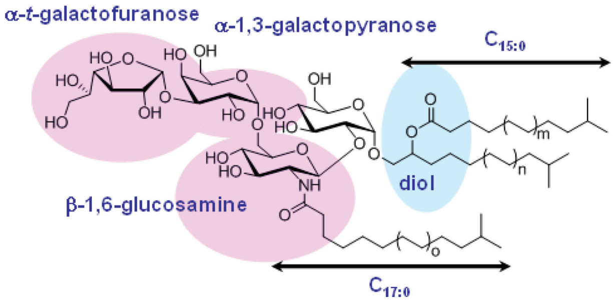


4252

Structural variation of glycolipids from *Meiothermus taiwanensis* ATCC BAA-400 under different growth temperatures

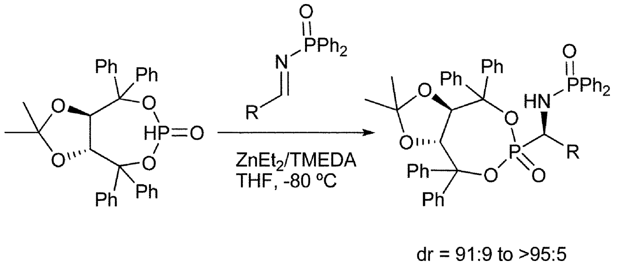
Yu-Liang Yang, Feng-Ling Yang, Zih-You Huang, Yu-Hsuan Tsai, Wei Zou and Shih-Hsiung Wu*

Structural variation of membrane glycolipids (including lipid and carbohydrate) under different growth temperature was revealed in thermophilic bacteria. The variation is assumed to stabilize membrane structure for survival in harsh environment.



COMMUNICATIONS

4255

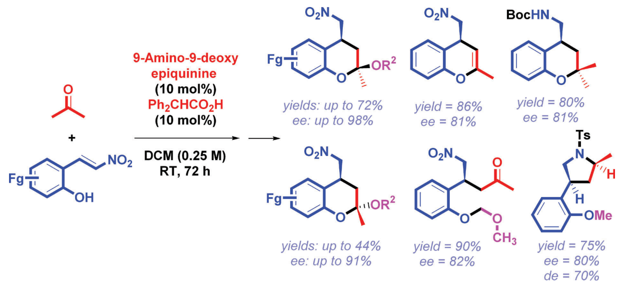


Diastereoselective hydrophosphonylation of imines using (*R*,*R*)-TADDOL phosphite. Asymmetric synthesis of α-aminophosphonic acid derivatives

Francisco Palacios,* Tomasz K. Olszewski and Javier Vicario

Efficient synthesis of α-aminophosphonic acids is achieved the key step being a diastereoselective hydrophosphonylation of *N*-diphenylphosphinyl imines using a chiral phosphonate derived from inexpensive natural tartaric acid.

4259



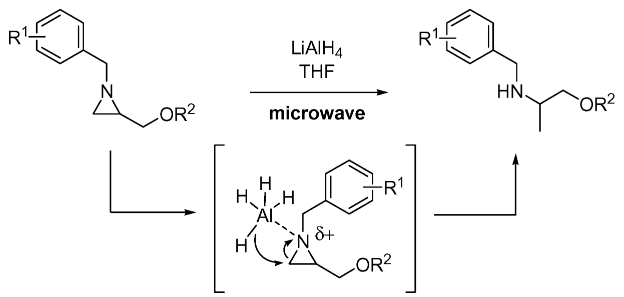
Sequential combination of Michael and acetalization reactions: direct catalytic asymmetric synthesis of functionalized 4-nitromethyl-chromans as drug intermediates

Dhevalapally B. Ramachary* and Rajasekar Sakthidevi

Functionalized chiral 4-nitromethyl-chromans as drug intermediates were achieved for the first time through sequential combination of Michael and acetalization reactions on 2-(2-nitro-vinyl)-phenols with acetone and alcohols under organocatalysis.

PAPERS

4266

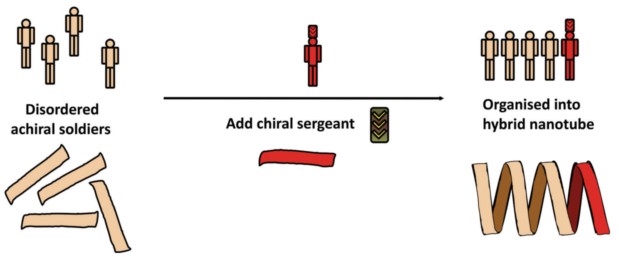


Microwave-assisted regioselective ring opening of non-activated aziridines by lithium aluminium hydride

Sonja Stanković, Matthias D'hooghe and Norbert De Kimpe*

A new protocol for the LiAlH$_4$-promoted regioselective ring opening of non-activated aziridines towards 2-aminopropanes under microwave irradiation was developed.

4274



The sergeants-and-soldiers effect: chiral amplification in naphthalenediimide nanotubes

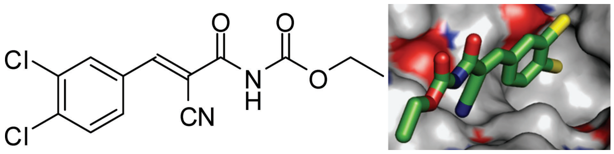
Tom W. Anderson, Jeremy K. M. Sanders and G. Dan Pantoş*

Self-assembling naphthalenediimide-based helical organic nanotubes display sergeants-and-soldiers behaviour, chiral monomers imposing a supramolecular structure upon achiral monomers. Nanotubes containing predominantly the most effective soldier are effective hosts for C$_{60}$.

4281

Structure–activity relationships of a small-molecule inhibitor of the PDZ domain of PICK1

Anders Bach, Nicolai Stuhr-Hansen, Thor S. Thorsen, Nicolai Bork, Irina S. Moreira, Karla Frydenvang, Shahrokh Padrah, S. Brøgger Christensen, Kenneth L. Madsen, Harel Weinstein, Ulrik Gether* and Kristian Strømgaard*

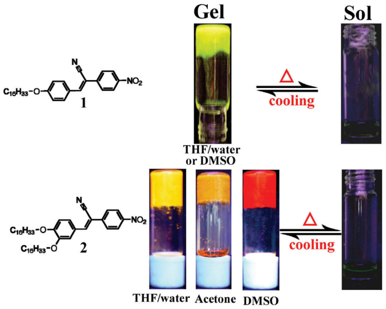


Structure–activity studies of the first small-molecule inhibitor of the PICK1 PDZ domain leading to improved affinity.

4289

Multicolor fluorescent switches in gel systems controlled by alkoxyl chain and solvent

Yue Xu, Pengchong Xue,* Defang Xu, Xiaofei Zhang, Xingliang Liu, Huipeng Zhou, Junhui Jia, Xinchun Yang, Fengyong Wang and Ran Lu*

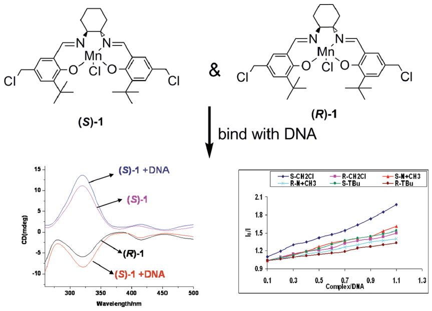


All gels of **1** and **2** in different solvents possess aggregation-induced emission (AIE) characteristics. Moreover, the gels of **1** formed in THF–water and DMSO show the same packing model and similar AIE properties. However, the self-assembly and fluorescent characteristics of molecule **2** strongly depend on the solvent.

4297

Influence of chirality using Mn(III) salen complexes on DNA binding and antioxidant activity

Noor-ul H. Khan,* Nirali Pandya, Manoj Kumar, Prasanta Kumar Bera, Rukhsana I. Kureshy, Sayed H. R. Abdi and Hari C. Bajaj

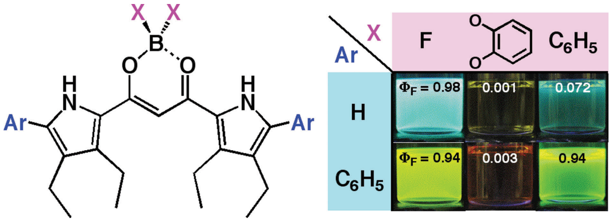


Interaction of the synthesized chiral Mn(III) salen complexes *viz*. ***S*-1**, ***R*-1**, ***S*-2**, ***R*-2**, ***S*-3** and ***R*-3** with Calf Thymus DNA was studied by various physico-chemical methods. Among all the complexes used the best result in terms of binding constants (130.4×10^4 M^{-1}) and strong antioxidant activity was achieved for **(*S*)-1**.

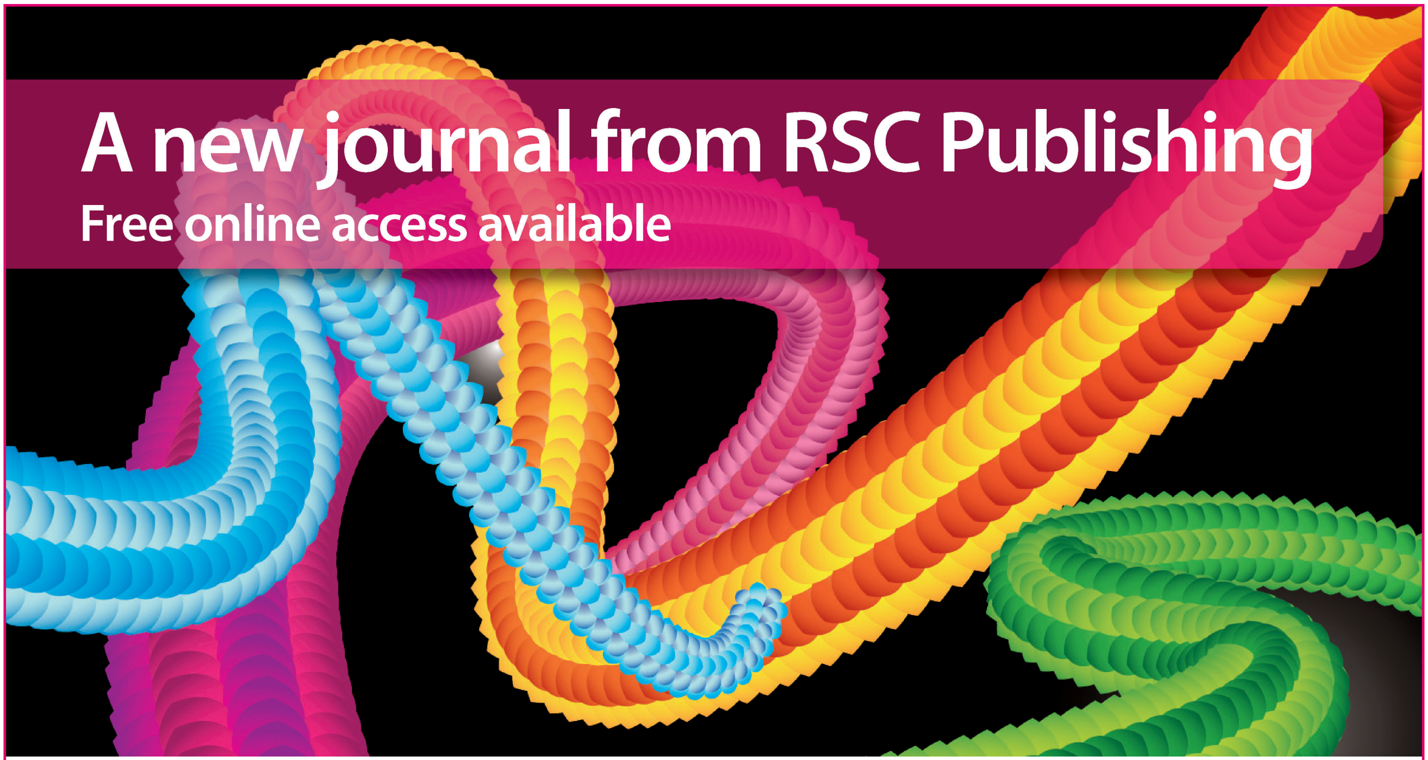
4308

Modification at a boron unit: tuning electronic and optical properties of π-conjugated acyclic anion receptors

Hiromitsu Maeda,* Mayumi Takayama, Kazuki Kobayashi and Hideyuki Shinmori



Substituents at the boron unit of dipyrrolyldiketone boron complexes as π-conjugated acyclic anion receptors play crucial roles for tuning of solid-state molecular assemblies, anion-binding behaviour and electronic and optical properties.




Polymer Chemistry
RSCPublishing

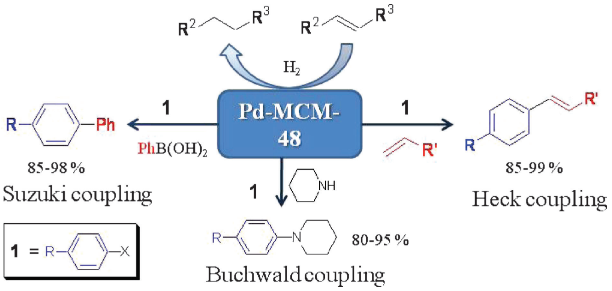
PAPERS

4316

Pd-MCM-48: a novel recyclable heterogeneous catalyst for chemo- and regioselective hydrogenation of olefins and coupling reactions

Subhash Banerjee,* Vagulejan Balasanthiran,
Ranjit T. Koodali* and Grigoriy A. Sereda*

A novel, heterogeneous Pd-MCM-48 catalyst has been developed by encapsulating palladium nanoparticles into the cubic phase of mesoporous MCM-48 matrix for chemo- and regioselective hydrogenation of olefins and coupling reactions under ligand-free and aerobic conditions.

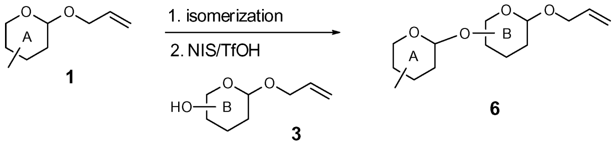


4322

Facile glycosylation strategy with two-stage activation of allyl glycosyl donors. Application to concise synthesis of *Shigella flexneri* serotype Y O-antigen

Yun Wang, Xin Zhang and Pengfei Wang*

A glycosylation method employing only allyl glycoside building blocks has been developed. The donor's glycosylation reactivity is turned on *via* isomerization of its anomeric allyl group into the corresponding prop-1-enyl moiety.

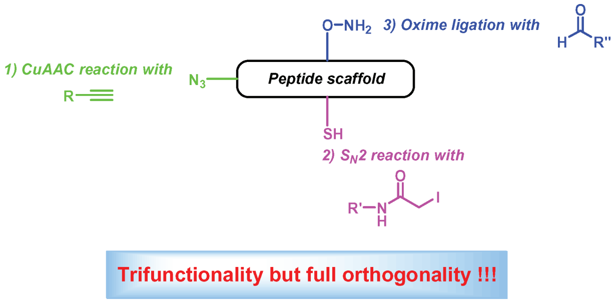


4329

A universal and ready-to-use heterotrifunctional cross-linking reagent for facile synthetic access to sophisticated bioconjugates

Guillaume Clavé, Hervé Volland, Mélanie Flaender, Didier Gasparutto, Anthony Romieu* and Pierre-Yves Renard*

For the first time, three different bioconjugable functions namely aminooxy, azido and thiol are associated within the same peptidyl architecture to get a new generation of cross-linking reagents which offer unprecedented possibilities for the construction of highly sophisticated bioconjugates.

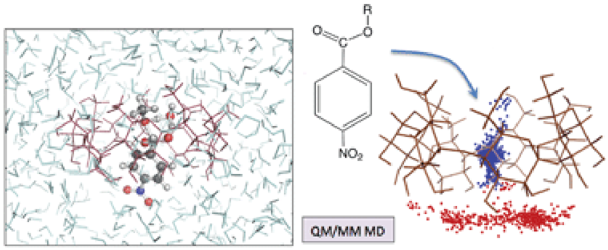


4346

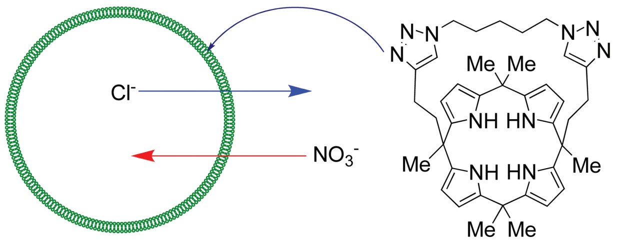
Computer simulation of reactions in β-cyclodextrin molecular reactors: transition state recognition

Violeta Yeguas, Ramón López, Alexandrine Lambert, Gérald Monard and Manuel F. Ruiz-López*

Combined quantum mechanics and molecular dynamics calculations highlight the role of transition state shape in the mechanism and kinetics of ester hydrolysis mediated by β-cyclodextrins.



4356

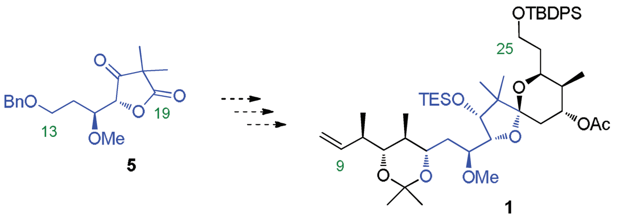


Calix[4]pyrrole-based anion transporters with tuneable transport properties

Masafumi Yano, Christine C. Tong, Mark E. Light, Franz P. Schmidtchen and Philip A. Gale*

Bilayer transport efficiency for transmembrane chloride transport was found to directly depend on the length of the alkyl chain present in the bis-triazole strap in a series of calix[4]pyrrole macrocycles.

4364

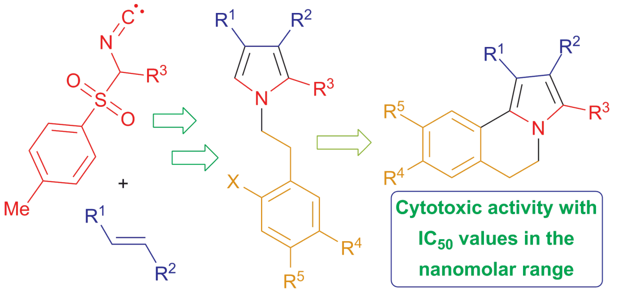


Towards the total synthesis of calyculin C: preparation of the C_9–C_{25} spiroketal-dipropionate unit

Damien Habrant and Ari M. P. Koskinen*

An asymmetric synthesis of the C_9–C_{25} spiroketal fragment of calyculin C is described. Key steps include two crotylation reactions, ynone formation by a Pd-catalyzed coupling of a thiol ester with a terminal alkyne and a double intramolecular hetero-Michael addition for the stereoselective construction of the spiroketal framework.

4374

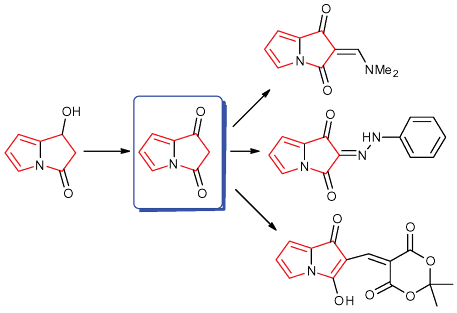


Synthesis of 5,6-dihydropyrrolo[2,1-*a*]isoquinolines featuring an intramolecular radical-oxidative cyclization of polysubstituted pyrroles, and evaluation of their cytotoxic activity

Paul E. Reyes-Gutiérrez, José R. Camacho, Ma. Teresa Ramírez-Apan, Yazmin M. Osornio and Roberto Martínez*

A three-step protocol for the synthesis of 5,6-dihydropyrrolo[2,1-*a*]isoquinolines is described. Structure–activity studies revealed the importance of the C-2 substituent for cytotoxicity.

4383



Pyrrolizine-1,3-dione

Hamish McNab,* James Montgomery, Simon Parsons and David G. Tredgett

Pyrrolizine-1,3-dione is a unique system whose carbonyl groups show unusual physical properties; the active methylene unit couples with electrophiles.

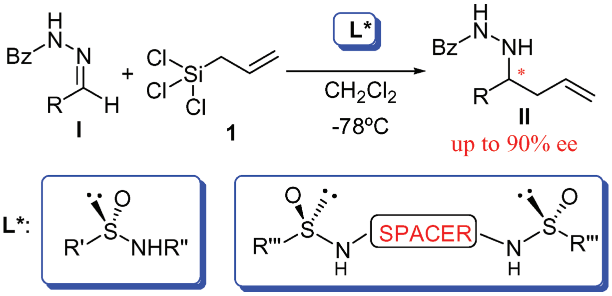
PAPERS

4388

Chiral sulfur derivatives in the allylation of acyl hydrazones: C_2-symmetric bis-sulfinamides as enhanced chiral organic promoters.

Inmaculada Fernández,* Ana Alcudia, Beatrice Gori, Victoria Valdivia, Rocío Recio, María Victoria García and Noureddine Khiar*

Monosulfinamides and C_2-symmetric bis-sulfinamides have been found to be convenient neutral chiral promoters in the allylation of acyl hydrazones, the nature of the spacer and the substituent at the sulfinyl sulfur are key elements for the enantioselectivity of the process.

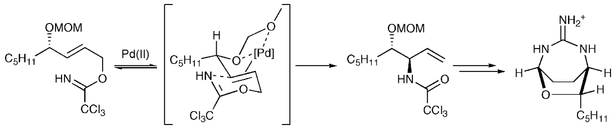


4394

Stereoselective synthesis of the bicyclic guanidine alkaloid (+)-monanchorin

Ahmed M. Zaed and Andrew Sutherland*

A new approach for the stereoselective synthesis of the bicyclic guanidine alkaloid (+)-monanchorin has been developed.

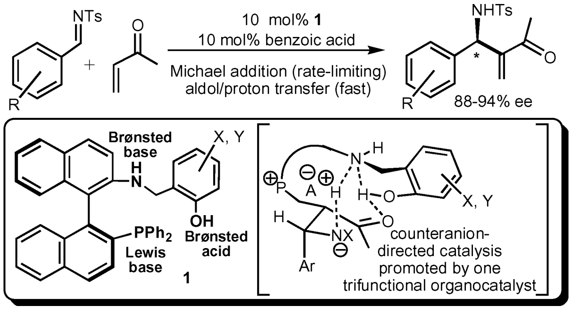


4400

Mechanistic investigations of multidentate organocatalyst-promoted counterion catalysis for fast and enantioselective aza-Morita–Baylis–Hillman reactions at ambient temperature

Christopher Anstiss, Jean-Marc Garnier and Fei Liu*

The first kinetic characterization of an enantioselective trifunctional organocatalyst-promoted counterion catalysis of asymmetric aza-Morita–Baylis–Hillman reactions.

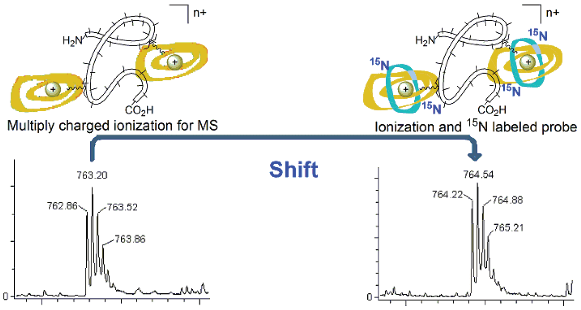


4408

^{15}N-Labeled ionic probes for bioanalytical mass spectrometry

Fumihiro Ito,* Shin Ando, Masato Iuchi, Tomoko Nakamura, Satoko Yorita and Kentaro Yamaguchi*

An ionization method that uses La-complex-based ^{15}N-labeled ionization probes containing the ^{15}N-labeled pybox, NHS-TMpybox, Mal-TMpybox and BrAc-TMpybox, was provided for isotope ratio mass spectrometry. This method was proven to effectively ionize isotope-labeled molecules.



View Online

Downloaded on 28 September 2010
Published on 07 September 2010 on http://pubs.rsc.org | doi:10.1039/C0OB90037K

Connect to the RSC

Information, advice, support and benefits for members

Keep up to date with the chemical sciences

Chemistry world - award-winning chemical science magazine

RSC Virtual Library - free e-content and Chemistry Search Service

RSC Books and Journals - high-quality books, journals and periodicals

Receive *One to One* advice and support

Careers advice tailored to you - free and confidential advice and guidance

Professional Development - CPD, training and Chartered Chemist

Get involved with the scientific community

MyRSC - Professional online network for the chemical sciences, hosted by the RSC

Interest Groups - focusing on specific areas of the chemical sciences

RSC Networks - establish useful contacts and participate in a range of events

Conferences and training courses - covering a wide range of subjects

Take advantage of a wide range of member benefits

RSC News - the latest information about the RSC and its members

Funding and awards - conference bursaries, travel grants, awards and prizes

Huge discounts - including entertainment, travel, insurance, and accommodation

If you are not a member of the RSC it is easy to join

- Download an application form or join online at: **www.rsc.org/join**
- Call our Membership team on: **+44 (0) 1223 432141**

RSC | Advancing the Chemical Sciences

www.rsc.org/members

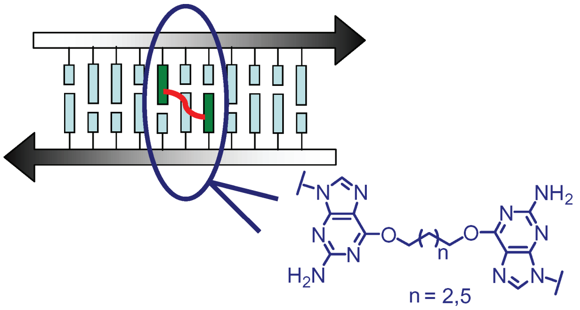
Registered Charity Number 207890

4414

Synthesis and characterization of an O^6-2′-deoxyguanosine-alkyl-O^6-2′-deoxyguanosine interstrand cross-link in a 5′-GNC motif and repair by human O^6-alkylguanine-DNA alkyltransferase

Francis P. McManus, Qingming Fang, Jason D. M. Booth, Anne M. Noronha, Anthony E. Pegg and Christopher J. Wilds*

O^6-2′-Deoxyguanosine-alkyl-O^6-2′-deoxyguanosine interstrand DNA cross-links in a 5′-GNC- motif were synthesized and found to undergo repair by human O6-alkylguanine-DNA alkyltransferase.

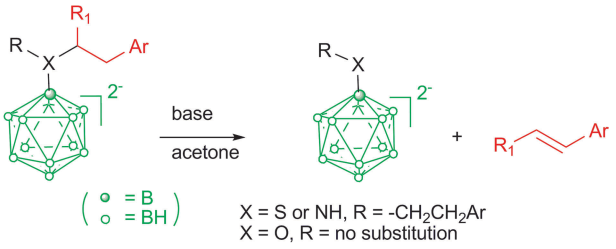


4427

Undecahydro-*closo*-dodecaborates as good leaving groups in organic synthesis: generation of substituted styrenes *via* elimination of arylethyl dodecaborates

Afaf R. Genady and Hiroyuki Nakamura*

Functionalized arylethyl *closo*-dodecaborates are prepared by a simple one-step reaction. The functionalized styrene derivatives can be synthesized by treating arylethyl *closo*-dodecaborates with various bases.

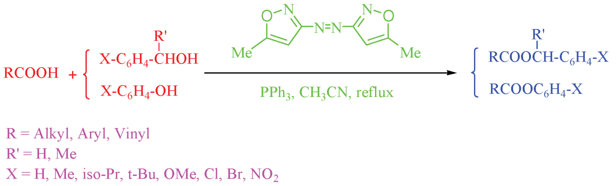


4436

5,5′-Dimethyl-3,3′-azoisoxazole as a new heterogeneous azo reagent for esterification of phenols and selective esterification of benzylic alcohols under Mitsunobu conditions

Nasser Iranpoor,* Habib Firouzabdi* and Dariush Khalili

5,5′-Dimethyl-3,3′-azoisoxazole is introduced as an efficient heterogeneous azo reagent for esterification of phenols and selective esterification of benzylic alcohols.

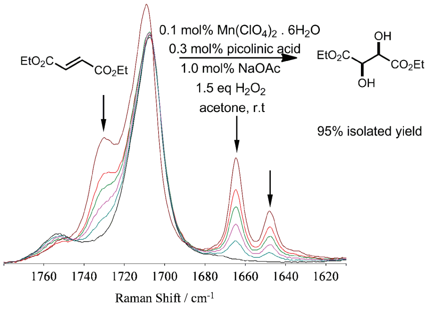


4444

Manganese catalyzed *cis*-dihydroxylation of electron deficient alkenes with H_2O_2

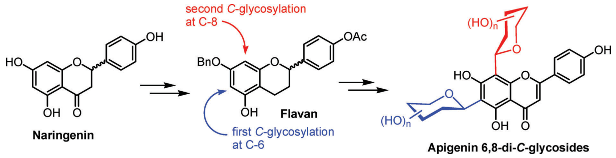
Pattama Saisaha, Dirk Pijper, Ruben P. van Summeren, Rob Hoen, Christian Smit, Johannes W. de Boer, Ronald Hage, Paul L. Alsters, Ben L. Feringa and Wesley R. Browne*

A high turnover method for the multigram scale selective *cis*-dihydroxylation of electron deficient alkenes using pyridine-2-carboxylic acid/Mn/H_2O_2 is described.



PAPERS

4451

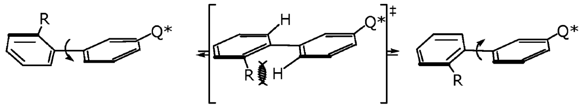


Regioselective synthesis of di-*C*-glycosylflavones possessing anti-inflammation activities

Jiun-Jie Shie, Chih-An Chen, Chih-Chien Lin, Angela Fay Ku, Ting-Jen R. Cheng, Jim-Min Fang* and Chi-Huey Wong*

A series of 6,8-di-*C*-glycosylflavones bearing identical or distinct glycosyl moieties are synthesized and shown to exhibit anti-inflammation activity.

4463



[$Q^* = CH(CH_3)_2$, $Si(CH_3)_2CH(CH_3)_2$, $C(CF_3)_2OH$ *etc*]

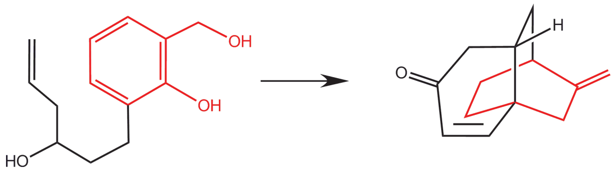
[$R = C_6H_5$, $CH{=}CH_2$, CCH, CN, CH_2OH, $CH{=}O$, COOH, $COOCH_3$, C_6F_5, $C(CF_3)_2OH$, CF_3, OCF_3]

The biphenyl-monitored effective size of unsaturated functional or fluorinated *ortho* substituents

Renzo Ruzziconi,* Sara Spizzichino, Andrea Mazzanti,* Lodovico Lunazzi and Manfred Schlosser*

The effective size (*B* value) of a number of substituents has been probed by dynamic NMR measurements of the barriers to aryl–aryl rotation of the corresponding mono-*ortho* substituted biphenyls.

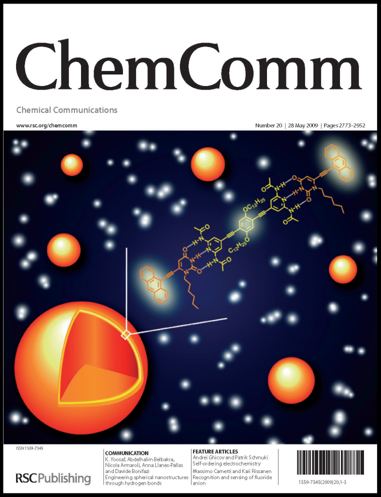
4472



Intramolecular cycloaddition in 6,6-spiroepoxycyclohexa-2,4-dienone: simple aromatics to (±)-Platencin

Vishwakarma Singh,* Bharat Chandra Sahu, Varsha Bansal and Shaikh M. Mobin

A formal synthesis of (±)-platencin from a simple aromatic precursor is reported. Oxidative dearomatization and intramolecular Diels–Alder reaction are the key features of the methodology.


ChemComm
Chemical Communications
RSC Publishing

AUTHOR INDEX

FREE E-MAIL ALERTS AND RSS FEEDS

Contents lists in advance of publication are available on the web *via* www.rsc.org/obc – 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 the 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).