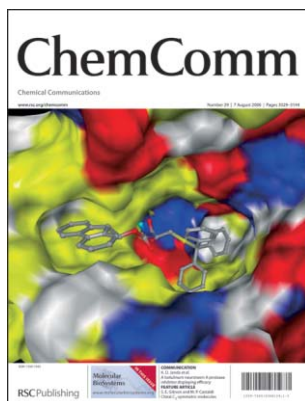


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Cover

See Kim D. Janda *et al.*,
page 3063.

A perfect fit!! For the first time, a small molecule, non-peptidic, inhibitor of botulinum neurotoxin A protease displays neurotoxicity protection in a cellular model. The identification and characterization of this novel class of inhibitors is detailed. Image reproduced by permission of Grant E. Boldt, Lisa M. Eubanks and Kim D. Janda from *Chem. Commun.*, 2006, 3063.

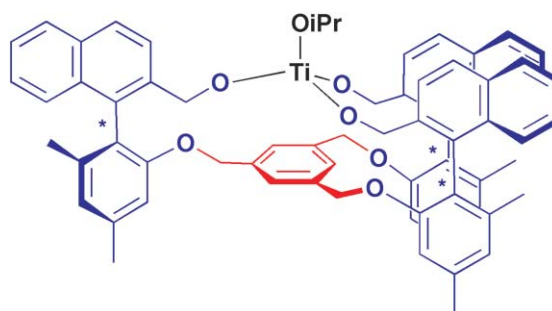
FEATURE ARTICLE

3045

Applications of chiral C_3 -symmetric molecules

Susan E. Gibson* and M. Paola Castaldi

The undeniable beauty of C_3 -symmetrical molecules has yet to be exploited in a major area of chemical endeavour. This review, which surveys the application of chiral C_3 -symmetrical molecules in the areas of asymmetric catalysis, molecular recognition and nanostructures, aims to identify some of the most promising areas of application of these aesthetically appealing molecules.



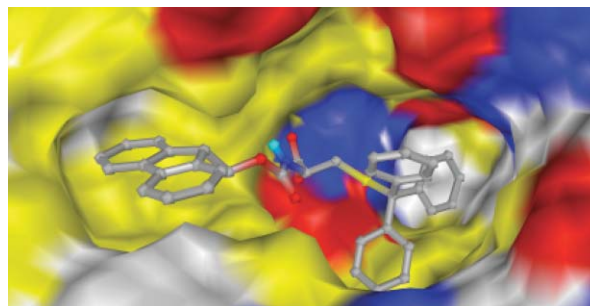
COMMUNICATIONS

3063

Identification of a botulinum neurotoxin A protease inhibitor displaying efficacy in a cellular model

Grant E. Boldt, Lisa M. Eubanks and Kim D. Janda*

For the first time, a small-molecule, non-peptidic, inhibitor of botulinum neurotoxin A protease displays efficacy in a cellular model. The identification and characterization of this novel class of inhibitors are detailed.



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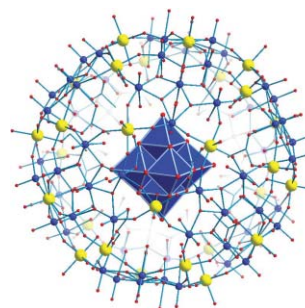
3066

Formation of a “less stable” polyanion directed and protected by electrophilic internal surface functionalities of a capsule in growth:



Achim Müller,* Ana Maria Todea, Hartmut Bögge, Joris van Slageren, Martin Dressel, Anja Stammler and Mariana Rusu

A deliberately constructed molybdenum oxide based capsule shows concomitant with its growth the formation and final encapsulation of a hexamolybdate.

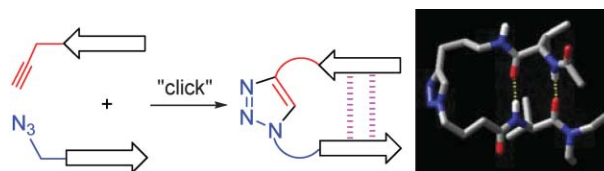


3069

A convergent synthesis of new β -turn mimics by click chemistry

Keunchan Oh and Zhibin Guan*

A highly convergent strategy for constructing a new β -turn mimic is reported. Cycloaddition between peptide strands derivatized with azide and alkyne, respectively, provides an efficient synthesis of triazole ring-based β -turn mimics.



3072

Linear oligomers composed of a photochromically contractible and extendable Janus [2]rotaxane

Susumu Tsuda, Yoshio Aso and Takahiro Kaneda*

We report the first example of oligomeric molecular muscles, *N,N'*-*p*-xylylene-linked oligo-Janus [2]rotaxanes based on a permethylated α -cyclodextrin–azobenzene hermaphrodite and their contractible and extendable nature coupled with photochromism.

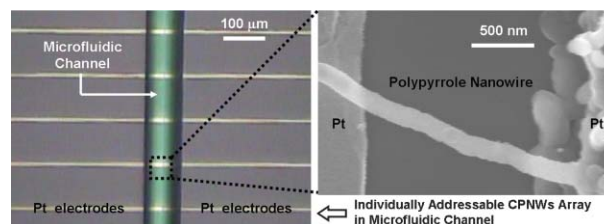


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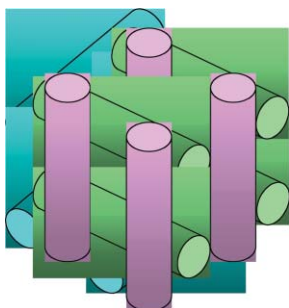
Electrochemical fabrication of conducting polymer nanowires in an integrated microfluidic system

Jun Wang, Yuri L. Bunimovich, Guodong Sui, Stavros Savvas, Jinyi Wang, Yaoyao Guo, James R. Heath* and Hsian-Rong Tseng*

A new approach for the *in situ* electrochemical fabrication of an individually addressable array of conducting polymer nanowires positioned within an integrated microfluidic device is introduced. The resulting integrated device can be used as a chemical sensor immediately after its construction.



3078

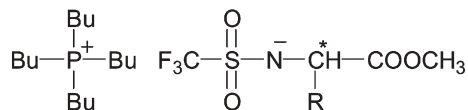


Orthogonal packing of enantiomerically pure helical silver coordination networks

Abdelaziz Jouaiti, Mir Wais Hosseini,*
Nathalie Kyritsakas, Philippe Grosshans and
Jean-Marc Planeix

The combination of an enantiopure tecton derived from the (*R*)-1,1'-binaphthyl backbone bearing two pyridine groups with a silver cation leads to the first example of enantiomerically pure helical strands with orthogonal packing in the rare space group $I2_13$.

3081

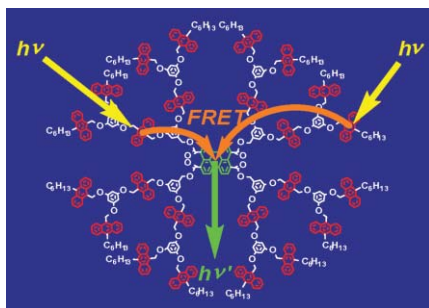


Design and synthesis of hydrophobic and chiral anions from amino acids as precursor for functional ionic liquids

Kenta Fukumoto and Hiroyuki Ohno*

Hydrophobic ionic liquids composed of tetrabutylphosphonium cation and chiral anions derived from amino acids modified with trifluoromethanesulfonyl groups were synthesized with a simple method.

3084

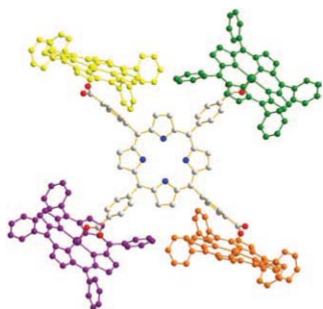


Evaluation of energy transfer in perylene-cored anthracene dendrimers

Masaki Takahashi,* Hironao Morimoto, Kentaro Miyake,
Mitsuji Yamashita, Hideki Kawai, Yoshihisa Sei and
Kentaro Yamaguchi

Quantitative evaluation of Förster-type fluorescence resonance energy transfer (FRET) was undertaken by statistical investigations on perylene-cored anthracene dendrimers.

3087



Aluminium(III) porphyrins as supramolecular building blocks

Gregory J. E. Davidson, Lok H. Tong, Paul R. Raithby
and Jeremy K. M. Sanders*

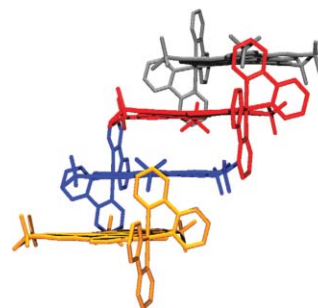
The ability of aluminium(III) porphyrins to coordinate strongly to one carboxylate ion and one nitrogenous ligand is exploited to generate new multiporphyrin arrays.

3090

Intermolecular interactions of extended aromatic ligands: the synchrotron molecular structures of $[\text{Ru}(\text{bpy})_2(\text{N-HSB})].2\text{PF}_6$ and $[\text{Ru}(\text{bpy})_2(\text{N-}\frac{1}{2}\text{HSB})].2\text{PF}_6$

Daniel J. Gregg, Christopher M. Fitchett and Sylvia M. Draper*

The planar N-HSB polyaromatic ligand in $[\text{Ru}(\text{bpy})_2(\text{N-HSB})].2\text{PF}_6$ provides a platform for self-assembly into an off-set stack, whereas the distorted N- $\frac{1}{2}$ HSB in $[\text{Ru}(\text{bpy})_2(\text{N-}\frac{1}{2}\text{HSB})].2\text{PF}_6$ results in a saddle-like structure which cradles a PF_6^- anion.

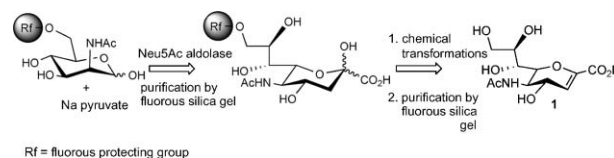


3093

Preparation of a fluorous protecting group and its application to the chemoenzymatic synthesis of sialidase inhibitor

Kiyoshi Ikeda,* Hitomi Mori and Masayuki Sato*

Neu5Ac aldolase-catalyzed chemoenzymatic transformation of *N*-acetyl-D-mannosamine to Neu5Ac derivatives was achieved successfully by using the fluorous reagent not only for hydroxy group protection but also for fluorous tagging. This chemoenzymatic method was applied to the synthesis of 2-deoxy-2,3-didehydrosialic acid **1** known as a potent sialidase inhibitor.



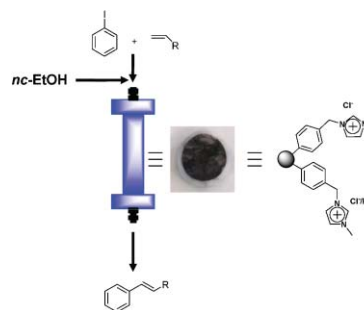
Rf = fluorous protecting group

3095

Pd(0) supported onto monolithic polymers containing IL-like moieties. Continuous flow catalysis for the Heck reaction in near-critical EtOH

Naima Karbass, Victor Sans, Eduardo Garcia-Verdugo,* M. Isabel Burguete and Santiago V. Luis*

Long-term stable Pd(0) catalysts can be easily supported onto polymeric monoliths containing methyl-imidazole moieties and the corresponding reactors based on these materials can be used for the continuous Heck reaction in near-critical EtOH.

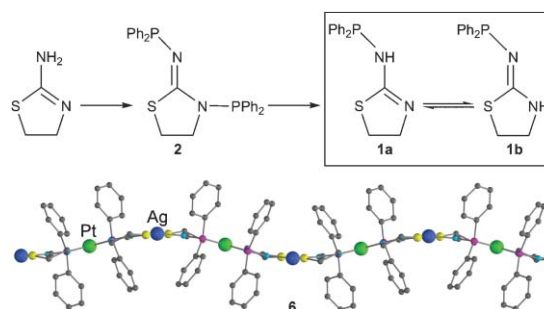


3098

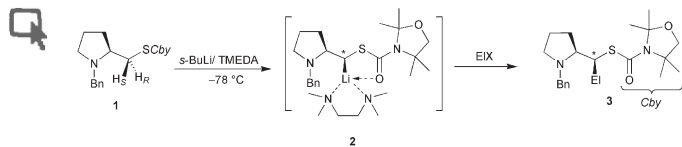
Intra- and inter-molecular phosphoryl migration in phosphinothiazolines; precursors to polynuclear complexes and bimetallic coordination polymers

Günter Margraf, Roberto Pattacini, Abdelatif Messaoudi and Pierre Braunstein*

Phosphinoaminothiazolines **1a,b** and **2** were prepared and structurally characterized; their formation mechanism, elucidated by DFT calculations, features intra- and inter-molecular Ph_2P transfers. **1** was used for the formation of the Ag–Pt wave-like coordination polymer $[\text{Ag}_\infty[\text{Pt}(\text{1-H})_2]_\infty](\text{OTf})_\infty$ (**6**).



3101

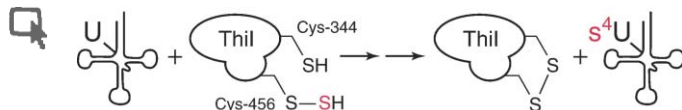


Highly diastereoselective formation and reactions of a non-mesomerically stabilized, lithiated α -thiocarbonyl

Ravindra P. Sonawane, Roland Fröhlich and Dieter Hoppe*

Stereoselective generation of a new class of unbranched, non-mesomerically stabilized α -thiocarbonyl and its substitution with various electrophiles is described. The stereochemical course of the substitution was elucidated by NMR studies and X-ray crystal structure analysis.

3104

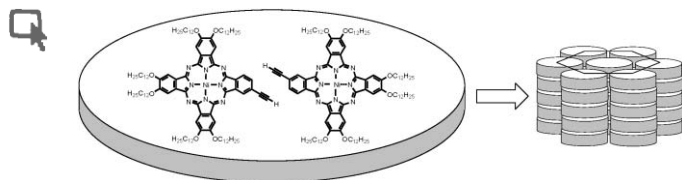


Direct evidence for enzyme persulfide and disulfide intermediates during 4-thiouridine biosynthesis

Chapman M. Wright, Glenn D. Christman, Ann M. Snellinger, Murray V. Johnston and Eugene G. Mueller*

Key intermediates in sulfur transfer have been definitively established in thionucleoside biosynthesis and are likely to be found in other sulfur transfer pathways that utilize sulfur mobilized by cysteine desulfurases.

3107

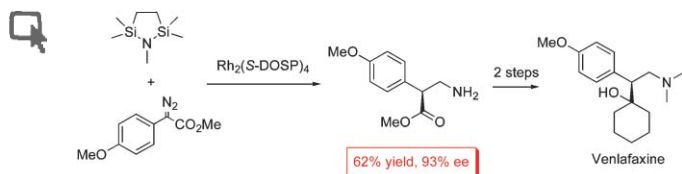


Unusual mesomorphic behaviour of an ethynyl-substituted phthalocyanine

Eva M. García-Frutos, Giovanni Bottari, Purificación Vázquez,* Joaquín Barberá* and Tomás Torres*

An ethynyl-substituted nickel(II) phthalocyanine has been synthesised and its thermotropic properties studied, revealing an unusual mesomorphic behaviour observed for the first time in phthalocyanine systems where each disk of the hexagonal columnar mesophase is formed by two ethynyl-substituted phthalocyanine units.

3110



Enantioselective synthesis of β -amino esters and its application to the synthesis of the enantiomers of the antidepressant Venlafaxine

Huw M. L. Davies* and Aiwu Ni

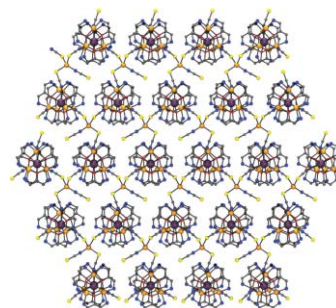
β -Amino esters are readily formed from the rhodium(II) proline-catalyzed intermolecular C–H insertion between methyl aryl diazoacetates and a bis-silyl protected methylamine. This chemistry was applied to a direct synthesis of Venlafaxine.

3113

A new 2D network built from potassium sandwiches $\{K[Cu^{II}_3(bdap)_3]_2\}$ and $\{(\mu_{1,3}\text{-SCN})_3Cu^I(NCS)\}$ anions: structure and magnetic behaviour

M. Salah El Fallah,* Fatima Badyine, Ramon Vicente, Albert Escuer, Xavier Solans and Mercè Font-Bardia

The synthesis of inorganic materials by using the dinuclear block $[Cu_2(bdap)]^{3+}$ and alkali metal ions seems to be a good strategy to obtain new compounds with interesting molecular architectures and magnetic properties.

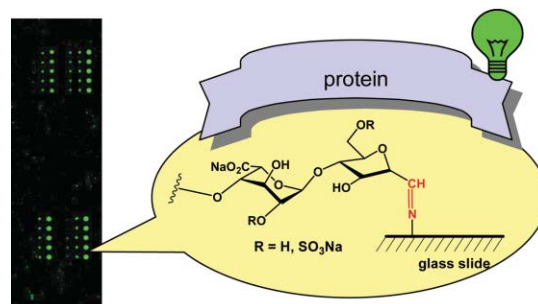


3116

Microarrays of heparin oligosaccharides obtained by nitrous acid depolymerization of isolated heparin

Jose L. de Paz, Dorothe Spillmann and Peter H. Seeberger*

Heparin oligosaccharides derived by nitrous acid depolymerization of heparin have been immobilized on amine-coated glass slides. The formation of a Schiff base creates heparin chips that are a suitable platform for the high-throughput analysis of carbohydrate-protein interactions.

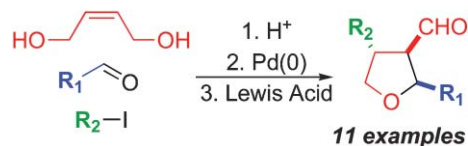


3119

A modular approach to the synthesis of 2,3,4-trisubstituted tetrahydrofurans

Christopher G. Nasveschuk, Nathan T. Jui and Tomislav Rovis

Three components are brought together in three steps to create three contiguous stereocenters about a THF core. The sequence is highlighted by a generally applicable and versatile Lewis acid mediated [1,3]-rearrangement of a vinyl acetal.

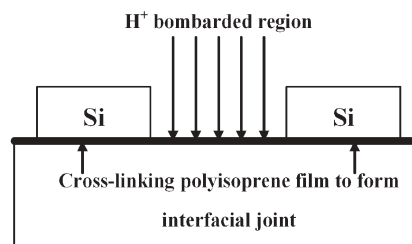


3122

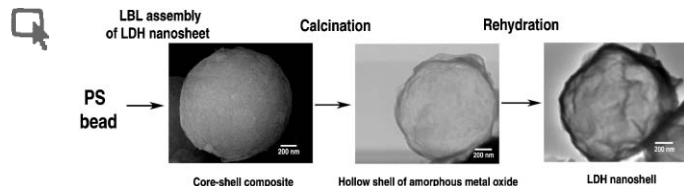
A new cross-linking route via the unusual collision kinematics of hyperthermal protons in unsaturated hydrocarbons: the case of poly(*trans*-isoprene)

Zhi Zheng, Wai Man Kwok and Woon Ming Lau*

The kinematics of 10 eV protons in unsaturated hydrocarbons like polyisoprene is harnessed to initiate cross-linked polymer formation with tailor-made chemistry even inside an interfacial enclosure or a micro/nano tube.



3125

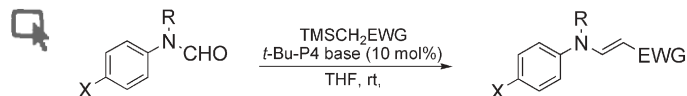


Hollow nanoshell of layered double hydroxide

Liang Li, Renzhi Ma, Nobuo Iyi, Yasuo Ebina, Kazunori Takada and Takayoshi Sasaki*

Hollow nanoshells of layered double hydroxide (LDH) have been fabricated using exfoliated LDH nanosheets as a shell building block and polystyrene beads as a sacrificial template.

3128

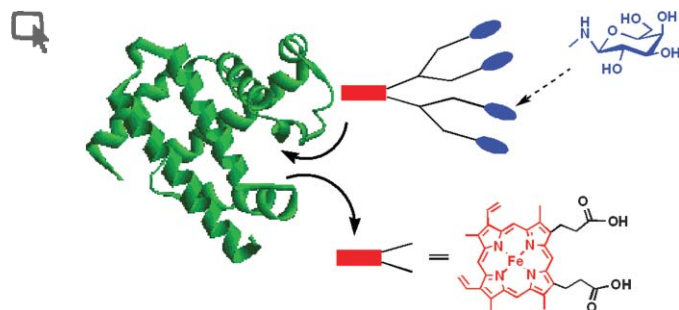


Phosphazene base-catalyzed condensation of trimethylsilylacetate with carbonyl compounds

Koji Kobayashi, Masahiro Ueno and Yoshinori Kondo*

The *t*-Bu-P4 base was found to be an excellent catalyst for the condensation of functionalized trimethylsilylalkanes with carbonyl compounds to form β -enaminoesters.

3131

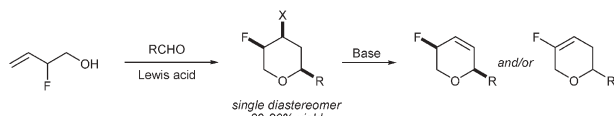


Construction of glycosylated myoglobin by reconstitutorial method

Takashi Matsuo, Hirokazu Nagai, Yoshio Hisaeda and Takashi Hayashi*

Artificial myoglobin with galactosyl interfaces was prepared by the reconstitutorial method, in which the galactose units are attached at the terminal of the heme-propionate side chains through a flexible linker.

3134



Monofluorinated di- and tetrahydropyrans *via* Prins-type cyclisations

Adrian P. Dobbs,* Levan Pivnevi, Mark J. Penny, Sasa Martinović, James N. Iley and Peter T. Stephenson

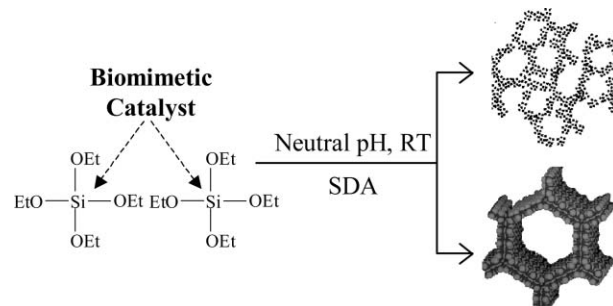
The synthesis of a range of monofluorinated heterocycles is described *via* a Lewis acid-mediated Prins-type cyclisation and postulated to proceed *via* an α -F carbocation.

3137

Synthesis of micro- and mesoporous molecular sieves at room temperature and neutral pH catalyzed by functional analogues of silicatein

Avelino Corma,* María J. Díaz-Cabañas, Manuel Moliner and Guillermo Rodríguez

By using functional mimics of the protein silicatein α together with organic structure directing agents, it was possible to produce different mesoporous and microporous molecular sieves at room temperature and neutral pH.



ADDITION AND CORRECTION

3140

Thermodynamic and kinetic factors in the hydrothermal synthesis of hybrid frameworks: zinc 4-cyclohexene-1,2-dicarboxylates

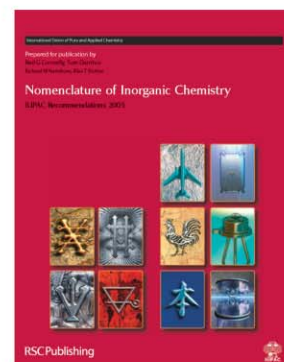
Clare Lee, Caroline Mellot-Draznieks, Ben Slater, G. Wu, William T. A. Harrison, C. N. R. Rao and Anthony K. Cheetham

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