**Cover**

See James R. Matthews, Francesca Goldoni, Albertus P. H. J. Schenning and E. W. Meijer, page 5503. The cover image depicts a non-aggregated folded structure of polythiophene in water. The authors would like to acknowledge Koen Pieterse for this excellent illustration. Image reproduced by permission of James R. Matthews, Francesca Goldoni, Albertus P. H. J. Schenning and E. W. Meijer from *Chem. Commun.*, 2005, 5503.

**Inside cover**

See Masayuki Takeuchi, Satoshi Tanaka and Seiji Shinkai, page 5539. Achiral porphyrin derivatives form twisted supramolecular assemblies and the pitch is controllable by changing the central metal. Image reproduced by permission Masayuki Takeuchi, Satoshi Tanaka and Seiji Shinkai, from *Chem. Commun.*, 2005, 5539.

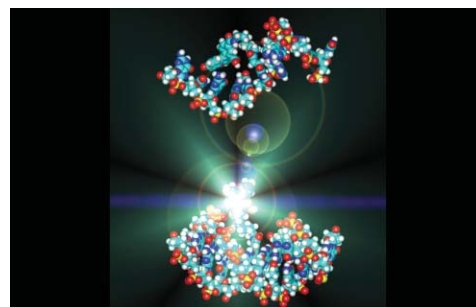
FEATURE ARTICLE

5487

Fluorescence based strategies for genetic analysis

Rohan T. Ranasinghe and Tom Brown*

Available fluorescent methods for the analysis of DNA sequences in the diagnostic laboratory are reviewed. The chemistry and biophysical principles underlying their function are highlighted.



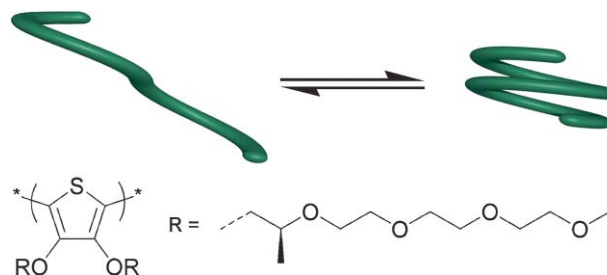
COMMUNICATIONS

5503

Non-ionic polythiophenes: a non-aggregating folded structure in water

James R. Matthews, Francesca Goldoni, Albertus P. H. J. Schenning* and E. W. Meijer*

The non-aggregating nature of a water-soluble π -conjugated polythiophene has been characterised by concentration independent thermal denaturing.



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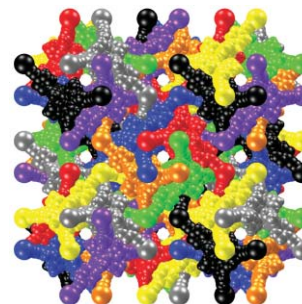
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5506

A chiral, heterometallic metal-organic framework derived from a tris(chelate) coordination complex

Drew L. Murphy, Mitchell R. Malachowski, Charles F. Campana and Seth M. Cohen*

A tris(dipyrrinato) metallogligand forms a chiral, heterometallic metal-organic framework (MOF). The eight-fold interpenetrated structure is robust to solvent removal and shows efficient uptake of nitroaromatic compounds.



5509

Anion-directed self-organization of thermotropic liquid crystalline materials containing a guanidinium moiety

Dongwoo Kim, Sangyong Jon, Hyung-Kun Lee, Kangkyun Baek, Nam-Keun Oh, Wang-Cheol Zin and Kimoon Kim*

New wedge-shaped thermotropic liquid crystalline materials containing a guanidinium moiety at the apex organize into various supramolecular structures such as hexagonal columnar, rectangular columnar and *Pm3n* cubic mesophases depending on anions illustrating guest-directed self-organization in mesophases.

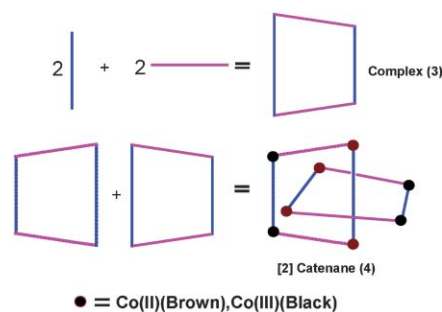


5512

An octanuclear [Co(II)₂-Co(III)₂]₂ interlocked grid—example of an inorganic [2]catenane

Tareque S. M. Abedin, Laurence K. Thompson* and David O. Miller

An oxalic dihydrazide based flexible polydentate amidrazone ligand undergoes spontaneous [2 × 2] grid assembly, followed by partial disassembly, and then reassembly in the presence of Co(NO₃)₂·6H₂O and NH₄(NCS) to form a unique octanuclear [Co(II)₂-Co(III)₂]₂ interlocked single braided 4 + 4 [2]catenane.

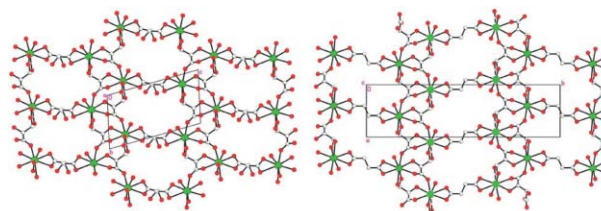


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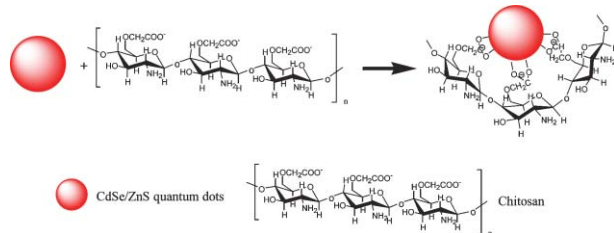
Microporous chiral metal coordination polymers: hydrothermal synthesis, channel engineering and stability of lanthanide tartrates

Samadara Thushari, John A. K. Cha, Herman H.-Y. Sung, Stephen S.-Y. Chui, Andy L.-F. Leung, Yu-Fong Yen and Ian D. Williams*

L-Tartrate ions endure hydrothermal conditions up to 160 °C forming robust, enantiopure polymers [Ln₂(L-TAR)₃(H₂O)₂]₃H₂O, **1** left; adding succinate affords related [Ln₂(L-TAR)₂(SUC)(H₂O)₂]₅·5.5H₂O, **2** right, with larger channels.



5518

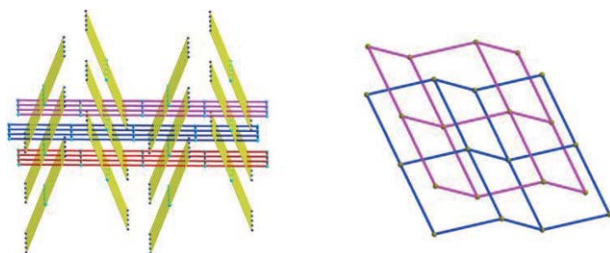


CdSe/ZnS-labeled carboxymethyl chitosan as a bioprobe for live cell imaging

Min Xie, Hui-Hui Liu, Ping Chen, Zhi-Ling Zhang, Xiao-Hui Wang, Zhi-Xiong Xie, Yu-Min Du, Bo-Qun Pan and Dai-Wen Pang*

Core/shell CdSe/ZnS quantum dots can be simply and faceily coupled to polysaccharides to produce CdSe/ZnS-labeled carboxymethyl chitosan as a bioprobe by mechanical grinding, which is highly biocompatible and photostable, and has been proven to be suitable for live cell imaging.

5521

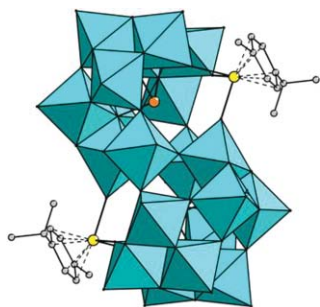


Direction of unusual mixed-ligand metal–organic frameworks: a new type of 3-D polythreading involving 1-D and 2-D structural motifs and a 2-fold interpenetrating porous network

Miao Du,* Xiu-Juan Jiang and Xiao-Jun Zhao

New coordination polymers with both interesting topological features and porous properties are presented.

5524

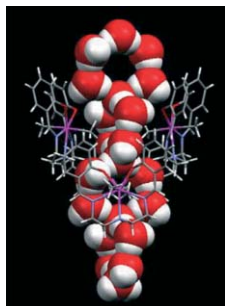


A new organometallic heteropolytungstate related to $[\text{Sb}_2\text{W}_{22}\text{O}_{74}(\text{OH})_2]^{12-}$: synthesis and structural characterisation of the bis- $\{\text{Ru}(p\text{-cymene})\}^{2+}$ -containing anion $[\text{Sb}_2\text{W}_{20}\text{O}_{70}\{\text{Ru}(p\text{-cymene})\}_2]^{10-}$

Danielle Laurencin, Richard Villanneau, Patrick Herson, René Thouvenot, Yves Jeannin and Anna Prout*

The easy synthesis of $[\text{Sb}_2\text{W}_{20}\text{O}_{70}\{\text{Ru}(p\text{-cymene})\}_2]^{10-}$ by the reaction between $[\text{Ru}(p\text{-cymene})\text{Cl}_2]_2$ and $[\text{Sb}_2\text{W}_{20}\text{O}_{70}]^{14-}$, formed *in situ*, confirms the importance of the organometallic route to well defined ruthenium(+II)-substituted heteropolytungstates.

5527



Structural relationship between a host included chain of spirocyclic water hexamers and bulk water – the role of water clusters in self assembly and crystallization processes

Rolando Luna-García, Berenice M. Damián-Murillo, Victor Barba, Herbert Höpfl,* Hiram I. Beltrán and Luis S. Zamudio-Rivera

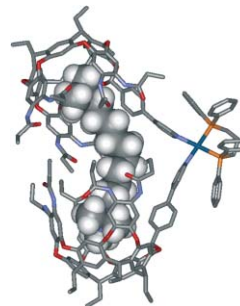
Infinite chains of spirocyclic water hexamers with mutual orthogonal orientation have been found included in the crystal lattice of a tin complex with a curved, hydrophobic surface.

5530

Metal directed assembly of ditopic containers and their complexes with alkylammonium salts

Edoardo Menozzi and Julius Rebek, Jr.*

A new ditopic cavitand receptor has been assembled through metal coordination of two monofunctionalized self-folding cavitand ligands and it has been tested in the reversible binding of di-alkylammonium and *n*-alkylammonium salts. The cooperative effect of the preorganized dimeric structure in the binding process has been studied as a function of the effective molarity (EM).

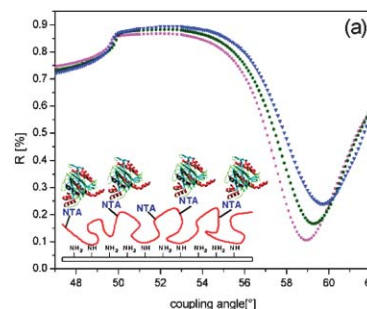


5533

Formation of layered titania and zirconia catalysed by surface-bound silicatein

Muhammad Nawaz Tahir, Patrick Théato, Werner E. G. Müller, Heinz C. Schröder, Alexandra Borejko, Simon Faiß, Andreas Janshoff, Joachim Huth and Wolfgang Tremel*

Silicatein immobilised on self-assembled polymer layers using a histidine-tag chelating anchor group not only retains its hydrolytical activity for the formation of biosilica, but catalyses the formation of layered arrangements of biotitania and biozirconia.

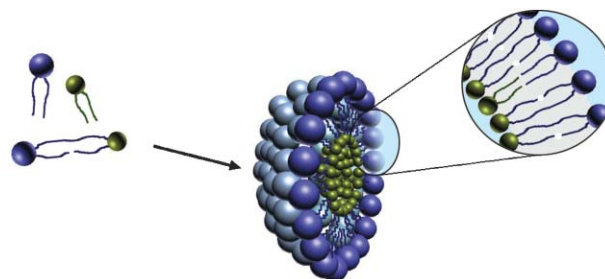


5536

Archaeosomes based on novel synthetic tetraether-type lipids for the development of oral delivery systems

T. Benvegna,* G. Réthoré, M. Brard, W. Richter and D. Plusquellec

The *in vitro* stability of archaeosomes made from novel synthetic membrane-spanning tetraether lipids was evaluated in conditions mimicking those of oral route application in terms of bile salts, serum and low pH.

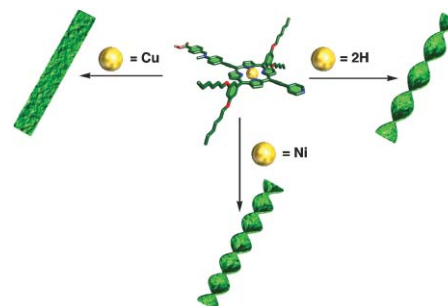


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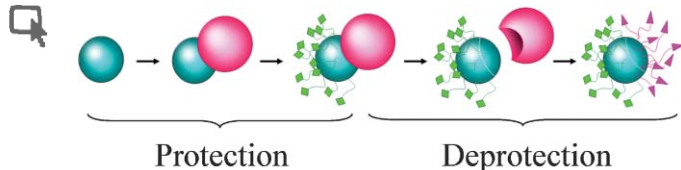
On the influence of porphyrin π - π stacking on supramolecular chirality created in the porphyrin-based twisted tape structure

Masayuki Takeuchi,* Satoshi Tanaka and Seiji Shinkai*

Achiral porphyrin derivatives **1-M** form twisted supramolecular assemblies and the pitch is controllable by changing the central metal.



5542

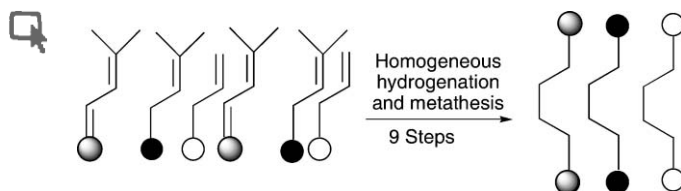


Towards large amounts of *Janus* nanoparticles through a protection–deprotection route

Adeline Perro, Stéphane Reculosa, Franck Pereira, Marie-Hélène Delville, Christophe Mingotaud, Etienne Duguet, Elodie Bourgeat-Lami and Serge Ravaine*

Janus silica nanoparticles, regioselectively functionalized by two different chemical groups, were synthesized through a multistep procedure based on the use of polystyrene nodules as temporary protecting masks.

5544

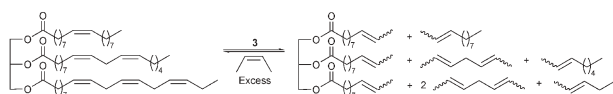


A one pot, metathesis–hydrogenation sequence for the selective formation of carbon–carbon bonds

Andrea J. Robinson,* Jomana Elaridi, Jim Patel and W. Roy Jackson

A one-pot sequence of nine homogeneous metal-catalysed cross-metathesis and hydrogenation reactions has been developed to provide high yielding chemo- and stereoselective formation of three new C–C bonds.

5546

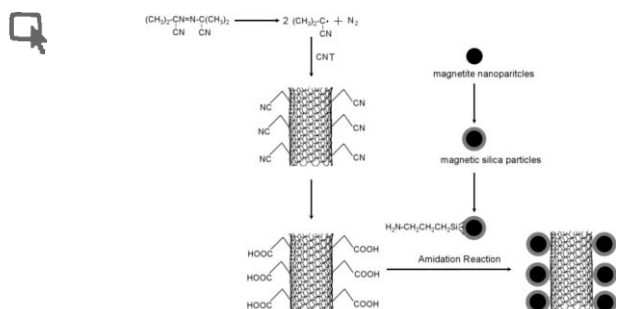


Cross-metathesis of unsaturated natural oils with 2-butene. High conversion and productive catalyst turnovers

Jim Patel,* Jomana Elaridi, W. Roy Jackson, Andrea J. Robinson, Algirdas K. Serelis and Chris Such

The cross-metathesis of synthetic and natural triglycerides containing unsaturated fatty acids with 2-butene can be achieved with high conversion and excellent productive turnovers. These reactions are catalysed by second-generation ruthenium-based olefin metathesis catalysts and can be conducted at $-5\text{ }^{\circ}\text{C}$ in liquid 2-butene.

5548



Preparation, characterization and application of magnetic silica nanoparticle functionalized multi-walled carbon nanotubes

Yonghui Deng, Chunhui Deng, Dong Yang, Changchun Wang, Shoukuan Fu* and Xiangmin Zhang*

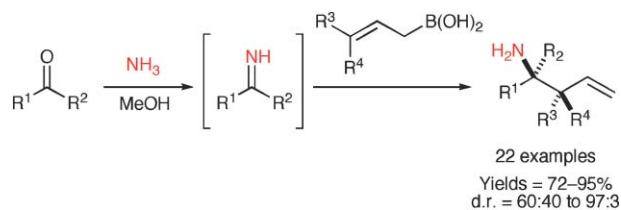
Novel functionalized carbon nanotubes, *i.e.* magnetic silica nanoparticle functionalized multi-walled carbon nanotubes (MS-MWNTs) were used to separate aromatic compounds. The results suggest the possibility of wide applications of MS-MWNTs for the rapid and efficient separation of various compounds which could strongly interact with MWNTs.

5551

Diastereoselective allylation and crotylation of *N*-unsubstituted imines derived from ketones

Bhartesh Dhudshia, Jorge Tiburcio and Avinash N. Thadani*

Allylation and crotylation of a wide variety of *in-situ* generated *N*-unsubstituted ketimines affords the corresponding tertiary carbamines in high yields and good to excellent diastereoselectivities.

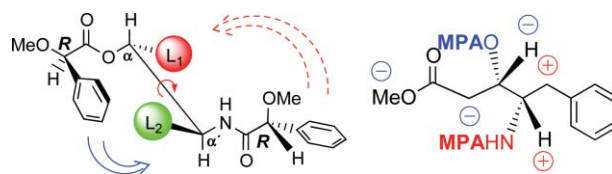


5554

Absolute configuration of amino alcohols by ¹H-NMR

Victoria Leiro, Félix Freire, Emilio Quiñoá and Ricardo Riguera*

A general NMR spectroscopy protocol for determination of absolute configuration of 1,2-amino alcohols is described.

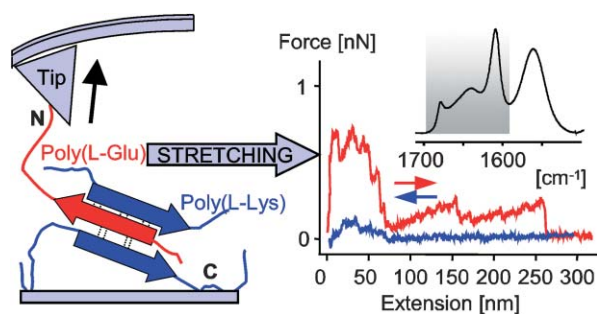


5557

Zipper-like properties of [poly(L-lysine) + poly(L-glutamic acid)] β-pleated molecular self-assembly

Wojciech Dzwolak* and Piotr E. Marszalek*

The application of Molecular Force Spectroscopy demonstrates nanomechanical properties of a β-sheet-rich, reversible, and pH-controllable molecular “zipper” formed by the spontaneous self-assembly of poly(L-lysine) and poly(L-glutamic acid).

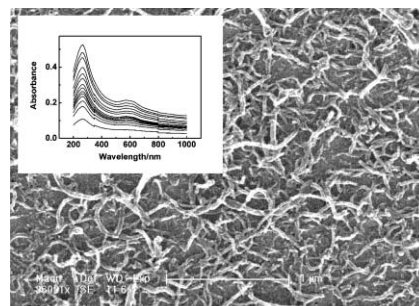


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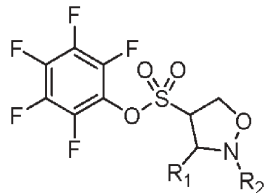
Small molecules as cross-linkers: fabrication of carbon nanotubes/thionine self-assembled multilayers on amino functionalized surfaces

Minghua Huang, Heqing Jiang, Xiaohu Qu, Zhiai Xu, Yuling Wang and Shaojun Dong*

Electroactive and photoactive thionine molecules have been selected as cross-linkers to construct self-assembled multilayers containing carbon nanotubes. The multilayer system can electrocatalyze the NADH oxidation and offer potential applications in other fields such as biosensors and photovoltaic devices.



5563

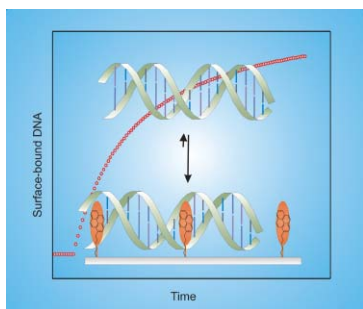


Inhibition of dimethylarginine dimethylaminohydrolase (DDAH) and arginine deiminase (ADI) by pentafluorophenyl (PFP) sulfonates

Patrick Vallance,* Hannah D. Bush, B. James Mok, Ramon Hurtado-Guerrero, Herpreet Gill, Sharon Rossiter, Jonathan D. Wilden and Stephen Caddick*

A range of pentafluorophenyl (PFP) sulfonate esters derived from the reaction of PFP vinyl sulfonate and various nitrones are shown to have significant inhibitory activity against the enzymes DDAH and ADI.

5566

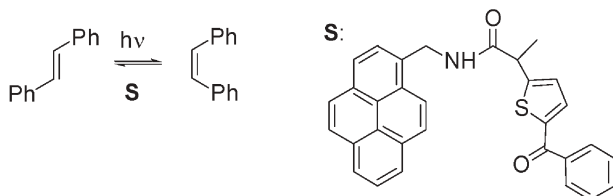


DNA-intercalation on pyrene modified surface coatings

Stephan Laib,* Alexander Krieg, Pascal Häfliger and Nikos Agorastos

Utilising the strong affinity between nucleic acids and an intercalating pyrene derivate, a novel efficient method for unspecific immobilisation of double-stranded DNA on to solid support for applications in bioanalytic, biophysics and microbiology is presented.

5569

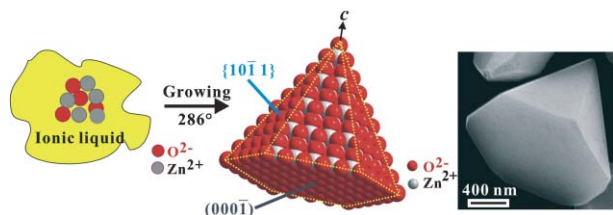


Pyrene-benzoylthiophene bichromophores as selective triplet photosensitizers

Julia Pérez-Prieto,* Lourdes Pastor Pérez, María González-Béjar, Miguel A. Miranda and Salah-Eddine Stiriba*

Combination of pyrene and benzoylthiophene units constitutes an interesting approach to design bichromophoric photosensitizers with increased intersystem crossing quantum yield and enhanced selectivity. Its potential is illustrated by using stilbene isomerization as test reaction.

5572



Formation of ZnO hexagonal micro-pyramids: a successful control of the exposed polar surfaces with the assistance of an ionic liquid

Xi Zhou, Zhao-Xiong Xie,* Zhi-Yuan Jiang, Qin Kuang, Shu-Hong Zhang, Tao Xu, Rong-Bin Huang and Lan-Sun Zheng

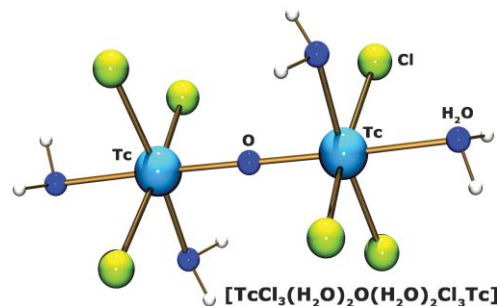
Wurtzite ZnO hexagonal micro-pyramids, with all exposed surfaces being polar \pm (0001) and $\{10\bar{1}1\}$ planes, have been successfully synthesized using ionic liquids as solvents.

5575

[TcCl₄(H₂O)₂] and [Cl₃(H₂O)₂TcOTc(H₂O)₂Cl₃] – two molecular intermediates of the hydrolysis of technetium(IV)

Eda Yegen, Adelheid Hagenbach and Ulrich Abram*

Two molecular intermediates of the hydrolysis of technetium tetrachloride, *cis*-[TcCl₄(H₂O)₂] and [Cl₃(H₂O)₂TcOTc(H₂O)₂Cl₃] were isolated and structurally characterised. This strongly suggests that the hydrolytic degradation of technetium(IV) compounds occurs stepwise with the polymeric 'TcO₂·*n*H₂O' as a less defined final product.

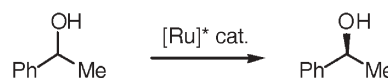


5578

A novel ruthenium catalysed deracemisation of alcohols

Gareth R. A. Adair and Jonathan M. J. Williams

The deracemisation of alcohols has been achieved with 65–75% ee using a non-selective ruthenium catalysed oxidation to give an intermediate ketone followed by an enantioselective hydrogenation.

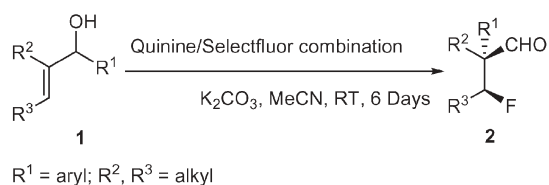


5580

Quinine/selectfluor combination induced asymmetric semipinacol rearrangement of allylic alcohols: an effective and enantioselective approach to α -quaternary β -fluoro aldehydes

Min Wang, Bao Min Wang, Lei Shi, Yong Qiang Tu,* Chun-An Fan, Shao Hua Wang, Xiang Dong Hu and Shu Yu Zhang

A quinine/Selectfluor combination inducing rearrangement reaction of allylic alcohols was discovered, which involved a moderate yield with good enantioselective construction of α -quaternary carbon center and β -fluoro aldehyde under base condition.

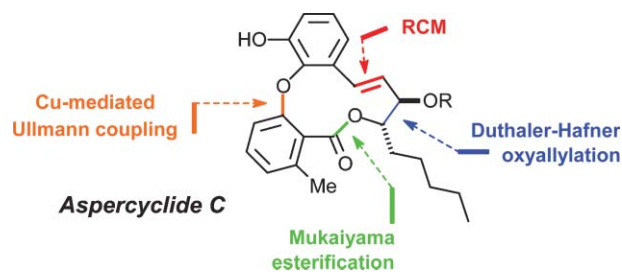


5583

Total synthesis of aspercyclide C

Alois Fürstner* and Christoph Müller

The kinetic preference for the formation of the (*E*)-configured cycloalkene during ring closing metathesis (RCM) is the basis for the first stereoselective total synthesis of the fungal metabolite aspercyclide C comprising a highly strained 11-membered core structure.



5586

David Barton, Robert D. Short, Stuart Fraser and
James W. Bradley

**The effect of ion energy upon plasma polymerization
deposition rate for acrylic acid**

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