

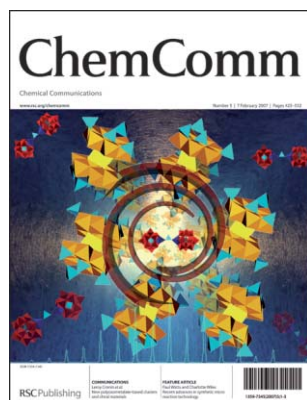
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IN THIS ISSUE

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Cover

See Leroy Cronin *et al.*, pages 468 and 471. A hybrid image showing that self assembly has been used to construct new polyoxometalate (POM)-based clusters and chiral POM-based materials demonstrating that POMs have great potential as scalable building blocks. Image reproduced by permission of Chris Ritchie, Eric M. Burkholder, De-Liang Long, David Adam, Paul Kögerler, Carsten Streb and Leroy Cronin, from *Chem. Commun.*, 2007, 468 and 471.



Inside cover

See Tsukasa Torimoto *et al.*, page 483. The selectivity of products formed by the photocatalytic reduction of nitrobenzene can be tuned by changing the nanostructure of jingle-bell-shaped semiconductor nanocomposite particles. Image reproduced by permission of Bonamali Pal, Tsukasa Torimoto, Ken-ichi Okazaki and Bunsho Ohtani, from *Chem. Commun.*, 2007, 483.

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B9

Drawing together research highlights and news from all RSC publications, *Chemical Biology* provides a 'snapshot' of the latest developments in chemical biology, showcasing newsworthy articles and significant scientific advances.

Chemical Biology

February 2007/Volume 2/Issue 2

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FEATURE ARTICLE

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Recent advances in synthetic micro reaction technology

Paul Watts* and Charlotte Wiles

Through the comparison of reactions performed in micro reactors with those conducted in traditional batch reaction vessels, this *Feature Article* aims to illustrate the advantages associated with the emerging field of micro reaction technology.



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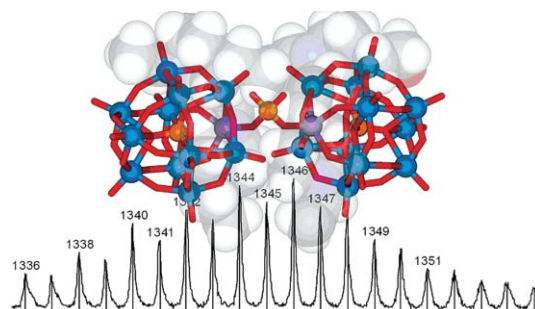
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Exploiting the multifunctionality of organocations in the assembly of hybrid polyoxometalate clusters and networks

Chris Ritchie, Eric M. Burkholder, De-Liang Long, David Adam, Paul Kögerler and Leroy Cronin*

N,N'-Bis(2-hydroxyethyl)piperazine (BHEP) acts as a multifunctional cation allowing the isolation of an unprecedented phosphate bridged complex connecting two mono-vacant lacunary clusters substituted with Mn(II), $[\text{PMnW}_{11}\text{O}_{39}\text{PO}_4]^{13-}$ and $[\text{P}_2\text{Mn}_4\text{W}_{18}\text{O}_{68}]^{10-}$.

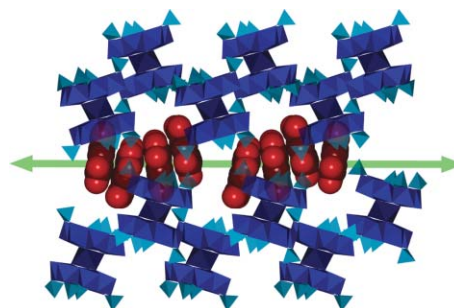


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Engineering porosity in a chiral heteropolyoxometalate-based framework: the supramolecular effect of benzenetricarboxylic acid

Carsten Streb, De-Liang Long and Leroy Cronin*

A chiral heteropolyoxometalate-based framework, synthesised using a planar aromatic tri-acid included as a guest, contains partially filled 1D channels and exhibits reversible water sorption capabilities.

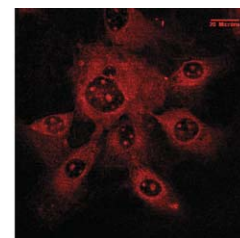
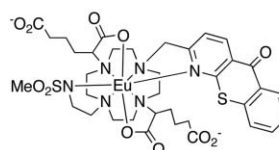


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A single component ratiometric pH probe with long wavelength excitation of europium emission

Robert Pal and David Parker*

A cell permeable macrocyclic Eu(III) complex incorporating an *N*-methylsulfonamide moiety changes form with pH, allowing ratiometric pH measurements in the range 6 to 8, following excitation at 384 nm.

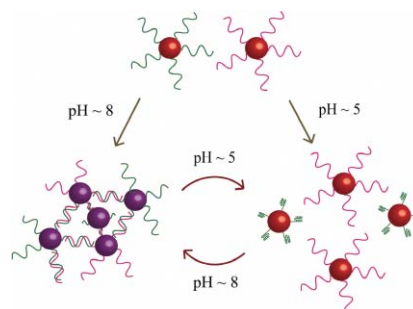


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pH-driven conformational switch of “i-motif” DNA for the reversible assembly of gold nanoparticles

Jaswinder Sharma, Rahul Chhabra, Hao Yan and Yan Liu*

We report a pH-driven conformational switch, which responds to a change in pH of the solution reversibly. This offers an easy to use pH sensor that can be visualized by the naked eye.



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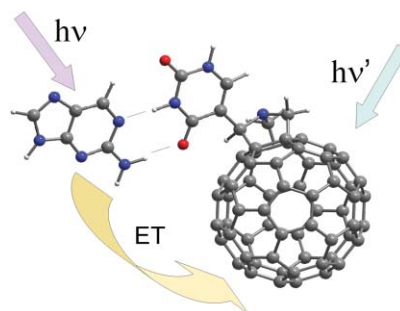
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Photoinduced electron transfer in a Watson–Crick base-paired, 2-aminopurine:uracil- C_{60} hydrogen bonding conjugate

Francis D'Souza,* Suresh Gadde, D.-M. Shafiqul Islam, Siew-Cheng Pang, Amy Lea Schumacher, Melvin E. Zandler, Rumiko Horie, Yasuyuki Araki and Osamu Ito*

Efficient photoinduced electron transfer in a newly assembled *via* Watson–Crick type base-pairing conjugate involving 2-aminopurine and a uracil appended C_{60} is reported.

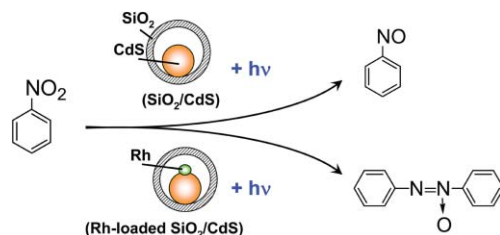


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Photocatalytic syntheses of azoxybenzene by visible light irradiation of silica-coated cadmium sulfide nanocomposites

Bonamali Pal, Tsukasa Torimoto,* Ken-ichi Okazaki and Bunsho Ohtani

Photoirradiation of a 2-PrOH aqueous solution containing nitrobenzene and rhodium-loaded silica-coated CdS nanoparticles produced azoxybenzene with good selectivity (68%); the photocatalytic activity is enhanced by decreasing the semiconductor particle core size.

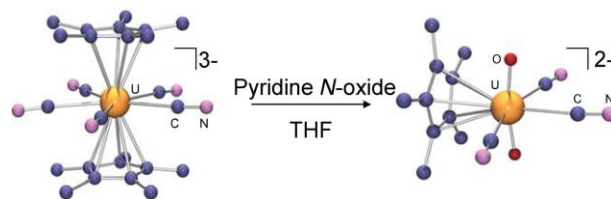


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The first cyclopentadienyl complex of uranyl

Jérôme Maynadié, Jean-Claude Berthet,* Pierre Thuéry and Michel Ephritikhine

The U(IV) linear pentacyano metallocene $[U(C_5Me_5)_2(CN)_5][NEt_4]_3$ reacted with pyridine *N*-oxide in anhydrous organic solvents to give $[UO_2(C_5Me_5)(CN)_3][NEt_4]_2$, the first uranyl(VI) species containing a cyclopentadienyl ligand. As observed in the crystal structure, the (C_5Me_5) ligand forces the $\{UO_2\}^{2+}$ ion to deviate from linearity.

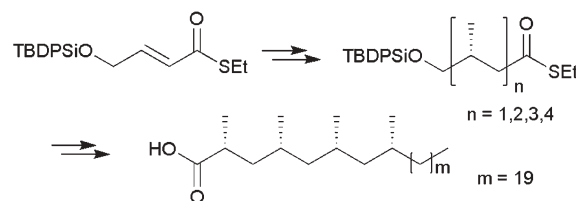


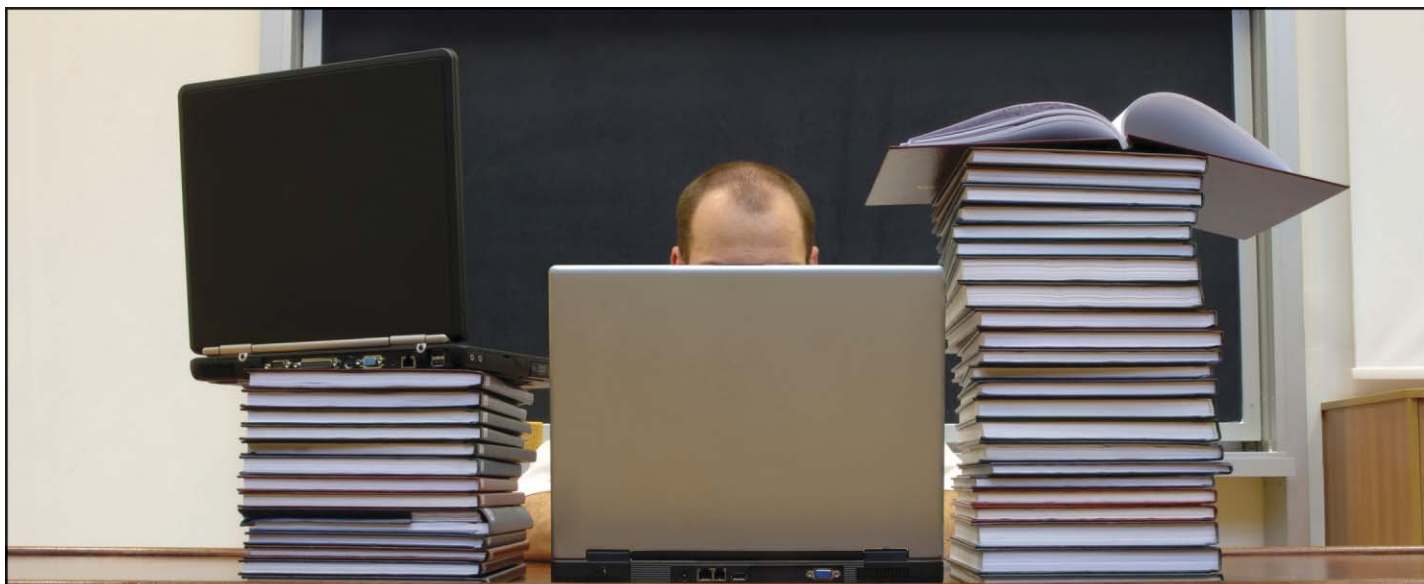
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Catalytic asymmetric synthesis of mycocerosic acid

Bjorn ter Horst, Ben L. Feringa* and Adriaan J. Minnaard*

Mycocerosic acid, a lipid cell wall component of *Mycobacterium tuberculosis*, is prepared *via* an iterative catalytic enantioselective 1,4-addition protocol.





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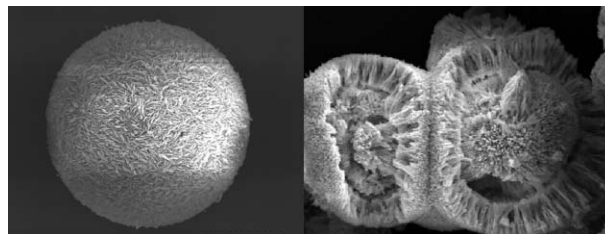
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First direct-formation and properties of microspherical superstructure. Morphology of diamineplatinum(II) complexes with isonicotinate

Hye Ji Yoon, In Sung Chun, Young Mee Na, Young-A Lee and Ok-Sang Jung*

Uniform microspheres (30 μm) of $[\text{Pt}(\text{en})(\text{iso})(\text{iso}\cdot\text{HPF}_6)]$ (iso = isonicotinate) have been formed without intentional addition of any template *via* a genuine self-assembly; the structure, morphology, and hydrogenation-catalytic activity of $[\text{Pt}(\text{en})(\text{iso})(\text{iso}\cdot\text{HPF}_6)]$ have been discussed.

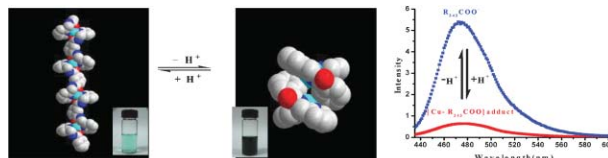


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Proton-controllable fluorescent switch based on interconversion of polynuclear and dinuclear copper(II) complexes

Hsueh-Ju Liu, Yu-Hsin Hung, Chang-Chuan Chou* and Chan-Cheng Su*

The first reversible interconversion process between a one-strand polymeric copper(II) complex $\{[\text{Cu}_2(\text{L1})_2(\text{ClO}_4)_2](\text{ClO}_4)_2\}_n$ (**1**) and a dicopper(II) helicate $[\text{Cu}_2(\text{L1-2H})_2]$ (**2**), proceeding *via* a deprotonation–protonation process, can transduce fluorescence and function as a fluorescent switch.

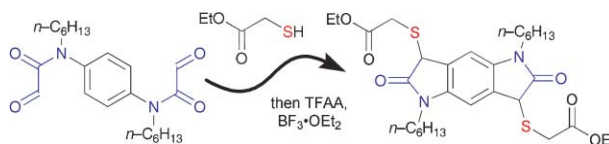


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Exploring a new, connective Pummerer reaction: formation of oxindoles by the reaction of thiols with glyoxamides

Marc Miller, William Tsang, Andrew Merritt and David J. Procter*

The reaction of a range of thiols with mono- and bis-glyoxamides derived from secondary anilines, triggers a new, connective Pummerer cyclisation process and leads to the formation of oxindoles.

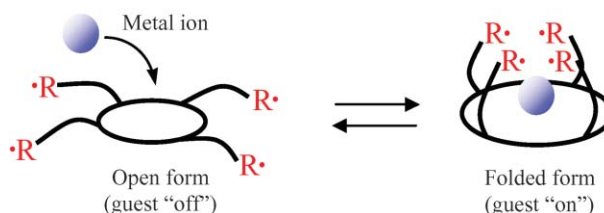


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Magnetic exchange coupling tunable by means of selective cation binding into poly(radical-armed) azacrowns

Kazuki Igarashi, Takashi Nogami and Takayuki Ishida*

Host–guest complexes of tris(radical)-substituted 1,4,7-triazacyclononane and tetrakis(radical)-substituted 1,4,7,10-tetraazacyclododecane afforded the folded structures of the hosts where the radical oxygen atoms were coordinated to the guest metal ion.





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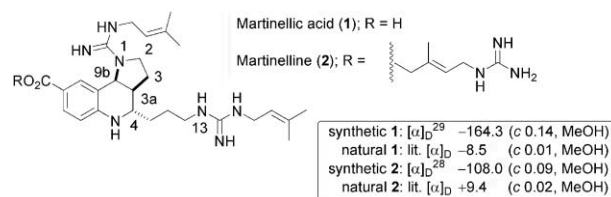
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Asymmetric total synthesis of martinelline and martinelic acid

Shuhei Ikeda, Masatoshi Shibuya and Yoshiharu Iwabuchi*

The first asymmetric total synthesis of (–)-martinelline ((–)-**2**) and the second total synthesis of (–)-martinelic acid ((–)-**1**) were achieved by employing a tandem Mukaiyama–Mannich reaction/aminal cyclization as the key step.

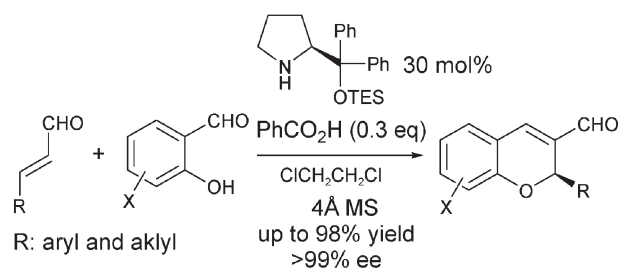


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One-pot approach to chiral chromenes via enantioselective organocatalytic domino oxa-Michael–aldol reaction

Hao Li, Jian Wang, Timiyin E-Nunu, Liansuo Zu, Wei Jiang, Shaohua Wei* and Wei Wang*

A tandem oxa-Michael–aldol reaction of α,β -unsaturated aldehydes with salicylaldehydes, promoted by (*S*)-diphenylpyrrolinol triethylsilyl ether, has been developed. The process affords synthetically useful chromenes in high yields and high enantioselectivities.

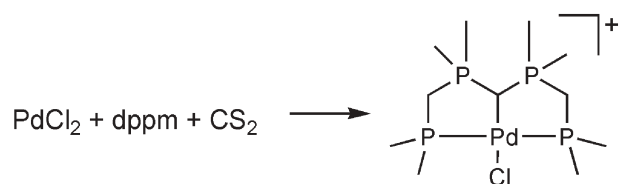


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Novel route to carbodiphosphanes producing a new P,C,P pincer carbene ligand

Silvia Stallinger, Christian Reitsamer, Walter Schuh, Holger Kopacka, Klaus Wurst and Paul Peringer*

Formation of a carbodiphosphorane from dppm and CS_2 in the coordination sphere of palladium.

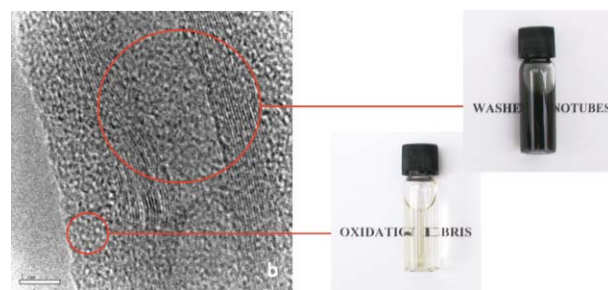


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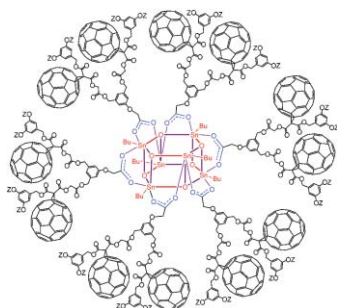
Removal of oxidation debris from multi-walled carbon nanotubes

Raquel Verdejo, Steven Lamoriniere, Ben Cottam, Alexander Bismarck and Milo Shaffer*

Conventional liquid phase oxidation of multiwall carbon nanotubes (MWCNTs) using concentrated acids generates contaminating debris that should be removed using aqueous base before further reaction.



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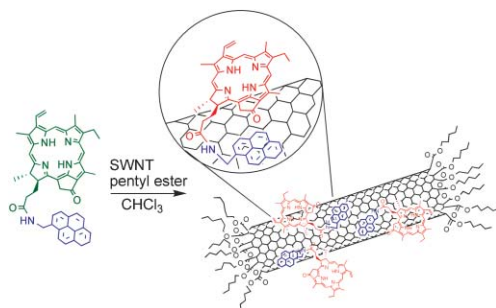


Self-assembly of fullerene-rich nanostructures with a stannoxane core

Uwe Hahn, Aline Gégout, Carine Duhayon, Yannick Coppel, Alix Saquet and Jean-François Nierengarten*

Fullerene derivatives bearing a carboxylic acid function undergo self-assembly with *n*-butylstannonic acid (*n*BuSn(O)OH) to produce fullerene-rich nanostructures with a stannoxane core in almost quantitative yields.

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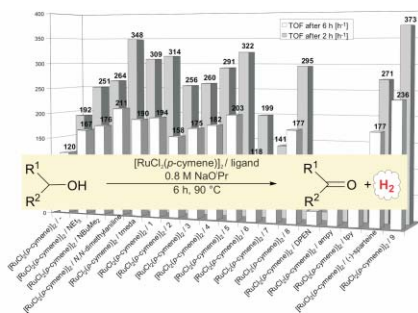


Noncovalent attachment of *pyro*-pheophorbide *a* to a carbon nanotube

Jari S. Kavakka, Sami Heikkinen, Ilkka Kilpeläinen, Marco Mattila, Harri Lipsanen and Juho Helaja*

Pyrene guided van der Waals driven attachment of tethered chlorin (a chlorophyll derivative) to soluble SWNT walls was performed with a self-assembling approach and demonstrated by ¹H NMR and optical spectroscopy.

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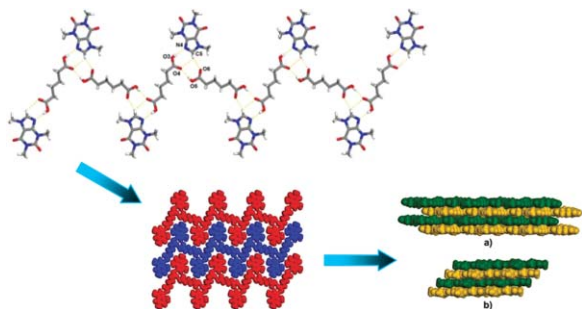


Novel improved ruthenium catalysts for the generation of hydrogen from alcohols

Henrik Junge, Björn Loges and Matthias Beller*

The dehydrogenation reaction of alcohols to generate hydrogen at ambient conditions has been studied.

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A “hidden” co-crystal of caffeine and adipic acid

Dejan-Krešimir Bučar, Rodger F. Henry, Xiaochun Lou, Thomas B. Borchardt and Geoff G. Z. Zhang*

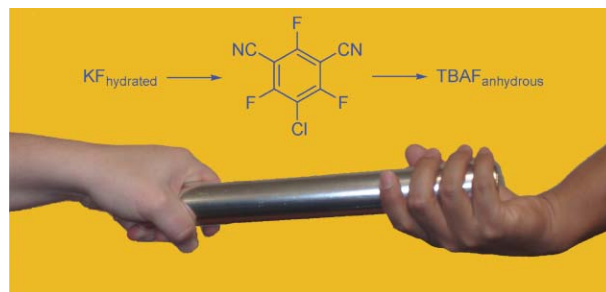
Co-crystal formation between caffeine and adipic acid has been explored over the years without success. Utilizing the newly developed co-crystal screening method, we have finally discovered this “hidden” caffeine and adipic acid co-crystal.

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Fluoride relay: a new concept for the rapid preparation of anhydrous nucleophilic fluoride salts from KF

Haoran Sun and Stephen G. DiMugno*

Fluoride relay is used to generate exceptionally nucleophilic fluoride reagents from KF on a time scale commensurate with radiotracer synthesis.

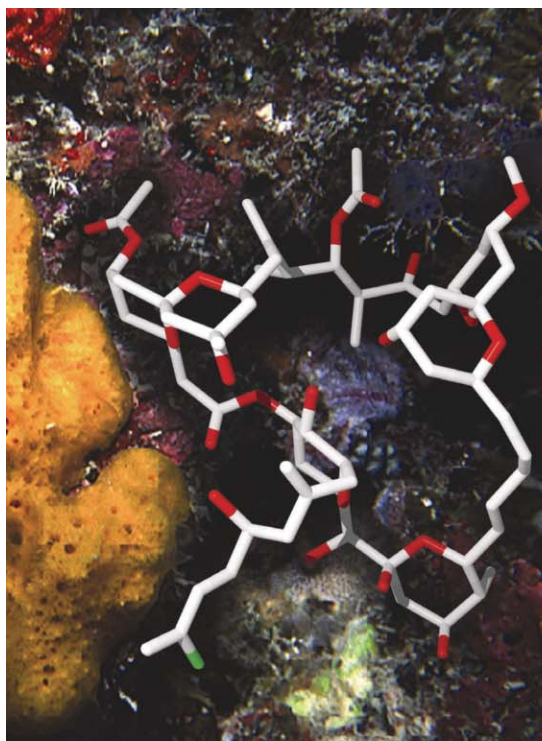


ADDITION AND CORRECTION

530

Novel improved ruthenium catalysts for the generation of hydrogen from alcohols

Henrik Junge, Björn Loges and Matthias Beller



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