

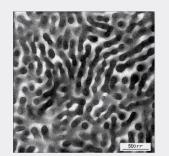
CHEMICAL COMMUNICATIONS • www.rsc.org/chemcomm

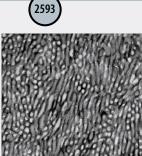
regranic template

Cover A schematic representation of the nanocasting concept, against a background TEM image of the silica replica of a bicontinuous sponge-like phase.



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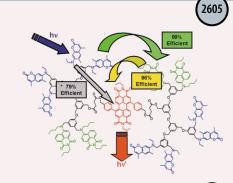


2608

Porous materials *via* nanocasting procedures: innovative materials and learning about soft-matter organization

Sebastian Polarz and Markus Antonietti

Nanocasting, the 3D-transformation of self-assembled organic nanostructures into hollow inorganic replicas under preservation of fine structural details has recently turned out to be a versatile tool, both for the synthesis of porous media with new pore topology as well as for the characterization of the assembled structures themselves.



COMMUNICATIONS

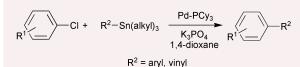
Cascade energy transfer in a conformationally mobile multichromophoric dendrimer

Jason M. Serin, Darryl W. Brousmiche and Jean M. J. Fréchet*

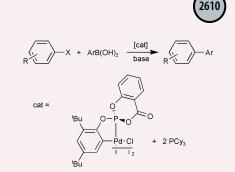
A novel dendritic system that favors cascade unidirectional FRET has been synthesized. This dendrimer illustrates the ability of a large light-harvesting antenna to concentrate absorbed light-energy both spectrally and spatially.

Simple tricyclohexylphosphine-palladium complexes as efficient catalysts for the Stille coupling of deactivated aryl chlorides

Robin B. Bedford,* Catherine S. J. Cazin and Samantha L. Hazelwood (née Welch)



The Stille coupling of a range of aryl chlorides is achieved by the use of simple palladium complexes with the inexpensive, easily handled ligand tricyclohexylphosphine.



Extremely high activity catalysts for the Suzuki coupling of aryl chlorides: the importance of catalyst longevity

Robin B. Bedford,* Samantha L. Hazelwood (née Welch) and Michael E. Limmert

A ligand derived from salicylic acid gives greatly enhanced catalyst longevity and thus very high activity in the Suzuki coupling of aryl chlorides catalysed by Pd-PCy₃ systems.

Resorcin[6]arene as a building block for tubular crystalline state architectures

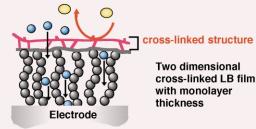
Byron W. Purse, Alexander Shivanyuk and Julius Rebek Jr.*

Acid catalyzed condensation of resorcinol with propionaldehyde gives a resorcin[6]arene with r-trans-cis-trans-cis-trans configuration of the pendant ethyl groups. This compound was shown to form novel types of tubular crystal structures.

Early-late transition metal ferromagnetic coupling mediated by hydrogen bonding

Cédric Desplanches, Eliseo Ruiz and Santiago Alvarez*

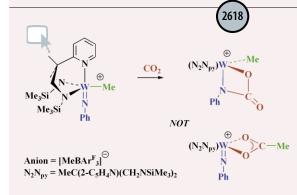
Hydrogen bonding between early and late transition metal complexes is proposed as a strategy to obtain ferromagnetic interactions based on a theoretical study using density functional calculations.



Hydrogen peroxide

L-ascorbic acid

2616



Permselective monolayer membrane based on two-dimensional crosslinked polysiloxane LB films for hydrogen peroxide detecting glucose sensors

Dai Kato, Mio Masaike, Takahito Majima, Yoshiki Hirata, Fumio Mizutani, Masayo Sakata, Chuichi Hirayama and Masashi Kunitake*

Novel two-dimensional cross-linked polysiloxane LB films have been applied as H₂O₂-permselective glucose sensors and found to be remarkably effective at eliminating interfering responses, even though the films were only a monolayer thick.

Synthesis and reactivity of the imidotungsten methyl cation $[W(N_2N_{pv})(NPh)Me]^+$: CO₂ adds to the W=NPh bond and does not insert into the W-Me bond

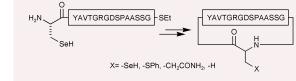
Benjamin D. Ward, Eric Clot, Stuart R. Dubberley, Lutz H. Gade and Philip Mountford*

Reactions of [W(N₂NPy)(NPh)Me]⁺ with CO₂ and PhNCO give unexpected products.

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Selenocysteine-mediated backbone cyclization of unprotected peptides followed by alkylation, oxidative elimination or reduction of the selenol

Richard Quaderer and Donald Hilvert*



CH₂N

R₁ =

2620

2622

An unprotected 16 residue peptide containing a C-terminal thioester and an N-terminal selenocysteine residue efficiently cyclizes in the presence of thiophenol; subsequent reduction, elimination or alkylation of the selenol yields modified cyclic peptides with alanine, dehydroalanine or a non-natural amino acid at the site of ligation.

Nitrogen extrusion from pyrazoline-substituted porphyrins and chlorins using long wavelength visible light

Angela Desjardins, Jeffery Flemming, Ethan D. Sternberg and David Dolphin*

Protoporphyrin dimethyl ester reacts with diazomethane to give pyrazolines which upon heating or irradiation with long wavelengths extrude dinitrogen to give the corresponding cyclopropyl derivatives.

Synthesis of ¹³C-labelled, bicyclic mimetics of natural enediynes

Parthasarathi Das, Takashi Mita, Martin J. Lear and Masahiro Hirama*

Using a new reliable and practical synthetic approach (see illustration), the fullyfunctionalized bicyclic core of natural nine-membered chromophores has been ¹³C-labelled for the first time.

One-pot synthesis of tropinone by tandem (domino) ene-type reactions of acetone silyl enol ethers

Koichi Mikami* and Hirofumi Ohmura

CHO + MeNH₂ + MeNH₂ A synthetic approach to tandem (domino) ene-ty iminium ions.

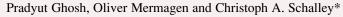
Tropinone

2628

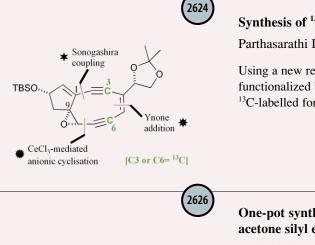
Ò

A synthetic approach for tropane alkaloids is shown on the basis of tandem (domino) ene-type reactions of acetone silyl enol ethers with iminium ions.

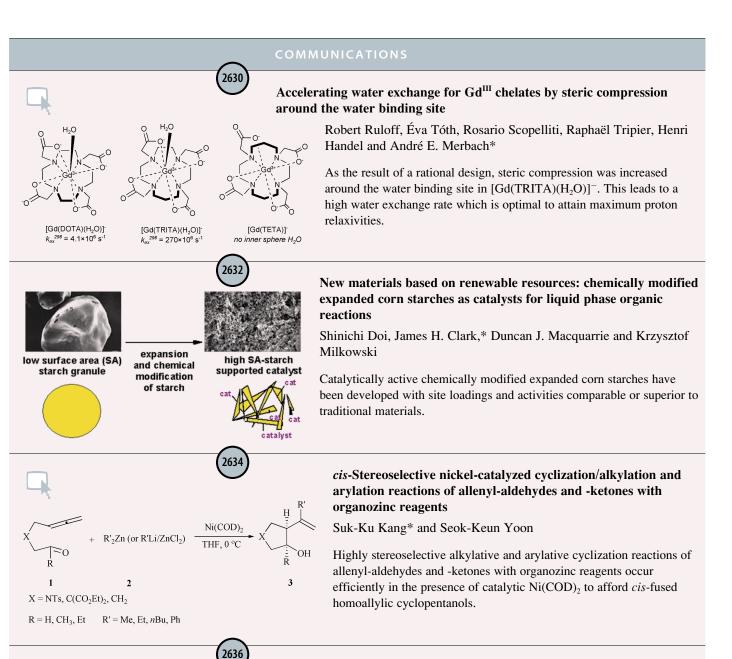
Novel template effect for the preparation of [2]rotaxanes with functionalised centre pieces



A new template effect has been designed for the preparation of rotaxanes with functionalised axle centre pieces. The phenolic OH group is efficiently protected against chemical modification by the wheel.

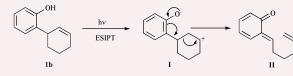


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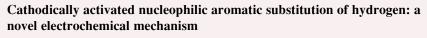
Novel generation of an *o*-quinone methide from 2-(2'-cyclohexenyl)phenol by excited state intramolecular proton transfer and subsequent C–C fragmentation

Julio Delgado, Amparo Espinós, M. Consuelo Jiménez and Miguel A. Miranda*



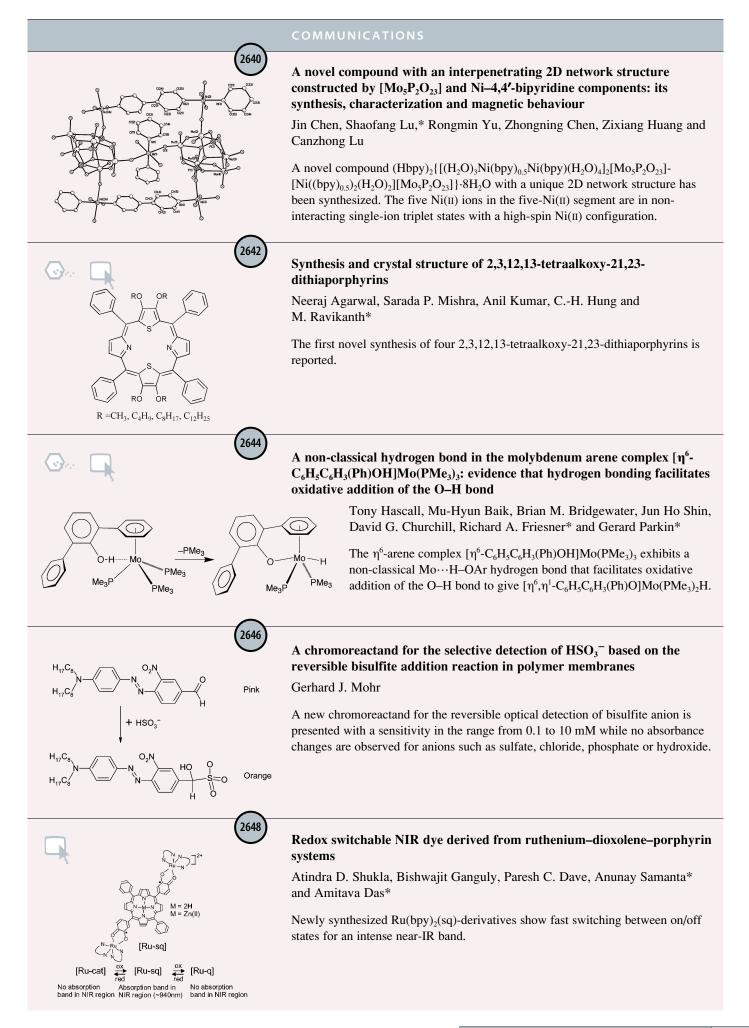
2638

Formation of an *o*-quinone methide *via* C–C fragmentation of a zwitterion formed by intramolecular excited state proton transfer from an *o*-allylphenol derivative is reported for the first time.

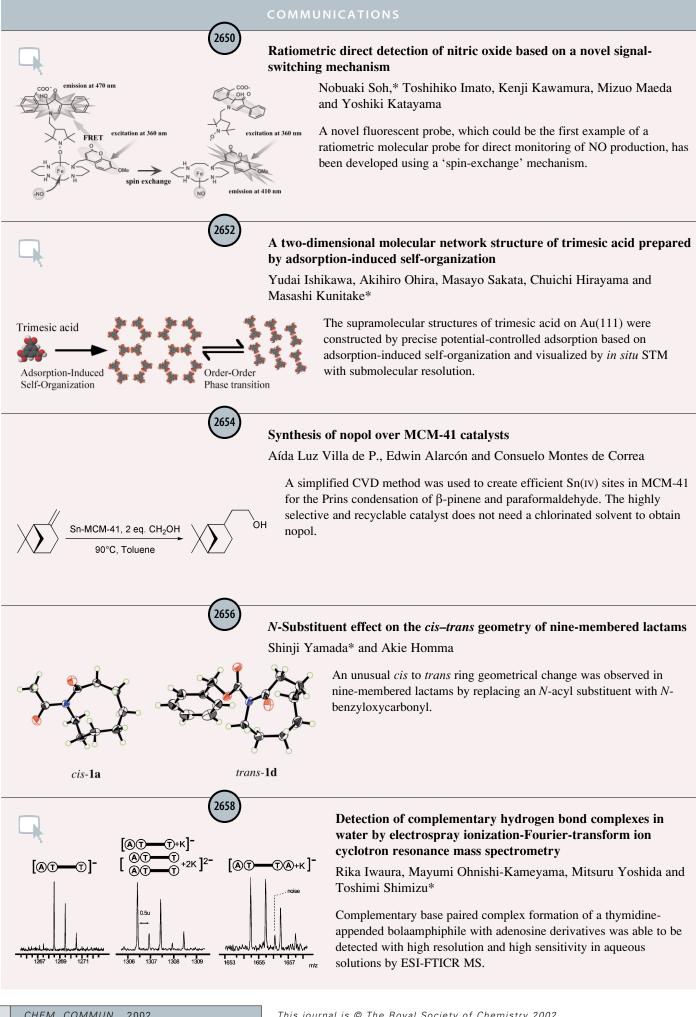


Iluminada Gallardo,* Gonzalo Guirado and Jordi Marquet

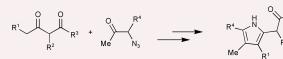
Cathodically activated nucleophilic aromatic substitution of hydrogen (S_NAr^H) is reported; furthermore the first example of an $S_{RN}2$ mechanism, which have been searched for more than 20 years, is also reported.



v



2660 Simultaneous occupation of SI and SI' cation sites in dehydrated zeolite LSX SI Tanya Gibbs and Dewi W. Lewis* Simultaneous occupation of adjacent SI (or SIa) and SI' sites is calculated to be 3.512Å favourable in dehydrated zeolite K-LSX, although such a configuration is unlikely in other dehydrated LSX zeolites or at higher Si/Al. Sla 2662 Cooperative sulfate binding by metal salt extractants containing **3-dialkylaminomethylsalicylaldimine units** Stuart G. Galbraith, Paul G. Plieger and Peter A. Tasker* The pH-dependence of simultaneous metal- and sulfate-loading of simple salen derivatives demonstrates the feasibility of their application as extractants for recovery of base metals from the leaching of sulfidic ores. The efficacy of the ligands depends on the templating of the sulfate binding site by the attendant metal ion. Two-point contact chiral distinction—a theoretical appraisal T. P. Radhakrishnan,* Sid Topiol,* P. Ulrich Biedermann, Sarit Garten and Israel Agranat* Ab initio calculations reveal chiral distinction in two-point contact CHFClBr dimers, with chiral distinction energy of 1.5 kJ mol⁻¹ between the SR and SS dimers fully optimized at the MP2/6-311++G** level. Synthesis of high purity single-walled carbon nanotubes in high yield Junfeng Geng, Charanjeet Singh, Douglas S. Shephard, Milo S. P. Shaffer, Brian F. G. Johnson* and Alan H. Windle A simple method for the synthesis of high purity single-walled carbon nanotubes has been developed by using nickel formate as an ideal precursor for the formation of nearly monodispersed nickel nanoparticles as catalysts in the CVD growth process. 2668 Efficient and regioselective synthesis of functionalized pyrroles by cyclocondensation of 1,3-dicarbonyl dianions with α-azidoketones Peter Langer* and Ilia Freifeld



The cyclocondensation of 1,3-dicarbonyl dianions with α -azidoketones regioselectively afforded 2-alkylidenepyrrolidines which were transformed into functionalized pyrroles by treatment with acid.

Preparation and regioselective reactions of novel gem-difluorinated vinyloxiranes with some organometallic reagents

Takashi Yamazaki,* Hisanori Ueki and Tomoya Kitazume

Hitherto unknown difluorinated vinyloxiranes were conveniently prepared via difluoro-Wittig reactions with α,β -epoxycarbonyl compounds and were found to possess diverse reactivity and selectivity depending on the nucleophiles employed.

The first tridentate phosphine ligand combining planar, phosphorus and carbon chirality

Pierluigi Barbaro,* Claudio Bianchini, Giuliano Giambastiani* and Antonio Togni

Two new diastereomerically pure tridentate phosphine ligands combining ferrocenyl, phosphorus and carbon chirality have been conveniently synthesized and structurally characterized by X-ray analyses.

Low-cost and facile synthesis of mesocellular carbon foams

Jinwoo Lee, Kwonnam Sohn and Taeghwan Hyeon*

Mesocellular carbon foam composed of nanometer sized primary particles was synthesized using hydrothermally synthesized MSU-F silica as a template and poly(furfuryl alcohol) as a carbon source.

Enzymatic synthesis of β -mannosyl phosphates on solid support

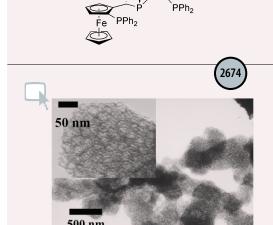
Ines Sprung, Alexandra Ziegler and Sabine L. Flitsch*

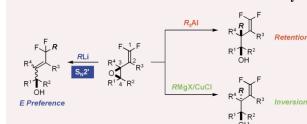
Dol-P-Man synthase catalysed the β -mannosylation of novel ω-functionalised polyisoprenoid phosphates on solid support.

Photocatalytic degradation of hexachlorocyclohexane (HCH) by TiO₂pillared fluorine mica

Hitoshi Murayama, Ken-ichi Shimizu,* Norihiro Tsukada, Aiko Shimada, Tatsuya Kodama and Yoshie Kitayama

TiO₂-pillared fluorine mica exhibited two orders of magnitude higher activity than TiO₂ and TiO₂-pillared montmorillonite for the photocatalytic degradation of γ-HCH.





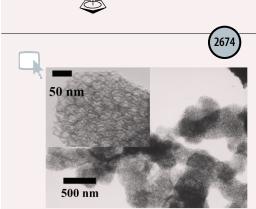
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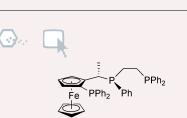
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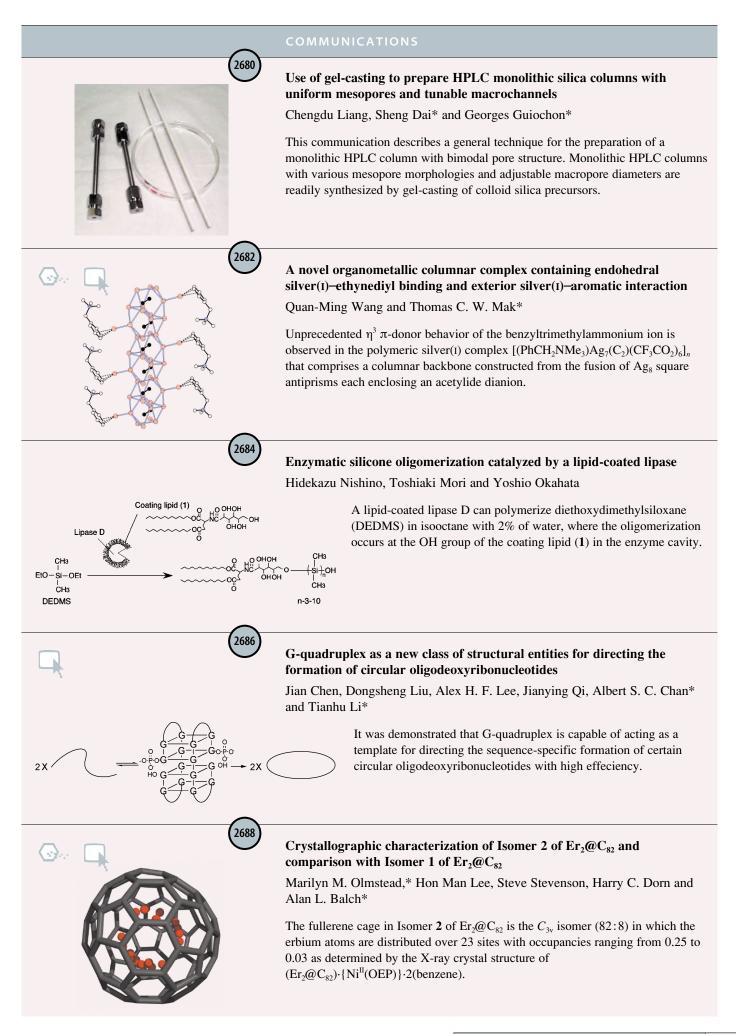
2678

GDP-Manr



 $\begin{array}{c} CI \\ \hline CI \\ CI \end{array} \xrightarrow{\text{CIO}_2\text{-mica/h}\nu} CO_2 \end{array}$





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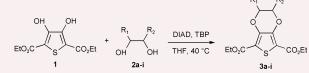


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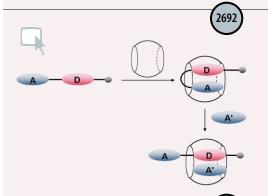
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Efficient synthesis of 3,4-ethylenedioxythiophenes (EDOT) by Mitsunobu reaction

Dolores Caras-Quintero and Peter Bäuerle*



Novel derivatives of 3,4-ethylenedioxythiophenes (EDOT), including the first chiral ones, have been efficiently synthesized using the Mitsunobu reaction.



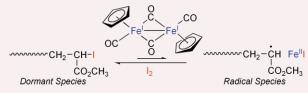
Unprecedented host-induced intramolecular charge-transfer complex formation

Jae Wook Lee, Kyungpil Kim, SooWhan Choi, Young Ho Ko, Shigeru Sakamoto, Kentaro Yamaguchi and Kimoon Kim*

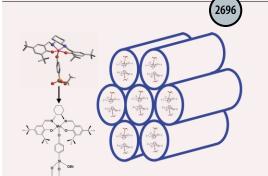
For the first time, host-induced intramolecular charge-transfer complex formation in a guest containing both an electron donor and an electron acceptor is demonstrated in the cucurbit[8]uril cavity and the interaction of 1:1 complex with competing electron donor and acceptor molecules investigated.

A highly active Fe(I) catalyst for radical polymerisation and taming the polymerisation with iodine

Masami Kamigaito, Isamu Onishi, Shinichi Kimura, Yuzo Kotani and Mitsuo Sawamoto*



A fast and controlled radical polymerisation of acrylates and acrylamides can be achieved with a combination of a highly active metal catalyst, $Fe_2Cp_2(CO)_4$, and a mild radical scavenger, iodine, in the presence of an iodide initiator.

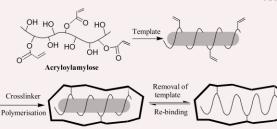


$Enantioselective\ epoxidation\ of\ olefins\ catalyzed\ by\ Mn\ (salen)/MCM-41\\ synthesized\ with\ a\ new\ anchoring\ method$

Song Xiang, Yiliang Zhang, Qin Xin and Can Li*

New immobilization of the chiral Mn(salen) complex on the surface of MCM-41 leads to a markedly higher ee than for the free complex.

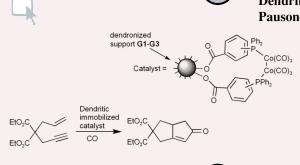
Molecular imprinting of bisphenol A and alkylphenols using amylose as a host matrix



Yasumasa Kanekiyo, Ryuichi Naganawa and Hiroaki Tao*

A novel molecularly imprinted polymer was created by a radical copolymerisation of a acryloylamylose-template inclusion complex and a crosslinker.

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Dendritic effect in polymer-supported catalysis of the intramolecular **Pauson-Khand reaction**

Adi Dahan and Moshe Portnoy*

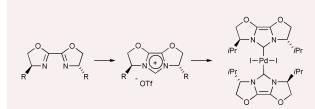
Supported dendritic catalysts for the Pauson-Khand reaction were prepared using dendronized polystyrene support; a significant positive dendritic effect was observed in the intramolecular reaction.

Synthesis of hexagonal and cubic super-microporous niobium phosphates with anion exchange capacity and catalytic properties

Nawal Kishor Mal and Masahiro Fujiwara*

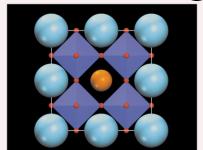
Super-microporous hexagonal niobium phosphate synthesized using neutral surfactant (S⁰I⁰ mechanism) and cubic structure with cationic surfactant $(S^{+}X^{-}I^{+})$; the hexagonal niobium phosphate possesses an anion exchange capacity of 6.3 mmol g^{-1} .

Oxazolines as chiral building blocks for imidazolium salts and Nheterocyclic carbene ligands



Frank Glorius,* Gereon Altenhoff, Richard Goddard and Christian Lehmann

Enantiomerically pure imidazolium triflates can be readily prepared from bioxazolines and oxazolineimines; deprotonation of the iPr-bioxazoline derived imidazolium triflate gives a chiral N-heterocyclic carbene that can act as a ligand in a catalytically active palladium complex.



Cvs-456

Solubility of cerium in LaCoO₃-influence on catalytic activity

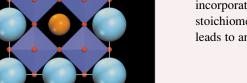
S. A. French,* C. R. A. Catlow, R. J. Oldman, S. C. Rogers and S. A. Axon

The calculations describe in detail the theoretical study of the mechanisms for incorporating dopants in non-stoichiometric perovskite lattices. Comparison with a stoichiometric lattice shows a large increase in dopant solubility, which in turn leads to an increase in the catalytic activity of lanthanum cobaltate.

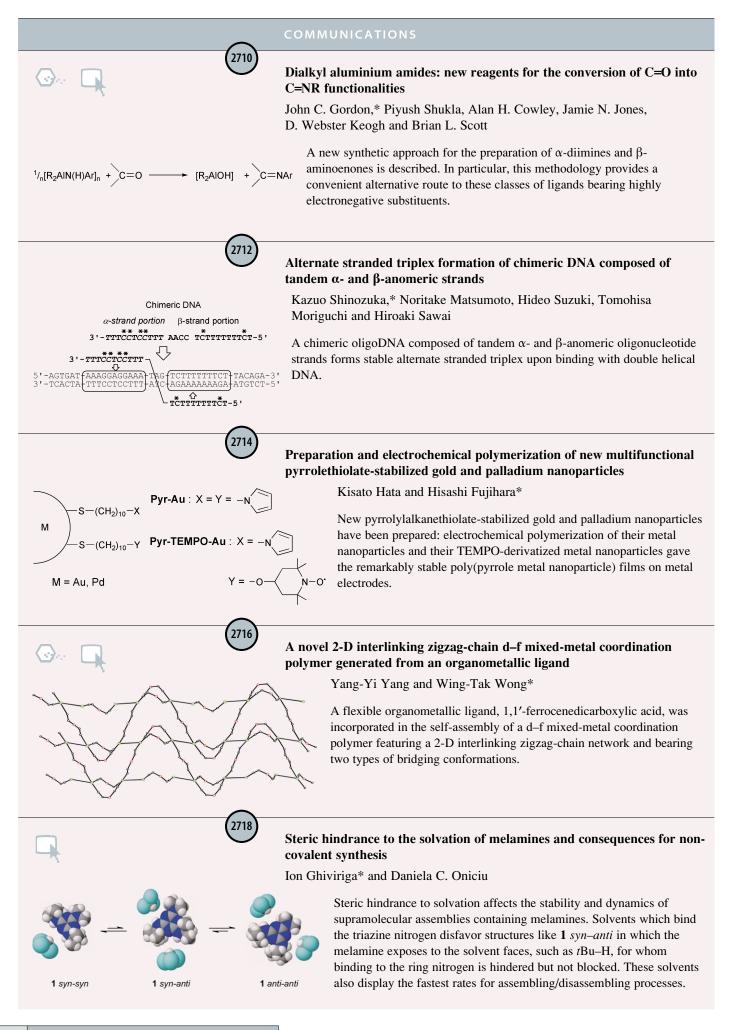
A paradigm for biological sulfur transfers *via* persulfide groups: a persulfide-disulfide-thiol cycle in 4-thiouridine biosynthesis

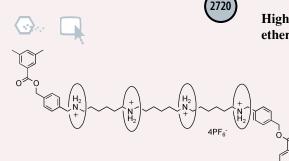
Chapman M. Wright, Peter M. Palenchar and Eugene G. Mueller*

The enzyme Thil turns over only once in the absence of reductants, and Cys-456 receives sulfur from the sulfurtransferase IscS, confirming a persulfide-disulfide-thiol cycle in 4-thiouridine biosynthesis and providing a paradigm for other sulfur transfer systems.



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NHTs

 \sim CO₂Me using CF₃SO₃H in CHCl₃

쑸

272

CO₂Me

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Highly efficient synthesis of [3]- and [5]-rotaxanes consisting of crown ether and a *sec*-ammonium salt

Nobuhiro Watanabe, Takaya Yagi, Nobuhiro Kihara and Toshikazu Takata*

[3]- and [5]-rotaxanes consisting of a crown ether and ammonium salts were synthesized in high yields by a tributylphosphine-catalyzed endcapping method which provides a simple and practical means of obtaining higher-order rotaxanes.

Novel synthesis of porous carbons with tunable pore size by surfactanttemplated sol–gel process and carbonisation

Kyu Tae Lee and Seung M. Oh*

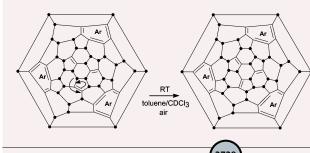
Surfactant-templated sol–gel polymerisation was explored to synthesize resorcinol–formaldehyde (RF) gels without supercritical drying step, which were further carbonised to obtain porous carbons of a tunable pore size.

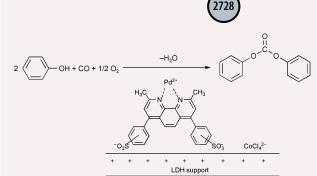
Sulfonamides as novel terminators of cationic cyclisations

Charlotte M. Haskins and David W. Knight*

Triflic acid is an excellent catalyst for inducing the overall 5-*endo*-trig cyclisation of homoallylic sulfonamides leading to pyrrolidines. The method is also applicable to the formation of polycyclic derivatives by cationic cyclisation cascades in which the sulfonamide nitrogen acts as a terminator.

Fluorine takes a hike: remarkable room-temperature rearrangement of the C_1 isomer of $C_{60}F_{36}$ into the C_3 isomer *via* a 1,3-fluorine shift





Anthony G. Avent and Roger Taylor*

In toluene/CDCl₃ at room temperature, the C_1 isomer of $C_{60}F_{36}$ rearranges during four days into the C_3 isomer, *via* a unique 1,3-shift of fluorine; this rare example of addend migration across a fullerene cage surface is accelerated by air.

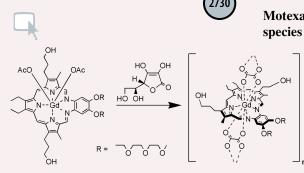
A new heterogeneous catalyst for the oxidative carbonylation of phenol to diphenyl carbonate

Koen J. L. Linsen, Jo Libens and Pierre A. Jacobs*

Using LDH as support, anionic species of both the Pd catalyst and the Co co-catalyst are successfully heterogenised and evaluated in the oxidative carbonylation of phenol to diphenyl carbonate.

Kang*

membrane has been evaluated.



Motexafin gadolinium reacts with ascorbate to produce reactive oxygen species

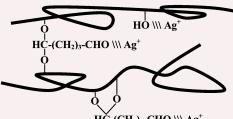
Darren Magda,* Nikolay Gerasimchuk, Philip Lecane, Richard A. Miller, John E. Biaglow and Jonathan L. Sessler

Reactive oxygen species and a novel coordination polymer with oxalate are produced from the reaction of the experimental radiation enhancing drug, motexafin gadolinium (MGd) and the reducing metabolite, ascorbate. These findings provide a basis for understanding the biological action of this agent.

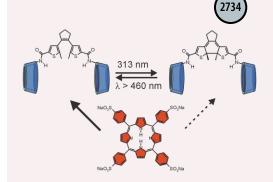
Coordination structure of various ligands in crosslinked PVA to silver ions for facilitated olefin transport

The most effective ligand among –OH, –O– and –CHO for facilitated olefin transport by silver ions in room temperature crosslinked poly(vinyl alcohol)

Jong Hak Kim, Byoung Ryul Min, Ki Bong Lee, Jongok Won and Yong Soo



HČ-(CH₂)₃-CHO \\\\ Ag⁺



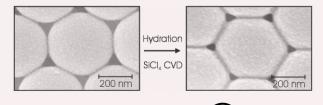
A dithienylethene-tethered β -cyclodextrin dimer as a photoswitchable host

Alart Mulder, Amela Jukovic, Linda N. Lucas, Jan van Esch, Ben L. Feringa,* Jurriaan Huskens and David N. Reinhoudt*

A dithienylethene-tethered β -cyclodextrin dimer shows reversible switching of the binding strength with TSPP upon irradiation with light.

Mechanical stability enhancement by pore size and connectivity control in colloidal crystals by layer-by-layer growth of oxide

Hernán Míguez, Nicolas Tétreault, Benjamin Hatton, San Ming Yang, Doug Perovic and Geoffrey A. Ozin*



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2738

Control of the pore size and connectivity of micro-sphere colloidal crystal lattices has been achieved by a layer-by-layer growth of silica using atmospheric pressure room temperature chemical vapour deposition of silica, a method which largely increases the mechanical stability of the lattice without disrupting its long range order.

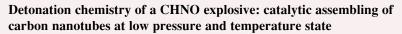
Low-temperature catalytic decomposition of N_2O on platinum and bismuth-modified platinum: identification of active sites

N₂O (g) O (ads) Pt

R. Burch,* G. A. Attard, S. T. Daniells, D. J. Jenkins, J. P. Breen and P. Hu

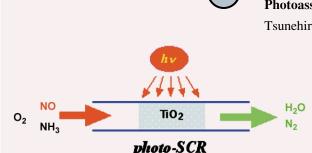
A definitive identification of the active sites for a specific catalytic reaction on real catalysts has been achieved for the decomposition of nitrous oxide on Pt catalyst.





Yi Lu, Zhenping Zhu,* Weize Wu and Zhenyu Liu

The detonation of a CHNO explosive was used for the first time to synthesize carbon nanotubes effectively at low pressure and temperature by introducing a cobalt catalyst and/or paraffin into the detonation system.



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Photoassisted NO reduction with NH₃ over TiO₂ photocatalyst

Tsunehiro Tanaka,* Kentaro Teramura, Kyoko Arakaki and Takuzo Funabiki

Photoassisted selective catalytic reduction of NO with ammonia (photo-SCR) at low-temperature over irradiated TiO_2 in a flow reactor was confirmed to proceed efficiently.

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