



The following Communications have been judged by at least two referees to be “very important papers” and will be published online at [www.angewandte.org](http://www.angewandte.org) soon:

D. Kim, E. Kim, J. Kim, K. M. Park, K. Baek, M. Jung, Y. H. Ko, W. Sung, H. S. Kim, J. H. Suh, C. G. Park, O. S. Na, D.-k. Lee, K. E. Lee, S. S. Han, K. Kim\*

**Direct Synthesis of Polymer Nanocapsules with a Noncovalently Tailorable Surface**

T. Tsukahara, A. Hibara, Y. Ikeda, T. Kitamori\*

**NMR Study on Water Confined in Extended Nanospaces**

C. Filser, D. Kowalczyk, C. Jones, M. Wild, U. Ipe, D. Vestweber, H. Kunz\*

**Synthetic Glycopeptides with Varied Sialyl Lewis<sup>x</sup> Structures as Cell-Adhesion Ligands for E-Selectin**

J. Glöckler, S. Klütze, W. Meyer-Zaika, A. Reller, F. J. García-García, H.-H. Strehblow, P. Keller, E. Rentschler, W. Kläui\*

**Towards Nanostructured Water-Soluble and Catalytically Active Rhodium Clusters**

R. Fischer, M. Gärtner, H. Görls, L. Yu, M. Reiher,\* M. Westerhausen\*

**Synthesis and Properties of the THF Solvates of Extremely Soluble Bis(2,4,6-trimethylphenyl)calcium and Tris(2,6-dimethoxyphenyl)dicalcium Iodide**

## News

Organic Chemistry:  
Studer and Toste awarded \_\_\_\_\_ **836**

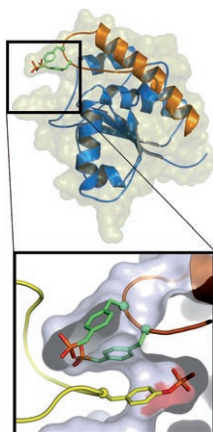
Biological Chemistry:  
Prizes for J. K. Barton \_\_\_\_\_ **822**

## Books

The Emergence of Life \_\_\_\_\_ Pier Luigi Luisi

reviewed by W. Thiemann \_\_\_\_\_ **823**

**Chop and change:** Techniques that combine chemistry and biology for the modification of proteins have proved themselves to be a good means to study protein function. Expressed protein ligation (EPL), with the help of preparative amounts of phospholated tyrosinephosphatases, prenylated variants of Rab-GTPase Ypt1, biochemically characterized the influence of phosphorylation on the function of phosphatases (see picture; blue: phosphatase; orange: synthetic peptide).



## Highlights

### Protein Modification

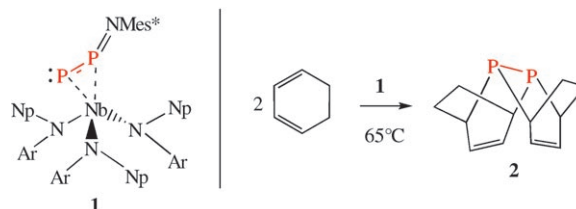
D. Rauh,\* H. Waldmann \_\_\_\_\_ **826–829**

Linking Chemistry and Biology for the Study of Protein Function

## Diphosphorus

L. Weber\* — 830–832

Azide-Analogous Organophosphorus Chemistry:  $\text{RNP}_2$  as a Ligand and  $\text{P}_2$  Source



**A  $\text{P}_2$ -transfer agent:** The niobium complex **1** contains the ligand  $\eta^2\text{-P}=\text{P}=\text{N}-\text{Mes}^*$ , which can be considered as a diphosphorus-substituted organic azide ( $\text{Mes}^* = 2,4,6\text{-}t\text{Bu}_3\text{C}_6\text{H}_2$ ,  $\text{Np} = \text{CH}_2\text{C}(\text{CH}_3)_3$ ,  $\text{Ar} = 3,5\text{-Me}_2\text{C}_6\text{H}_3$ ). The  $\text{P}_2$  unit released upon thermolysis of **1** is cleanly transferred to 1,3-cyclohexadiene, giving the tetracyclic **2**.

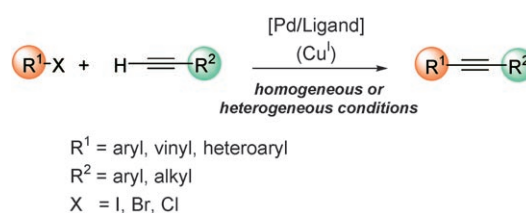
( $\text{CH}_3$ )<sub>3</sub>,  $\text{Ar} = 3,5\text{-Me}_2\text{C}_6\text{H}_3$ ). The  $\text{P}_2$  unit released upon thermolysis of **1** is cleanly transferred to 1,3-cyclohexadiene, giving the tetracyclic **2**.

## Reviews

### C–C Coupling

H. Doucet,\* J.-C. Hierso\* — 834–871

Palladium-Based Catalytic Systems for the Synthesis of Conjugated Enynes by Sonogashira Reactions and Related Alkynylations



**Direct alkynylation** of  $\text{C}(\text{sp}^2)$  halides or corresponding substrates with terminal alkynes, both in homogeneous and heterogeneous phases, can be achieved by the highly efficient palladium catalyst

systems described in this Review. Recycling methods, ligand-free systems, innovative coupling partners, and new activation processes are also discussed.

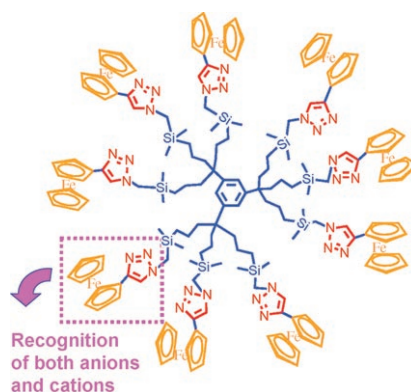
## Communications

### Dendrimer Sensors

C. Ornelas, J. Ruiz Aranzaes, E. Cloutet, S. Alves, D. Astruc\* — 872–877



Click Assembly of 1,2,3-Triazole-Linked Dendrimers, Including Ferrocenyl Dendrimers, Which Sense Both Oxo Anions and Metal Cations



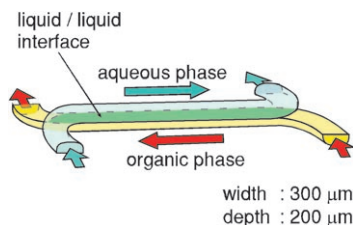
**Clickety click:** Click dendrimers, including the first click metallodendrimers, are synthesized in the presence of a stoichiometric amount of copper(I). The 1,2,3-triazolylderocenyl dendrimers (see picture) are selective electrochemical sensors for both transition-metal cations and oxo anions.

### For the USA and Canada:

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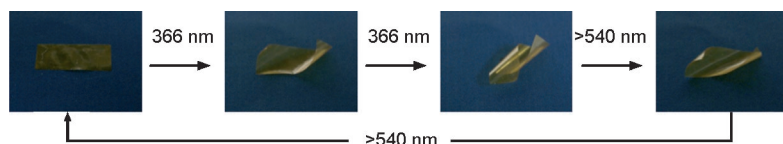


**By modifying the walls** of a glass micro-channel so that one side is hydrophilic and the other hydrophobic, counter-current laminar flow of an organic phase relative to an aqueous phase is effected (see picture). This system is applied to the efficient extraction of a cobalt complex from toluene into water.

## Interfaces

A. Aota, M. Nonaka, A. Hibara, T. Kitamori\* 878–880

Countercurrent Laminar Microflow for Highly Efficient Solvent Extraction



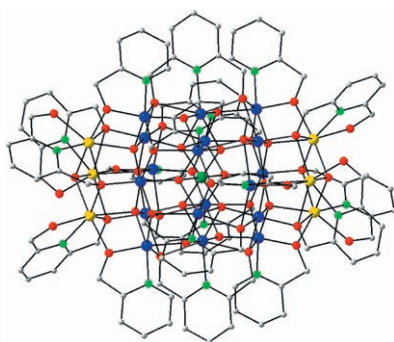
**Bending over backwards:** Ferroelectric liquid-crystalline (LC) elastomer films with a high LC order and low glass transition temperature bend when irradiated with light (see picture). At 366 nm the films bend toward the actinic light

source along the alignment direction of the mesogens, and they recover their initial flat state after exposure to visible light. The mechanical force generated by photoirradiation reaches about 220 kPa.

## Liquid-Crystalline Elastomers

Y. Yu, T. Maeda, J. Mamiya, T. Ikeda\* 881–883

Photomechanical Effects of Ferroelectric Liquid-Crystalline Elastomers Containing Azobenzene Chromophores

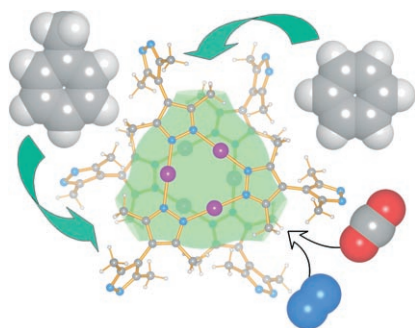


**Spin doctoring:** The already high spin of  $S = 51/2$  of a  $Mn_{25}$  complex has been pushed even higher, by approximately 20%, to  $S = 61/2$  by targeted substitution of the azide ligands with an N,O-chelating group. This significant adjustment, or tweaking, of the spin suggests the general possibility that a given type of complicated, high-nuclearity, high-spin molecule can exhibit differing ground states by appropriate modification of the peripheral ligation.

## High-Spin Molecules

T. C. Stamatatos, K. A. Abboud, W. Wernsdorfer, G. Christou\* 884–888

“Spin Tweaking” of a High-Spin Molecule: An  $Mn_{25}$  Single-Molecule Magnet with an  $S = 61/2$  Ground State



**Smart pores:** A 3D coordination polymer  $[Ag_2(Me_4bpz)]$  ( $H_2Me_4bpz = 3,3',5,5'$ -tetramethyl-4,4'-bipyrazole) can not only reversibly adsorb and desorb  $CO_2$  and  $N_2$  (see picture: Ag pink, C gray, O red, N blue) but also benzene and toluene despite its aperture being too small for these molecules. The host framework simultaneously expands some cavities and shrinks others to accommodate different aggregates of the arene molecules.

## Microporous Materials

J.-P. Zhang, S. Horike, S. Kitagawa\* 889–892

A Flexible Porous Coordination Polymer Functionalized by Unsaturated Metal Clusters

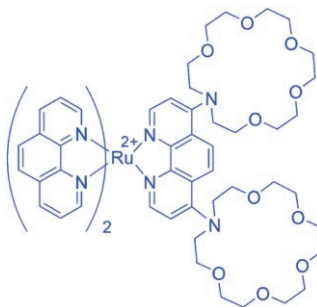


## Multi-Ion Analysis

M. Schmittle,\* H.-W. Lin — 893–896



Quadruple-Channel Sensing: A Molecular Sensor with a Single Type of Receptor Site for Selective and Quantitative Multi-Ion Analysis



**All together now:** A “lab on a molecule” for selective and quantitative multi-ion analysis was established. The ruthenium complex, which contains only a single type of recognition site, is a chemosensor for  $\text{Pb}^{2+}$ ,  $\text{Hg}^{2+}$ , and  $\text{Cu}^{2+}$  ions by using quadruple-channel detection (UV/Vis, luminescence, electrogenerated chemiluminescence, and cyclic voltammetry).

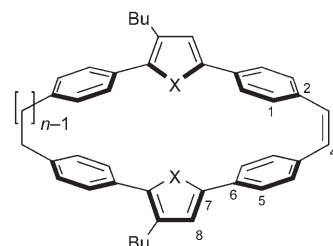
## Nonlinear Optics

H.-C. Lin, W.-Y. Lin, H.-T. Bai, J.-H. Chen, B.-Y. Jin, T.-Y. Luh\* — 897–900



A Bridging Double Bond as an Electron Acceptor for Optical Nonlinearity of Furan-Containing  $[n.2]$ Cyclophenes

**All in the twist:** Unusually large Stokes shifts and nonlinear optical properties are exhibited by furan-containing teraryl cyclophene derivatives (see picture). These cyclophenes have neither particularly strong electron-donating nor electron-withdrawing groups and have low polarity. DFT calculations have shown that the unusual photophysical properties are dictated by twisted  $\pi$  systems in the teraryl systems and the bridging double bond.



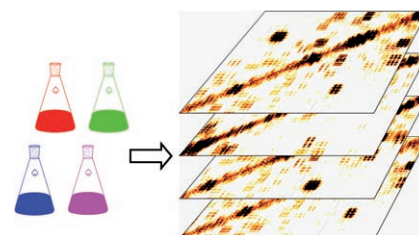
## NMR Spectroscopy

F. C. Schroeder,\* D. M. Gibson, A. C. L. Churchill, P. Sojikul, E. J. Würsthorst, S. B. Krasnoff, J. Clardy — 901–904



Differential Analysis of 2D NMR Spectra: New Natural Products from a Pilot-Scale Fungal Extract Library

**A 3D look at 2D spectra:** Two previously unreported indole alkaloids could be rapidly identified from a library of unfractionated fungal extracts by using a newly developed protocol for the differential analysis of arrays of 2D NMR spectra (see picture). The technique thus represents an effective tool for the non-discriminatory characterization of secondary-metabolite mixtures.

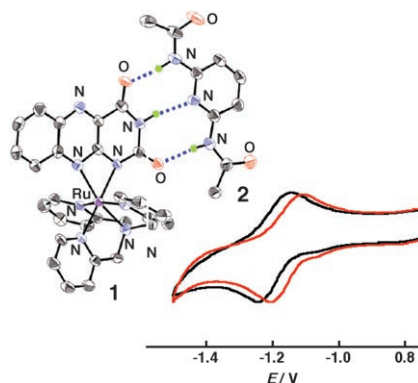


## Coordination Modes

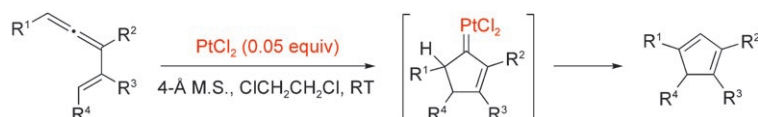
S. Miyazaki, K. Ohkubo, T. Kojima,\* S. Fukuzumi\* — 905–908



Modulation of Characteristics of a Ruthenium-Coordinated Flavin Analogue That Shows an Unusual Coordination Mode



**Hallo–hallo–!** A ruthenium(II) complex (1) with the flavin analogue alloxazine ( $\text{H}_2\text{allo}$ ) has revealed that the ligand anion ( $\text{Hallo}^-$ ) forms a four-membered chelate ring. This unprecedented coordination mode of Hallo allows it to form hydrogen bonds with a complementary receptor (e.g. 2), allowing the effects of hydrogen bonding on the redox behavior and electronic structure of a ruthenium-bound Hallo radical to be studied.



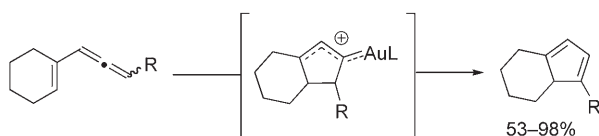
**A pinch of platinum...** Platinum(II)-catalyzed cyclization of 1,2,4-trienes proceeds under mild conditions to give well-defined, highly substituted cyclopenta-

dienes in good yield. The reaction was confirmed to proceed through  $\alpha,\beta$ -unsaturated platinum-carbene complex intermediates (see scheme).

### Cyclopentadiene Synthesis (1)

H. Funami, H. Kusama,  
N. Iwasawa\* \_\_\_\_\_ **909–911**

Preparation of Substituted  
Cyclopentadienes through Platinum(II)-  
Catalyzed Cyclization of 1,2,4-Trienes



**... or a touch of gold:** Electrocyclization of the pentadienyl cation produced on coordination of cationic phosphinegold(I) to vinyl allenes results in the regioselective formation of highly functionalized cyclo-

pentadienes. The regioselectivity of the reaction is consistent with an intramolecular 1,2-hydrogen shift of a gold(I)-carbenoid intermediate (see scheme).

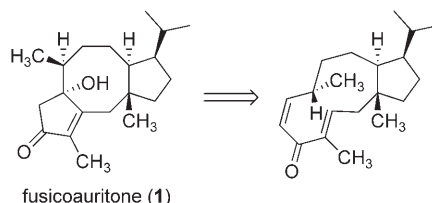
### Cyclopentadiene Synthesis (2)

J. H. Lee, F. D. Toste\* \_\_\_\_\_ **912–914**

Gold(I)-Catalyzed Synthesis of  
Functionalized Cyclopentadienes



**Attaining closure:** A synthetic pathway leading to (+)-fusicoauritone (**1**) is highlighted by the use of a Julia condensation for preparation of an eleven-membered-dolabelladienone precursor for subsequent Nazarov cyclization to yield the 5-8-5 tricyclic diterpene skeleton.



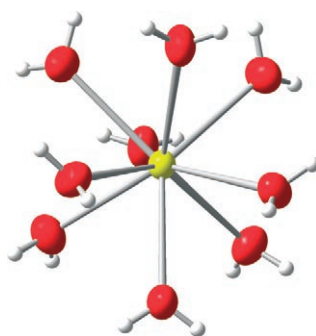
### Diterpene Total Synthesis

D. R. Williams,\* L. A. Robinson,  
C. R. Nevill, J. P. Reddy \_\_\_\_\_ **915–918**

Strategies for the Synthesis of  
Fusicoanones by Nazarov Reactions of  
Dolabelladienones: Total Synthesis of  
(+)-Fusicoauritone



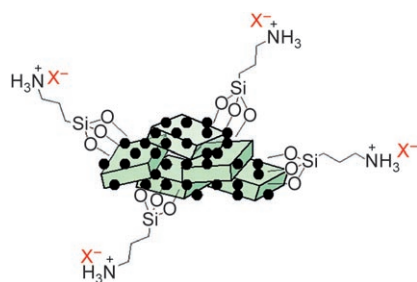
**Stable nine-coordination:** X-ray diffraction reveals highly symmetrical  $[M(H_2O)_9]^{3+}$  entities for the actinides americium and curium in single crystals of their triflate salts (see picture, yellow M, red O). Comparison of absorption spectra in solution confirm that these transplutonium ions are large enough to remain ninefold coordinated also in aqueous solution.



### Transplutonium Chemistry

P. Lindqvist-Reis,\* C. Apostolidis,  
J. Rebizant, A. Morgenstern, R. Klenze,  
O. Walter, T. Fanghänel,  
R. G. Haire \_\_\_\_\_ **919–922**

The Structures and Optical Spectra of  
Hydrated Transplutonium Ions in the  
Solid State and in Solution



**Hybrid compounds** that are electrical conductors and can recognize ions are prepared from a carbohydrate (sucrose) and a fibrous magnesium silicate (sepiolite). Microwave and conventional heating convert these starting materials into carbonaceous nanocomposites, which can be functionalized by treatment with organosilanes, such as (3-aminopropyl)trimethoxysilane (see picture).

### Sensors

A. Gómez-Avilés, M. Darder, P. Aranda,  
E. Ruiz-Hitzky\* \_\_\_\_\_ **923–925**

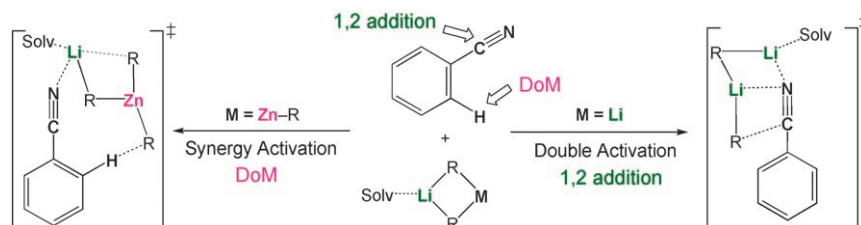
Functionalized Carbon-Silicates from  
Caramel-Sepiolite Nanocomposites

## Mechanistic Studies

M. Uchiyama,\* Y. Matsumoto, S. Usui,  
Y. Hashimoto, K. Morokuma\* **926–929**



Origin of Chemoselectivity of TMP  
Zincate Bases and Differences between  
TMP Zincate and Alkyl Lithium Reagents:  
A DFT Study on Model Systems



**Transition-state structures** of the type illustrated were found to be crucial in determining whether directed *ortho*-metalation (DoM) or 1,2-addition occurs in the reaction of benzonitrile or methyl

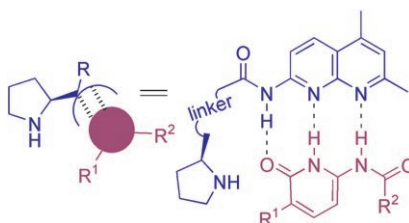
benzoate with  $\text{Me}_2\text{Zn}(\text{TMP})\text{Li}$  or  $(\text{MeLi})_2$ . The origin of the high chemoselectivity of the reaction was investigated. TMP = 2,2,6,6-tetramethylpiperidine.

## Homogeneous Catalysis

M. L. Clarke,\* J. A. Fuentes — **930–933**



Self-Assembly of Organocatalysts:  
Fine-Tuning Organocatalytic Reactions



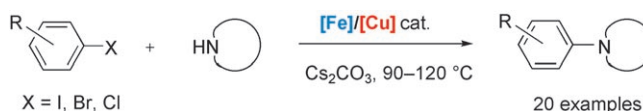
**A cat. with two tales:** Hydrogen-bonding interactions between achiral pyridinone additives and unselective chiral proline-derived organocatalysts (see picture) result in highly effective catalysts for the Michael addition of nitroalkenes to ketones. In the absence of an additive the reaction is unselective and the product is obtained in about 15 % *ee*, while the same product is obtained with up to 94 % *ee* in the presence of an additive.

## C–N Coupling

M. Taillefer,\* N. Xia, A. Ouali **934–936**



Efficient Iron/Copper Co-Catalyzed  
Arylation of Nitrogen Nucleophiles



**An ideal pair:** Various substituted aryl halides react under mild conditions with nitrogen heterocycles in the presence of catalytic amounts of  $[\text{Fe}(\text{acac})_3]$  (acac = acetylacetonate) and copper salts to give the corresponding cross-coupling pro-

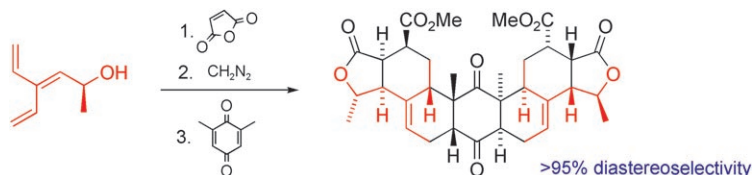
ducts in high yields (see scheme). This cheap and environmentally friendly co-catalyst system is the first example of cooperative Fe/Cu catalysis in this type of N–C bond formation.

## Fused-Ring Systems

N. A. Miller, A. C. Willis,  
M. N. Paddon-Row,  
M. S. Sherburn\* **937–940**

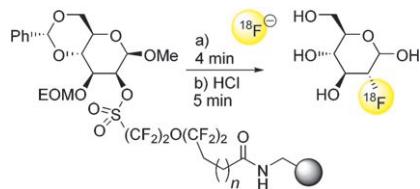


Chiral Dendralenes for Rapid Access to  
Enantiomerically Pure Polycycles



**On a short fuse:** Highly stereoselective and atom-efficient domino Diels–Alder/lactonization/Diels–Alder sequences can be carried out using simple chiral [3]dendralenes to form fused-ring systems. This short and general approach to cross-

conjugated systems promotes the rapid assembly of enantiomerically pure polycyclic ring systems common to biologically interesting terpenoids with virtually complete stereocontrol (see scheme).

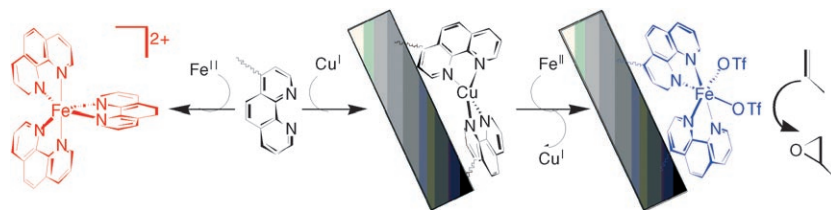


**Scintillating synthesis:**  $^{18}\text{F}$ -Containing radiopharmaceuticals can be prepared by using  $^{18}\text{F}$ fluoride ions to displace a sulfonate linker and release a radiotracer from a solid support (see scheme; EOM = ethoxymethyl). The method has allowed the synthesis of the widely used imaging agent [ $^{18}\text{F}$ ]fluoro-2-deoxy-D-glucose in good radiochemical yield and with high chemical purity.

### Synthetic Methods

L. J. Brown, D. R. Bouvet, S. Champion, A. M. Gibson, Y. Hu, A. Jackson, I. Khan, N. Ma, N. Millot, H. Wadsworth, R. C. D. Brown\* \_\_\_\_\_ **941–944**

A Solid-Phase Route to  $^{18}\text{F}$ -Labeled Tracers, Exemplified by the Synthesis of [ $^{18}\text{F}$ ]2-Fluoro-2-deoxy-D-glucose



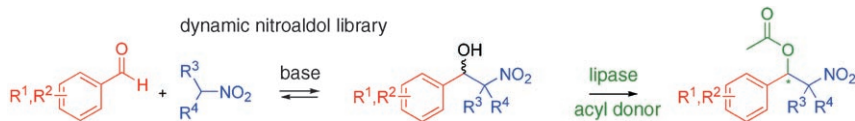
**Teaching an old ligand new tricks:** Attachment of a  $\text{Cu}^{\text{I}}$ -bis(phenanthroline) complex to mesoporous silica and metal exchange create site-isolated  $\text{Fe}^{\text{II}}$ -bis(phenanthroline) complexes which

efficiently epoxidize terminal olefins with peracetic acid (see scheme). This strategy side-steps the formation of a  $\text{Fe}^{\text{II}}$ -tris(phenanthroline) complex, which predominates in solution.

### Heterogeneous Oxidation Catalysis

T. J. Terry, G. Dubois, A. Murphy, T. D. P. Stack\* \_\_\_\_\_ **945–947**

Site Isolation and Epoxidation Reactivity of a Templated Ferrous Bis(phenanthroline) Site in Porous Silica



**A disturbance in the library:** The nitroaldol (Henry) reaction was developed as an efficient C–C bond-forming route to dynamic combinatorial libraries (DCLs). These DCLs generated under thermodynamic control were coupled in a one-pot

process with kinetically controlled lipase-mediated transesterification (see scheme). The asymmetric resolution of the DCLs by the enzyme led to enantiomerically pure  $\beta$ -nitroacetates in high yield.

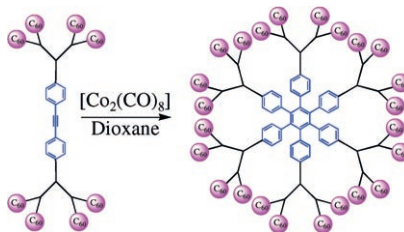
### Dynamic Chemistry

P. Vongvilai, M. Angelin, R. Larsson, O. Ramström\* \_\_\_\_\_ **948–950**

Dynamic Combinatorial Resolution: Direct Asymmetric Lipase-Mediated Screening of a Dynamic Nitroaldol Library



**A lot of balls:** Up to 24  $\text{C}_{60}$  units were assembled around a hexaphenylbenzene core by cobalt-catalyzed cyclotrimerization of bis(aryl)alkyne fullerodendrimers (see scheme). Electrochemical investigations reveal that interactions between  $\text{C}_{60}$  units within a single dendrimer molecule are extremely efficient.



### Fullerenes

U. Hahn, E. Maisonhaute, C. Amatore,\* J.-F. Nierengarten\* \_\_\_\_\_ **951–954**

Synthesis and Electrochemical Properties of Fullerene-Rich Nanoclusters Synthesized by Cobalt-Catalyzed Cyclotrimerization of Bis(aryl)alkyne Fullerodendrimers



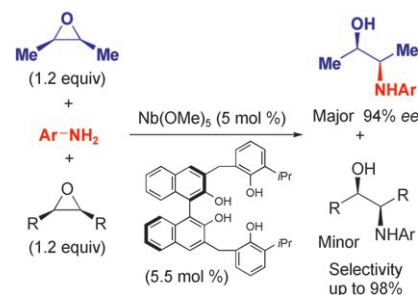
## Asymmetric Catalysis

K. Arai, M. M. Salter, Y. Yamashita,  
S. Kobayashi\* 955–957



Enantioselective Desymmetrization of *meso* Epoxides with Anilines Catalyzed by a Niobium Complex of a Chiral Multidentate Binol Derivative

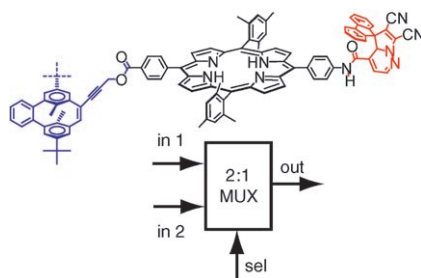
**Molecular recognition** in the desymmetrization of *meso* epoxides with anilines is displayed by a Lewis acid catalyst formed from niobium(V) methoxide and a novel tetradentate binol derivative. The catalyst has a remarkable ability to distinguish between different *meso* epoxides (see scheme) and also efficiently mediates the ring opening of unsymmetrically disubstituted epoxides with high chemo- and stereoselectivity.



## Molecular Electronics

J. Andréasson,\* S. D. Straight,  
S. Bandyopadhyay, R. H. Mitchell,  
T. A. Moore,\* A. L. Moore,\*  
D. Gust\* 958–961

Molecular 2:1 Digital Multiplexer



**Two into one:** A porphyrin linked to two photochromic moieties performs as a 2:1 digital multiplexer (MUX). It takes heat and red light as the two inputs (in 1 and in 2), and a third switchable input (green light, sel) selects whether the output (porphyrin fluorescence) reports the state of in 1 or in 2. Each photochromic moiety may be independently photoisomerized to isomers that quench the porphyrin fluorescence.

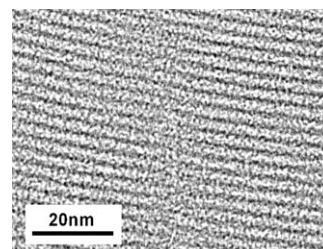
## Peptide Enrichment

R. Tian, H. Zhang, M. Ye, X. Jiang, L. Hu,  
X. Li, X. Bao, H. Zou\* 962–965



Selective Extraction of Peptides from Human Plasma by Highly Ordered Mesoporous Silica Particles for Peptidome Analysis

**Pores for effect:** Silica particles with a pore size of 20.5 Å (see TEM image) are effective for enriching peptides in human plasma over a wide range of molecular weights from 1 to 12 kDa, while repelling most other plasma proteins outside. The pore structure of the material makes it superior for peptide enrichment compared to adsorbent- and ultrafiltration-based methods.

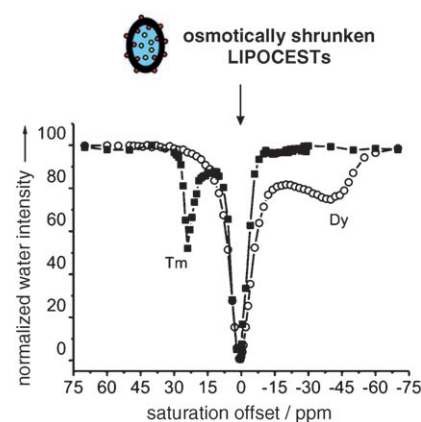


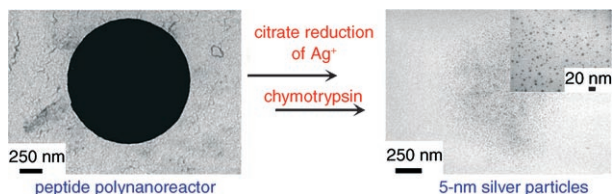
## Magnetic Resonance Imaging

E. Terreno, C. Cabella, C. Carrera,  
D. Delli Castelli, R. Mazzon, S. Rollet,  
J. Stancanella, M. Visigalli,  
S. Aime\* 966–968

From Spherical to Osmotically Shrunk Paramagnetic Liposomes: An Improved Generation of LIPOCEST MRI Agents with Highly Shifted Water Protons

**Honey, I shrunk the ...** The chemical shift of intraliposomal water protons of LIPOCEST MRI agents may be enhanced by exploiting a contribution arising from bulk magnetic susceptibility. The effect was attained by osmotically shrinking liposomes to attain nonspherical compartments, with the largest shifts observed for systems containing paramagnetic Tm or Dy complexes either entrapped in the inner cavity or incorporated in the liposome membrane (see picture).





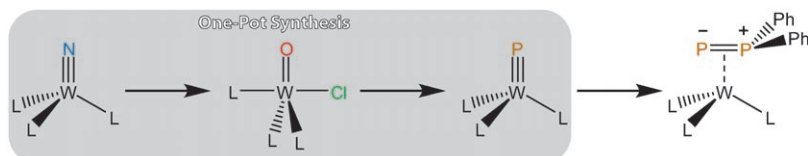
**What goes on within:** A mesoscopic nanoporous dendrimer-like assembly of peptides hosts numerous nanometer-sized cavities that function as encapsulating sites. As an example, the assembly

amplifies a single silver nanoparticle into many discrete nanoparticles of uniform size, and thus it acts as a polynanoreactor (see picture).

## Nanoreactors

M. G. Ryadnov\* \_\_\_\_\_ 969–972

A Self-Assembling Peptide Polynanoreactor



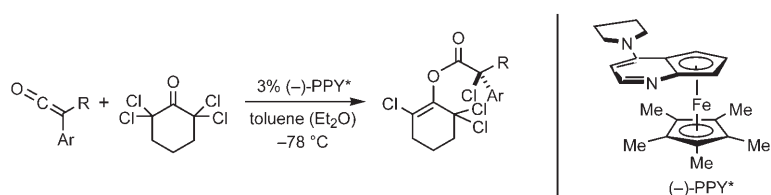
**Ligands lost, ligands gained:** A terminal tungsten nitride is converted into the corresponding terminal tungsten phosphide by a one-pot sequence of atom-transfer reactions (see scheme). The

phosphide complex is subsequently functionalized by treatment with a phosphorus-based electrophile. The resulting phosphorus-rich complex displays P–P multiple-bonding character.

## Terminal Phosphide Complexes

A. R. Fox, C. R. Clough, N. A. Piro, C. C. Cummins\* \_\_\_\_\_ 973–976

A Terminal Nitride-to-Phosphide Conversion Sequence Followed by Tungsten Phosphide Functionalization Using a Diphenylphosphonium Synthon



**Ketenes** are coupled with 2,2,6,6-tetrachlorocyclohexanone in a catalytic asymmetric method for the synthesis of tertiary  $\alpha$ -chloroesters (see scheme). This com-

plements recent progress in the generation of secondary  $\alpha$ -halocarbonyl compounds.

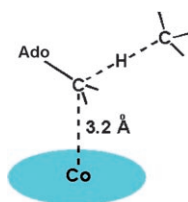
## Asymmetric Chlorination

E. C. Lee, K. M. McCauley, G. C. Fu\* \_\_\_\_\_ 977–979

Catalytic Asymmetric Synthesis of Tertiary Alkyl Chlorides



**To conduct a concert** of Co–C bond cleavage and subsequent H-atom abstraction may be the role of cob(II)alamin in coenzyme B<sub>12</sub> dependent mutases (see picture, Ado = adenosyl). Evidence is presented on the basis of DFT analysis that these reactions are concerted and that the radicals generated during the catalytic process are stabilized by the presence of corrin.



## Enzyme Mechanisms

P. M. Kozlowski,\* T. Kamachi, T. Toraya, K. Yoshizawa\* \_\_\_\_\_ 980–983

Does Cob(II)alamin Act as a Conductor in Coenzyme B<sub>12</sub> Dependent Mutases?



Supporting information is available on the WWW (see article for access details).



A video clip is available as Supporting Information on the WWW (see article for access details).

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