



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:

J. Masuda, W. Schoeller, B. Donnadieu, G. Bertrand\*  
**Carbene Activation of P<sub>4</sub> and Subsequent Derivatization**

K. Moehle, Z. Athanassiou, K. Patora, A. Davidson, G. Varani,\*  
J. Robinson\*  
**Design of  $\beta$ -Hairpin Peptidomimetics That Inhibit Binding of  $\alpha$ -Helical HIV-1 Rev Protein to the Rev Response Element RNA**

P. Chase, G. Welch, T. Jurca, D. Stephan\*  
**Metal-Free Catalytic Hydrogenations**

J. Teprovich, Jr., M. Balili, T. Pintauer, R. Flowers II\*  
**Mechanistic Studies of Proton-Donor Coordination to Samarium Diiodide**

E. Hadley, A. Witek, F. Freire, A. Peoples, S. Gellman\*  
**Thermodynamic Analysis of a  $\beta$ -Sheet Secondary Structure By Backbone Thioester Exchange**

G. Veitch, E. Beckmann, B. Burke, A. Boyer, S. Maslen, S. Ley\*  
**The Synthesis of Azadiractin: A Long But Successful Journey**

## Obituary

Ernst Otto Fischer (1918–2007)

W. A. Herrmann \_\_\_\_\_ 6578

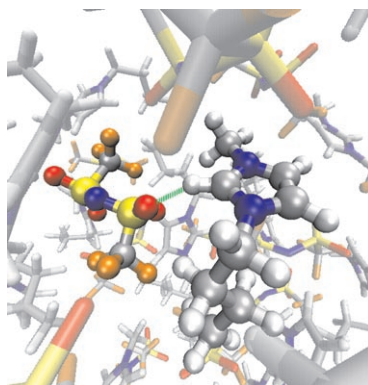
## Books

Frontiers in Transition Metal-Containing  
Polymers

Alaa S. Abd-el-Aziz, Ian Manners

reviewed by F. Jäkle \_\_\_\_\_ 6579

**The volatile nature of ionic liquids:** Ionic liquids are recognized as “green” solvents because of their essentially null volatility. Ironically, it is the low vapor pressure, the large enthalpy of vaporization, and the high boiling point of ionic liquids that make it difficult to study their macroscopic behavior at a molecular level. Recent studies, however, have shed light on their thermochemical properties (picture: snapshot of an ionic liquid from molecular dynamics simulations).

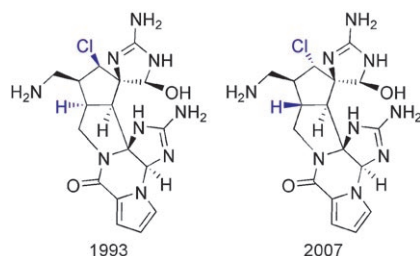


## Highlights

### Ionic Liquids

R. Ludwig,\* U. Kragl\* \_\_\_\_\_ 6582–6584

Do We Understand the Volatility of Ionic Liquids?



**The plot thickens** in the story of the pyrrole–imidazole alkaloid family, specifically for the members related to palau'-amine. The recent structural reassignment of palau'amine suggests a unified biosynthetic pathway. The background to the reassignment and the ramifications of this discovery to the biosynthesis and total synthesis of the pyrrole–imidazole alkaloids are discussed in this Minireview.

## Minireviews

### Marine Natural Products

M. Köck,\* A. Grube, I. B. Seiple,  
P. S. Baran\* \_\_\_\_\_ 6586–6594

The Pursuit of Palau'amine

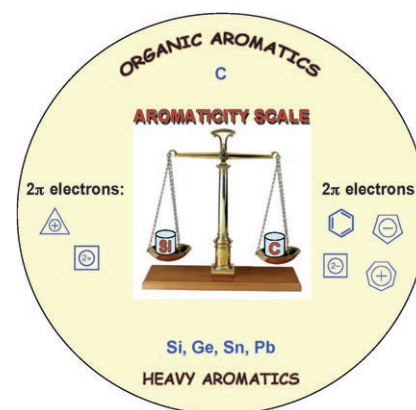
## Reviews

### Aromaticity

V. Ya. Lee, A. Sekiguchi\* — 6596–6620

Aromaticity of Group 14 Organometallics: Experimental Aspects

**Aromatic heavyweights:** In this Review the latest experimental accomplishments and relevant theoretical contributions in the field of aromatic compounds of the heavier Group 14 elements are discussed. Particular attention is focused on charged arenes with two or six  $\pi$  electrons, derivatives of the cyclopropenyl, cyclopentadienyl, and cycloheptatrienyl ions and cyclobutadiene dianion, and their application as ligands.



## Communications



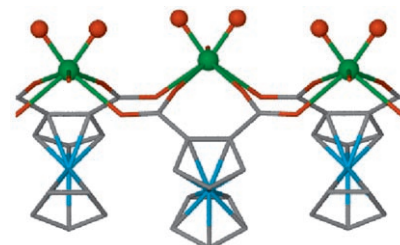
### Actinides

A. E. Vaughn, C. L. Barnes,  
P. B. Duval\* — 6622–6625



A *cis*-Dioxido Uranyl: Fluxional Carboxylate Activation from a Reversible Coordination Polymer

**Big bend:** An air-stable carboxylate-bridged uranium(VI) coordination polymer that possesses a terminal *cis*-dioxido unit has been prepared. The polymer is reversibly soluble and undergoes fluxional behavior that involves a concerted carboxylate-ligand activation. Steric pressure from this fluxional process probably accounts for this unprecedented dioxido geometry in actinyl chemistry.



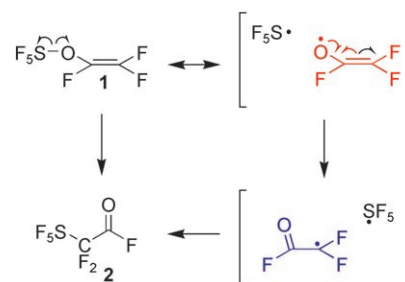
### Fluorine Chemistry

L. Du, B. Elliott, L. Echegoyen,  
D. D. DesMarteau\* — 6626–6628



Synthesis of Pentafluorosulfanyl Trifluorovinyl Ether and Its Facile Rearrangement to Difluoro(pentafluoro-sulfanyl)acetyl Fluoride

**A radical departure:** A novel fluorinated vinyl ether **1** was synthesized and was found to undergo an unexpected facile rearrangement to give compound **2**, which was confirmed to be a radical process by EPR spectroscopy.



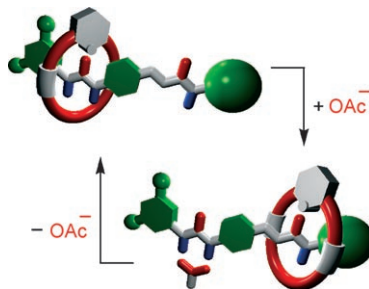
### For the USA and Canada:

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electronic / print or electronic delivery); for individuals who are personal members of a national chemical society prices are available on request. Postage and handling charges included. All prices are subject to local VAT/sales tax.

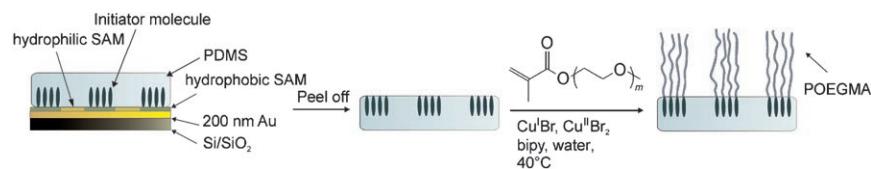
**Vying for urea:** The translational isomerism of a neutral [2]rotaxane can be controlled in solution through the addition and removal of acetate anions. In the absence of acetate ions, the macrocyclic host recognizes a diphenylurea derivative; recognition of acetate ions by the urea-based station causes relocation of the macrocycle to another binding site (see picture).



### Rotaxanes

Y.-L. Huang, W.-C. Hung, C.-C. Lai,  
Y.-H. Liu, S.-M. Peng,  
S.-H. Chiu\* ————— 6629 – 6633

Using Acetate Anions To Induce  
Translational Isomerization in a Neutral  
Urea-Based Molecular Switch



**Brushing the surface:** The surface of a silicone elastomer (poly(dimethylsiloxane); PDMS) can be selectively modified through minimization of interfacial free energy and self-assembly of functional molecules at the surface by mirror-

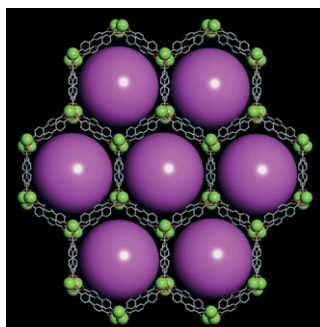
ing the distribution of template surface energies (see scheme for formation of POEGMA brushes; SAM = self-assembled monolayer, bipy = 2,2'-bipyridyl, POEGMA = poly[oligo(ethylene glycol) methacrylate]).

### Chemical Micropatterning

M. L. van Poll, F. Zhou, M. Ramstedt,  
L. Hu, W. T. S. Huck\* ————— 6634 – 6637

A Self-Assembly Approach to Chemical  
Micropatterning of Poly(dimethylsiloxane)

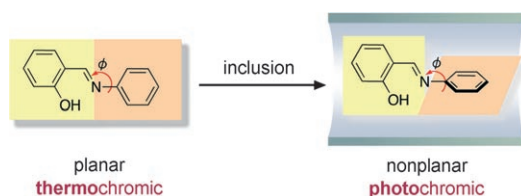
**More holes than Swiss cheese:** A new MOF with the largest reported 1D hexagonal nanotube-like channels of 24.5 Å × 27.9 Å and rare etb topology has been synthesized (see picture). It exhibits good fluorescence properties and substantial hydrogen uptake. For the first time, the compound was assembled with Rh6G dye molecules, and the product showed favorable temperature-dependent luminescent properties.



### Porous Materials

Q. R. Fang, G. S. Zhu,\* Z. Jin, Y. Y. Ji,  
J. W. Ye, M. Xue, H. Yang, Y. Wang,  
S. L. Qiu\* ————— 6638 – 6642

Mesoporous Metal–Organic Framework  
with Rare etb Topology for Hydrogen  
Storage and Dye Assembly



**Insert and twist:** By inclusion in the channel of a porous coordination network, an otherwise thermochromic salicylideneaniline derivative becomes photochromic because its intrinsic planar conformation

is transformed into a nonplanar one. The photochromic properties of the nonplanar guest molecule can be tuned by changing the co-included solvent in the channel.

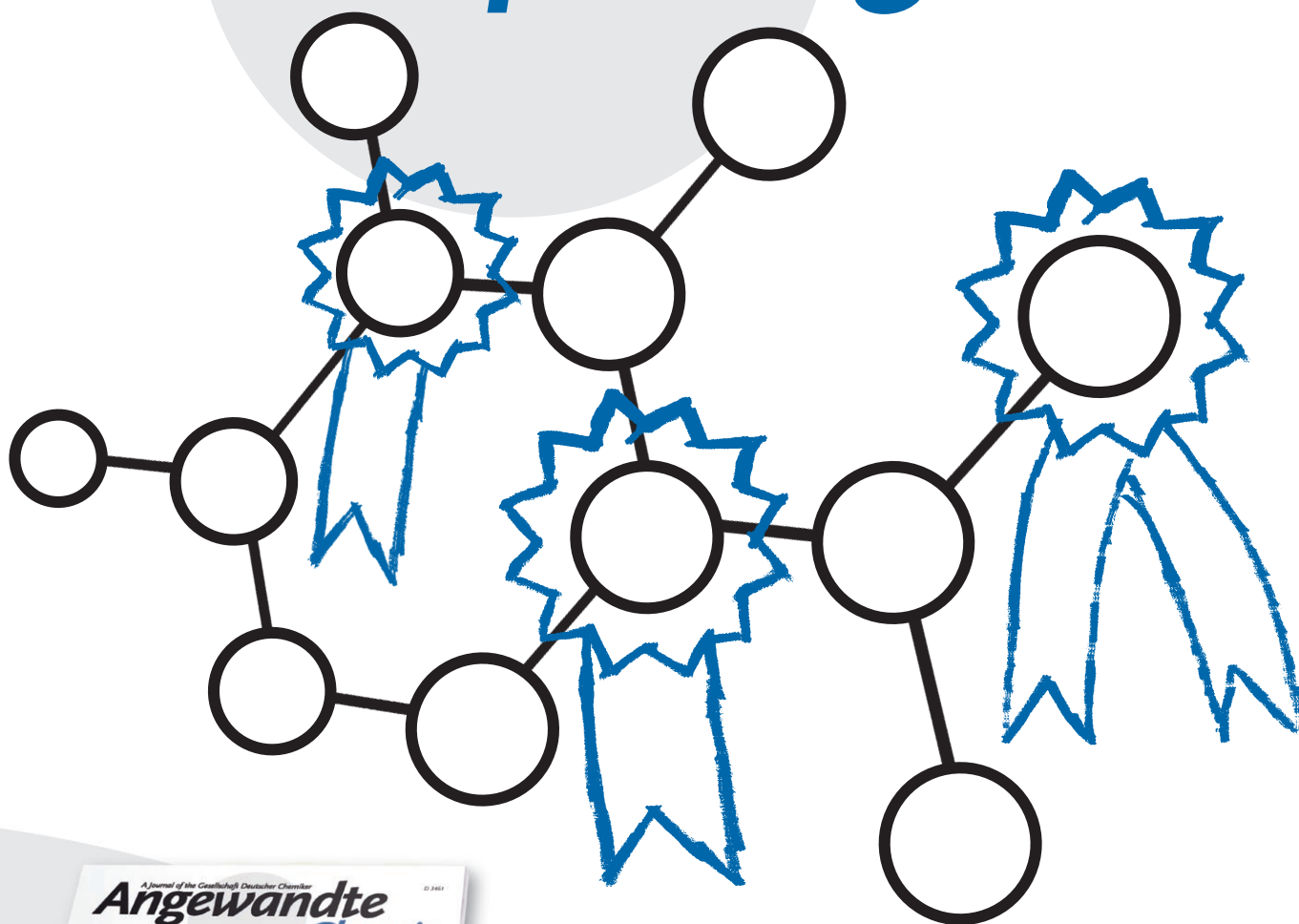
### Porous Networks

T. Haneda, M. Kawano,\* T. Kojima,  
M. Fujita\* ————— 6643 – 6645

Thermo-to-Photo-Switching of the  
Chromic Behavior of Salicylideneanilines  
by Inclusion in a Porous Coordination  
Network



# Incredibly prestigious!



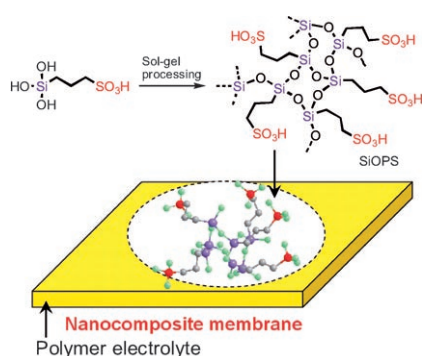
*Angewandte Chemie* is simply the best! With an Impact Factor of 10.232 (2006), *Angewandte Chemie* is considerably ahead of comparable journals. Such a high value is predominantly a reflection of the high quality of our Communications. The Reviews in *Angewandte Chemie* are unquestionably among the most important articles in their fields, however their contribution to the Impact Factor is much less significant than people tend to assert.



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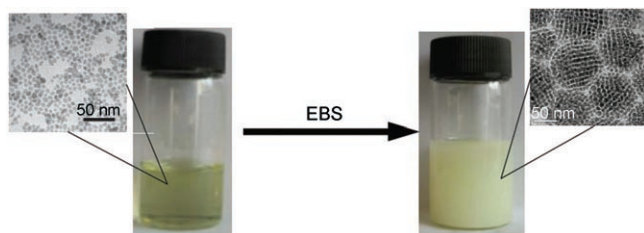


**In the membrane:** A simple but effective approach to improving the conducting properties of polymer electrolyte membranes has been developed by incorporating acid-functionalized polysilsesquioxane (SiOPS). The nanocomposite membranes showed 30 times higher proton conductivity than that of the original membrane and may find application in sensors, batteries, and most likely fuel cells.

### Conductive Membranes

K. Miyatake, T. Tombe, Y. Chikashige, H. Uchida, M. Watanabe\* — 6646–6649

Enhanced Proton Conduction in Polymer Electrolyte Membranes with Acid-Functionalized Polysilsesquioxane



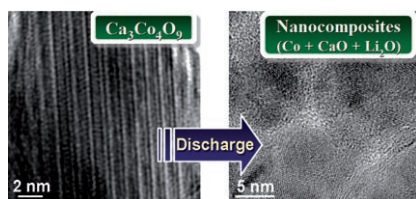
**Well-rounded:** Water-dispersed colloidal spheres that are self-assembled from nanocrystals with different size, shape, composition, and surface ligand were prepared through a versatile emulsion-based self-assembly (EBS) approach.

Through this emulsification process, a dispersion of BaCrO<sub>4</sub> nanocrystals in cyclohexane (see picture, left) can be transformed into a dispersion of colloidal spheres of BaCrO<sub>4</sub> (see picture, right).

### Colloidal Spheres

F. Bai, D. Wang, Z. Huo, W. Chen, L. Liu, X. Liang, C. Chen, X. Wang, Q. Peng, Y. Li\* — 6650–6653

A Versatile Bottom-up Assembly Approach to Colloidal Spheres from Nanocrystals

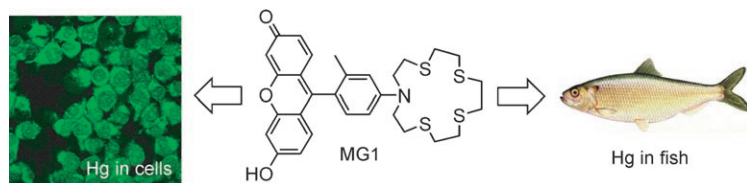


**A new electrode material** that is expected to have promising applications in energy storage and energy-harvesting systems is presented. In this material, which consists of Ca<sub>3</sub>Co<sub>4</sub>O<sub>9</sub> nanoplates with a high theoretical gravimetric capacity, the lithium-driven conversion process results in the formation of active/inactive nanocomposite electrodes that mitigate the aggregation of the active nanometals (see picture).

### Lithium-Ion Batteries

D.-W. Kim,\* Y.-D. Ko, J.-G. Park, B.-K. Kim — 6654–6657

Formation of Lithium-Driven Active/Inactive Nanocomposite Electrodes Based on Ca<sub>3</sub>Co<sub>4</sub>O<sub>9</sub> Nanoplates



**A bright idea:** By restricting the rotation between receptor and reporter units of the fluorescent chemosensor Mercury Green 1 (MG1), a remarkably high quantum efficiency is achieved in its Hg<sup>2+</sup>-ion-

bound form in water ( $\Phi=0.72$ ). MG1 is specific to environmentally and biologically relevant mercury levels (ppm to ppb range), and can assay levels of Hg<sup>2+</sup> ion in living cells and in edible fish.

### Mercury Detection

S. Yoon, E. W. Miller, Q. He, P. H. Do, C. J. Chang\* — 6658–6661

A Bright and Specific Fluorescent Sensor for Mercury in Water, Cells, and Tissue



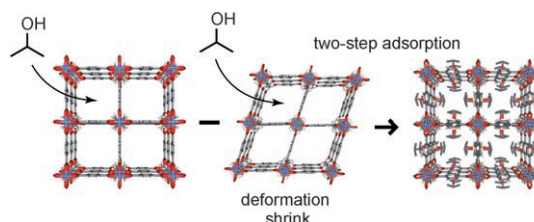


## Coordination Polymers

K. Uemura,\* Y. Yamasaki, Y. Komagawa,  
K. Tanaka, H. Kita — 6662–6665



Two-Step Adsorption/Desorption on a  
Jungle-Gym-Type Porous Coordination  
Polymer



**Flexible frameworks:** Unique two-step  
isotherms were observed for the adsorp-  
tion/desorption of propan-2-ol on  
[ $\{Zn_2(1,4\text{-benzenedicarboxylate})_2(1,4\text{-}$   
diazabicyclo[2.2.2]octane) $\}_n$ ] with hydro-

phobic open spaces. The isotherms were  
characterized by means of thermal analy-  
sis and single-crystal X-ray diffraction (see  
picture).

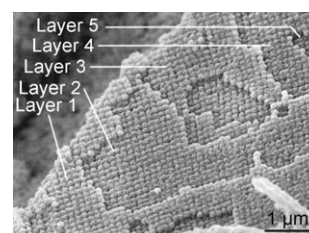
## Nanostructure Transformation

F. Li, S. A. Delo, A. Stein\* — 6666–6669



Disassembly and Self-Reassembly in  
Periodic Nanostructures: A Face-  
Centered-to-Simple-Cubic Transformation

**Cube it:** Ordered three-dimensional arrays  
of nanocubes with an unusual simple-  
cubic packing geometry are formed when  
a  $TiO_2\text{-}P_2O_5$  inverse opal structure disas-  
sembles and self-reassembles during a  
synthesis involving a face-centered-cubic  
colloidal crystal template. In this way, it  
may be possible to alter nanoparticle  
shapes and achieve more-complex geo-  
metries in colloidal crystal systems.

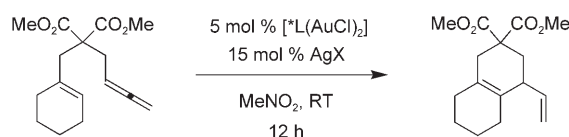


## Gold Catalysis

M. A. Tarselli, A. R. Chianese, S. J. Lee,  
M. R. Gagné\* — 6670–6673



Gold(I)-Catalyzed Asymmetric  
Cycloisomerization of Eneallenes into  
Vinylcyclohexenes



**Coming around:** Cycloisomerization of  
eneallenes by cationic gold(I) catalysts  
produces vinylcyclohexene derivatives in  
up to 77% *ee*, using [3,5-xylyl-binap-  
(AuCl) $_2$ ] and AgOTf additive (see scheme;

3,5-xylyl-binap = 2,2'-bis(di(3,5-xylyl)phos-  
phino)-1,1'-binaphthyl). The procedure is  
amenable to the synthesis of mono- and  
bicyclic products and is tolerant of ester,  
alcohol, and amide groups.

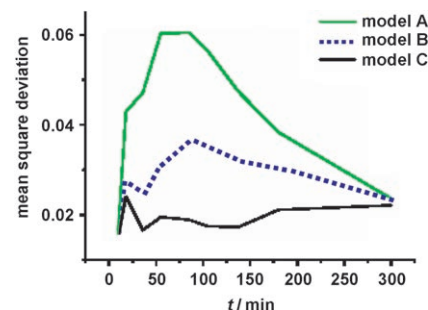
## Silicates

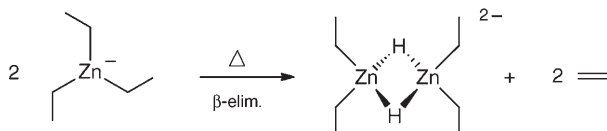
S. A. Pelster, B. Weimann, B. B. Schaack,  
W. Schrader, F. Schüth\* — 6674–6677



Dynamics of Silicate Species in Solution  
Studied by Mass Spectrometry with  
Isotopically Labeled Compounds

**Concerted exchange** of four and three Si  
atoms is respectively responsible for  
interconversion of cubic octameric (pic-  
ture: quality of a fit for single- (A), two-  
(B), and four-atom exchange (C); C fits  
the experimental pattern best) and pris-  
matic hexameric silicate species in solu-  
tion according to mass spectrometry with  
isotopically labeled compounds. These  
findings have important implications for  
nucleation and growth processes of zeo-  
lites and other silicates.





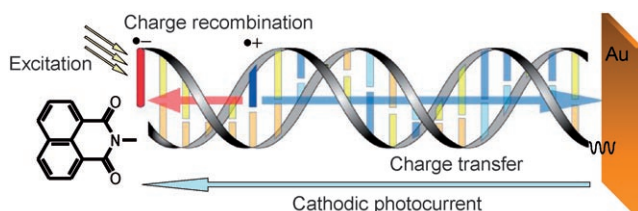
**After you, Sir Edward:** By following in the footsteps of Frankland and Wanklyn, it has been discovered that simple hydridoalkylzincates(II) (see picture) can be pre-

pared in essentially quantitative yield from mixtures of sodium and an excess of neat dialkylzinc reagent, which also acts as solvent.

## Zincate Ions

A. Lennartson, M. Håkansson,\*  
S. Jagner ————— 6678 – 6680

Facile Synthesis of Well-Defined Sodium Hydridoalkylzincates(II)



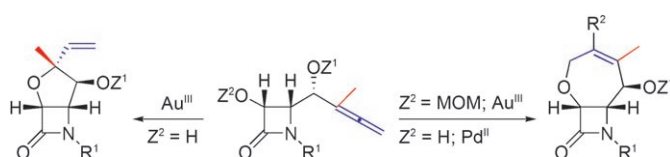
**Got a light?** The importance of the relationship between the charge recombination and charge transfer during photocurrent generation through DNA films is described. The photocurrent efficiency for

DNA films, in which the charge-transfer and recombination rates were modulated by changing the sequence, was investigated by using the photoelectrochemical measurements on an Au electrode.

## Photocurrents in DNA

T. Takada, C. Lin, T. Majima\* 6681 – 6683

Relationship between Charge Transfer and Charge Recombination Determines Photocurrent Efficiency through DNA Films



**Ring the changes:** The 5-*exo-trig* cyclization pathway of  $\gamma$ -allenols can be completely reversed by either changing the metal (Pd instead of Au) or using a

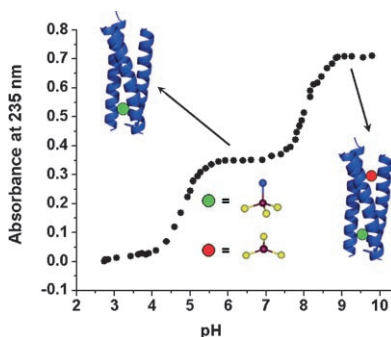
(methoxymethyl)oxy protecting group. As a result, the 7-*endo-trig* alkoxycyclization dominates instead (see scheme; MOM = MeOCH<sub>2</sub>; Z<sup>1</sup> = *t*BuMe<sub>2</sub>Si, ArCO).

## Synthetic Methods

B. Alcaide,\* P. Almendros,\*  
T. Martínez del Campo — 6684 – 6687

Metal-Catalyzed Regiodivergent Cyclization of  $\gamma$ -Allenols: Tetrahydrofurans versus Oxepanes

**Molecular recognition** and control of the physical properties of metal ions are major challenges in metalloprotein design. The newly designed peptide Grand L16PenL26AL30C binds two Cd<sup>II</sup> ions, each with a different coordination geometry—trigonal planar or pseudotetrahedral (see picture; Cd purple, S yellow, O blue). The physical properties of the two centers, such as site selectivity and pH dependence of binding, differ as well.



## Protein Design

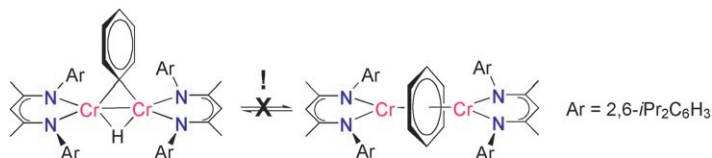
O. Iranzo, C. Cabello,  
V. L. Pecoraro\* ————— 6688 – 6691

Heterochromia in Designed Metallopeptides: Geometry-Selective Binding of Cd<sup>II</sup> in a De Novo Peptide



## C–H Bond Formation

W. H. Monillas, G. P. A. Yap,  
K. H. Theopold\* — 6692 – 6694



A Tale of Two Isomers: A Stable Phenyl Hydride and a High-Spin ( $S=3$ ) Benzene Complex of Chromium

**Staying put:** A binuclear phenyl hydride complex of chromium resists benzene formation by reductive elimination, even though the isomeric  $\mu\text{-}\eta^6\text{:}\eta^6$  benzene complex can be prepared independently (see scheme,  $\text{Ar} = 2,6\text{-iPr}_2\text{C}_6\text{H}_3$ ).

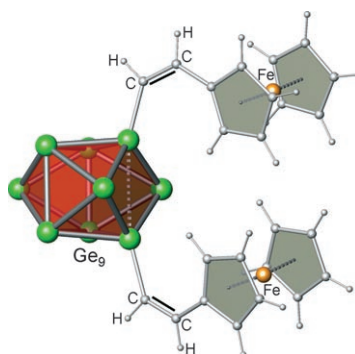
Whereas the phenyl hydride shows evidence for metal–metal bonding and anti-ferromagnetic coupling, the bridging benzene complex features extremely strong ferromagnetic coupling with an  $S=3$  ground state.

## Cluster Compounds

M. W. Hull, S. C. Sevov\* — 6695 – 6698



Addition of Alkenes to Deltahedral Zintl Clusters by Reaction with Alkynes: Synthesis and Structure of  $[\text{Fc}-\text{CH}=\text{CH}-\text{Ge}_9-\text{CH}=\text{CH}-\text{Fc}]^{2-}$ , an Organo-Zintl–Organometallic Anion



**Zintly the best?** The reaction of  $\text{K}_4\text{Ge}_9$  with  $\text{Fc}-\text{C}\equiv\text{CH}$  in ethylenediamine solution yields the title  $\text{Ge}_9$  cluster functionalized with two ferrocene groups that are attached to the cluster by double bonds (see picture), thus further expanding the emerging class of organo-Zintl compounds.



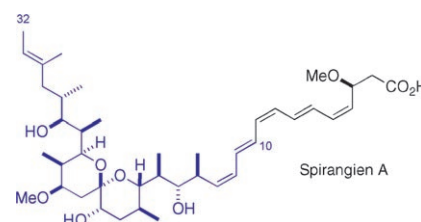
## Polyketide Synthesis

I. Paterson,\* A. D. Findlay,  
E. A. Anderson — 6699 – 6702



Synthesis of an Advanced C10–C32 Spiroacetal Fragment and Assignment of the Absolute Configuration of Spirangien A

**A bit on the side:** A highly convergent and flexible synthetic strategy has been developed for spirangiens A and B that made use of a common stereotetrad building block and led to an advanced C10–C32 spiroacetal fragment, thus enabling the unambiguous assignment of the absolute configuration of these potent cytotoxic polyketide metabolites isolated from the myxobacterium *Sorangium cellulosum*.



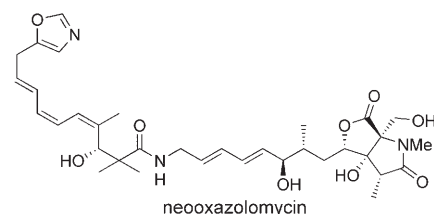
## Natural Products

E. O. Onyango, J. Tsurumoto, N. Imai,  
K. Takahashi, J. Ishihara,  
S. Hatakeyama\* — 6703 – 6705

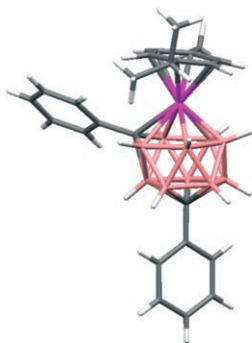


Total Synthesis of Neooxazolomycin

**Two sides to the story:** Neooxazolomycin, a member of the oxazolomycin family of antibiotics, was synthesized in naturally occurring form by a convergent approach. This highly stereoselective strategy consists of a Tamao hydrosilylation, palladium-catalyzed enolate alkenylation, dihydroxylation accompanied by lactonization, and a Nozaki–Hiyama–Kishi reaction to construct the right-hand segment as well as an improved route to the left-hand segment.





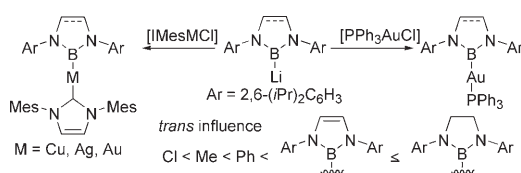


**Unanticipated complexity:** The first example of a 4,1,11-MC<sub>2</sub>B<sub>10</sub> metallacarborane (see picture; Ru magenta, B pink, C gray, H white) is reported. Reduction and metalation of 1,12-Ph<sub>2</sub>-1,12-*closo*-C<sub>2</sub>B<sub>10</sub>H<sub>10</sub> at both room temperature and low temperature yields no fewer than five isomeric supraicosahedral metallacarborane products. Calculations identify two initial *nido*-[C<sub>2</sub>B<sub>10</sub>H<sub>12</sub>]<sup>2-</sup> species, each with one C atom that is not in the open face.

## Metallacarboranes

S. Zlatogorsky, M. J. Edie, D. Ellis, S. Erhardt, M. E. Lopez, S. A. Macgregor,\* G. M. Rosair, A. J. Welch\* — **6706–6709**

The Mechanism of Reduction and Metalation of *para* Carboranes: The Missing 13-Vertex MC<sub>2</sub>B<sub>10</sub> Isomer



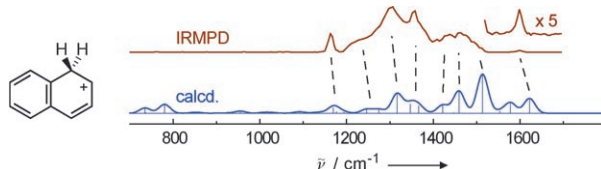
**Nucleophilic borylation:** Transmetalation from boryllithium compounds to Group 11 transition-metal chlorides gives the corresponding boryl complexes (see scheme). Borylsilver and borylgold complexes that have three-center-two-electron

M–B bonds are fully characterized for the first time. The NMR spectra and solid-state structures of the resulting boryl complexes reveal that the boryl ligand is one of the strongest known  $\sigma$ -donor ligands.

## Boryl Complexes

Y. Segawa, M. Yamashita,\* K. Nozaki\* — **6710–6713**

Boryl Anion Attacks Transition-Metal Chlorides To Form Boryl Complexes: Syntheses, Spectroscopic, and Structural Studies on Group 11 Borylmatal Complexes



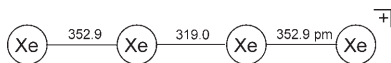
**Fingerprinting:** The IR spectrum of protonated naphthalene, the smallest member of the class of protonated polycyclic aromatic hydrocarbons (PAHs), has identified the C<sub>α</sub> atom as the preferred protonation site of the isolated molecule

(see the figure; IRMPD: infrared multiple-photon dissociation). Significant deviations from the corresponding IR spectrum of protonated benzene demonstrate the large impact of additional aromatic rings on the IR fingerprint of protonated PAHs.

## Polycyclic Arenes

U. J. Lorenz, N. Solcà, J. Lemaire, P. Maître, O. Dopfer\* — **6714–6716**

Infrared Spectra of Isolated Protonated Polycyclic Aromatic Hydrocarbons: Protonated Naphthalene



**Feeling blue:** Green Xe<sub>2</sub><sup>+</sup> reacts with excess xenon under pressure to form a blue compound. According to spectroscopic measurements and theoretical calculations, the blue compound, as shown in the picture, is most likely Xe<sub>4</sub><sup>+</sup> with a linear, symmetric structure (*D*<sub>∞h</sub>).

## Xenon

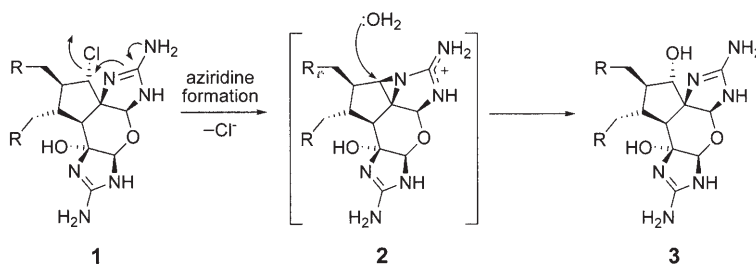
S. Seidel, K. Seppelt,\* C. van Wüllen,\* X. Y. Sun — **6717–6720**

The Blue Xe<sub>4</sub><sup>+</sup> Cation: Experimental Detection and Theoretical Characterization

## Natural Products

A. Grube, S. Immel, P. S. Baran,\*  
M. Köck\* — 6721–6724

Massadine Chloride: A Biosynthetic  
Precursor of Massadine and Stylissadine




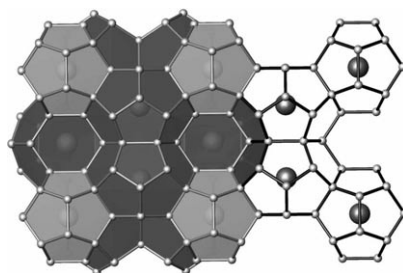
**The dimeric pyrrole–imidazole alkaloid** massadine chloride (**1**, see scheme) was isolated from the Caribbean sponge *Stylissa caribica*. The structure elucidation of

massadine chloride and its transformation into massadine (**3**) via an intermediate “massadine aziridine” (**2**) is discussed.

## Clathrates

W. Jung,\* J. Lörlincz, R. Ramlau,  
H. Borrmann, Yu. Prots, F. Haarmann,  
W. Schnelle, U. Burkhardt, M. Baitinger,  
Yu. Grin\* — 6725–6728


  $K_7B_7Si_{39}$ , a Borosilicide with the Clathrate I Structure



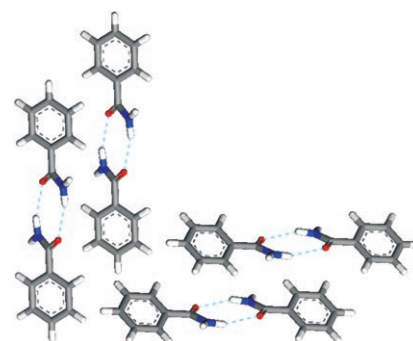
**Including boron:**  $K_7B_7Si_{39}$  (see structure; large spheres: K, small spheres: Si, B) is the first clathrate I compound with boron atoms. With 9.952(1) Å, the borosilicide exhibits the smallest lattice parameter among all intermetallic clathrate I compounds. The composition is in agreement with the Zintl rule.

## Polymorphism

J. Thun, L. Seyfarth, J. Senker,  
R. E. Dinnebier, J. Breu\* — 6729–6731


 Polymorphism in Benzamide: Solving a 175-Year-Old Riddle

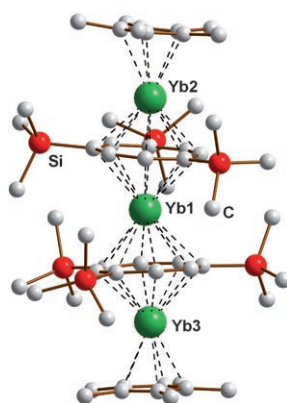
**A third form of benzamide** has been characterized 175 years after the first report of polymorphism in benzamide; the metastable silky needlelike form first described by Wöhler and Liebig was “hidden” for so long owing to the similarities between the metrics of its unit cell and those of the stable form I (the H-bonding motif is depicted). Selective crystallization techniques taking advantage of modern online sensors were crucial in this work.




## Lanthanide Sandwich Complexes


A. Edelmann, S. Blaurock, V. Lorenz,  
L. Hilfert, F. T. Edelmann\* — 6732–6734

  $[(C_5Me_5)Yb(\mu-\eta^8, \eta^8-cot'')Yb(\mu-\eta^8, \eta^8-cot'')Yb(C_5Me_5)]$ —A Unique Tetradecker Sandwich Complex of a Divalent Lanthanide



**All stacked up:** The f elements, too, can form well-defined multidecker sandwich complexes—as long as a suitable ligand set is chosen. In the case of the title compound, a combination of pentamethylcyclopentadienyl and 1,3,6-tris(trimethylsilyl)cyclooctatetraenyl ligands (cot'') was employed to give a nearly linear stacked  $Yb_3$  arrangement (see picture).

 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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