## **REVIEWS**

#### **Natural Products**

O. Chantarasriwong, A. Batova, W. Chavasiri,

E. A. Theodorakis\*.......... 9944-9962

Chemistry and Biology of the Caged *Garcinia* Xanthones



Golden discovery: Gamboge, the golden resin of various *Garcinia* trees, has a spectacular history in traditional Asian medicine. Chemical analysis of gamboge led to the identification of a new family of bioactive metabolites collectively referred to as caged *Garcinia* xanthones. Represented by gambogic acid (see figure), this family is highlighted by a privileged chemical scaffold that holds remarkable potential in chemistry, biology, and medicine.

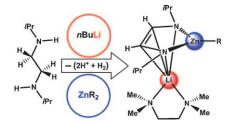
# **COMMUNICATIONS**

### **Metal-Mediated Synthesis**

R. Campbell, P. García-Álvarez,\* A. R. Kennedy,

*R. E. Mulvey*\*......9964–9968





**Deadly duo:** Four bonds in total, two N–H and two C–H bonds, have been cleaved from a neutral secondary diamine through the cooperative effects of a lithium alkyl–zinc bisalkyl coalition aided by *N,N,N',N'*-tetramethylethylenediamine (TMEDA) to generate a dianionic diazaethene (see scheme).

## **Asymmetric Catalysis**

K. Zheng, Y. Yang, J. Zhao, C. Yin, L. Lin, X. Liu, X. Feng\*... 9969–9972

☐ The Magnesium(II)-Catalyzed Asymmetric Ketone-Ene Reaction under Solvent-Free Conditions: Stereocontrolled Access to Enantioenriched Trifluoromethyl-Substituted Compounds



oxy esters were obtained free conditions. The

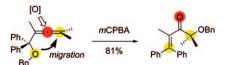
**Salt of the (alkaline) earth:** A highly efficient asymmetric ketone–ene reaction of trifluoropyruvate catalyzed by a chiral Mg(OTf)<sub>2</sub>–N,N'-dioxide complex is described (see scheme). The catalyst system exhibits a broad substrate scope and the trifluorometh-

ylated α-hydroxy esters were obtained under solvent-free conditions. The C=C bond of the products offers a handle for further transformations and trifluoromethyl-substituted spirocyclic compounds were synthesized in excellent *ee* and high yield.

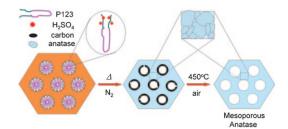
### **Oxidation**

P. Cordier, C. Aubert, M. Malacria,\* V. Gandon,\* E. Lacôte\*.... 9973 – 9976

Qxidation of α-Alkoxy Allenes into α'-Alkoxy Enones



Rearrangement enablers:  $\alpha$ -Alkoxy allenes undergo regioselective oxidative migration to give  $\alpha'$ -alkoxy enones in good to excellent yields (see scheme; Bn = benzyl, mCPBA = m-chloroperbenzoic acid). The influence of substituents on the allene, at C1, and at the oxygen atom has been examined. In addition, an oxidative cascade delivers  $\alpha'$ -alkoxy oxiranyl ketones through diepoxidation.



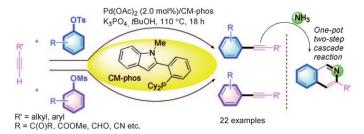
**Highly stable** and crystalline mesoporous TiO<sub>2</sub> materials have been successfully synthesized by a simple surfactant sulfuric acid carbonization method by using Pluronic triblock copolymers as a template (see figure). The surfactant

template is first carbonized by H<sub>2</sub>SO<sub>4</sub> to obtain rigid carbon on the surface of mesochannels that can then support the mesostructure during crystallization at high temperatures.

### **Mesoporous Materials**

R. Y. Zhang, B. Tu, D. Y. Zhao\*......9977-9981

Synthesis of Highly Stable and Crystalline Mesoporous Anatase by Using a Simple Surfactant Sulfuric Acid Carbonization Method



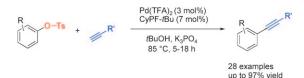
**Up to speed**: The first general and mild protocol for the Sonogashira coupling of aryl mesylates is presented

(see scheme). The coupling intermediate also provides facile access to 2-substituted isoquinolines.

### Cross-Coupling

P. Y. Choy, W. K. Chow, C. M. So, C. P. Lau, F. Y. Kwong\*.... 9982–9985

Palladium-Catalyzed Sonogashira Coupling of Aryl Mesylates and Tosylates



**Coupled up:** A new general palladiumcatalyzed procedure for the cross-coupling of aryl and heteroaryl tosylates is described. This highly versatile and efficient process can be used for the synthesis of a wide variety of functionalized alkynes (see scheme).

#### **Cross-Coupling**

O. R'kyek, N. Halland, A. Lindenschmidt,\* J. Alonso, P. Lindemann, M. Urmann, M. Nazaré\*......9986–9989

A General Palladium-Catalyzed Sonogashira Coupling of Aryl and Heteroaryl Tosylates



It's all in the grinding: A 1D double-zigzag framework,  $\{[Zn(paps)_2(H_2O)_2]-(ClO_4)_2\}_n$ , was synthesized by the reaction of  $Zn(ClO_4)_2$  with paps (see structure in scheme) in a layer method. A similar reaction, but in which dry solvents were used instead, led to the formation of a 2D polyrotaxane frame-

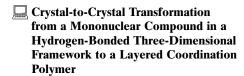
work, [Zn(paps)<sub>2</sub>(ClO<sub>4</sub>)<sub>2</sub>]<sub>n</sub>. Both structures can be interconverted by heating and grinding in the presence of moisture and a remarkable luminescent mechanochromism in the transformation process is also observed by monitoring their luminescence images.

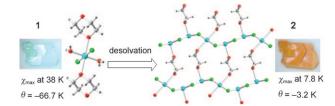
### **Coordination Frameworks**

Reversible Phase Transformation and Luminescent Mechanochromism of Zn<sup>II</sup>-Based Coordination Frameworks Containing a Dipyridylamide Ligand

### **Magnetic Properties**

B. Zhang,\* D. Zhu,\* Y. Zhang......9994–9997





Out of the blue: Blue crystals composed of a mononuclear compound in a hydrogen-bonded three-dimensional framework (1) can be transformed into brown crystals composed of a layered

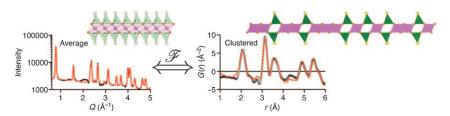
coordination polymer (2) by desolvation (see figure). These crystal-to-crystal transformations result in changes in the dimensionality, color, and physical properties.

# **FULL PAPERS**

## **Coordination Chemistry**

J. R. Neilson, J. A. Kurzman, R. Seshadri, D. E. Morse\* 9998-10006

Cobalt Coordination and Clustering in α-Co(OH)<sub>2</sub> Revealed by Synchrotron X-ray Total Scattering



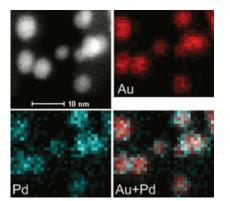
Local structure—cobalt clustering: The structures of layered hydroxides are not well described by traditional crystallography. Total scattering of a particular subset of these materials reveals that different cobalt coordination poly-

hedra cluster within each layer (see graphic) on short length scales, offering new insights into approaches for understanding the properties of layered materials.

### Nanocatalysts

D. Wang,\* A. Villa, P. Spontoni, D. S. Su,\* L. Prati ...... 10007 – 10013

In Situ Formation of Au-Pd Bimetallic Active Sites Promoting the Physically Mixed Monometallic Catalysts in the Liquid-Phase Oxidation of Alcohols



Active alloys: Starting from a physical mixture of Au/AC and Pd/AC catalysts (AC = activated carbon), an Au-Pd alloy can be formed during the liquid-phase oxidation of alcohols by reprecipitation of Pd onto Au nanoparticles (see images). The alloy formation greatly enhances the catalyst activity.

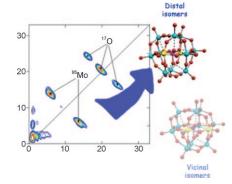
#### **Polyoxometalates**

I. Kaminker, H. Goldberg,

R. Neumann,

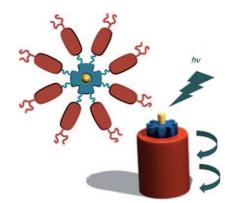
D. Goldfarb\*......10014-10020

High-Field Pulsed EPR Spectroscopy for the Speciation of the Reduced  $[PV_2Mo_{10}O_{40}]^{6-}$  Polyoxometalate Catalyst Used in Electron-Transfer Oxidations



**A band apart**: A W-band EPR study of  $[PV^{IV}V^VMo_{10}O_{40}]^{6-}$  was carried out. Two species related to  $[PV^{IV}V^VMo_{10}O_{40}]^{6-}$  were identified. One is vanadyl  $(VO^{2+})$ -like and is represented as an ion pair,  $[PV^VMo_{10}O_{39}]^{8-}[V^{IV}O]^{2+}$ ; the other originates from reduction of distal  $H_5PV_2Mo_{10}O_{40}$  isomers to yield an intact cluster,  $[PV^{IV}V^VMo_{10}O_{40}]^{6-}$  (see graphic).

**Eight is better than one:** Photophysical characterisation of a series of novel phthalocyanine–perylene "octad" molecules shows rapid energy transfer, rather than the anticipated charge separation process, upon photoexitation (see figure).

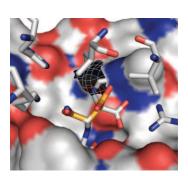


#### **Delocalised States -**

Multichromophoric Phthalocyanine– (Perylenediimide)<sub>8</sub> Molecules: A Photophysical Study



Caught in a trap! The two L-isomers of 3-fluoroaspartate were synthesized and used to probe pyruvoyl-dependent aspartate decarboxylase enzymes. Our results show that these molecules maintain their unique conformations (as determined by the presence of fluorine) even in the active site of these enzymes, leading to differentiated reactivity and binding profiles and, in one case, a stable enzyme/product complex (see figure).

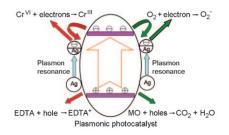


#### Fluorinated Inhibitors

J. de Villiers, L. Koekemoer, E. Strauss\* ...... 10030 – 10041

3-Fluoroaspartate and Pyruvoyl-Dependant Aspartate Decarboxylase: Exploiting the Unique Characteristics of Fluorine To Probe Reactivity and Binding

Let there be light: The plasmonic photocatalyst Ag@Ag(Br,I) has been fabricated by the ion-exchange process and light-induced chemical reduction reaction. The photocatalytic properties of the sample were evaluated by photoreducing Cr<sup>VI</sup> and photooxidizing methylic orange (MO) under visible light (reaction arrows in red and green refer to two separate processes).

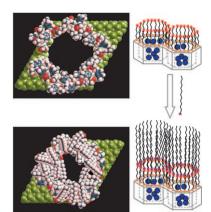


#### Photocatalysis -

P. Wang, B. Huang,\* Q. Zhang, X. Zhang, X. Qin, Y. Dai, J. Zhan, J. Yu, H. Liu, Z. Lou . . . . 10042–10047

Highly Efficient Visible Light Plasmonic Photocatalyst Ag@Ag(Br,I)

Taking control: MCM-41 mesoporous materials have been prepared that contain  $[Ru(bipy)_3]Cl_2$  (bipy = bipyridine) inside the mesopores and anion binding groups (i.e., imidazolium, urea and thiourea) in the pore outlets. The delivery of these materials in the presence of long-chain carboxylate ions and anionic surfactants has been studied. Molecular dynamic simulations that use force-field methods have been made to theoretically study the capping carboxylate mechanism (see scheme).



### Hybrid Materials -

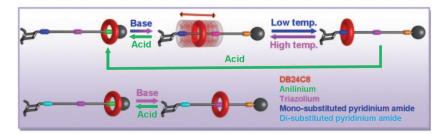
C. Coll, E. Aznar, R. Martínez-Máñez,\* M. D. Marcos, F. Sancenón,\* J. Soto, P. Amorós, J. Cano, E. Ruiz ..................... 10048–10061

Fatty Acid Carboxylate- and Anionic Surfactant-Controlled Delivery Systems That Use Mesoporous Silica Supports

### **Molecular Machines**

E. Busseron, C. Romuald, F. Coutrot\*......10062-10073

Bistable or Oscillating State
Depending on Station and Temperature in Three-Station Glycorotaxane
Molecular Machines



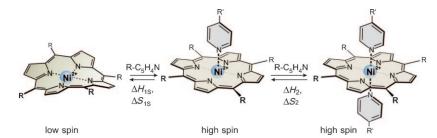
Three molecular stations with different affinity for dibenzo[24]crown-8 (DB24C8) are present in the glycorotaxane molecular machines shown schematically in the picture. At low pH, DB24C8 resides around the best

anilinium station, whereas at higher pH, the macrocycle behaves very differently depending on the substitution of the pyridinium amide station and on the temperature (bistable or oscillating state).

## **Spin Crossover**

S. Thies, C. Bornholdt, F. Köhler, F. D. Sönnichsen, C. Näther, F. Tuczek,\* R. Herges\*. . 10074–10083

Coordination-Induced Spin Crossover (CISCO) through Axial Bonding of Substituted Pyridines to Nickel–Porphyrins: σ-Donor versus π-Acceptor Effects



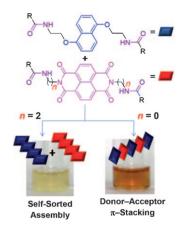
In a spin: Nickel–porphyrin ( $R = C_6F_5$ ) coordinates two axial pyridine ligands upon changing from the S=0 to the S=1 state. The association constants of both steps correlate with the p $K_a$  of the pyridines but the binding enthalpies and entropies do not. Back dona-

tion from nickel to the electron-deficient pyridines (see picture) leads to an increase in association enthalpy and a shift of IR stretching frequencies in the corresponding pyridines to lower wavenumbers.

### **Supramolecular Chemistry**

M. R. Molla, A. Das, S. Ghosh\*......10084-10093

Self-Sorted Assembly in a Mixture of Donor and Acceptor Chromophores



Self-assembly in a true sense: Self-sorted assembly in a mixture of bisamide-functionalised donor and acceptor chromophores has been achieved due to the synergistic effect of  $\pi$ - $\pi$  stacking and hydrogen bonding. Remarkable differences in the mode of self-assembly (self-sorting vs. donor-acceptor  $\pi$  stacking, see figure) was noticed, depending on the position of the amide functionalities with respect to the individual chromophores.

**Dual probes for cellular imaging:** A novel bimodal medium-sized fluorescence/MRI probe based on a cyclodextrin scaffold has been synthesized and characterized (illustrated schematically here). This new Gd<sup>III</sup> contrast agent, exhibiting a high relaxivity confined to a small molecular space

 $(r_1 \approx 150 \text{ s}^{-1} \text{mm}^{-1} \text{ per molecule of contrast agent)}$ , has been successfully used for the imaging of pancreatic islets and stem cells.

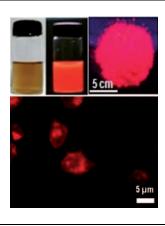


#### Contrast Agents -

Z. Kotková, J. Kotek,\* D. Jirák, P. Jendelová, V. Herynek, Z. Berková, P. Hermann, I. Lukeš.... 10094–10102

Cyclodextrin-Based Bimodal Fluorescence/MRI Contrast Agents: An Efficient Approach to Cellular Imaging

The Midas touch: Core etching of gold nanoparticles by bovine serum albumin (BSA) results in quantum clusters (QCs), the luminescence of which (see picture) is exploited as a "turn-off" sensor for the detection of Cu<sup>2+</sup> ions and a "turn-on" sensor for glutathione detection. Metal-enhanced luminescence of the QCs occurs in the presence of silver nanoparticles. The luminescence of Au<sub>QC</sub>@BSA is used for imaging carcinoma cells by folic acid mediated endocytosis.

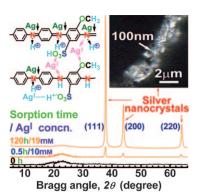


#### **Quantum Clusters**

M. A. Habeeb Muhammed, P. K. Verma, S. K. Pal, A. Retnakumari, M. Koyakutty, S. Nair, T. Pradeep\*......10103-10112

Luminescent Quantum Clusters of Gold in Bulk by Albumin-Induced Core Etching of Nanoparticles: Metal Ion Sensing, Metal-Enhanced Luminescence, and Biolabeling

**Silver mining**: Aniline–sulfoanisidine copolymer nanosorbents demonstrate ultrastrong adsorbability and highly efficient recovery of AgI from waste water in the form of separable silver nanocrystals, turning trash into treasure. The maximal Ag<sup>I</sup> sorption capacity of 2034 mg g  $(18.86 \text{ mmol g}^{-1})$  is the highest so far, and at  $\leq 2$  mm Ag<sup>I</sup>, the nanosorbent exhibits  $\geq$  99.98 % Ag<sup>I</sup> adsorptivity. The picture shows the possible sorption mechanism, as well as XRD and microscopy evidence for the presence of elemental silver in the Ag-loaded nanosorbent.



## Nanosorbents -

*X.-G. Li*,\* *H. Feng*, *M.-R. Huang* \* . . . . . . . . . 10113 – 10123

Redox Sorption and Recovery of Silver Ions as Silver Nanocrystals on Poly(aniline-co-5-sulfo-2-anisidine) Nanosorbents

**A nickel for your thoughts**: A chiral N,N'-dioxide–nickel(II) complex has been applied in the asymmetric direct aldol reaction of  $\alpha$ -isothiocyanato imide with aldehydes. A series of aromatic,  $\alpha,\beta$ -unsaturated, heteroaro-

matic, and aliphatic aldehydes were converted into the desired  $\beta$ -hydroxy- $\alpha$ -amino acid derivatives under mild conditions (see scheme). A possible transition state has been proposed.

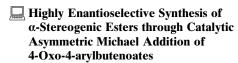
### Asymmetric Synthesis

X. Chen, Y. Zhu, Z. Qiao, M. Xie, L. Lin, X. Liu, X. Feng\* 10124-10129

Efficient Synthesis of β-Hydroxy-α-Amino Acid Derivatives via Direct Catalytic Asymmetric Aldol Reaction of α-Isothiocyanato Imide with Aldehydes 

### **Asymmetric Catalysis**

Z. Wang, D. Chen, Z. Yang, S. Bai, X. Liu, L. Lin, X. Feng\* 10130-10136



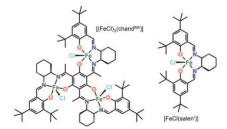


**Add it up**: Highly enantioselective Michael addition of 1,3-dicarbonyl compounds and nitromethane to 4-oxo-4-arylbutenoates catalyzed by *N*,*N*′-dioxide–Sc(OTf)<sub>3</sub> complexes have

been developed (see scheme). Various  $\alpha$ -stereogenic esters were obtained regioselectively with excellent yields and enantioselectivities under mild conditions.

### **Homogeneous Catalysis**

■ Do Trinuclear Triplesalen Complexes Exhibit Cooperative Effects? Synthesis, Characterization, and Enantioselective Catalytic Sulfoxidation by Chiral Trinuclear Fe<sup>III</sup> Triplesalen Complexes



Complex chemistry: The reaction of the trinuclear chiral triplesalen complex [(FeCl)<sub>3</sub>(chand<sup>RR</sup>)] in the enantioselective catalytic sulfoxidation of prochiral sulfides has altered cooperative effects through the central phloroglucinol backbone relative to the mononuclear analogue [FeCl(salen')].

### **Total Synthesis -**

Formal Total Synthesis of Fostriecin by 1,4-Asymmetric Induction with an Alkyne–Cobalt Complex

**CoCo catalysis:** Four stereogenic centers and a conformationally labile *ciscis-trans*-triene moiety were constructed in a formal total synthesis of fostriecin. The synthesis incorporates the first successful example of the use of an alkyne–cobalt complex in 1,4-asymmetric induction.

### **Bonding Analysis**

S. Klein, R. Tonner, G. Frenking\*......10160-10170

Carbodicarbenes and Related Divalent Carbon(0) Compounds



Carbene or carbone? Quantum-chemical studies on dicoordinated carbon compounds with various mono- and bidentate ligands (see picture) show that there is a gliding scale between the bonding situation of carbenes R-C-R, in which the carbon atom has one electron pair, and carbones  $L\to C\leftarrow L$ , in which the carbon atom has two electron pairs. Divalent carbon(0) compounds (carbones)  $CL_2$  are  $\pi$  donors, whereas divalent carbon(II) compounds (carbenes)  $CR_2$  are  $\pi$  acceptors.

#### **Radical Reactions**

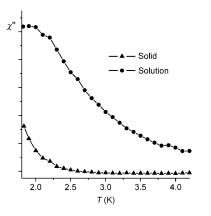
M. Lüthy, K. Schenk, P. Renaud\*......10171-10177

Synthesis of Unusual Oxime Ethers by Reaction of Tetranitromethane with *B*-Alkylcatecholboranes

Radical addition: *B*-Alkylcatecholboranes were found to react spontaneously, through a radical pathway, with tetranitromethane to afford dinitrooxime ethers. Further substitution of one of the nitro groups in the oxime ethers by alkyl radicals and nucleophiles is also reported (see scheme).

# CONTENTS

Frozen magnetisation: The relaxation time of Fe<sub>4</sub> single-molecule magnets increases upon going from the solid state to a frozen solution. The effective energy barrier for relaxation of the magnetisation and the magnetic anisotropy are unchanged, but the Arrhenius prefactor is strongly enhanced.

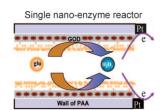


## **Magnetic Properties**

C. Schlegel, E. Burzurí, F. Luis, F. Moro, M. Manoli, E. K. Brechin, M. Murrie, *J. van Slageren*\*...... 10178 – 10185

Magnetic Properties of Two New Fe<sub>4</sub> Single-Molecule Magnets in the Solid State and in Frozen Solution

**Enhancement through confinement:** A nano-enzyme reactor has been constructed that can monitor the product from an enzymatic reaction in situ (see scheme; Glu=glucose, GOD=glucose oxidase, PAA = porous anodic alumina). The activity and stability of the enzyme confined in the nanochannel space are enhanced. In addition, the enzymatic reaction changes from a process controlled by mass transport at low flux to a process controlled by enzymatic reaction kinetics at high flux (e.g.,  $> 50 \,\mu L \, min^{-1}$ ).

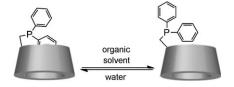


#### Nanobioreactors -

S.-J. Li, C. Wang, Z.-Q. Wu, J.-J. Xu, X.-H. Xia, \* H.-Y. Chen . . 10186 – 10194

Real-Time Monitoring of Mass-Transport-Related Enzymatic Reaction Kinetics in a Nanochannel-Array Reactor

Solvent-dependent catalysis: A new diphenylphosphane, based on the βcyclodextrin (CD) skeleton, exhibits dual solubility and a solvent-dependent conformation change in which the selfinclusion of a phenyl group of the phosphane moiety into the CD cavity, observed in water, disappears in organic solvents (see scheme). Hydrogenation or hydroformylation reactions were performed in both water and organic solvents.



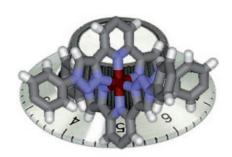
## **Host-Guest Catalysis**

C. Machut-Binkowski, F.-X. Legrand, N. Azaroual, S. Tilloy,\*

*E. Monflier* . . . . . . . . . . . . . . . . . 10195 – 10201

New Phosphane Based on a β-Cyclodextrin, Exhibiting a Solvent-Tunable Conformation, and its Catalytic **Properties** 

Turning the knob: 2,6-Bis(1,2,3-triazol-4-yl)pyridine (see figure) ligands with substitution patterns ranging from strongly electron-donating to strongly electron-accepting groups, readily prepared by means of Cu-catalyzed 1,3dipolar cycloaddition ("click" reaction), were investigated with regard to their complexation behavior, and the properties of the resulting transitionmetal complexes were compared.



### Click Chemistry -

M. Ostermeier, M.-A. Berlin, R. M. Meudtner, S. Demeshko, F. Meyer, C. Limberg,\* 

Complexes of Click-Derived Bistriazolylpyridines: Remarkable Electronic **Influence of Remote Substituents on** Thermodynamic Stability as well as **Electronic and Magnetic Properties** 

### Alkaloids

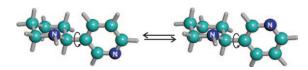
A. Lesarri,\* E. J. Cocinero,

L. Evangelisti, R. D. Suenram,

W. Caminati,

*J.-U. Grabow* ...... 10214–10219

The Conformational Landscape of Nicotinoids: Solving the Conformational Disparity of Anabasine



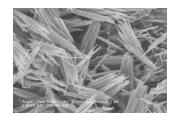
**Nicotinoid stereochemistry**: The two most stable conformations of free anabasine (eq-eq-syn, left, and eq-eq-anti,

right; eq = equatorial) have been characterized in a jet expansion by using rotational spectroscopy.

### **Nanowires**

G. Wang,\* Y. Deng,\*

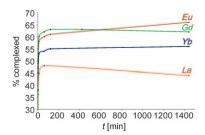
Single-Crystalline ZnO Nanowire Bundles: Synthesis, Mechanism and Their Application in Dielectric Composites



A facile synthesis route has been designed for selective syntheses of uniform single-crystalline ZnO nanowire bundles (see figure). The ZnO bundles/poly(vinylidene fluoride) composites have significantly higher dielectric constants than those of bulk ZnO/poly(vinylidene fluoride) with a quite low percolation threshold.

### **Self-Assembly**

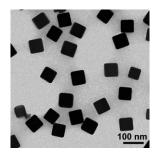
Selective Lanthanides Sequestration
Based on a Self-Assembled
Organosilica



A bis-zwitterionic lamellar material containing ammonium carboxylate groups was tested for cation-exchange properties. It was found to be selective towards lanthanides; cation uptake was dependent on the nature of the LnCl<sub>3</sub> salt (Ln=La, Eu, Tb, Er and Yb; see figure).

### Nanotechnology

Facile Synthesis of Ag Nanocubes of 30 to 70 nm in Edge Length with CF<sub>3</sub>COOAg as a Precursor



New protocol: We describe a new protocol to synthesize Ag nanocubes of 30 to 70 nm in edge length (see figure) with the use of CF<sub>3</sub>COOAg as a precursor to elemental silver. By adding a trace amount of NaSH and HCl to the polyol synthesis, Ag nanocubes were obtained with good quality, high reproducibility, and on a scale of up to 0.19 g per batch for the 70 nm Ag nanocubes.

### **Radical Reactions**

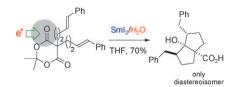
K. D. Collins, J. M. Oliveira,

G. Guazzelli, B. Sautier, S. D. Grazia,

H. Matsubara, M. Helliwell,

D. J. Procter\*............ 10240 – 10249

Selective Reductions of Cyclic 1,3-Diesters by Using SmI<sub>2</sub> and H<sub>2</sub>O



**Under water control**: The activation of SmI<sub>2</sub> with H<sub>2</sub>O allows the carbonyl groups of cyclic 1,3-diesters to be reduced with high chemoselectivity. The radicals formed in the reduction have been exploited in diastereoselective intramolecular additions to alkenes.

Silylsilylenes on rare form: Monomeric silylsilylene 2 was synthesized by treating 1 with potassium graphite. The reaction proceeds through an intermediate silicon(II) hydride that undergoes a hydrosilylation with the amidinate of another silicon(II) hydride to

form 2 (see scheme). The existence of the silicon(II) hydride was shown by the treatment of [{PhC(NtBu)<sub>2</sub>}SiCl] with  $[K{HB(iBu)_3}]$ . The structure of 2 has been determined by X-ray crystallography and DFT calculations.

### Hydrosilylation

S.-H. Zhang, H.-X. Yeong, H.-W. Xi, K. H. Lim, C.-W. So\*.... 10250 – 10254

Hydrosilylation of a Silicon(II) Hydride: Synthesis and Characterization of a Remarkable Silylsilylene



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Full Papers labeled with this symbol have been judged by two referees as being "very important papers".



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

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# CORRIGENDUM

S. Vargas, A. Suárez, E. Álvarez, 

Highly Enantioselective Hydrogenation of Enol Ester Phosphonates: A Versatile Procedure for the Preparation of Chiral β-Hydroxyphosphonates

Chem. Eur. J., 2008, 14

DOI: 10.1002/chem.200801588

In their Communication, the authors have found errors in Tables 1 and 2. The enantioselectivity of product 2a (Table 1, entry 4) was 99 % ee and not 59 % ee. The reaction time for the reactions in Table 2, entries 4–8 was 72 h. The authors sincereley apologize for these errors and any inconvenience they may have caused.