



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

C. Wang, H. Daimon, T. Onodera, T. Koda, S. Sun\*

**A General Approach to the Size- and Shape-Controlled Synthesis of Platinum Nanoparticles and Their Catalytic Reduction of Oxygen**

T. J. Greshock, A. W. Grubbs, P. Jiao, J. B. Gloer, R. M. Williams\*  
**Isolation, Structure Elucidation, and Biomimetic Total Synthesis of Versicolamide B and the Isolation of Antipodal (–)-Stephacidin A and (+)-Notoamide B from *Aspergillus versicolor* NRRL 35600**

H. Wu, H. Zhu, J. Zhuang, S. Yang, C. Liu, Y. C. Cao\*  
**Water-Soluble Nanocrystals through Dual-Interaction Ligands**

Y. V. Geletii, B. Botar,\* P. Kögerler, D. A. Hillesheim, D. G. Musaev, C. L. Hill\*

**An All-Inorganic, Stable, and Highly Active Tetraruthenium Homogeneous Catalyst for Water Oxidation**

Z. Liu, A. Kumbhar, D. Xu, J. Zhang, Z. Sun, J. Fang\*  
**Co-Reduction Colloidal Synthesis of III-V Nanocrystals: The Case of InP**

Y. H. Sehlleier, A. Verhoeven, M. Jansen\*  
**Observation of Direct Bonds Between Carbon and Nitrogen in Si–B–N–C Ceramic After Pyrolysis at 1400 °C**

## News

Surface Chemistry:  
Somorjai Awarded \_\_\_\_\_ **3488**

Nanochemistry:  
Stoddart Honored \_\_\_\_\_ **3488**

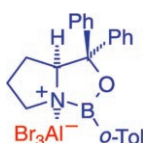
Organic Chemistry:  
Prize to Shibasaki \_\_\_\_\_ **3488**

## Books

The Most Secret Quintessence of Life

Chandak Sengoopta

reviewed by E. Ottow, H. Weinmann **3489**



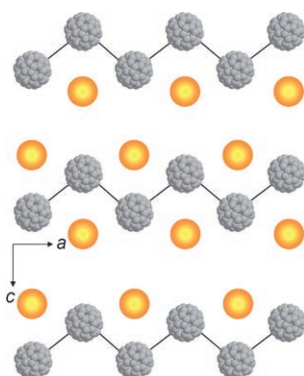
**More and more applicable:** The adduct of an oxazaborolidine and aluminum tribromide (see picture) turns out to be an efficient catalyst not only for enantioselective Diels–Alder reactions but now also for enantioselective [2+2] cycloadditions. The products are important enantiomerically pure building blocks for the synthesis of complex organic compounds.

## Highlights

### Asymmetric Catalysis

H. Butenschön\* \_\_\_\_\_ **3492–3495**

Oxazaborolidines as Catalysts for Enantioselective Cycloadditions: Now [2+2]!



**Nuggets and buckyballs:** Cationic small molecular gold clusters linked together by anions form ionic crystals. The cutting edge of such intercluster compounds involves combinations of Au<sub>7</sub> and Au<sub>8</sub> clusters and fullerides obtained by the reaction of KC<sub>60</sub> with [Au<sub>8</sub>(PPh<sub>3</sub>)<sub>8</sub>](NO<sub>3</sub>)<sub>2</sub> in MeCN/THF. The picture shows a simplified view of the crystal structure of [Au<sub>7</sub>(PPh<sub>3</sub>)<sub>7</sub>]<sup>+</sup>C<sub>60</sub><sup>–</sup>·THF in the direction of [010] (C gray, Au yellow).

### Gold Clusters

G. Schmid\* \_\_\_\_\_ **3496–3498**

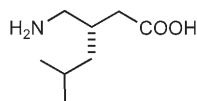
Ionically Cross-Linked Gold Clusters and Gold Nanoparticles

## Essays

### Drug Research

R. B. Silverman\* — 3500–3504

From Basic Science to Blockbuster Drug:  
The Discovery of Lyrica



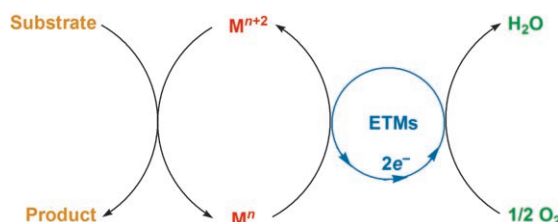
**The anticonvulsant drug (S)-(+)-3-isobutyl-γ-aminobutyric acid ((S)-(+)-3-isobutyl-GABA, Lyrica; see structure) was developed from a study of fundamental science, which took an unexpected course. The activity of Lyrica was found to be unrelated to the originally anticipated activation of L-glutamic acid decarboxylase and the increase in the inhibitory neurotransmitter GABA; instead, it antagonizes a calcium ion channel, which inhibits the release of the excitatory neurotransmitter L-glutamate. The ultimate effect, however, is the same.**

## Reviews

### Green Chemistry

J. Piera, J.-E. Bäckvall\* — 3506–3523

Catalytic Oxidation of Organic Substrates  
by Molecular Oxygen and Hydrogen  
Peroxide by Multistep Electron Transfer—  
A Biomimetic Approach



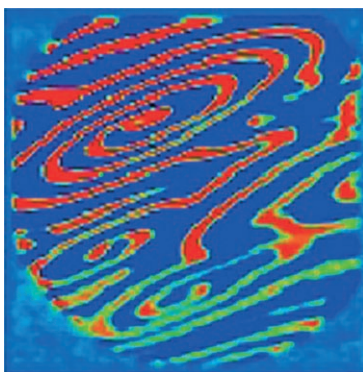
**Going green:** The use of environmentally friendly oxidation materials such as  $O_2$  or  $H_2O_2$  is a very important goal in organic chemistry, particularly for oxidations in

industrial chemistry. The use of electron-transfer mediators (ETMs) to facilitate the use of these oxidants for the oxidation of organic substrates is described.

### Heterogeneous Catalysis

G. Ertl\* — 3524–3535

Reactions at Surfaces: From Atoms to  
Complexity (Nobel Lecture)



**The spatio-temporal formation of patterns on the surface during a chemical reaction is one phenomenon that can now be understood and modeled thanks to the Nobel Prize winning research on the course of heterogeneous catalysis. The picture shows a pattern formed by a feedback mechanism during the oxidation of CO. Reactions that have been illuminated by this work include the synthesis of ammonia and the purification of waste gases.**

#### For the USA and Canada:

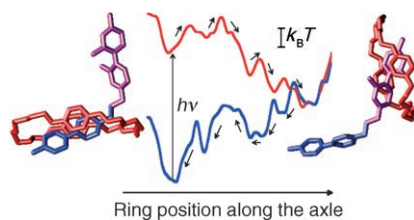
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Meacham Ave., Elmont, NY 11003. Periodicals postage paid at Jamaica, NY 11431. US POSTMASTER: send address changes to *Angewandte Chemie*, Wiley-VCH, 111 River Street, Hoboken, NJ 07030. Annual subscription price for institutions: US\$ 7225/6568 (valid for print and

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.

## Communications

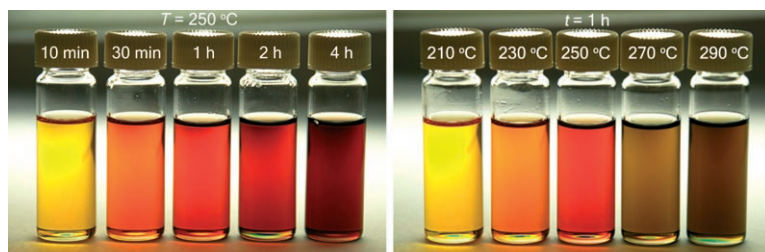
**On the move:** A computational investigation of the photo-triggered shuttling of a multicomponent bistable rotaxane in solution has shown that decomplexation of the counterions from the positively charged stations may be the efficiency-limiting step of the nanomachine. The picture shows the free-energy profile as a function of the ring position for the oxidized (ground) state (blue) and the reduced state (red) generated by photo-excitation.



### Molecular Machines

P. Raiteri,\* G. Bussi, C. S. Cucinotta,  
A. Credi,\* J. F. Stoddart,  
M. Parrinello ————— 3536–3539

Unravelling the Shuttling Mechanism in a  
Photoswitchable Multicomponent  
Bistable Rotaxane



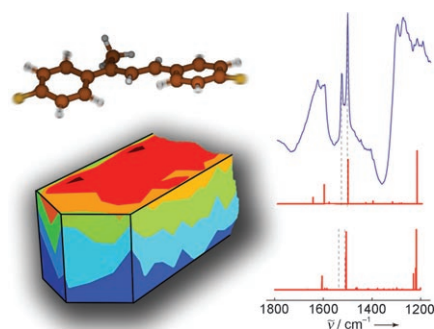
**Finding the little InP particles:** A coreduction method allows high-quality colloidal InP nanocrystals to be synthesized by using  $\text{PCl}_3$  as the phosphorus source and superhydride as the reducing agent. Etching the as-grown nanocrystals with

HF leads to high-efficiency photoluminescence. The synthetic strategy can be extended to the preparation of other III–V nanocrystals with the corresponding pnictogen halides.

### Nanocrystal Synthesis

Z. Liu, A. Kumbhar, D. Xu, J. Zhang,  
Z. Sun, J. Fang\* ————— 3540–3542

Coreduction Colloidal Synthesis of III–V  
Nanocrystals: The Case of InP



### CSI: Carbocation species identification:

The nonhomogeneous distribution of the reaction products of styrene oligomerization on large ZSM-5 crystals was mapped with in situ IR microspectroscopy. Diffraction-limited spatial resolution was achieved with synchrotron light. IR spectra for possible reaction products were calculated with DFT/B3LYP; by comparison with experimental results carbocationic reaction species formed in zeolite channels could be singled out.

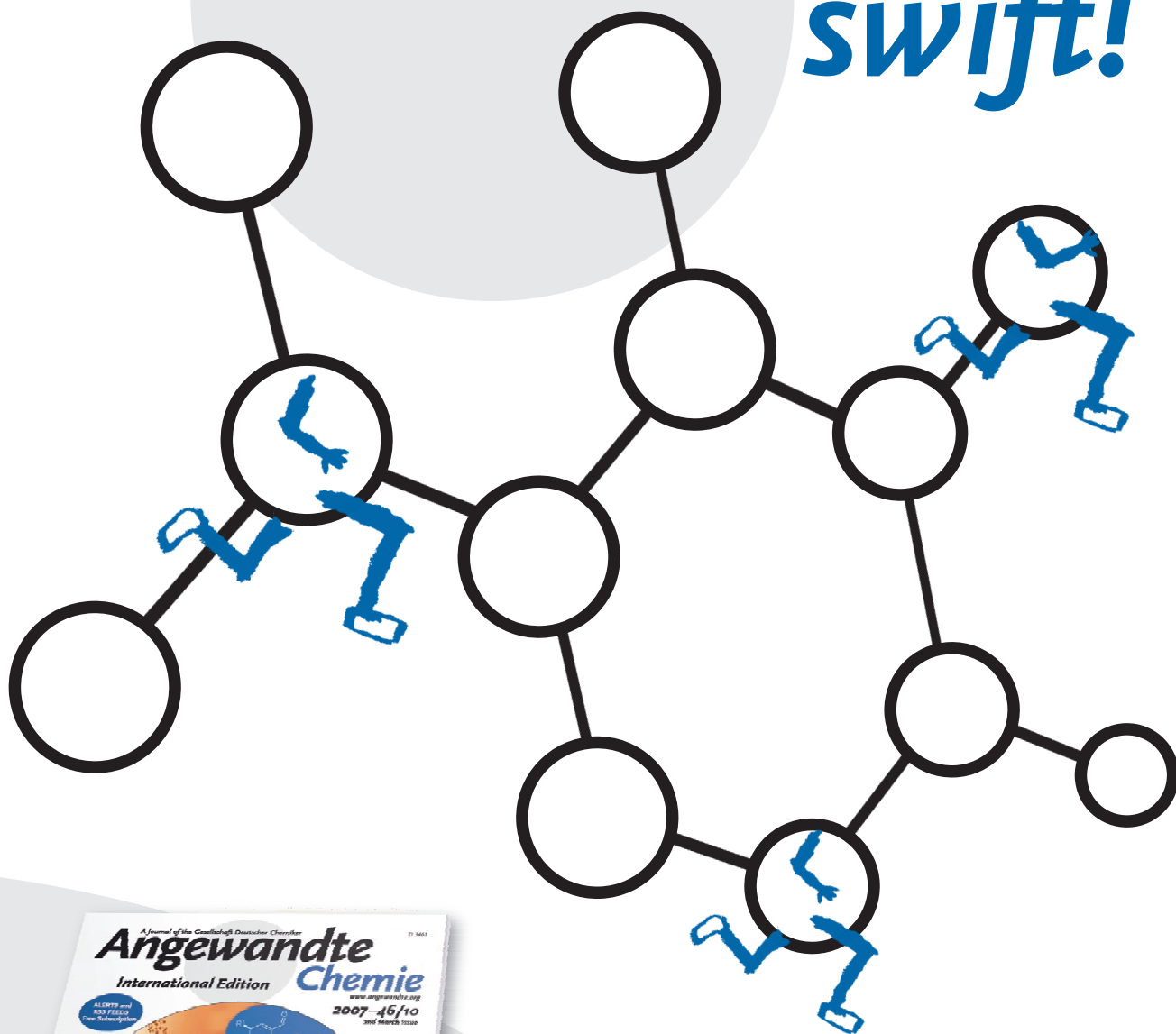
### Heterogeneous Catalysis

E. Stavitski, M. H. F. Kox, I. Swart,  
F. M. F. de Groot,  
B. M. Weckhuysen\* ————— 3543–3547

In Situ Synchrotron-Based IR  
Microspectroscopy To Study Catalytic  
Reactions in Zeolite Crystals



# Incredibly swift!



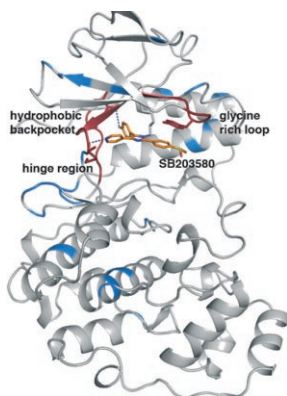
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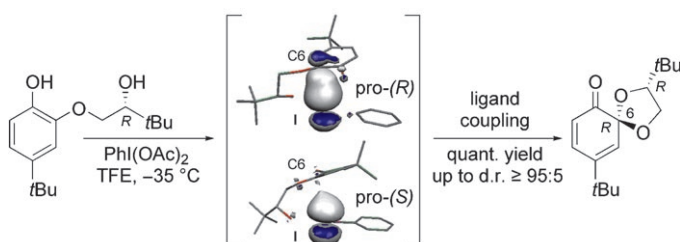


**Added flexibility:** NMR data for p38 $\alpha$  MAP kinase in a complex with the SB203580 inhibitor show intermediate exchange of residues in the binding pocket (affected residues marked in blue and red on the structure), which indicates increased flexibility compared to that of the unbound protein. Based on residual dipolar couplings, the overall solution structure of p38 $\alpha$  is very similar to the crystal structure. Thus, the increased mobility in solution is an effect of the inhibitor that is not reflected in the crystal structure.

### Enzyme–Inhibitor Complex

V. S. Honndorf, N. Coudeville, S. Laufer, S. Becker, C. Griesinger\* — 3548–3551

Dynamics in the p38 $\alpha$  MAP Kinase–SB203580 Complex Observed by Liquid-State NMR Spectroscopy



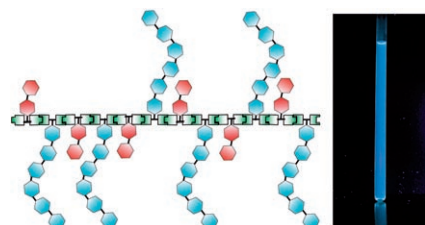
**Versatile chiral substrates** for asymmetric synthesis are formed through the spiroketalization of phenols with a chiral substituted ethanol unit O-tethered to the *ortho* position upon treatment with PhI(OAc)<sub>2</sub> (see example; TFE = 2,2,2-tri-

fluoroethanol). Intermediates with a six-membered iodine(III)-containing ring (the natural localized molecular orbitals associated with the I–C6 bond are shown) undergo ligand coupling to give the spiroketals.

### Asymmetric Synthesis

L. Pouységu, S. Chassaing, D. Dejugnac, A.-M. Lamidey, K. Miqueu, J.-M. Sotiropoulos, S. Quideau\* — 3552–3555

Highly Diastereoselective Synthesis of Orthoquinone Monoketals through  $\lambda^3$ -Iodane-Mediated Oxidative Dearomatization of Phenols

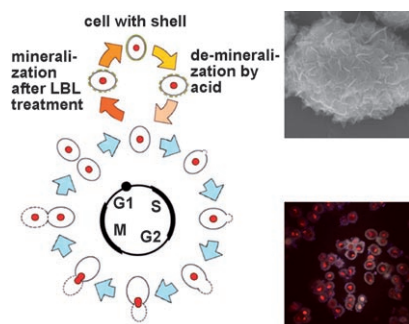


**A change in the constitution:** Dynamic glycopolymers based on a poly(acylhydrazone) main chain bearing lateral oligosaccharide groups have been obtained and their structure has been characterized as a bottlebrush type (see picture) by cryo-TEM and small-angle neutron scattering studies. They have remarkable fluorescence with emission wavelengths which are tunable by exchange/incorporation of components which modify the polymer constitution.

### Dynamic Biopolymers

Y. Ruff, J.-M. Lehn\* — 3556–3559

Glycodynamers: Fluorescent Dynamic Analogues of Polysaccharides



**Inspired by eggshells in nature,** living yeast cells were conferred with an artificial mineral coat by using a combination of the layer-by-layer (LBL) treatment with functional polymers and in situ biomimetic mineralization. The resulting hard inorganic shells have a tremendous effect on the storage, protection, delivery, and modification of the cells.

### Cells with Mineral Shells

B. Wang, P. Liu, W. Jiang, H. Pan, X. Xu, R. Tang\* — 3560–3564

Yeast Cells with an Artificial Mineral Shell: Protection and Modification of Living Cells by Biomimetic Mineralization





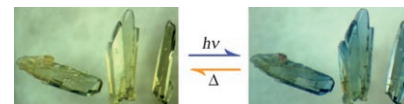
## Photochromic Materials

M.-S. Wang, G.-C. Guo,\* W.-Q. Zou,  
W.-W. Zhou, Z.-J. Zhang, G. Xu,  
J.-S. Huang ————— **3565–3567**



Photochromism of a 3D Cd<sup>II</sup> Complex with  
Two Captured Ligand Isomers Generated  
In Situ from the Same Precursor

**Color on command:** A hydrothermally synthesized 3D Cd<sup>II</sup> complex with an unusual 4<sup>2</sup>6<sup>6</sup>8<sup>2</sup> topology consisting of cadmium centers as five-connected nodes and two in situ generated isomers from the same precursor as linkers was found to exhibit reversible redox photochromic behavior.

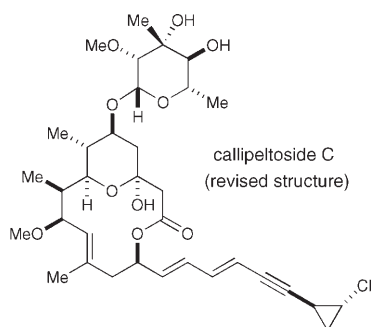


## Natural Products

J. Carpenter, A. B. Northrup, dM. Chung,  
J. J. M. Wiener, S.-G. Kim,  
D. W. C. MacMillan\* ————— **3568–3572**



Total Synthesis and Structural Revision of  
Callipeltoside C



**Look again:** Highlights of the 20-step synthesis of callipeltoside C include the proline-catalyzed direct aldol reaction, enantioselective  $\alpha$ -oxyamination reaction, and rapid access to the carbohydrate framework using a de novo synthesis protocol. Based on this work the previously assigned absolute configuration of the pendent 2-O-methylevalose unit has been revised.

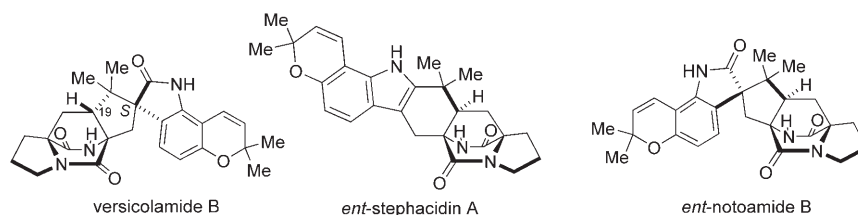


## Structure Elucidation

T. J. Greshock, A. W. Grubbs, P. Jiao,  
D. T. Wicklow, J. B. Gloer,  
R. M. Williams\* ————— **3573–3577**



Isolation, Structure Elucidation, and  
Biomimetic Total Synthesis of  
Versicolamide B, and the Isolation of  
Antipodal (–)-Stephacidin A and (+)-  
Notoamide B from *Aspergillus versicolor*  
NRRL 35600



**Stereochemically unique:** A new prenylated indole alkaloid, (+)-versicolamide B, has been isolated from cultures of *Aspergillus versicolor* NRRL 35600. The structure has been assigned by 2D NMR experiments, and confirmed by a biomimetic

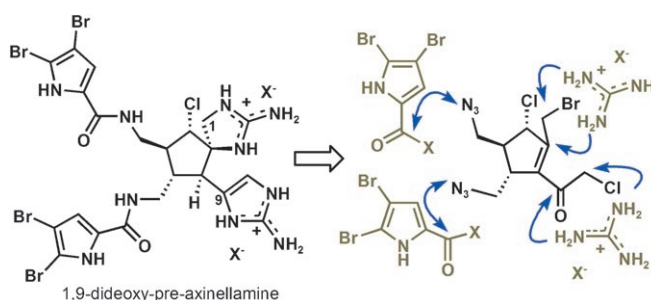
total synthesis. Versicolamide B is the first member of the paraherquamide/stephacidin family of alkaloids found to possess the *anti* relative stereochemistry at C19. *ent*-Stephacidin A and *ent*-notoamide B were also isolated for the first time.

## Natural Products

J. Yamaguchi, I. B. Seiple, I. S. Young,  
D. P. O'Malley, M. Maue,  
P. S. Baran\* ————— **3578–3580**

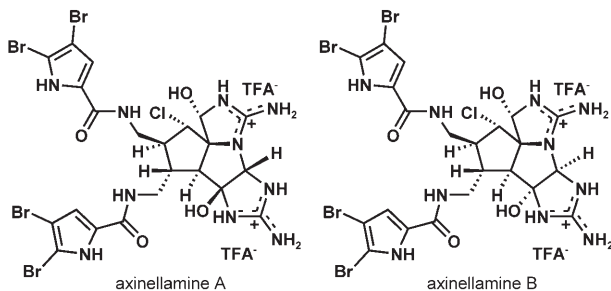


Synthesis of 1,9-Dideoxy-pre-axinellamine



**Within reach:** A 19-step route to 1,9-dideoxy-pre-axinellamine has been designed and executed. This key com-

pound represents a hypothetical precursor to an entire family of alkaloid natural products.



**Chemoselective by design:** The first total synthesis of members of the axinellamine/palau'amine/massadine class of pyrrole-imidazole alkaloids features uncon-

ventional transformations on completely unprotected polyamino and hydroxylated substrates and a new method for chemoselective oxidations in such settings.

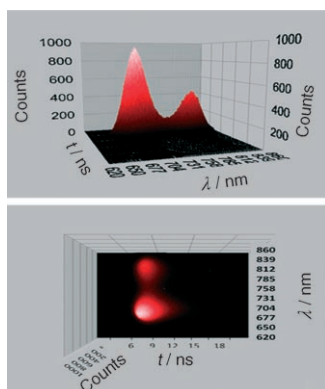
### Natural Products

D. P. O'Malley, J. Yamaguchi, I. S. Young, I. B. Seiple, P. S. Baran\* — 3581–3583

Total Synthesis of (±)-Axinellamines A and B



**Bilingual fluorescent molecules:** An array of asymmetric carbocyanines capable of dual fluorescence emissions in the near-infrared region is described (see image). The fluorescent molecules are robust in different pH and solvents. Additionally, each fluorescence peak possesses a distinct fluorescence lifetime. These properties are retained after conjugation of the dyes with small bioactive peptides.



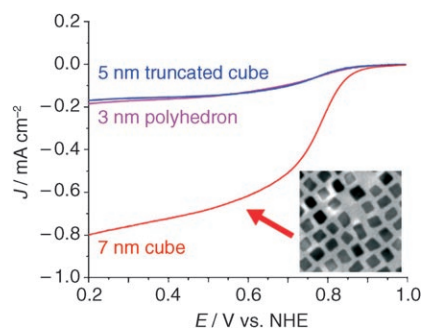
### Dichromic Molecules

Z. Zhang, M. Y. Berezin, J. L. F. Kao, A. d'Avignon, M. Bai, S. Achilefu\* — 3584–3587

Near-Infrared Dichromic Fluorescent Carbocyanine Molecules



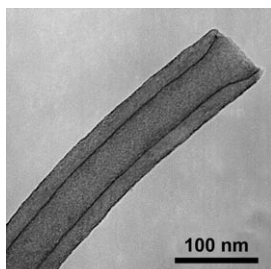
**Catalytic cobblestones:** Monodisperse platinum nanoparticles were prepared with controlled sizes (3–7 nm) and shapes (polyhedron, truncated cube, or cube). The cubic nanoparticles are a much more active cathode catalyst for the oxygen reduction reaction: the current density  $j$  from 7 nm cubes is four times that of the other shapes (see picture), indicating great potential for fuel cell applications.



### O<sub>2</sub> Reduction

C. Wang, H. Daimon, T. Onodera, T. Koda, S. Sun\* — 3588–3591

A General Approach to the Size- and Shape-Controlled Synthesis of Platinum Nanoparticles and Their Catalytic Reduction of Oxygen



**Controlled growth:** A non-aqueous approach inspired from sol-gel chemistry and adapted to the formation of metal oxide thin films by means of atomic layer deposition is presented. The process is based on the reaction of a carboxylic acid with an alkoxide. Growth of metal oxides is achieved at temperatures as low as 50°C on various supports including carbon nanotubes (see TEM picture). The as-grown films show excellent uniformity and possess good dielectric properties.

### Thin Films

E. Rauwel, G. Clavel, M.-G. Willinger, P. Rauwel, N. Pinna\* — 3592–3595

Non-Aqueous Routes to Metal Oxide Thin Films by Atomic Layer Deposition



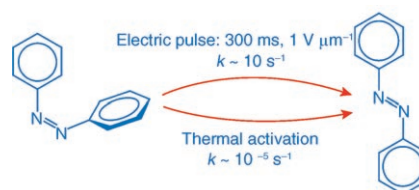
## Electroisomerization

X. Tong, M. Pelletier, A. Lasia,  
Y. Zhao\* 3596–3599



Fast *Cis–Trans* Isomerization of an Azobenzene Derivative in Liquids and Liquid Crystals under a Low Electric Field

A dramatically increased rate of *cis–trans* isomerization of an azobenzene derivative dissolved in liquids (e.g. benzonitrile) and liquid crystals relative to the corresponding thermally activated process can be achieved by applying a low static electric field (see picture) without adding any supporting electrolyte. This electric-field-induced isomerization can affect the electrooptical behavior of azobenzene-doped liquid crystals.

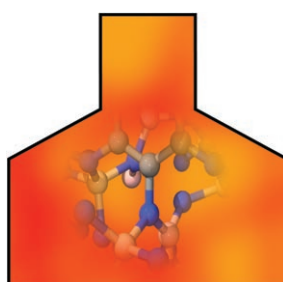


## Nitridic Ceramics

Y. H. Sehlleier, A. Verhoeven,  
M. Jansen\* 3600–3602



Observation of Direct Bonds between Carbon and Nitrogen in Si-B-N-C Ceramic after Pyrolysis at 1400 °C



● C  
● N  
● B  
● Si

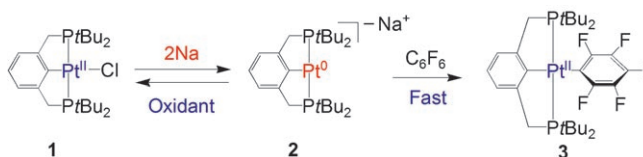
An unlikely couple: Carbon and nitrogen usually go separate ways above 600 °C, but in a precursor-derived high-performance SiBNC ceramic pyrolyzed at 1400 °C the presence of carbon–nitrogen bonds was demonstrated by using various double-resonance solid-state NMR techniques in combination with a novel isotope labeling scheme.

## Coordination Chemistry

L. Schwartzburd, R. Cohen,  
L. Konstantinovski,  
D. Milstein\* 3603–3606



A Pincer-Type Anionic Platinum(0) Complex



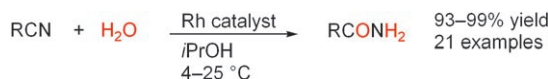
**Holding a Pt<sup>0</sup> anion in a pincer:** Reduction of the pincer-type Pt<sup>II</sup> complex **1** results in the formation of the thermally stable anionic Pt<sup>0</sup> complex **2**. This complex adopts a T-shaped structure and exhibits diverse reactivity, including efficient elec-

tron-transfer processes in which **2** is re-oxidized quantitatively to Pt<sup>II</sup>. Protonation of **2** with water gives a Pt<sup>II</sup> hydride complex, and C–F activation under mild conditions leads to **3** (see scheme).

## Nitrile Hydration

A. Goto, K. Endo, S. Saito\* 3607–3609

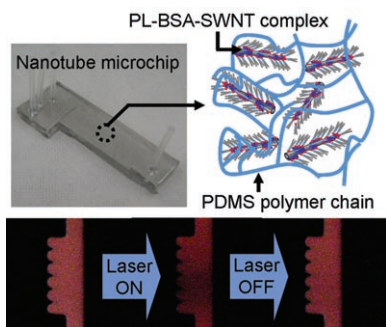
Rh<sup>I</sup>-Catalyzed Hydration of Organonitriles under Ambient Conditions



**New scoop on scope and selectivity:** The hydration of organonitriles catalyzed by a Rh<sup>I</sup>(OMe) species under nearly pH-neutral and ambient conditions (25 °C, 1 atm) is chemoselective and high-yielding (93 to

99%), has a broad substrate scope, and may thus be complementary to enzymatic hydration methods for the introduction of a terminal amido group (CONH<sub>2</sub>) onto a carbon chain.





**Rapid temperature control:** A phospholipid-bovine serum albumin functionalized single-walled carbon nanotube complex (PL-BSA-SWNT) was found to be readily dispersible in poly(dimethylsiloxane) (PDMS). A photoinduced PDMS microchip encapsulating this complex is capable of achieving ultrarapid control of the temperature of a solution contained in one of its microchannels (see image).

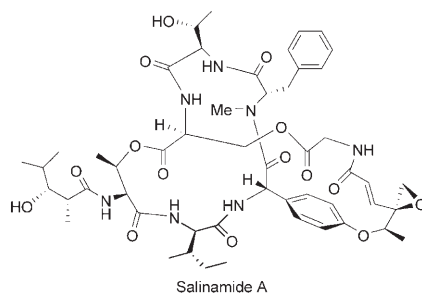
### Nanotube-Polymer Composites

E. Miyako,\* H. Nagata, K. Hirano, T. Hirotsu \_\_\_\_\_ 3610–3613

Carbon Nanotube-Polymer Composite for Light-Driven Microthermal Control



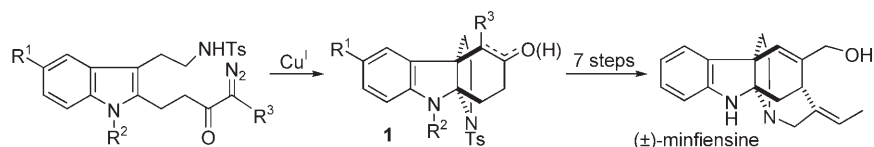
**It's swell!** The first total synthesis of potent anti-inflammatory agent salinamide A was achieved. This synthesis features a concise elaboration of the phenylglycine-derived epoxide fragment and the identification of two possible macrolactamization sites (see scheme).



### Natural Products

L. Tan, D. Ma\* \_\_\_\_\_ 3614–3617

Total Synthesis of Salinamide A: A Potent Anti-Inflammatory Bicyclic Depsipeptide



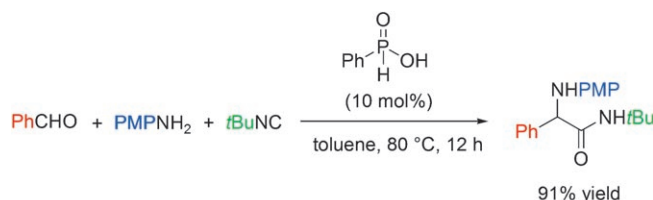
**Cascading into (±)-minfiensine:** An efficient method was developed for the assembly of tetracyclic skeleton **1** by a three-step, one-pot cascade reaction including cyclopropanation, ring opening,

and ring closure (see scheme; Ts = *p*-toluenesulfonyl). The concise total synthesis of the (±)-minfiensine was completed in about a 4% overall yield.

### Natural Products

L. Shen, M. Zhang, Y. Wu, Y. Qin\* \_\_\_\_\_ 3618–3621

Efficient Assembly of an Indole Alkaloid Skeleton by Cyclopropanation: Concise Total Synthesis of (±)-Minfiensine



**Perfect atom economy** characterizes a novel catalytic three-component Ugi reaction (see example). Different  $\alpha$ -amino amides are formed in good yields from aldehydes, primary amines, and isocya-

nides in the presence of phenyl phosphonic acid as the catalyst. The products will be useful for the synthesis of  $\alpha$ -amino acid derivatives and in diversity-oriented synthesis.

### Multicomponent Reactions

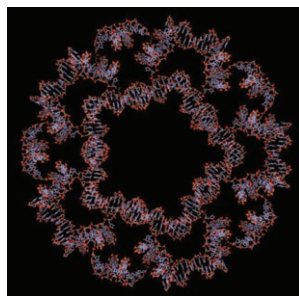
S. C. Pan, B. List\* \_\_\_\_\_ 3622–3625

Catalytic Three-Component Ugi Reaction



## DNA Nanostructures

J. Zimmermann, M. P. J. Cebulla,  
S. Mönninghoff,  
G. von Kiedrowski\* — 3626–3630

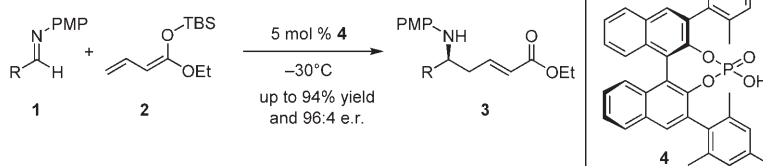


Can 20 trisigonucleotides with  $20 \times 3$  individual sequences be programmed to self-assemble into a DNA dodecahedron? The answer is yes if one starts from a new generation of trisigonucleotides based on  $C_{3h}$ -symmetric linkers with proper flexibility. The resulting dodecahedron has  $C_1$  symmetry and may facilitate the construction of multimodular scaffolds in the future.

## Asymmetric Catalysis

M. Sickert, C. Schneider\* — 3631–3634

The Enantioselective, Brønsted Acid Catalyzed, Vinylogous Mannich Reaction



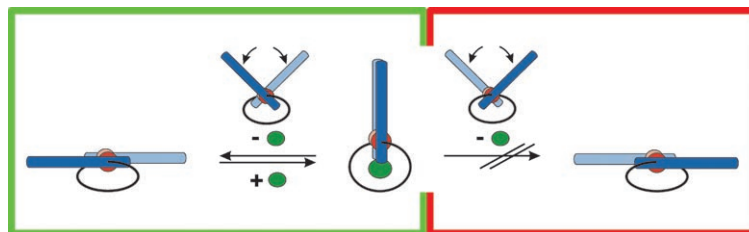
Chiral phosphoric acid **4** catalyzes enantioselectively the highly  $\gamma$ -regioselective addition of a silyl dienolate **2** to imines **1** in good yields and furnishes  $\alpha,\beta$ -unsaturated  $\delta$ -amino carboxylic esters **3** in one

step. The reaction may also be carried out as a direct three-component coupling (PMP = *para*-methoxyphenyl; TBS = *tert*-butyldimethylsilyl).

## Molecular Machines

G. Haberhauer\* — 3635–3638

Control of Planar Chirality: The Construction of a Copper-Ion-Controlled Chiral Molecular Hinge



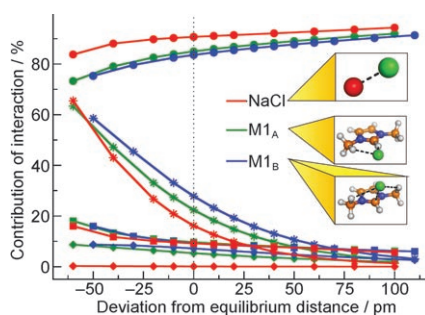
**An open-and-closed case:** When a chiral clamp is attached to a molecular hinge the open–close motion induced by coordination to a metal ion becomes unidirectional (see scheme). The large change in ampli-

tude caused by the unidirectional rotation and the relatively simple preparation of the hinge open up the possibility of using this concept for even more-complex molecular machines.

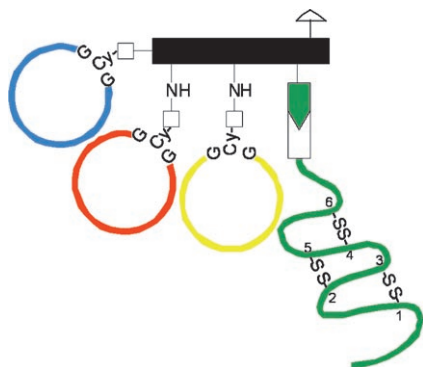
## Ionic Liquids

S. Zahn, F. Uhlig, J. Thar, C. Spickermann,  
B. Kirchner\* — 3639–3641

Intermolecular Forces in an Ionic Liquid ([Mmim][Cl]) versus Those in a Typical Salt (NaCl)



**A subtle difference:** In ionic liquids the “weak” dispersion forces have a significant impact on the shape of the potential energy surface, which results in a shallow profile when all of the contributions are considered. Such findings are commonly accepted to determine the liquid state.



The synthesis of a 23-kDa protein that mimics the ligand-binding extracellular part of a G-protein-coupled receptor shows the potential of a combined recombinant, enzymatic, and chemical synthesis (CRECS) strategy. The mimic of the corticotropin-releasing factor receptor, synthesized from single domains by chemical ligation and sortase A-mediated coupling, has a high affinity for natural ligands.

## Protein Mimics

S. Pritz, O. Kraetke, A. Klose, J. Klose, S. Rothmund, K. Fechner, M. Bienert, M. Beyermann\* \_\_\_\_\_ 3642–3645

Synthesis of Protein Mimics with Nonlinear Backbone Topology by a Combined Recombinant, Enzymatic, and Chemical Synthesis Strategy



Supporting information is available on [www.angewandte.org](http://www.angewandte.org) (see article for access details).



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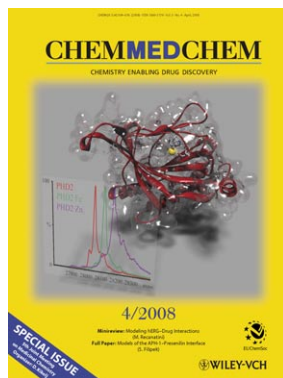
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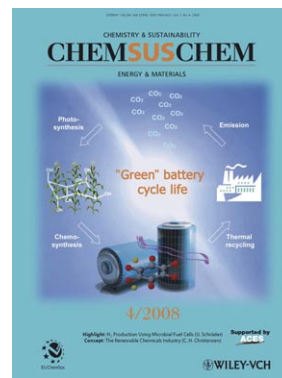
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