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 soon:

*L. Alaerts, C. E. A. Kirschhock, M. Maes, M. A. v. d. Veen, V. Finsy, A. Depla, J. A. Martens, G. V. Baron, P. A. Jacobs, J. F. M. Denayer, D. E. De Vos**
Selective Adsorption and Separation of Xylene Isomers and Ethylbenzene with the Microporous Vanadium(IV) Terephthalate MIL-47

*Z. Chen, M. Waje, W. Li, Y. Yan**
Supportless Pt and PtPd Nanotubes as Electrocatalysts for Oxygen Reduction Reactions

M. Movassaghi, M. A. Schmidt*
Concise Total Synthesis of (-)-Calycanthine, (+)-Chimonanthine, and (+)-Folicanthine

*N. Agrawal, Y. A. Hassan, V. M. Ugaz**
A Pocket-Sized Convective PCR Thermocycler

*K. Beckerle, R. Manivannan, B. Lian, G.-J. M. Meppelder, G. Raabe, T. P. Spaniol, H. Ebeling, F. Pelascini, R. Mülhaupt, J. Okuda**
Stereospecific Styrene Enchainment at a Titanium Site within a Helical Ligand Framework: Evidence for the Formation of Homochiral Polystyrene

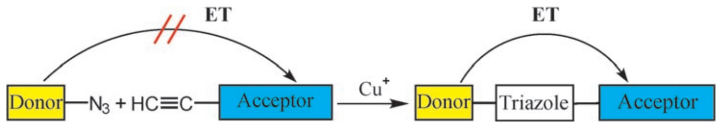
*O. Shoji, T. Fujishiro, H. Nakajima, M. Kim, S. Nagano, Y. Shiro, Y. Watanabe**
Hydrogen Peroxide Dependent Monooxygenations by Tricking the Substrate Recognition of Cytochrome P450$_{BS\beta}$

News

Books

Highlights

Click Chemistry



Copper concentrations at a click: The copper(I)-catalyzed Huisgen cycloaddition (the "click reaction") enables micromolar concentrations of physiologically active Cu$^+$ ions to be sensed through photonic energy transfer (ET, see scheme), and offers great potential in terms of labeling methods.

Correspondence

Carbodiphosphoranes

The conclusions drawn from results of recent theoretical and experimental investigations on the chemistry of carbodiphosphoranes are reconsidered in light of the state-of-the-art reached after extensive investigations that were carried out a few decades ago.

Contents

Carbodiphosphoranes

G. Frenking,* B. Neumüller,* W. Petz,*
R. Tonner, F. Öxler ________ **2986 – 2987**

Reply to Réplique: A New Concept for Bonding in Carbodiphosphoranes?

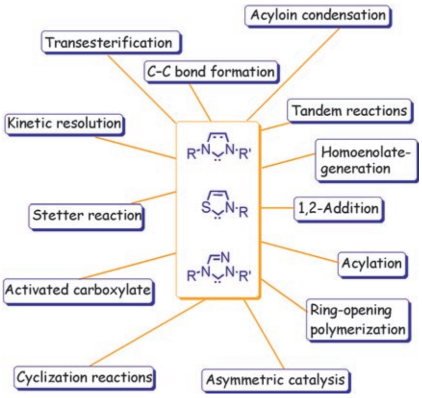
Neither is the synthesis of a molecule a mere technical conformation of a theoretical prediction, nor is a quantum chemical investigation a mere supplement to experimental work—the two sides rather complement each other. The theoretical study in question has shown that more compounds of the general formula EL_2 with donor–acceptor bonds may exist which await synthesis.

Minireviews

Organocatalysis

N. Marion, S. Díez-González,*
S. P. Nolan* ____________ **2988 – 3000**

N-Heterocyclic Carbenes as Organocatalysts



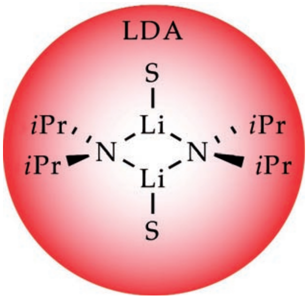
Gifted NHCs: The scope of N-heterocyclic carbenes (NHCs) as organocatalysts has been broadened tremendously in the last few years (see picture). The numerous novel reactions catalyzed by NHCs, as well as their mechanistic implications, are reviewed.

Reviews

Lithium Reagents

D. B. Collum,* A. J. McNeil,
A. Ramirez ____________ **3002 – 3017**

Lithium Diisopropylamide: Solution Kinetics and Implications for Organic Synthesis



Lessons learned: Lithium diisopropylamide metalates organic substrates through a variety of mechanisms. Although the mechanistic complexity can be daunting, this Review attempts to distill mechanistic studies down to a collection of simple maxims, with particular attention paid to the influence of solvation and aggregation on reactivity.

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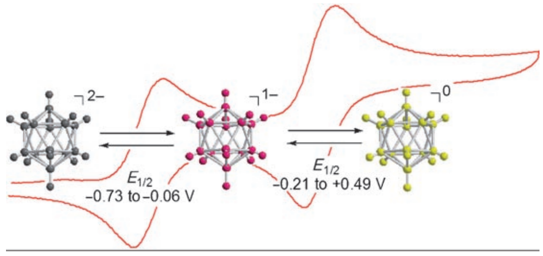
Communications

Polyhedral Boranes

M. W. Lee, O. K. Farha, M. F. Hawthorne,*
C. H. Hansch ______ 3018 – 3022

Alkoxy Derivatives of Dodecaborate: Discrete Nanomolecular Ions with Tunable Pseudometallic Properties

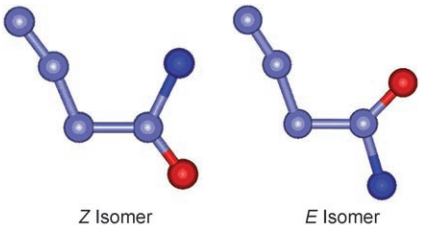


Twelve of one, a dozen of the other: Synthetic pseudometallic molecules were prepared by fully substituting the $[B_{12}H_{12}]^{2-}$ ion with 12 alkoxy groups. Reversible redox reactions reveal substituent-dependent potentials varying over 1.2 V (see picture) which were characterized and correlated using Hammett and QSAR linear free-energy relationships.

Inorganic Cations

W. W. Wilson, R. Haiges, J. A. Boatz,
K. O. Christe* ______ 3023 – 3027

Synthesis and Characterization of (*Z*)-$[N_3NFO]^+$ and (*E*)-$[N_3NFO]^+$



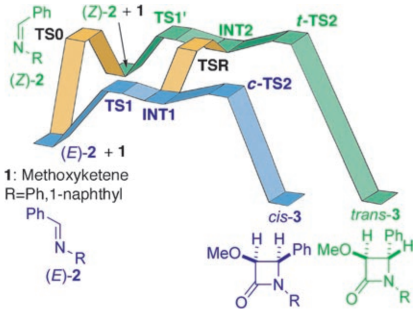
A new stable polynitrogen ion: The second known example of a stable nitrogen fluoride oxide ion, $[N_3NFO]^+$, was prepared as its $[SbF_6]^-$ salt and characterized by multinuclear NMR and vibrational spectroscopy and electronic-structure calculations. The cation is planar and exists as two stereoisomers (see picture; N blue, O red, F dark blue).

Staudinger Reaction

B. K. Banik, B. Lecea, A. Arrieta,
A. de Cózar, F. P. Cossío* ______ 3028 – 3032

On the Stereodivergent Behavior Observed in the Staudinger Reaction between Methoxyketene and (*E*)-*N*-Benzylidenearyl Amines

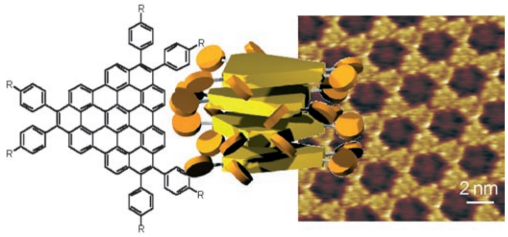
The answer is out there: Detailed calculations on the Staudinger reaction between methoxyketene and imines derived from aromatic amines show that the stereochemistry of the reaction is determined by an isomerization barrier that does not belong to the cycloaddition stages (see picture).



Polycyclic Hydrocarbons

X. Feng, J. Wu, M. Ai, W. Pisula, L. Zhi,
J. P. Rabe, K. Müllen* ______ 3033 – 3036

Triangle-Shaped Polycyclic Aromatic Hydrocarbons



Triangles and zigzags: Large triangle-shaped C_3-symmetrical polycyclic aromatic hydrocarbons with multiple zigzag peripheries were synthesized. The molecules display mesophase stability over a wide temperature range as a result of helical packing. Moreover, a 2D honeycomb pattern was observed for one of the larger structures (see picture).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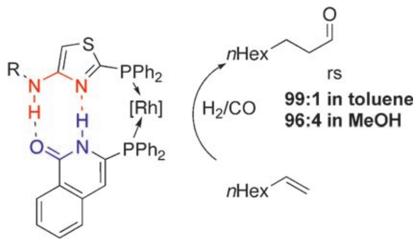
Combinatorial Catalysis

C. Waloch, J. Wieland, M. Keller,
B. Breit* ________ **3037 – 3039**

Self-Assembly of Bidentate Ligands for Combinatorial Homogeneous Catalysis: Methanol-Stable Platforms Analogous to the Adenine–Thymine Base Pair

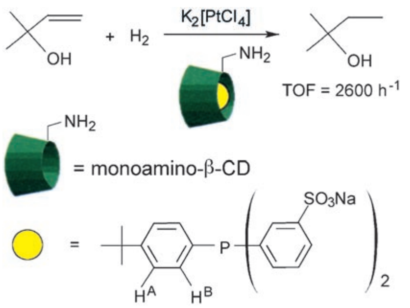


Complementary partners: A combinatorial library of self-assembled ligand systems has been designed by analogy to the A–T base pair. When these ligand systems are applied in the rhodium-catalyzed hydroformylation of 1-octene (see scheme), high regioselectivities (rs) are obtained, even in the protic solvent methanol.

Host–Guest Systems

C. Machut, J. Patrigeon, S. Tilloy,
H. Bricout, F. Hapiot,
E. Monflier* ________ **3040 – 3042**

Self-Assembled Supramolecular Bidentate Ligands for Aqueous Organometallic Catalysis

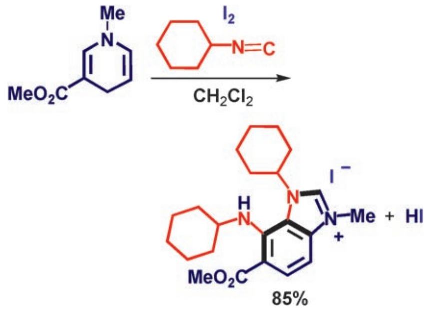


Sugar snap P: An N,P heterobidentate supramolecular ligand was synthesized in water by mixing a monoamino-β-cyclodextrin with an appropriate phosphane. The resultant assembly was used with a platinum(II) salt in aqueous medium to catalyze the hydrogenation of an allylic alcohol (see picture).

Synthetic Methods

C. Masdeu, E. Gómez, N. A. O. Williams,
R. Lavilla* ________ **3043 – 3046**

Double Insertion of Isocyanides into Dihydropyridines: Direct Access to Substituted Benzimidazolium Salts

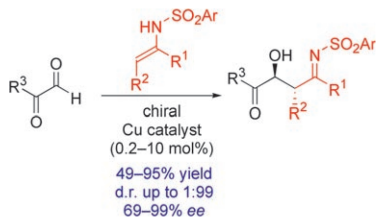


Double agent: The insertion of two isocyanide molecules into the dihydropyridine ring in the presence of iodine results in the formation of a benzimidazole core (see scheme). Four bonds are generated (bold lines) in a highly efficient and atom-economical manner. Access to a range of benzimidazolium derivatives is possible through a cascade reaction.

Synthetic Methods

R. Matsubara, T. Doko, R. Uetake,
S. Kobayashi* ________ **3047 – 3050**

Enesulfonamides as Nucleophiles in Catalytic Asymmetric Reactions

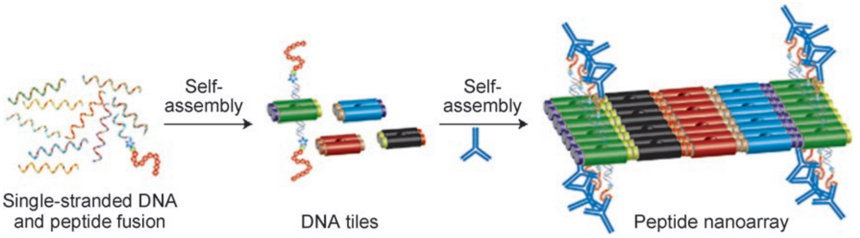


A biased copper-coin toss: Highly diastereo- and enantioselective copper-catalyzed addition reactions of enesulfonamides to α-keto aldehydes and azodicarboxylates have been developed. Low loadings of the chiral copper catalyst efficiently promoted the reaction (see scheme). The product sulfonylimines could be reduced diastereoselectively to the biologically important chiral sulfonamide compounds.

Peptide–Antibody Nanoarrays

B. A. R. Williams, K. Lund, Y. Liu, H. Yan,*
J. C. Chaput* ____________ **3051 – 3054**

Self-Assembled Peptide Nanoarrays: An Approach to Studying Protein–Protein Interactions



On show: High-density peptide arrays capable of displaying many different amino acid sequences at well-defined and addressable locations on the same DNA nanostructure have been produced. The strategy used relies on the genetic information encoded in the nucleic acid portion of a DNA-tagged peptide to position the amino acid sequence at a predetermined location on the array.

Liquid Crystals

M. Shimizu,* M. Nata, K. Mochida,
T. Hiyama, S. Ujiie,* M. Yoshio,
T. Kato* ____________ **3055 – 3058**

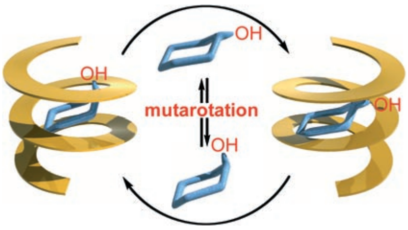
1-Alkyl-2,3,5,6,7,8-hexasilabicyclo-[2.2.2]octanes: Unconventional Class of Mesomorphic Columnar Compounds

Phasing up to matters: Hexagonal columnar mesophases have been formed by polysilacage compounds based on 1-alkyl-2,3,5,6,7,8-hexasilabicyclo-[2.2.2]octanes that contain neither aromatic rings nor long alkyl chains. These mesophases have been characterized by polarizing optical photomicroscopy (see picture), differential scanning calorimetry, and diffraction studies.

Molecular Recognition

M. Waki, H. Abe,*
M. Inouye* ____________ **3059 – 3061**

Translation of Mutarotation into Induced Circular Dichroism Signals through Helix Inversion of Host Polymers

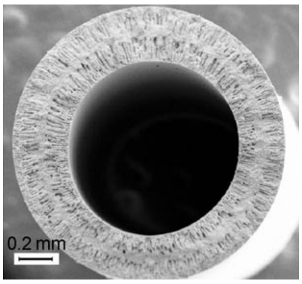


About turn: The preferred helical sense of the complex formed between glucose and the *meta*-ethynylpyridine polymer in aqueous methanol is inverted by mutarotation (see picture). The strong circular dichroism effects induced by pure α- and β-D-glucose weakened with time because the diastereomer excess decreased through mutarotation. The transition curve of the ellipticity closely reflected that of the anomer ratio.

Zirconia Macrocapsules

S. Liu, L. Liu, Z. P. Xu, A. Yu, G. Q. Lu,*
J. C. Diniz da Costa ________ **3062 – 3065**

Bioceramic Macrocapsules for Cell Immunoisolation

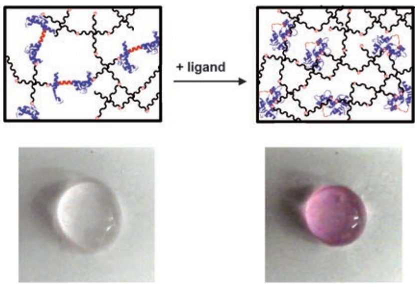


A bone to pick: Tailor-made zirconia macrocapsules are biocompatible and friendly to MC3T3-E1 cells and can facilitate osteoblast cell differentiation. Cells encapsulated within such capsular chambers are viable and grow well by absorbing the nutrients permeated through the capsule micropores from the outside environment. These capsules are promising as immunoisolation medical templates for bone-tissue engineering.

Dynamic Hydrogels

W. L. Murphy, W. S. Dillmore, J. Modica,
M. Mrksich* ——— **3066–3069**

Dynamic Hydrogels: Translating a Protein Conformational Change into Macroscopic Motion

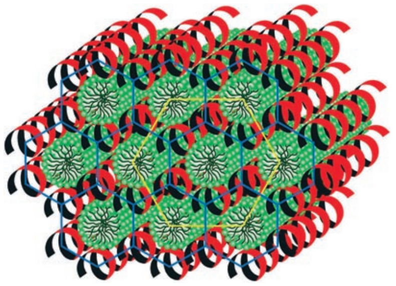


Natural inspiration: A bioinspired functional material in the form of a hydrogel created by cross-linking an engineered version of calmodulin, a protein which undergoes a conformational change in response to ligand binding (see schematic representation), with a four-armed poly(ethylene glycol) molecule terminated with acrylate groups decreased in volume by 20% when treated with the ligand trifluoperazine. Multiple cycles of gel swelling and shrinkage were possible.

Molecular Recognition

M. Banchelli, D. Berti,*
P. Baglioni* ——— **3070–3073**

Molecular Recognition Drives Oligonucleotide Binding to Nucleolipid Self-Assemblies



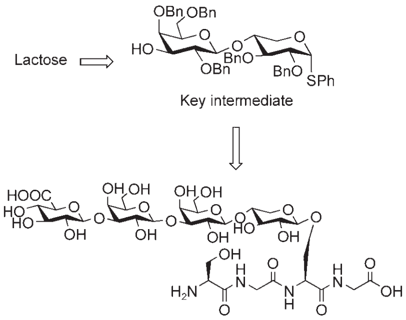
Ordered interactions: Selective supramolecular association of oligonucleotides with like-charged amphiphilic self-assemblies in aqueous solution, in the absence of divalent cations, is reported. A structural model of the nucleolipoplex, the ordered mesophase formed upon interaction of DNA (red) with anionic nucleolipid assemblies (green), is shown. The hexagonal arrangement is templated by the complementary polynucleotide.

Oligosaccharide Synthesis

K. Shimawaki, Y. Fujisawa, F. Sato,
N. Fujitani, M. Kurogochi, H. Hoshi,
H. Hinou, S.-I. Nishimura* **3074–3079**

Highly Efficient and Versatile Synthesis of Proteoglycan Core Structures from 1,6-Anhydro-β-lactose as a Key Starting Material

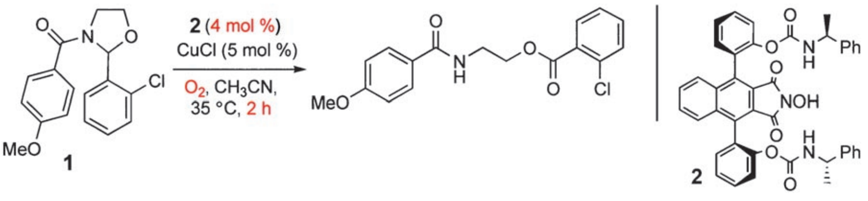
Versatile building blocks in the form of novel derivatives of 1,6-anhydro-β-lactose have been used for the rapid and highly efficient synthesis of various proteoglycan core structures (see example). The resulting oligosaccharide–tetrapeptide conjugates can be used to investigate the mechanism of biosynthesis of glycosaminoglycans in human cartilage cells. Bn = benzyl.



Asymmetric Catalysis

M. Nechab, D. N. Kumar, C. Philouze,
C. Einhorn, J. Einhorn* ——— **3080–3083**

Variable C_2-Symmetric Analogues of *N*-Hydroxyphthalimide as Enantioselective Catalysts for Aerobic Oxidation: Kinetic Resolution of Oxazolidines



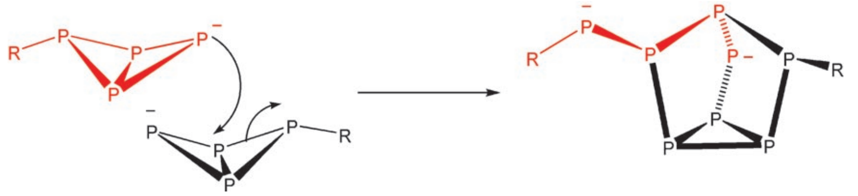
Fast and selective: The aerobic oxidative ring opening of oxazolidine **1** in the presence of a catalytic amount of the chiral *N*-hydroxyphthalimide analogue **2** was accompanied by efficient kinetic resolution of the oxazolidine. Thus, 50.5% conversion was attained within 2 h, and the remaining **1** had an *ee* value of 89%. The corresponding stereoselectivity factor, $s = k_{\text{rel(fast/slow)}}$, is very high at around 40.

Contents

P$_4$ activation

W. T. K. Chan, F. García, A. D. Hopkins,*
L. C. Martin, M. McPartlin,
D. S. Wright* ______ **3084–3086**

An Unexpected Pathway in the Cage Opening and Aggregation of P$_4$

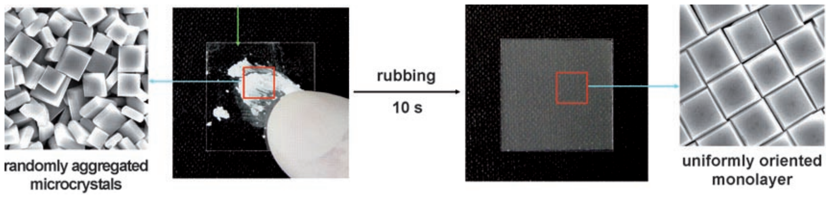


Graceful degradation: The reaction of the [(Me$_3$Si)$_3$Si]$^-$ ion with white phosphorus results in a new phosphorus-based dianion (see scheme; R=Si(SiMe$_3$)$_3$), apparently arising from the unexpected aggregation of two [RP$_4$]$^-$ units into a P$_7$ nortricyclic core with an *exo* anionic P atom. The formation of this dianion sheds new light on the mechanism(s) of P$_4$ degradation by nucleophiles and the ability of silyl substituents to direct product formation.

Monolayers

J. S. Lee, J. H. Kim, Y. J. Lee, N. C. Jeong,
K. B. Yoon* ______ **3087–3090**

Manual Assembly of Microcrystal Monolayers on Substrates



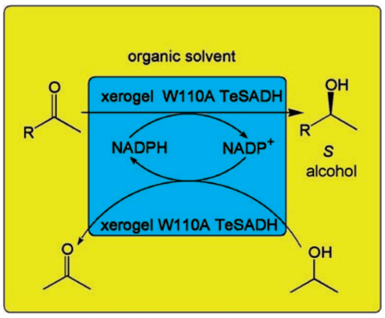
Do-it-yourself: Monolayers of molecules and nanoparticles should be prepared on substrates only by self-assembly, but monolayers of microparticles can be produced by both self-assembly and direct manual attachment as if they are tiles (see picture). The quality of the monolayers is better when they are assembled by hand than by self-assembly.

Sol–Gel Processes

M. M. Musa, K. I. Ziegelmann-Fjeld,
C. Vieille, J. G. Zeikus,
R. S. Phillips* ______ **3091–3094**

Xerogel-Encapsulated W110A Secondary Alcohol Dehydrogenase from *Thermoanaerobacter ethanolicus* Performs Asymmetric Reduction of Hydrophobic Ketones in Organic Solvents

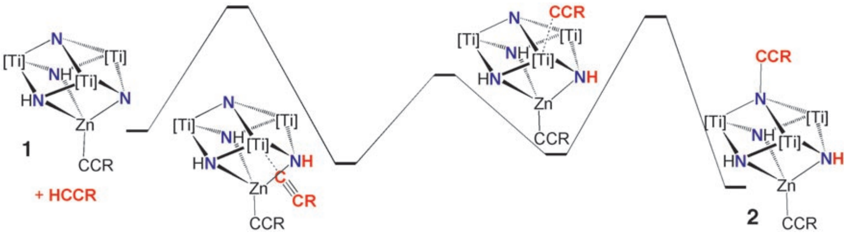
To gel well: The asymmetric reduction of hydrophobic ketones by xerogel-immobilized W110A secondary alcohol dehydrogenase from *Thermoanaerobacter ethanolicus* (TeSADH) in organic solvents affords their *S*-configured alcohols in yields comparable with those achieved by using the free enzyme, and, in some cases, with higher enantioselectivities. R=phenyl-ring-containing substituent.



Heterometallic Cubes

J. J. Carbó, A. Martín, M. Mena,*
A. Pérez-Redondo, J.-M. Poblet,
C. Yélamos ______ **3095–3098**

Addition of Terminal Alkynes to a Molecular Titanium–Zinc Nitride

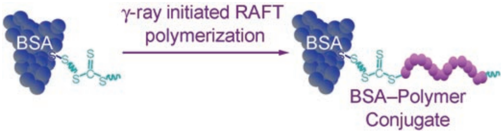


Cubic cages: The alkynylimido clusters **2** ([Ti]=Ti(η^5-C$_5$Me$_5$); R=SiMe$_3$, Ph) are formed upon reaction of **1** with terminal alkynes. Density functional calculations show that the process involves a two-electron reduction of the Ti$_3$ fragment. A concerted C–H activation, which leads to an alkynyl titanium complex, is followed by alkynyl migration to the apical nitrido ligand (see picture).

Polymer–Protein Conjugates

J. Liu, V. Bulmus,* D. L. Herlambang, C. Barner-Kowollik, M. H. Stenzel, T. P. Davis* ———— **3099 – 3103**

In Situ Formation of Protein–Polymer Conjugates through Reversible Addition Fragmentation Chain Transfer Polymerization

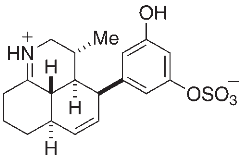


A good place for rafting: Bovine serum albumin (BSA) was site-specifically modified with a reversible addition fragmentation chain transfer (RAFT) agent and used in γ-radiation-initiated polymerization of oligo(ethylene glycol) acrylate. Well-defined polymer chains were formed at the RAFT agent conjugation site of BSA leading to the generation of BSA–polymer conjugates in situ.

Biomimetic Synthesis

J. Kim, R. J. Thomson* ———— **3104 – 3106**

Enantioselective Total Synthesis of the Osteoclastogenesis Inhibitor (+)-Symbioimine



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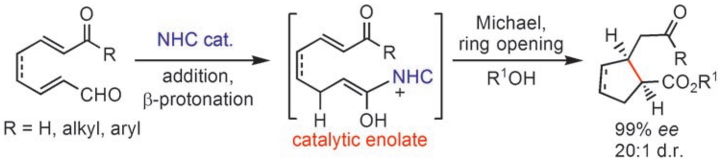
No bones about it: The first enantioselective total synthesis of the osteoclastogenesis inhibitor (+)-symbioimine (**1**) has been achieved. The synthesis features a convergent enol silane addition to a dimethyl acetal and a key, possibly biomimetic, intramolecular Diels–Alder reaction promoted by a dihydropyridinium ion to build four of the five requisite stereocenters in one step.

Asymmetric Catalysis

E. M. Phillips, M. Wadamoto, A. Chan, K. A. Scheidt* ———— **3107 – 3110**

A Highly Enantioselective Intramolecular Michael Reaction Catalyzed by N-Heterocyclic Carbenes



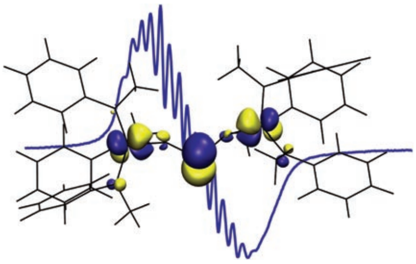
Metal-less Michael: A highly diastereo- and enantioselective intramolecular Michael addition of α,β-unsaturated aldehydes to enones catalyzed by an N-heterocyclic carbene (NHC) has been developed. The reaction is tolerant of alkyl and aromatic substituents, as well as saturated and unsaturated tethers between the enal and conjugate acceptor (see scheme).

Phosphorus Radicals

P. Agarwal, N. A. Piro, K. Meyer, P. Müller, C. C. Cummins* ———— **3111 – 3114**

An Isolable and Monomeric Phosphorus Radical That Is Resonance-Stabilized by the Vanadium(IV/V) Redox Couple

Aiding and abetting a wanted radical: The neutral phosphorus radical $[^{\bullet}P\{NV[N(Np)Ar]_3\}_2]$ (Np = neopentyl, $Ar = 3,5\text{-}Me_2C_6H_3$) exists as a monomer in the solid state and is resonance-stabilized by two nitridovanadium trisanilide metalloligands through the V^{IV}/V^{V} redox couple (see EPR trace and calculated SOMO of $[^{\bullet}P\{NV[N(Me)Ph]_3\}_2]$). The compound undergoes radical reactions at its phosphorus center to form diamagnetic compounds.



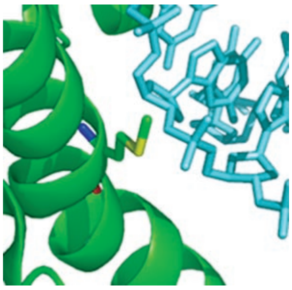
Contents

DNA Lesions

C. Gloeckner, K. B. M. Sauter,
A. Marx* ———— 3115 – 3117

Evolving a Thermostable DNA Polymerase That Amplifies from Highly Damaged Templates

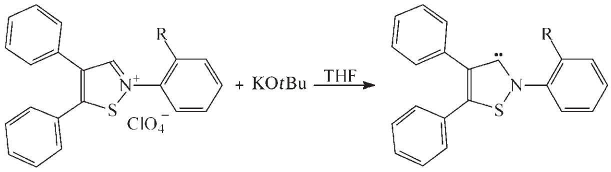
The foreign lesion: DNAs with damage generated, for example, by UV light are not good targets for standard replicative DNA polymerases. A DNA polymerase has been derived by directed evolution that faithfully amplifies light-damaged DNA. Interestingly, a single mutation is sufficient for this property (see picture).



Stable Carbenes

J. Wolf,* W. Böhlmann, M. Findeisen,
T. Gelbrich, H.-J. Hofmann,
B. Schulze* ———— 3118 – 3121

Synthesis of Stable Isothiazole Carbenes



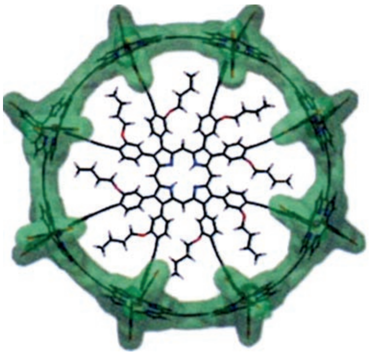
Through deprotonation of isothiazolium salts, stable substituted singlet carbenes of isothiazol-3-ylidenes (see scheme) could be synthesized for the first time. The carbenes, which were characterized by solid-state and solution NMR spectroscopy, undergo typical carbene reactions, such as dimerization and insertion into polarized X–H bonds, and might be important for a number of further reactions.

Bending Molecular Wires

M. Hoffmann, C. J. Wilson, B. Odell,
H. L. Anderson* ———— 3122 – 3125

Template-Directed Synthesis of a π-Conjugated Porphyrin Nanoring

Round the bend: Bending a molecular wire round an eight-spoked template leads to the formation of a highly symmetric belt-shaped π system (green in picture). Addition of a large excess of pyridine releases the corresponding cyclic octamer from the template.

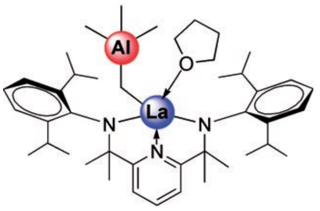


Lanthanide Complexes

M. Zimmermann, K. W. Törnroos,
R. Anwander* ———— 3126 – 3130

Alkyl Migration and an Unusual Tetramethylaluminate Coordination Mode: Unexpected Reactivity of Organolanthanide Imino–Amido–Pyridine Complexes

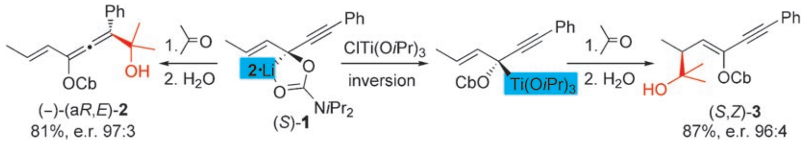
Remove-Al: Organolanthanide complexes with anionic ligands derived from bis(imino)pyridine give insight into organoaluminum-mediated alkylation of the ligand backbone and self-complexation. In addition, they provide structural evidence of the elusive η^1 coordination mode in $\{Ln(\mu\text{-}Me)AlMe_3\}$ (see picture).



Asymmetric Synthesis

R. Bou Chedid, M. Brümmer, B. Wibbeling, R. Fröhlich, D. Hoppe* ____ **3131 – 3134**

Stereo- and Regiochemical Divergence in the Substitution of a Lithiated Alk-1-en-3-yn-2-yl Carbamate: Synthesis of Highly Enantioenriched Vinylallenes or Alk-3-en-5-yn-1-ols

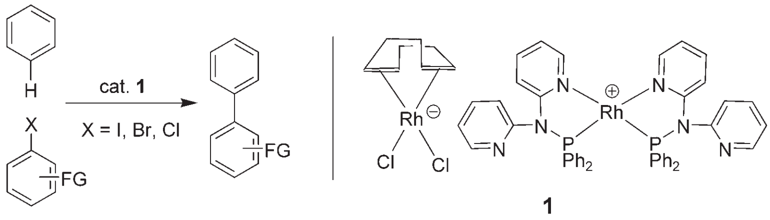


Alternative outcomes. The regio- and stereoselectivity of the hydroxyalkylation of a lithiated alk-1-en-3-yn-2-yl carbamate such as (*S*)-**1** can be controlled simply for the synthesis of highly enantioenriched vinylallenes **2**. Alternatively, lithium–titanium exchange proceeds with inversion of configuration, and addition of carbonyl electrophiles produces enantioenriched homoaldol products such as (*S*,*Z*)-**3** (see scheme, Cb = carbamoyl).

Cross-Coupling Reactions

S. Proch, R. Kempe* ____ **3135 – 3138**

An Efficient Bimetallic Rhodium Catalyst for the Direct Arylation of Unactivated Arenes

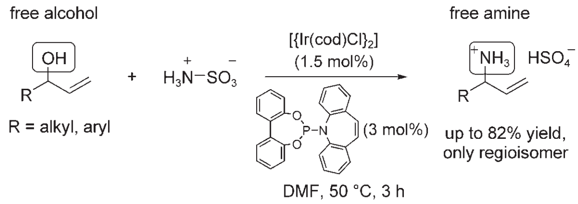


Together we stand: A novel N,P-ligand-stabilized bimetallic rhodium complex **1** accomplishes an efficient nondirected arylation of unactivated arenes. Aryl halides with several functional groups (FG) undergo these direct coupling reactions. The key to the catalytic efficiency is the bimetallic nature of the catalyst.

Allylic Amination

C. Defieber, M. A. Ariger, P. Moriel, E. M. Carreira* ____ **3139 – 3143**

Iridium-Catalyzed Synthesis of Primary Allylic Amines from Allylic Alcohols: Sulfamic Acid as Ammonia Equivalent

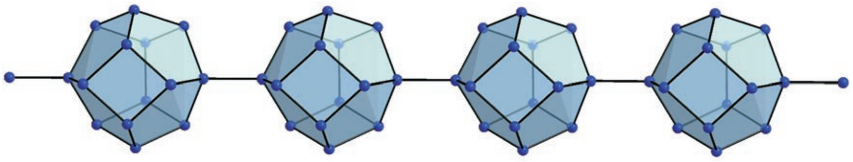


Two for the price of one: Sulfamic acid serves not only as a nitrogen source but also as an in situ activator of hydroxy groups in the first direct iridium-catalyzed synthesis of primary allylic amines from allylic alcohols (see scheme; cod = cycloocta-1,5-diene). The reaction is catalyzed by a commercially available iridium complex and a phosphoramidite-based bidentate phosphorus–olefin ligand.

Zintl Phases

S.-J. Kim, S. D. Hoffman, T. F. Fässler* ____ **3144 – 3148**

$Na_{29}Zn_{24}Sn_{32}$: A Zintl Phase Containing a Novel Type of $\{Sn_{14}\}$ Enneahedra and Heteroatomic $\{Zn_8Sn_4\}$ Icosahedra



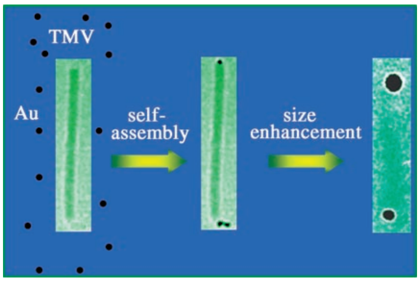
A new type of polyhedron: An $\{Sn_{14}\}$ enneahedron, which can be derived from a trigonal bipyramid by truncating the three equatorial vertices, occurs in linear chains in $Na_{29}Zn_{24}Sn_{32}$ (see picture; Sn blue). A pseudorotation of the $\{Sn_{14}\}$ enneahedron allows the number of covalent interactions within the complex three-dimensional atom arrangement to be adjusted, so that an electron-precise Zintl phase is attained.

Contents

Nanodumbbells

S. Balci, K. Noda, A. M. Bittner,* A. Kadri, C. Wege, H. Jeske, K. Kern **3149–3151**

Self-Assembly of Metal–Virus Nanodumbbells



Golden viruses: The rodlike tobacco mosaic virus and citrate-covered gold nanoparticles of 6-nm diameter self-assemble into a metal-virus nanodumbbell. The gold nanoparticles selectively bind to the ends of the rods, and can be enlarged by electroless deposition to yield gold-virus-gold dumbbells (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).

The issues for April 2007 appeared online on the following dates
Issue 13: March 9. · Issue 14: March 16. · Issue 15: March 23. · Issue 16: April 5

Service

Corrigendum

Towards Biological Supramolecular Chemistry: A Variety of Pocket-Templated, Individual Metal Oxide Cluster Nucleations in the Cavity of a Mo/W-Storage Protein

J. Schemberg, K. Schneider, U. Demmer, E. Warkentin, A. Müller,* U. Ermler* **2408–2413**

Angew. Chem. Int. Ed. **2007**, *46*

DOI 10.1002/anie.200604858

The authors of this recent Communication would like to clarify some points with respect to the trinuclear tungsten cluster shown in Figure 3 therein: The cluster shows a central classical $W_3O_{10}N_3$ unit with the characteristic coordination number 6 for the three metal atoms, while each of these has a "dominant" contact to a His139 group. Whether terminal oxygen atoms are protonated cannot be decided as mentioned in the paper (this also because of the limited accuracy of the WO bond lengths). In any case, the charge of the W_3-type cluster was wrongly formulated (see text and legend to Figure 3) and cannot be given because of the protonation problem.

Corrigendum

The authors of this Communication inadvertantly omitted citation of a parallel report discussing a non-enantioselective variant of the presented reaction. This report should be included as reference [11c]. The authors apologize for their oversight.

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[11] a) P. R. Schreiner, A. Wittkopp, *Org. Lett.* **2002**, *4*, 217–220; b) A. Wittkopp, P. R. Schreiner, *Chem. Eur. J.* **2003**, *9*, 407–414; c) for a non-enantioselective thiourea-catalyzed variant, see: S. C. Pan, J. Zhou, B. List, *Synlett* **2006**, 3275–3276.

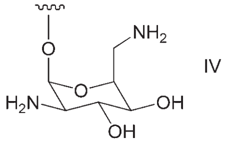
Catalytic Asymmetric Acylcyanation of Imines

S. C. Pan, J. Zhou, B. List* ___ **612–614**

Angew. Chem. Int. Ed. **2007**, *46*

DOI 10.1002/anie.200603630

The configuration of ring IV in paromomycin (**1**) and subsequent structures depicted in this Communication should be corrected as shown below.



Antibacterial Aminoglycosides with a Modified Mode of Binding to the Ribosomal-RNA Decoding Site

B. François, J. Szychowski, S. S. Adhikari, K. Pachamuthu, E. E. Swayze, R. H. Griffey, M. T. Migawa, E. Westhof,* S. Hanessian* ___ **6735–6738**

Angew. Chem. Int. Ed. **2004**, *48*

DOI 10.1002/anie.200462092