



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:

B. L. Merner, L. N. Dawe, G. J. Bodwell*

1,1,8,8-Tetramethyl[8](2,11)teropyrenophane: Half of an Aromatic Belt and a Segment of an (8,8) Single-walled Carbon Nanotube

Symmetry versus Minimal Pentagonal Adjacencies in Uranium-Based Polyoxometalate Fullerene Topologies

J. H. Ahn, B. Temel, E. Iglesia*

Selective Homologation Routes to 2,2,3-Trimethylbutane on Solid Acids

B. Brugger, S. Rütten, K.-H. Phan, M. Möller, W. Richtering*
Colloidal Suprastructure of Smart Microgels at Oil/Water Interfaces

N. Sprutta, S. Maćkowiak, M. Kocik, L. Szterenber, T. Lis, L. Latos-Grażyński*

Tetraazuliporphyrin Tetracation

R. Masuo, K. Ohmori, L. Hintermann, S. Yoshida, K. Suzuki*
Stereoselective First Total Synthesis of FD-594 Aglycon

J. England, M. Martinho, E. R. Farquhar, J. R. Frisch, E. L. Bominaar,* E. Münck,* L. Que, Jr.*

A Synthetic High-Spin Oxoiron(IV) Complex: Generation, Spectroscopic Characterization, and Reactivity

C. R. Hess, T. Weyhermüller, E. Bill, K. Wieghardt*
[{Fe(tim)}₂]: An Fe–Fe Dimer Containing an Unsupported Metal–Metal Bond and Redox-Active N₄-Macrocyclic Ligands

B. Liu, H. Wang, H. Xie, B. Zeng, J. Chen, J. Tao, T. B. Wen, Z. Cao, H. Xia*

Osmapyridine and Osmapyridinium from a Formal [4+2] Cycloaddition Reaction

J. Tolosa, C. Kub, U. H. F. Bunz*

Hyperbranched: A Universal Conjugated Polymer Platform?



R. H. Grubbs



D. G. Nocera



M. T. Reetz

News

Catalysis:

Grubbs Honored _____ 2826

Inorganic Chemistry:

Nocera Awarded _____ 2826

Organic Chemistry:

Prize to Reetz _____ 2826



„I chose chemistry as a career because it gives me the opportunity to discover and make new things every day. When I wake up I use Skype to catch up with my son Stepan (who is currently finishing his PhD at MSU), since this time of day is the best compromise for our busy schedules given the 10 hour time-zone difference between Colorado and Moscow....“

This and more about Olga V. Boltalina can be found on page 2827.

Author Profile

Olga V. Boltalina _____ 2827

Practical Microwave Synthesis for Organic Chemists

C. Oliver Kappe, Doris Dallinger
Shaun Murphree

Books

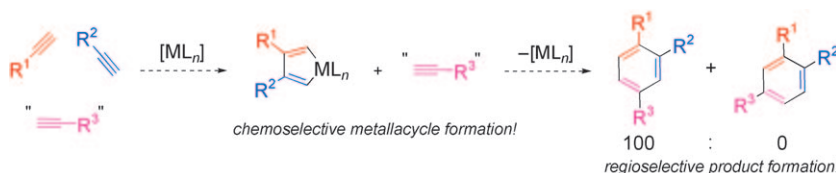
reviewed by E. V. Van der Eycken _____ 2828

Highlights

[2+2+2] Cycloadditions

B. R. Galan, T. Rovis* — 2830–2834

Beyond Reppe: Building Substituted Arenes by [2+2+2] Cycloadditions of Alkynes



Synthetic sequel: The transition-metal-catalyzed [2+2+2] cycloaddition is an established method for the construction of carbocyclic frameworks but is often plagued by poor selectivity. Recent literature paints a promising picture—a more

general metal-catalyzed [2+2+2] cycloaddition can be accomplished intermolecularly using three separate alkynes to furnish highly substituted arenes (see scheme).

Perfluorinated Boranes

K. Huynh, J. Vignolle, T. D. Tilley* — 2835–2837

Perfluoropentaphenylborole: A New Approach to Lewis Acidic, Electron-Deficient Compounds



Zirconocene is the key: A new synthetic method, which utilizes zirconocene-mediated coupling of alkynes, has been developed for the preparation of a new

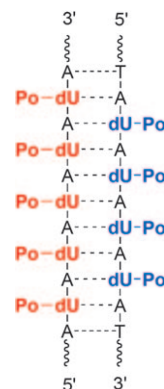
class of highly Lewis acidic boroles (see scheme). Such compounds hold potential for applications in catalysis and the field of electron-deficient organic materials.

Helical Structures

H.-A. Wagenknecht* — 2838–2841

Helical Arrangement of Porphyrins along DNA: Towards Photoactive DNA-Based Nanoarchitectures

Stack them helically: A self-assembled helically stacked array of up to 11 porphyrin (Po)-modified uridines (red and blue in the double strand shown) is based on the supramolecular scaffold of duplex DNA and shows promising optical properties. Such architectures could find application as functional molecules for photoactive nanomaterials and photonic nanostructures.

**For the USA and Canada:**

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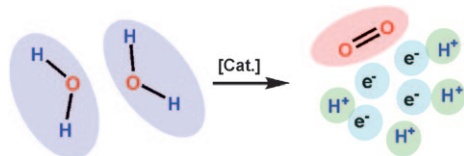
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Minireviews

Artificial Photosynthesis

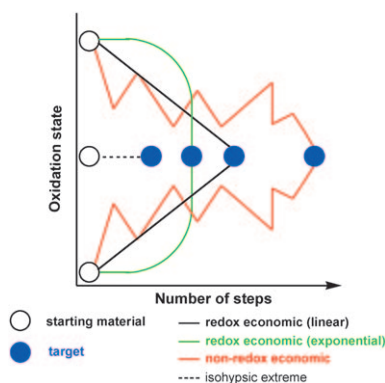
X. Sala, I. Romero, M. Rodríguez,
L. Escriche, A. Llobet* — 2842 – 2852

Molecular Catalysts that Oxidize Water to Dioxygen



Water into oxygen: A good catalyst for converting water into oxygen is seen as an essential part of any sustainable solar-energy conversion scheme. Some success has been achieved using molecular complexes as catalysts and the key factors

influencing their performance are discussed. The necessity of generating a solid-state catalytic system is presented and the first attempts to generate supported molecular water-oxidation catalysts are analyzed.



Stimulus package for organic synthesis:

The economy of step and atom usage has been widely reviewed and acknowledged as being useful frameworks to evaluate the efficiency of synthesis. This Review brings to attention another form of economy which should be considered in the planning and evaluation of a multistep synthesis: redox economy. Several guidelines and examples are included to illustrate the logic of this approach and to stimulate the design of syntheses.

Reviews

Synthetic Methods

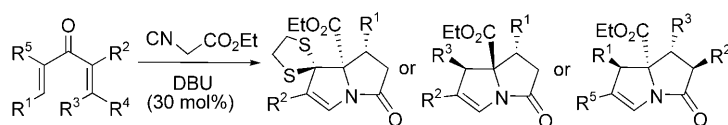
N. Z. Burns, P. S. Baran,*
R. W. Hoffmann* — 2854 – 2867

Redox Economy in Organic Synthesis

Communications

Synthetic Methods

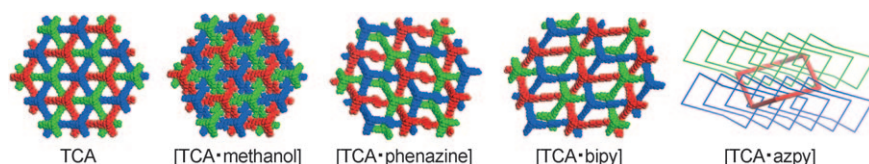
J. Tan, X. Xu,* L. Zhang, Y. Li,
Q. Liu* — 2868 – 2872



Up to four adjacent stereocenters can be formed stereoselectively in the construction of a pyrrolizidine unit through a novel organocatalytic reaction that involves treatment of various dienones with ethyl

isocynoacetate (see scheme; DBU = 1,8-diazabicyclo[5.4.0]undec-7-ene). Mechanisms for this atom-economic, one-pot synthesis have been proposed.

Tandem Double-Michael-Addition/Cyclization/Acyl Migration of 1,4-Dien-3-ones and Ethyl Isocynoacetate: Stereoselective Synthesis of Pyrrolizidines



Borromean organic networks: The rigid and trigonal pyramidal molecule, 1,3,5-tris(4-carboxyphenyl)adamantane (TCA), self-assembles into a 2D Borromean linked network by hydrogen bonds. Dif-

ferent linkers (methanol, phenazine, 4,4'-bipyridine, and 4,4'-azopyridine) result in more complex Borromean networks or a 3D polycatenation network.

Organic Crystals

Y.-B. Men, J. Sun, Z.-T. Huang,
Q.-Y. Zheng* — 2873 – 2876

Rational Construction of 2D and 3D Borromean Arrayed Organic Crystals by Hydrogen-Bond-Directed Self-Assembly

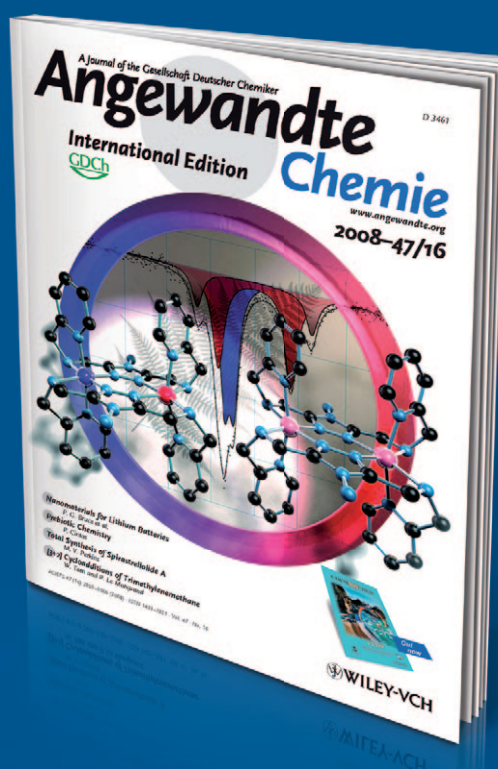
Incredibly

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R F R I

E N D

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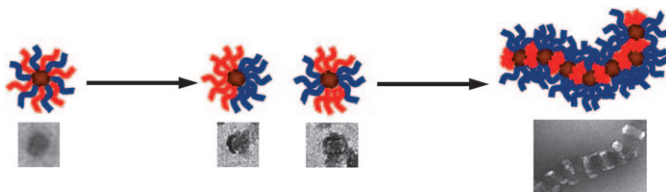
An aesthetically attractive **cover picture** that arouses curiosity, a well-presented and most informative graphical **table of contents**, and carefully selected articles that are professionally edited give *Angewandte Chemie* its distinctive character, which allows both easy browsing and further in-depth reading. Nearly 20 well-trained chemists, as well as eight further associates, work week in and week out to assemble reader-friendly issues and daily Early View articles online.



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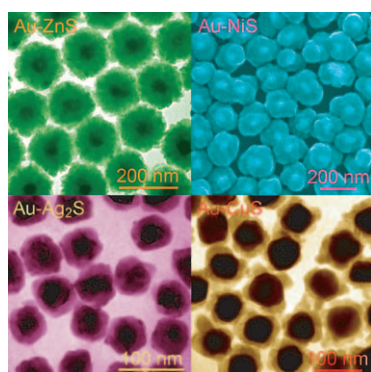
Like a bamboo rod: Long, bamboo-like undulated cylinders with distinct branch points and end groups (see picture) were obtained by the stacking of block terpolymer micelles that contain a fluorinated polybutadiene core and a compart-

mentalized corona of poly(4-*tert*-butoxystyrene) and poly(*tert*-butyl methacrylate). Stacking of the polymer micelles, which can be reversed, occurred when the solvent was changed from dioxane to ethanol.

Bamboo-like Structures

B. Fang, A. Walther, A. Wolf, Y. Xu, J. Yuan, A. H. E. Müller* — 2877 – 2880

Undulated Multicompartment Cylinders by the Controlled and Directed Stacking of Polymer Micelles with a Compartmentalized Corona



Cores and effect: Water-dispersible core-shell structures and heterostructures incorporating gold nanocrystals of different shapes (polyhedra, cubes, and rods) and a variety of transition metal sulfide semiconductors (ZnS, CdS, NiS, Ag₂S, and CuS) are synthesized using cetyltrimethylammonium bromide-encapsulated gold nanocrystals and metal thiobenzoates as starting materials.

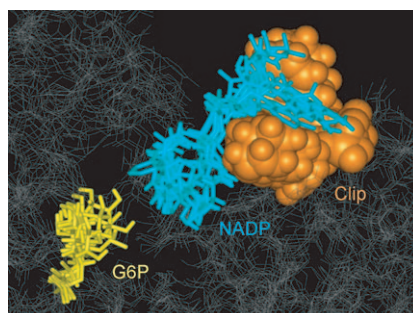
Metal-Semiconductor Nanostructures

Z. H. Sun, Z. Yang, J. H. Zhou, M. H. Yeung, W. H. Ni, H. K. Wu, J. F. Wang* — 2881 – 2885

A General Approach to the Synthesis of Gold-Metal Sulfide Core-Shell and Heterostructures



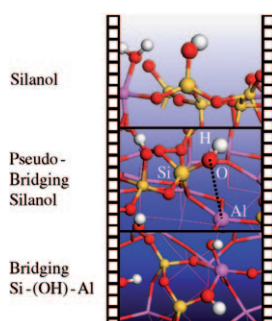
Triple duty: A synthetic molecular clip traps nicotinamide adenine dinucleotide phosphate (NADP⁺; see picture) as well as occupying both the cofactor- and the substrate-binding site in glucose-6-phosphate (G6P) dehydrogenase. This combination of two inhibition mechanisms makes the clip highly effective and selective for this enzyme over other dehydrogenases.



Enzyme Inhibition

M. Kirsch, P. Talbiersky, J. Polkowska, F. Bastkowski, T. Schaller, H. de Groot,* F.-G. Klärner,* T. Schrader* — 2886 – 2890

A Mechanism of Efficient G6PD Inhibition by a Molecular Clip



Amorphization tunes acidity: Pseudo-bridging silanols, suggested as versatile Brønsted acid groups by molecular modeling studies, are obtained by shifted hydrolysis of Si-O-Al bridges formed by the thermal treatment of silica deposited on γ -Al₂O₃ (100), and appear under given pretreatment conditions. Demixing of part of the silica from the aluminosilicate phase is predicted upon excess water adsorption.

Surface Chemistry

C. Chizallet,* P. Raybaud — 2891 – 2893

Pseudo-Bridging Silanols as Versatile Brønsted Acid Sites of Amorphous Aluminosilicate Surfaces

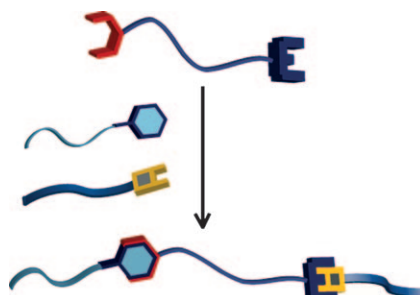


Supramolecular Chemistry

A. V. Ambade, S. K. Yang,
M. Weck* — 2894–2898



Supramolecular ABC Triblock Copolymers



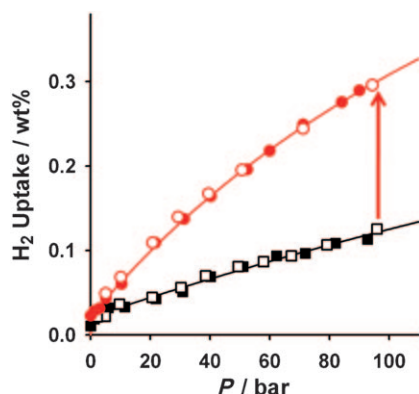
Just add it! Ruthenium initiators functionalized with hydrogen-bonding sites were utilized in ring-opening metathesis polymerization to prepare heterotelechelic polymers with hydrogen-bonding and metal-coordination units in a single step. Supramolecular ABC triblock copolymers were then self-assembled in one pot by simply adding complementary telechelic polymers to a solution of the heterotelechelic polymer (see picture).

Hydrogen Storage

Y. E. Cheon, M. P. Suh* — 2899–2903



Enhanced Hydrogen Storage by Palladium Nanoparticles Fabricated in a Redox-Active Metal–Organic Framework



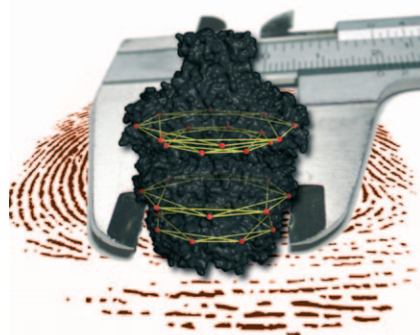
Quick on the uptake: Palladium nanoparticles were fabricated simply by immersing $\{[\text{Zn}_3(\text{ntb})_2(\text{EtOH})_2] \cdot 4 \text{ EtOH}\}_n$ (**1**) in a MeCN solution of $\text{Pd}(\text{NO}_3)_2$ at room temperature, without any extra reducing agent. 3 wt % PdNPs@[**1**] $^{0.54+}(\text{NO}_3^-)_{0.54}$ significantly increase H_2 uptake capacities, both at 77 K and 1 bar and at 298 K and high pressures (see picture, red curve) compared to $[\text{Zn}_3(\text{ntb})_2]_n$ (black). ntb = 4,4',4''-nitrilotrisbenzoate.

EPR spectroscopy

G. Hagelueken, W. J. Ingledew, H. Huang,
B. Petrovic-Stojanovska, C. Whitfield,
H. Elmkami, O. Schiemann,*
J. H. Naismith* — 2904–2906



PELDOR Spectroscopy Distance Fingerprinting of the Octameric Outer-Membrane Protein Wza from *Escherichia coli*.



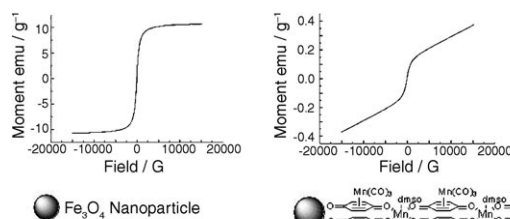
Distance fingerprinting: Pulsed electron–electron double resonance spectroscopy (PELDOR) is applied to the octameric membrane protein complex Wza of *E. coli*. The data yielded a detailed distance fingerprint of its periplasmic region that compares favorably to the crystal structure. These results provide the foundation to study conformation changes from interaction with partner proteins.

Hybrid Materials

S. B. Kim, C. Cai, S. Sun,
D. A. Sweigart* — 2907–2910



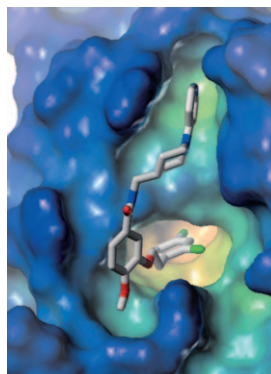
Incorporation of Fe_3O_4 Nanoparticles into Organometallic Coordination Polymers by Nanoparticle Surface Modification



Surface-modified Fe_3O_4 nanoparticles (NPs) can be obtained by substituting $[(\eta^5\text{-semiquinone})\text{Mn}(\text{CO})_3]$ for oleyl-amine surface protecting groups. The resulting NP can function as a nucleus or template to generate crystalline coordi-

nation polymers that contain superparamagnetic Fe_3O_4 NPs. Hybridized magnetic properties can be obtained by introducing paramagnetic metal nodes, such as Mn^{2+} , into the polymers (see picture).

Attractive chlorine: Noncovalent interactions between chlorine or bromine atoms and aromatic rings in proteins open up a new method for the manipulation of molecular recognition. Substitution at distinct positions of two factor Xa inhibitors improves the free energy of binding by interaction with a tyrosine unit. The generality of this motif was underscored by multiple crystal structures as well as high-level quantum chemical calculations (see picture).



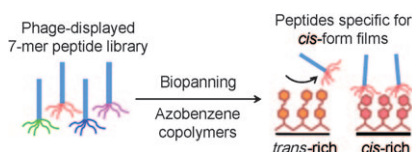
Nonbonding Interactions

H. Matter,* M. Nazaré, S. Güssregen, D. W. Will, H. Schreuder, A. Bauer, M. Urmann, K. Ritter, M. Wagner, V. Wehner _____ 2911 – 2916

Evidence for C–Cl/C–Br... π Interactions as an Important Contribution to Protein–Ligand Binding Affinity



Clones on film: 7-mer peptides that bind to azobenzene-containing polymer films were selected from a phage library under visible light. Isolated clones showed greater affinities to the films under ultraviolet light than those under visible light. Furthermore, the peptide binding responds to the photoinduced isomerization of azobenzene groups.



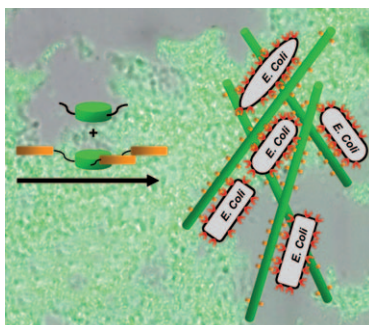
Peptide Recognition

J. Chen, T. Serizawa,* M. Komiyama _____ 2917 – 2920

Peptides Recognize Photoresponsive Targets



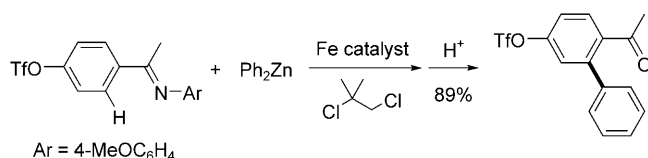
Binding bacteria: Discotic molecules self-assemble into columnar supramolecular polymers that show strong polyvalent binding to bacteria by virtue of mannose ligands attached at their periphery (orange; see picture). The reversible formation of the supramolecular polymers allows simple mixing of differently substituted monomers and the optimization of bacterial aggregation.



Supramolecular Polyvalency

M. K. Müller, L. Brunsveld* 2921 – 2924

A Supramolecular Polymer as a Self-Assembling Polyvalent Scaffold



No Fe-ar: Iron catalyzes an imine-directed C–H bond activation to introduce an *ortho*-aryl group to an acetophenone-derived imine using a diarylzinc reagent (see scheme), whereas palladium catalyzes the conventional substitution reac-

tion. The title reaction features mild and selective C–H bond activation in the presence of aryl bromide, chloride, or sulfonate groups, and 1,2-dichloroisobutane is essential to achieve such selectivity.

Cross-Coupling

N. Yoshikai, A. Matsumoto, J. Norinder, E. Nakamura* _____ 2925 – 2928

Iron-Catalyzed Chemoselective *ortho* Arylation of Aryl Imines by Directed C–H Bond Activation

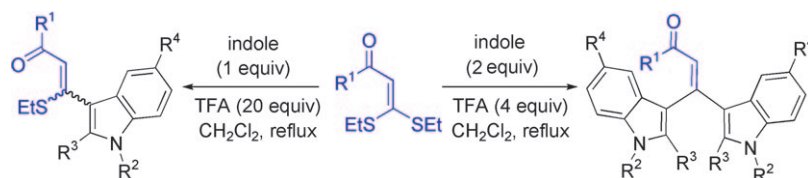


Synthetic Methods

H. F. Yu, Z. K. Yu* — 2929–2933



Direct Alkenylation of Indoles with α -Oxo Ketene Dithioacetals: Efficient Synthesis of Indole Alkaloids Meridianin Derivatives



Let's make 'meri': Metal-free direct alkenylation of indoles was realized by acid-mediated substitution reactions of α -oxo ketene dithioacetals with indoles in trifluoroacetic acid/dichloromethane, selectively affording β -indolyl mono- and dis-

substituted α,β -unsaturated carbonyl compounds (see scheme). Condensation of the indolyl/ketene monothioacetals and guanidine nitrate efficiently produced meridianin derivatives.

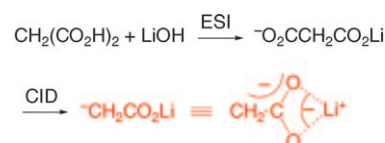
Gas-Phase Synthesis

M. M. Meyer, G. N. Khairallah, S. R. Kass,* R. A. J. O'Hair* — 2934–2936



Gas-Phase Synthesis and Reactivity of the Lithium Acetate Enolate Anion, $^{-}\text{CH}_2\text{CO}_2\text{Li}$

Aerial pingpong: The lithium acetate enolate anion, the prototypical lithium salt of an α -deprotonated carboxylate, was prepared in the gas phase by electrospray ionization (ESI) and collision-induced ionization (CID). Its structure, reactivity, and energetics are presented along with the results of high-level computations.

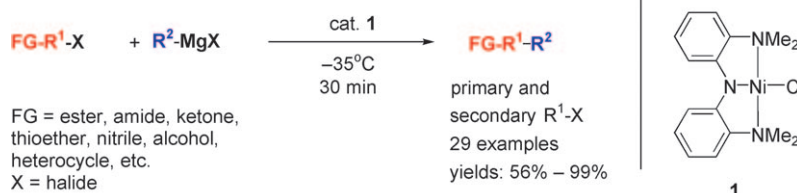


Synthetic Methods

O. Vechorkin, X. Hu* — 2937–2940



Nickel-Catalyzed Cross-Coupling of Non-activated and Functionalized Alkyl Halides with Alkyl Grignard Reagents



Reacting in the 'Ni'ck of time: The title reaction is realized by using an isolated Ni^{II} complex (**1**). The catalysis tolerates a

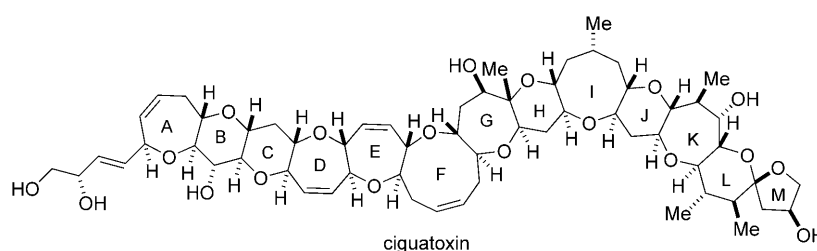
wide range of important functional groups that are often incompatible with Grignard reagents in cross-coupling reactions.

Natural Product Synthesis

A. Hamajima, M. Isobe* — 2941–2945



Total Synthesis of Ciguatoxin

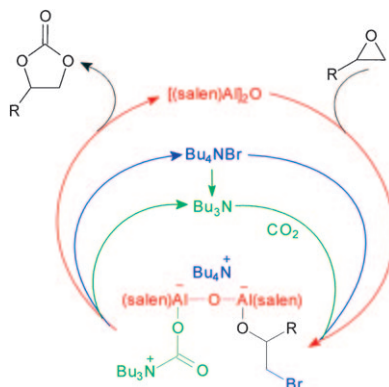


Something fishy: Ciguatoxin (see structure) is one of the principal toxins involved in ciguatera poisoning and the target of a total synthesis involving the

coupling of three segments. The key transformations in this synthesis feature acetylene–dicobalthexacarbonyl complexation.

Three interconnected catalytic cycles

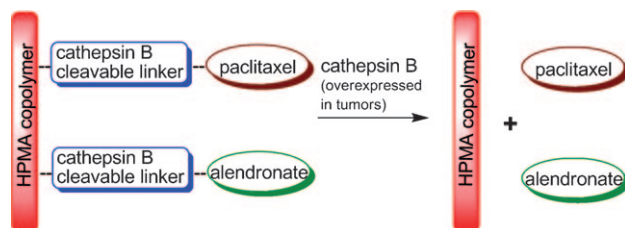
account for the title reaction catalyzed by a bimetallic aluminum(salen) complex and Bu_4NBr . In the first, Bu_4NBr acts as a nucleophile to activate the epoxide. In the second, Bu_3N generated in situ serves to activate CO_2 . In the third, the aluminum(salen) complex brings the two activated species together so that the key bonds can be formed intramolecularly.



Reaction Mechanisms

M. North,* R. Pasquale — 2946–2948

Mechanism of Cyclic Carbonate Synthesis from Epoxides and CO_2



A polymer therapeutic designed for combination anticancer and antiangiogenic therapy inhibited the proliferation of prostate carcinoma cells and the proliferation, migration, and tube-formation of endothelial cells. The nanoconjugate was

formed from an *N*-(2-hydroxypropyl) methacrylamide (HPMA) copolymer, the bisphosphonate alendronate (for bone targeting), and the chemotherapy agent paclitaxel (PTX), which is cleaved by cathepsin B (see scheme).

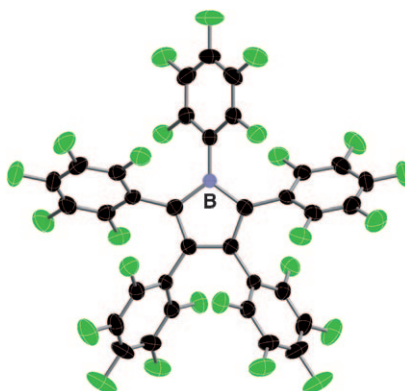
Medicinal Chemistry

K. Miller, R. Erez, E. Segal, D. Shabat, R. Satchi-Fainaro* — 2949–2954

Targeting Bone Metastases with a Bispecific Anticancer and Antiangiogenic Polymer–Alendronate–Taxane Conjugate



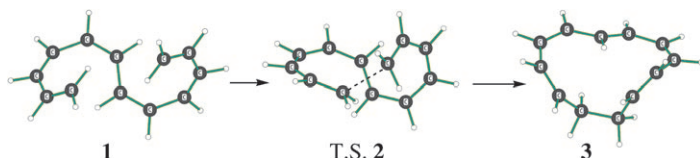
Perfluorination: The fully fluorinated analogue of pentaphenylborole (see structure; B gray, C black, F green) has been prepared using successive transmetalation reactions involving Zr and Sn heterocycles. The highly moisture-sensitive borole is a new member of the perfluoroaryl borane family, a class of antiaromatic compounds of fundamental significance to concepts of aromaticity.



Fluoroaryl Boranes

C. Fan, W. E. Piers,*
M. Parvez — 2955–2958

Perfluoropentaphenylborole



Not forbidden: Thermal $4n$ electron electrocyclic reactions of Hückel topology structures proceed via “allowed” conrotatory pathways. However, for a Möbius topology, the Woodward–Hoffmann rules may be reversed and a “forbidden” dis-

rotatory pathway can be preferred as shown theoretically for dodecahexaene **1** that transforms via a Heilbronner–Möbius aromatic transition structure **2** into a cyclic polyene **3**.

Pericyclic Reactions

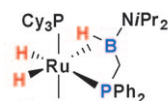
M. Mauksch,*
S. B. Tsogoeva* — 2959–2963

A Preferred Disrotatory $4n$ Electron Möbius Aromatic Transition State for a Thermal Electrocyclic Reaction

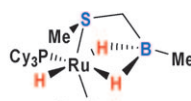


B–H Agostic Interactions

Y. Gloaguen, G. Alcaraz,*
A.-F. Pécharman, E. Clot, L. Vendier,
S. Sabo-Etienne* — 2964–2968



Agostic borane



Borohydride

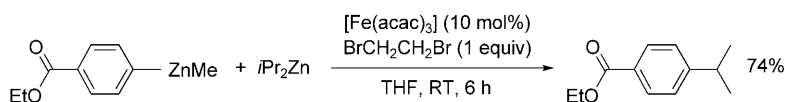
A question of coordination mode: Two new borane compounds are prepared. They act as bifunctional ligands as illustrated by their reaction with ruthenium polyhydrides which leads to the formation of two complexes (see scheme) displaying either a δ -agostic interaction of a η^2 -B–H bond involving a trivalent boron atom or a dihydroborate ligation.



Phosphinoborane and Sulfidoborohydride as Chelating Ligands in Polyhydride Ruthenium Complexes: Agostic σ -Borane versus Dihydroborate Coordination

Synthetic Methods

G. Cahiez,* L. Foulgoc,
A. Moyeux — 2969–2972



Aryl–alkyl cross-coupling products are obtained by the iron-catalyzed oxidative heterocoupling of organozinc reagents under mild conditions. This novel reaction pathway is versatile, allowing for the use

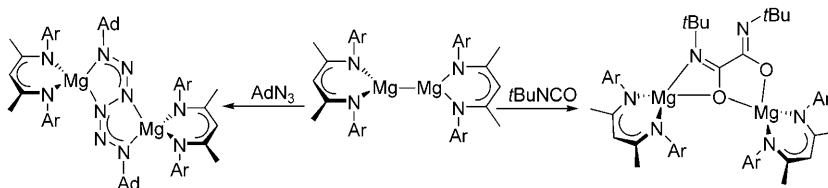
of primary and secondary aliphatic diorganozinc reagents as coupling partners as well as tolerating functionalized aryl- and alkylzinc reagents.



Iron-Catalyzed Oxidative Heterocoupling Between Aliphatic and Aromatic Organozinc Reagents: A Novel Pathway for Functionalized Aryl–Alkyl Cross-Coupling Reactions

Synthetic Methods

S. J. Bonyhady, S. P. Green, C. Jones,*
S. Nembenna, A. Stasch* — 2973–2977



A Dimeric Magnesium(I) Compound as a Facile Two-Center/Two-Electron Reductant

The odd couple: A dimeric magnesium(I) complex acts as a facile and selective two-center/two-electron reductant towards a series of unsaturated substrates (see scheme; Ar = 2,6-*i*Pr₂C₆H₃, Ad = 1-ada-

mantyl). The novel reduced or reductively coupled products obtained from these reductions suggest that magnesium(I) compounds may find wide use in organic and organometallic syntheses.

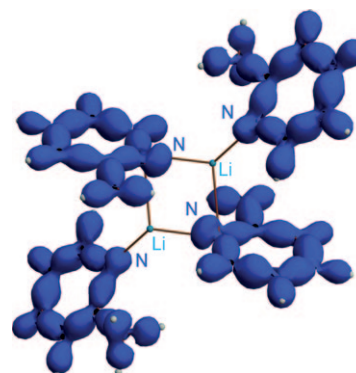
Picolylithium

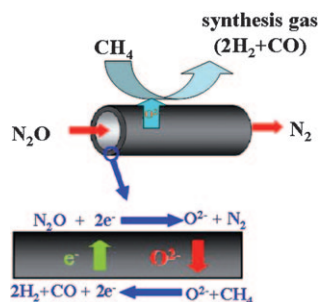
H. Ott, U. Pieper, D. Leusser, U. Flierler,
J. Henn, D. Stalke* — 2978–2982



Carbanion or Amide? First Charge Density Study of Parent 2-Picolylithium

The negative charge originating from deprotonation of the methyl group is distributed over the 2-picolyl ring. Bonding properties derived from the electron density distribution support the enamide character of picolylithium (PicLi; the picture shows the deformation density of [2-PicLi·PicH]₂), but electrophilic attack occurs at the deprotonated C atom. This reactivity is rationalized by the electrostatic potential, which guides electrophiles towards the nucleophilic C atom.





Direct decomposition of N_2O to N_2 using perovskite hollow fiber membranes is achieved by combination with in situ oxygen removal (see picture). A coupled partial methane oxidation allows N_2 -free synthesis gas to be obtained. This sustainable process combines N_2O removal with the simultaneous production of valuable chemicals.

N_2O Decomposition

H. Jiang, H. Wang,* F. Liang, S. Werth,*
T. Schiestel, J. Caro* — 2883–2886

Direct Decomposition of Nitrous Oxide to Nitrogen by In Situ Oxygen Removal with a Perovskite Membrane



Supporting information is available on www.angewandte.org (see article for access details).



A video clip is available as Supporting Information on www.angewandte.org (see article for access details).

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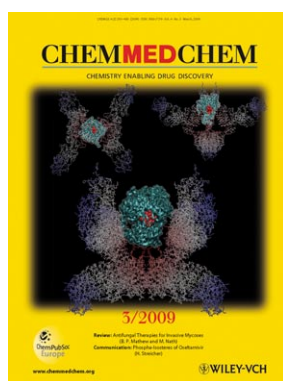
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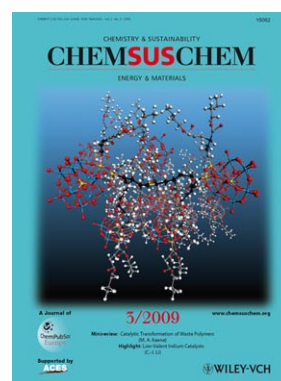
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