

VIP 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:

Q. Zhang, T. P. Chou, B. Russo, S. A. Jenekhe, G. Cao*
Aggregation of ZnO Nanocrystallites for High Conversion Efficiency in Dye-Sensitized Solar Cells

S. Arita, T. Koike, Y. Kayaki, T. Ikariya*
Aerobic Oxidative Kinetic Resolution of Racemic Secondary Alcohols with Chiral Bifunctional Amido Complexes

T. Z. Forbes, J. G. McAlpin, R. Murphy, P. C. Burns*
Metal–Oxygen Isopolyhedra Assembled into Fullerene Topologies

T. A. Rokob, A. Hamza, A. Stirling, T. Soós,* I. Pápai*
Turning Frustration into Bond Activation: A Theoretical Mechanistic Study on Heterolytic Hydrogen Splitting by Frustrated Lewis Pairs

E. Stavitski, M. H. Kox, I. Swart, F. M. de Groot, B. M. Weckhuysen*
In-Situ Synchrotron-based IR Microspectroscopy to Study Catalytic Reactions in Zeolite Crystals

C. Ruspic, J. R. Moss, M. Schürmann, S. Harder*
Remarkable Stability of Metallocenes with Superbulky Ligands: Spontaneous Reduction of Sm^{III} to Sm^{II}

Bioinorganic Chemistry:

Barton Awarded _____ 1808 Editor Göllitz Honored _____ 1808

Hydrogen-Transfer Reactions

James T. Hynes, Judith P. Klinman, Hans-Heinrich Limbach, Richard L. Schowen

Peer Review and Manuscript Management in Scientific Journals

Irene Hames

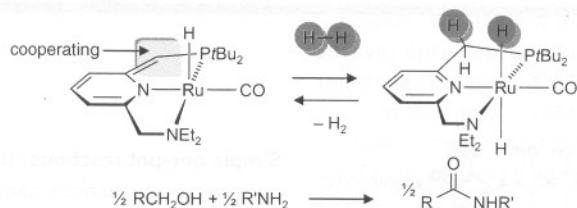
News

Kreimeyer on the Editorial Board of *Angewandte Chemie* _____ 1808

Books

reviewed by M. K. Beyer _____ 1809

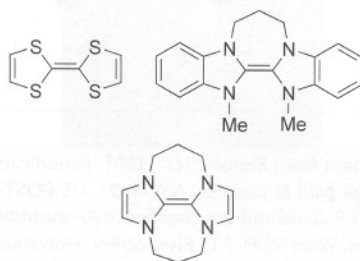
reviewed by H.-D. Daniel _____ 1810



Let's stick together: Cooperating ligands participate directly in bond activation and thereby undergo a reversible chemical transformation. The interplay between metal center and ligand may facilitate a chemical process. In transition-metal-cat-

alyzed reactions, this concept allows the discovery of new chemical reactions, such as the dehydrogenative coupling of primary alcohols and primary amines to amides and molecular hydrogen (see scheme).

A new generation of organic compounds (see examples) have been developed and used as single- and double-electron donors. Aryl halides and sulfones can be reduced, and using one particular electron donor, aryl anions can be formed. Up until now these reactions were mainly carried out by metals.



Highlights

Cooperative Effects

H. Grützmacher* _____ 1814–1818

Cooperating Ligands in Catalysis

Synthetic Methods

G. P. McGlacken,*
T. A. Khan _____ 1819–1823

Formation of Carbanions Using Neutral Organic Molecules as Electron-Transfer Reagents: A Radical Concept

Essays

History of Science

P. Langen, F. Hucho* — 1824–1827

Karl Lohmann and the Discovery of ATP

Close, but no cigar. Why didn't Karl Lohmann, the discoverer of ATP, receive the Nobel Prize? This essay describes the life of the prominent biochemist, teacher, and administrator, who wasn't honored with this highest scientific distinction.

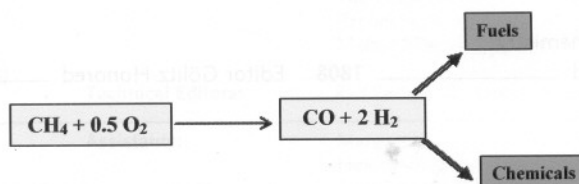


Reviews

Syngas Production

T. V. Choudhary,
V. R. Choudhary* — 1828–1847

Energy-Efficient Syngas Production through Catalytic Oxy-Methane Reforming Reactions



The commercial catalytic reforming of methane into synthesis gas (syngas), an extremely versatile intermediate, requires the development of efficient heterogeneous catalysts. As long-term perfor-

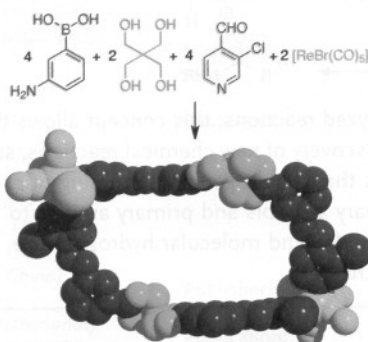
mance of the catalyst is crucial for wide-scale commercialization of the oxy-reforming process, catalyst-related studies are abundant and are summarized in this Review.

Communications

Supramolecular Chemistry

N. Christinat, R. Scopelliti,
K. Severin* — 1848–1852

Multicomponent Assembly of Boronic Acid Based Macrocycles and Cages



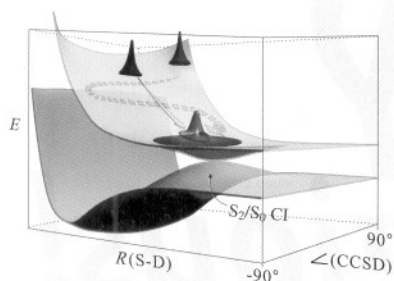
Simple one-pot reactions: Boronate ester condensation reactions can be combined with imine condensations and metal–ligand interactions to build nanometer-sized macrocycles and cages in one step from small building blocks (see scheme).

For the USA and Canada:

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



Intramolecular orbital alignment can be controlled by conformational tuning of the initial wavepacket location on the two-dimensional potential-energy surfaces of thiophenol (see picture; CI=conical intersection). Chemical substitution induces conformational preference, leading to a dramatic change of the branching ratio between $\tilde{X}$ and $\tilde{A}$ states of the phenylthiyl radical.

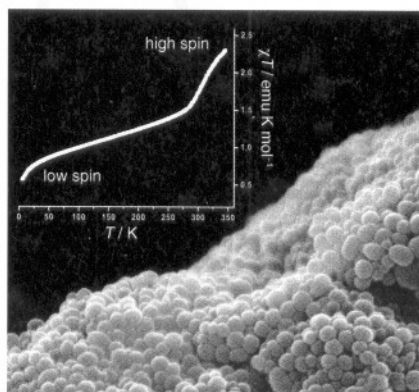
Chemical Dynamics

VIP

J. S. Lim, Y. S. Lee,
S. K. Kim* 1853–1856

Control of Intramolecular Orbital Alignment in the Photodissociation of Thiophenol: Conformational Manipulation by Chemical Substitution

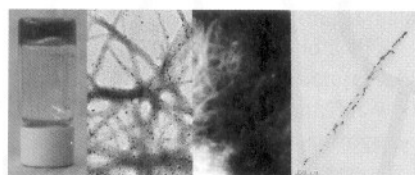
Metal–organic nanoparticles (see SEM image) showing valence-tautomeric behavior have been obtained by a versatile approach involving precipitation and coordination polymerization. They undergo reversible temperature-dependent interconversion between low- and high-spin forms, as revealed by plotting the magnetic moment χ as a function of temperature.



Functional Nanoparticles

I. Imaz, D. Maspoch, C. Rodríguez-Blanco, J. M. Pérez-Falcón, J. Campo, D. Ruiz-Molina* 1857–1860

Valence-Tautomeric Metal–Organic Nanoparticles



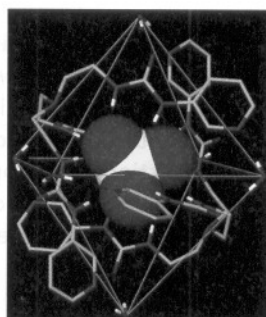
Functionalized gold nanoparticles with complementary H-bonding groups can control the secondary structure of xerogel fibers formed by a molecular conductor thanks to their incorporation into the nanowires, which show metal-like conductivity once doped without the need for annealing. The picture shows a photograph of the xerogel, TEM images of Au particles in the gel and a single fiber, and an AFM image revealing the texture of the gel.

Supramolecular Nanocomposites

J. Puigmartí-Luis, A. Pérez del Pino, E. Laukhina, J. Esquena, V. Laukhin, C. Rovira, J. Vidal-Gancedo, A. G. Kanaras, R. J. Nichols, M. Brust, D. B. Amabilino* 1861–1865

Shaping Supramolecular Nanofibers with Nanoparticles Forming Complementary Hydrogen Bonds

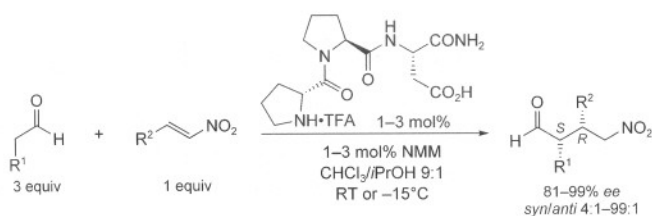
Locked up: The sulfate anion is selectively encapsulated into rigid hydrogen-bonded capsules upon crystallization of a simple and flexible urea-functionalized ligand in the presence of Mg^{2+} ions and water (see structure; sulfate: space-filling). The resulting framework persists in the presence of different-shaped anions, allowing the shape selectivity of hydrogen-bonding hosts to be evaluated, and providing a simple way to separate the environmentally relevant sulfate from highly competitive mixtures of aqueous anions.



Anion Recognition

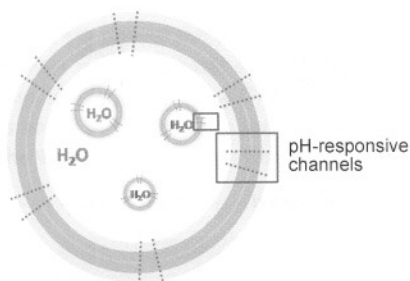
R. Custelcean,* P. Remy, P. V. Bonnesen, D. Jiang, B. A. Moyer 1866–1870

Sulfate Recognition by Persistent Crystalline Capsules with Rigidified Hydrogen-Bonding Cavities



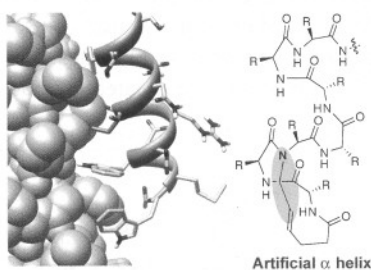
Bridging the gap: Conformational analysis of a peptidic catalyst for aldol reactions led to the development of H-D-Pro-Pro-Asp-NH₂ as a highly efficient catalyst for conjugate addition reactions between

aldehydes and nitroolefins (see scheme). Only 1 mol% of catalyst suffices to obtain γ -nitroaldehydes in excellent yields and stereoselectivities.



Multivesicle assemblies with pH-responsive transmembrane channels in the vesicle walls (see picture) were made by two-step double emulsion of copolymers comprising acrylic acid and acrylate of 1,2-distearoyl-*rac*-glycerol. These assemblies mimic eukaryotic cells, which contain functional organelles within the cell walls.

Inhibition with a twist: An artificial α helix obtained by replacing an N-terminal main-chain i and $i+4$ hydrogen bond with a carbon-carbon bond (see structure) inhibits gp41-mediated cell fusion. This work suggests that hydrogen-bond-surrogate-derived helices may provide a general class of scaffolds for the generation of leads against viral entry.



Peptidic Catalysts

M. Wiesner, J. D. Revell,
H. Wennemers* — 1871–1874

Tripeptides as Efficient Asymmetric Catalysts for 1,4-Addition Reactions of Aldehydes to Nitroolefins—A Rational Approach

Polymer Vesicles

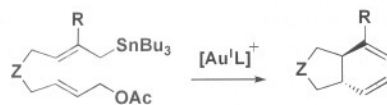
H.-C. Chiu,* Y.-W. Lin, Y.-F. Huang,
C.-K. Chuang, C.-S. Chern — 1875–1878

Polymer Vesicles Containing Small Vesicles within Interior Aqueous Compartments and pH-Responsive Transmembrane Channels

α -Helix Mimetics

D. Wang, M. Lu,
P. S. Arora* — 1879–1882

Inhibition of HIV-1 Fusion by Hydrogen-Bond-Surrogate-Based α Helices



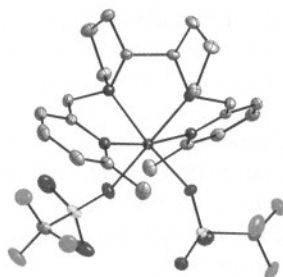
Gold rings: Cationic gold(I) complexes efficiently catalyze the intramolecular allyl-allyl coupling of allyl acetates with allylstannanes with excellent stereoselectivity (see scheme). This reaction is mechanistically very different from that catalyzed by palladium.

Allyl-Allyl Coupling

S. Porcel, V. López-Carrillo, C. García-Yebra, A. M. Echavarren* — 1883–1886

Gold-Catalyzed Allyl-Allyl Coupling

Big *cis*-ster: The use of an (*R,R*)-bipyridine backbone with two α -methylpyridine pendant arms affords a tetradentate N₄ ligand that coordinates an iron center with *cis*- α topology (see picture; Fe purple, C gray, N blue, O red, S yellow, F green). This complex catalyzes the reaction between H₂O₂ and *cis*-2-heptene to afford a *cis*-diol product in very high enantioselectivity.



Asymmetric Catalysis

K. Suzuki, P. D. Oldenburg,
L. Que, Jr.* — 1887–1889

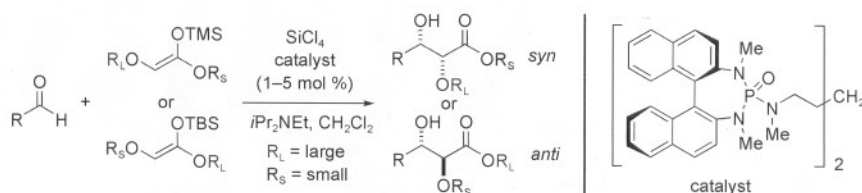
Iron-Catalyzed Asymmetric Olefin *cis*-Dihydroxylation with 97% Enantiomeric Excess

Asymmetric Catalysis

S. E. Denmark,*
W.-j. Chung ————— 1890–1892



Lewis Base Activation of Lewis Acids:
Catalytic Enantioselective Glycolate Aldol
Reactions



Both *syn*- and *anti*-1,2-diols can be obtained with high diastereoselectivity and enantioselectivity from the properly substituted glycolate-derived silyl ketene acetals in the presence of SiCl_4 and a chiral bisphosphoramidate catalyst (see

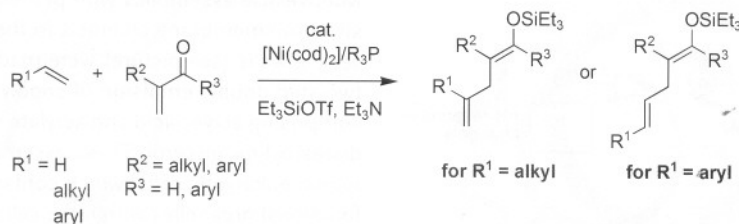
scheme; TMS = trimethylsilyl, TBS = *tert*-butyldimethylsilyl). The sense of diastereoselectivity can be reversed by changing the size of the substituents on the silyl ketene acetals.

Catalytic Coupling Reactions

C.-Y. Ho, H. Ohmiya,
T. F. Jamison* ————— 1893–1895



α -Olefins as Alkenylmetal Equivalents in
Catalytic Conjugate Addition Reactions



In the presence of a silyl triflate and an amine base, a nickel–phosphine complex catalyzes the direct conjugate addition of ethylene, α -olefins, and aryl alkenes to unsaturated aldehydes and ketones. The enolsilane products are isolated in good

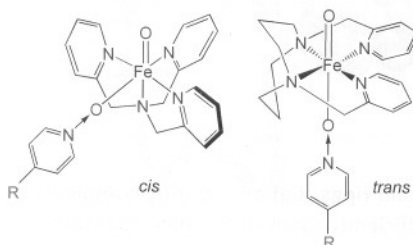
to very high yield, and in very high stereoselectivity for some cases. The alkene is a functional equivalent of an alkenylmetal reagent in the transformation.

Iron–Oxo Complexes

Y. Zhou, X. Shan, R. Mas-Ballesté,
M. R. Bukowski, A. Stubna,
M. Chakrabarti, L. Slominski, J. A. Halfen,
E. Münck, L. Que, Jr.* — 1896–1899



Contrasting *cis* and *trans* Effects on the
Reactivity of Nonheme Oxoiron(IV)
Complexes



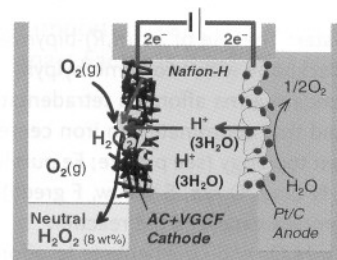
Position determines properties: The oxidative properties of $[\text{Fe}^{\text{IV}}(\text{O})(\text{L})(\text{X})]$ species (L = tetradentate N_4 ligand, X = monodentate ligand) depend on the position of the X ligand. The $\text{Fe}=\text{O}$ unit is a poorer oxidant with an electron-donating *cis* ligand but becomes a much better oxidant when this ligand is *trans* to the oxo group. This difference in reactivity reflects perturbations to the electronic structure of the highly covalent $\text{Fe}=\text{O}$ moiety.

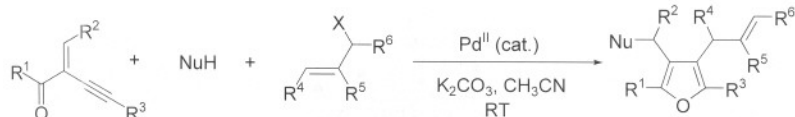
Hydrogen Peroxide Production

I. Yamanaka,* T. Murayama — 1900–1902

Neutral H_2O_2 Synthesis by Electrolysis of
Water and O_2

Direct, safe, and continuous synthesis of neutral H_2O_2 solutions with concentrations of up to 8 wt% from O_2 and water has been accomplished by an improved electrolysis method involving a solid-polymer electrolyte (SPE). The formation and accumulation of neutral H_2O_2 were strongly enhanced by exposing the cathode to a stream of O_2 .





Dual personalities: Pd^{II}-catalyzed three-component Michael addition/cyclization/cross-coupling reaction provides an efficient route to functionalized tetra-

substituted furans (see scheme). The [PdCl₂-(CH₃CN)₂] catalyst plays a dual role in this transformation as both a Lewis acid and a transition-metal center.

Furan Synthesis

Y. Xiao, J. Zhang* 1903–1906

Tetrasubstituted Furans by a Pd^{II}-Catalyzed Three-Component Michael Addition/Cyclization/Cross-Coupling Reaction

Synthetic Methods

S. Hirner, O. Panknin, M. Edefuhr, P. Somfai* 1907–1909

Synthesis of Aryl Glycines by the α Arylation of Weinreb Amides

Avian Influenza

T. Haselhorst, J.-M. Garcia, T. Islam, J. C. C. Lai, F. J. Rose, J. M. Nicholls, J. S. M. Peiris, M. von Itzstein* 1910–1912

Avian Influenza H5-Containing Virus-Like Particles (VLPs): Host-Cell Receptor Specificity by STD NMR Spectroscopy

Dihydrogen Activation

T. Matsumoto, Y. Nakaya, K. Tatsumi* 1913–1915

Heterolytic Dihydrogen Activation by a Sulfido- and Oxo-Bridged Dinuclear Germanium–Ruthenium Complex

Electrochemical Nanotechnology

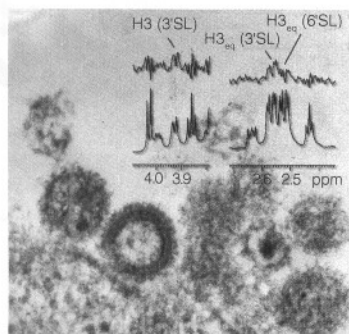
S. P. Albu, D. Kim, P. Schmuki* 1916–1919

Growth of Aligned TiO₂ Bamboo-Type Nanotubes and Highly Ordered Nanolace

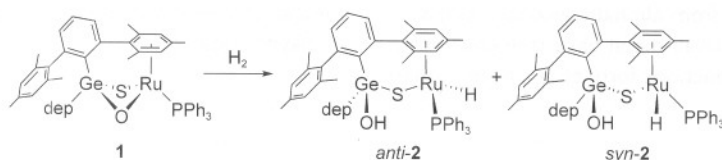


A rare example of the umpolung of an enolate forms the basis of the title reaction. In this procedure, a Grignard reagent is added to the iminium ion formed from the Weinreb amide upon treatment with a

base (see scheme). When a chiral amide was used as the starting material, the nucleophilic addition proceeded with high diastereoselectivity. LDA = lithium diisopropylamide.

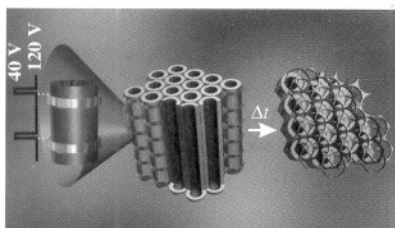


Gripped by the flu: The emergence of a human pandemic influenza virus from an avian progenitor involves a switch in preferential binding of the influenza virus hemagglutinin (HA). Saturation transfer difference NMR spectroscopy of avian H5 chimeric virus-like particles (VLPs) encoding viral HA in a complex with α (2,3)- and α (2,6)-linked *N*-acetylneuraminides (3'SL and 6'SL, respectively) has shown that avian influenza H5-containing VLPs clearly discriminate between α (2,3)- and α (2,6)-linkages.



Cooperation of soft and hard bridging ligands (μ -S and μ -O, respectively) is crucial to the mechanism of heterolytic dihydrogen activation by germanium–

ruthenium complex **1** to give *syn* and *anti* isomers of the corresponding hydroxo-germanium–hydridoruthenium complex **2** (see scheme; dep = 2,6-diethylphenyl).



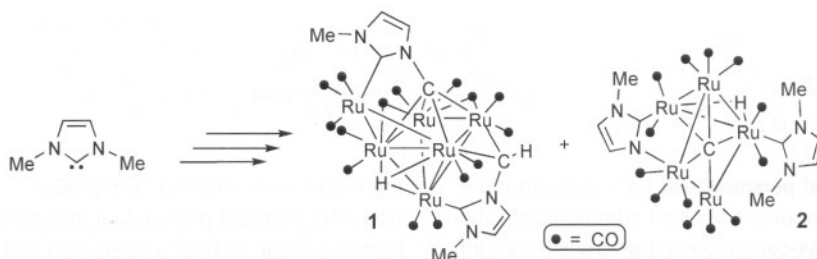
Alternating-voltage anodization of titanium foil in a fluoride-containing electrolyte allowed novel, self-organized nanoscale morphologies of TiO₂ to be grown, such as reinforced nanotubes (nanobamboo) and laterally extended two-dimensional networks (nanolace).

Carbene Heterocycles

J. A. Cabeza,* I. del Río, D. Miguel,
M. G. Sánchez-Vega — 1920–1922



From an *N*-Methyl *N*-Heterocyclic Carbene to Carbyne and Carbide Ligands via Multiple C–H and C–N Bond Activations



Multiple choices: The carbyne C atom of **1** and the carbide of **2** arise from an *N*-methyl group of 1,3-dimethylimidazol-2-ylidene. The synthesis of complex **1**, which involves activation of the three C–H

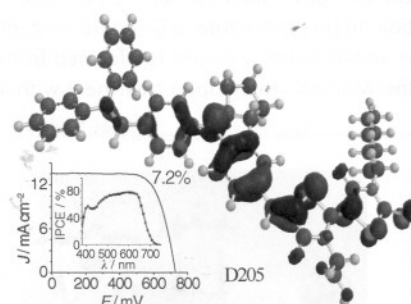
bonds of an *N*-methyl group, and that of complex **2**, which requires additional activation of the C–N bond, provide new examples of metal-mediated degradation of *N*-heterocyclic carbenes.

Dye-Sensitized Solar Cells

D. Kuang, S. Uchida, R. Humphry-Baker,
S. M. Zakeeruddin,*
M. Grätzel* — 1923–1927

Organic Dye-Sensitized Ionic Liquid Based Solar Cells: Remarkable Enhancement in Performance through Molecular Design of Indoline Sensitizers

A power conversion efficiency of more than 7.2% under AM 1.5 sunlight (100 mW cm^{-2}) is reported for the first time for an organic-dye-sensitized solar cell used in conjunction with a newly developed binary ionic-liquid (solvent-free) electrolyte (see current–voltage plot and photocurrent action spectrum for the sensitizer D205, the highest occupied molecular orbital of which is shown).

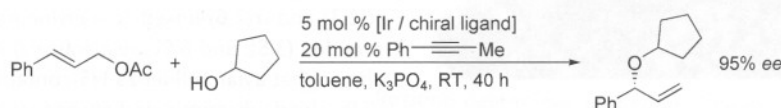


Allylic Etherification

S. Ueno, J. F. Hartwig* — 1928–1931



Direct, Iridium-Catalyzed Enantioselective and Regioselective Allylic Etherification with Aliphatic Alcohols



From alcohol to ether: Iridium-catalyzed allylations yield α chiral ether derivatives directly from aliphatic alcohols with a simple alkali metal base (see equation). These reactions form ethers from primary,

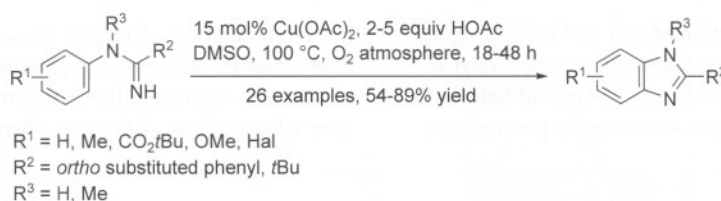
secondary, and tertiary alkoxides with high enantioselectivity. By-products from isomerization were suppressed by the use of an alkyne additive.

C–H Functionalization

G. Brasche, S. L. Buchwald* — 1932–1934

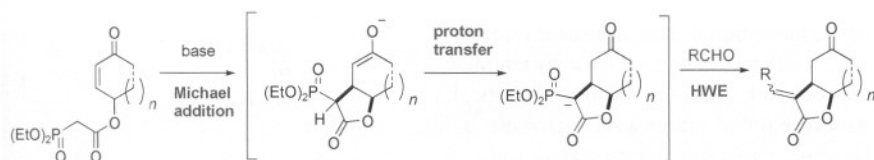


C–H Functionalization/C–N Bond Formation: Copper-Catalyzed Synthesis of Benzimidazoles from Amidines



Copper closes the ring: Benzimidazoles are synthesized from amidines through a copper-catalyzed C–H functionalization/C–N bond-forming process. The method tolerates a broad range of functional groups and provides the benzimidazoles

in up to 89% yield. Best results are obtained by using 15 mol % $\text{Cu}(\text{OAc})_2$, 2–5 equivalents of HOAc as additive, and oxygen as the stoichiometric reoxidant (see scheme).



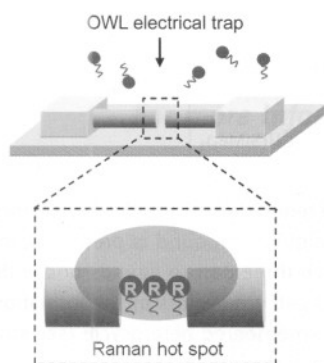
Scoping out TIMO: A telescoped intramolecular Michael addition/proton transfer/Horner-Wadsworth-Emmons olefination sequence was developed to provide rapid access to α -alkylidene- γ -butyrolactones (see scheme). The method was

applied to prepare a range of tetrahydrobenzofuran-2,5-diones and related systems, and it was utilized in a short synthesis of enantiomerically pure (+)-paeonilactone B.

Tandem Reactions

M. G. Edwards, M. N. Kenworthy,
R. R. A. Kitson, M. S. Scott,
R. J. K. Taylor* 1935–1937

The Telescoped Intramolecular Michael/Olefination (TIMO) Approach to α -Alkylidene- γ -butyrolactones: Synthesis of (+)-Paeonilactone B



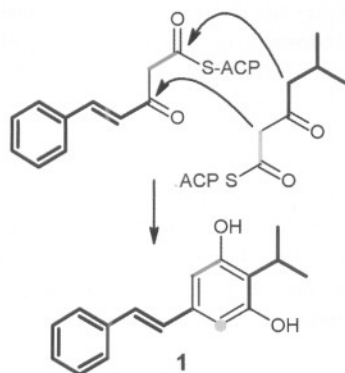
Electrical traps with Raman hot spots:

On-wire-lithography (OWL) nanotraps electrically localize DNA in a nanometer-scale gap (see picture, red oligonucleotides with Raman dyes), which allows for the identification of the localized material by surface-enhanced Raman spectroscopy. With microfluidic delivery, sample volumes as small as 1 μ L with target concentrations as low as 230 fM can be studied without secondary amplification.

Nanotraps

G. Zheng, L. Qin,
C. A. Mirkin* 1938–1941

Spectroscopically Enhancing Electrical Nanotraps



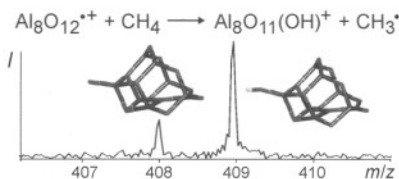
Commuting between kingdoms: The biosynthesis of the only nonplant stilbene **1** from *Photorhabdus* bacteria has been solved by identification of all the genes involved in its biosynthesis and by feeding experiments. Stilbene **1** is derived from the condensation of two β -ketoacyl thioesters and is required for the normal development of *Heterorhabditis* nematodes, the natural host of *Photorhabdus*.

Biosynthesis

S. A. Joyce, A. O. Brachmann, I. Glazer,
L. Lango, G. Schwär, D. J. Clarke,*
H. B. Bode* 1942–1945

Bacterial Biosynthesis of a Multipotent Stilbene

A matter of radical sites and bond energies: Experimental and theoretical studies show that the cationic polynuclear aluminum oxide clusters, which are oligomeric systems of $(\text{Al}_2\text{O}_3)_x^+$ ($x=3, 4, 5$), activate methane at room temperature (see picture). In contrast, clusters with an odd number of aluminum atoms are unreactive.



Methane Activation

S. Feyel, J. Döbler, R. Höckendorf,
M. K. Beyer, J. Sauer,*
H. Schwarz* 1946–1950

Activation of Methane by Oligomeric $(\text{Al}_2\text{O}_3)_x^+$ ($x=3,4,5$): The Role of Oxygen-Centered Radicals in Thermal Hydrogen-Atom Abstraction

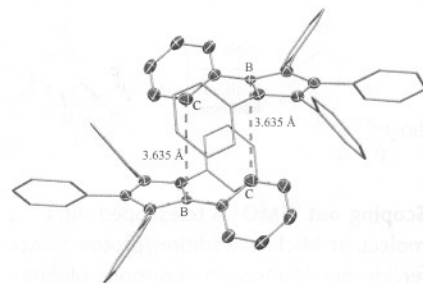
Boron Heterocycles

H. Braunschweig,* I. Fernández,
G. Frenking,* T. Kupfer — 1951–1954



Structural Evidence for Antiaromaticity in
Free Boroles

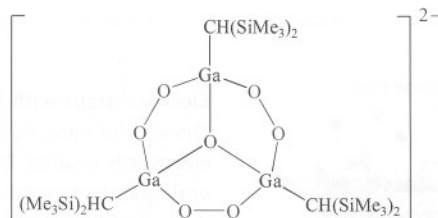
Pentaphenylborole and a ferrocenylborole were synthesized and structurally characterized. Both experimental and theoretical data reveal that rather weak intermolecular interactions are able to significantly alter the bond lengths in the borole ring of pentaphenylborole (see picture). Moreover, the high Lewis acidity of boroles is demonstrated by a significant Fe...B interaction in the ferrocenylborole in the solid state.



Peroxides

W. Uhl,* M. Reza Halvagar — 1955–1957

Strongly Oxidizing and Reducing
Functions Combined in a Single
Compound: An Alkyl Gallium Peroxide
Possessing a Nine-Membered
(GaR)₃(O₂)₃ Heterocycle



Organoelement peroxides of the heavier Group 13 elements form a class of extraordinarily reactive compounds, which decompose spontaneously by intramolecular redox processes as a result of the close contact of oxidizing peroxo groups

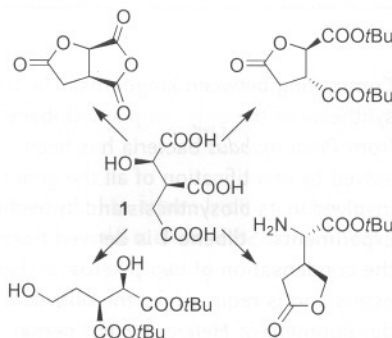
and reducing E–C bonds. The synthesis of a unique compound is presented, in which three peroxo ligands bridge three alkyl gallium groups by the formation of a nine-membered heterocycle (see structural formula).

Isocitric Acid

P. Heretsch, F. Thomas, A. Aurich,
H. Krautscheid, D. Sicker,
A. Giannis* — 1958–1960



Syntheses with a Chiral Building Block
from the Citric Acid Cycle: (2R,3S)-
Isocitric Acid by Fermentation of
Sunflower Oil



No longer just analytical: Previously, (2R,3S)-isocitric acid (**1**), a component of the citric acid cycle, had not been available on a preparative scale. A new route to this acid on a kilogram scale combines a biotechnological formation through fermentation from sunflower oil with a chemical separation process. In a variety of transformations into further chiral derivatives, **1** is established as a valuable new member of the chiral pool (see scheme).



Supporting information is available on the WWW
(see article for access details).



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

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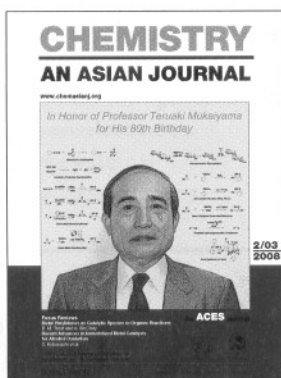
Sister Journals _____ 1804–1805

Keywords _____ 1962

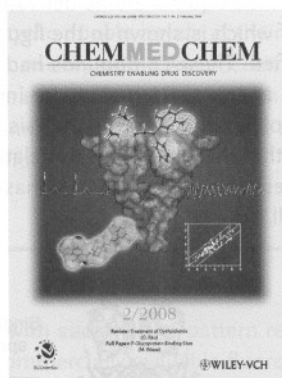
Authors _____ 1963

Preview _____ 1965

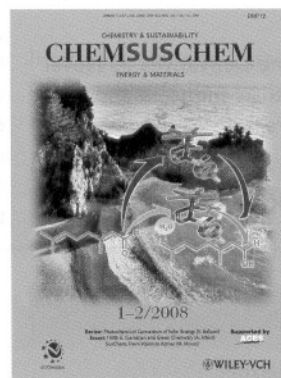
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