



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:

S. T. Scroggins, Y. Chi, J. M. J. Fréchet*

Polarity-Directed One-Pot Asymmetric Cascade Reactions Mediated by Two Catalysts in an Aqueous Buffer

A. B. Chaplin, A. S. Weller*

B–H Activation at a Rhodium(II) Center: A Missing Link in the Transition-Metal-Catalyzed Dehydrocoupling of Amine–Boranes

M. Bandini,* A. Eichholzer

Enantioselective Gold-Catalyzed Allylic Alkylation of Indoles with Alcohols: Efficient Route to Functionalized Tetrahydrocarbazoles

G. de Ruiter, E. Tartakovsky, N. Oded, M. E. van der Boom*

Sequential Logic Operations with Surface-Confined Polypyridyl Complexes Having Molecular Random Access Memory Features

W. Li, P. H. C. Camargo, L. Au, Q. Zhang, M. Rycenga, Y. Xia*

Etching and Dimerization: A Simple and Versatile Route to Dimers of Silver Nanospheres with a Range of Sizes

K. Fesko, M. Uhl, J. Steinreiber, K. Gruber, H. Griengl*

Biocatalytic Access to α,α -Dialkyl- α -Amino Acids by a Mechanism-Based Approach

I. U. Khan, D. Zwanziger, I. Böhme, M. Javed, H. Naseer,

S. W. Hyder, A. G. Beck-Sickinger*

Breast Cancer Diagnosis by Neuropeptide Y Analogues: From Synthesis to Clinical Application

T. Yokoi, M. Yoshioka, H. Imai, T. Tatsumi*

Diversification of RTH-type Zeolite and its Catalytic Application

Y.-S. Li,* F.-Y. Liang, H. Bux, A. Feldhoff, W.-S. Yang, J. Caro*

Metal–Organic Framework Molecular Sieve Membrane: Supported ZIF-7 Layer with High Hydrogen Selectivity by Microwave-Assisted Seeded Growth

S. Yamago,* Y. Watanabe, T. Iwamoto

Synthesis of [8]Cycloparaphenylene from a Square-Shaped Tetranuclear Platinum Complex $[\{\text{Pt}(\text{cod})(4,4'\text{-biphenyl})\}_4]$



“The secret of being a successful scientist is a good mixture of imagination and hard work. My biggest inspiration is looking at art or doing nothing ...”

This and more about Jörg Rademann can be found on page 9218.

Author Profile

Jörg Rademann _____ 9218



J. Cossy



C. Limberg



D. Sicker and S. Berger

News

Organic Chemistry:

J. Cossy Receives Prix Le Bel _____ 9219

Inorganic Chemistry:

Hardt Prize for C. Limberg _____ 9219

FCI Literature Prize for S. Berger

and D. Sicker _____ 9219

Books

Catalysis for Sustainable Energy Production

Pierluigi Barbaro, Claudio Bianchini

reviewed by M. Pagliaro _____ 9220

Superbases for Organic Synthesis

Tsutomu Ishikawa

reviewed by J. Verkade _____ 9221

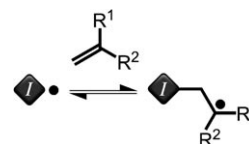
Highlights

Radical Reactions

C. Barner-Kowollik* — 9222 – 9224

Radical Polymerization: Reversing the Irreversible?

Reverse gear: Additions of primary radicals to sterically non-congested vinyl bonds may indeed not be as irreversible as commonly assumed. A ^1H -CIDNP NMR spectroscopic investigation on photoinitiated polymerization systems provides evidence that the addition of photolytically generated mesitoyl and phosphinoyl radicals to (meth)acrylate monomers at ambient temperatures may be reversible (see scheme; I = initiator).

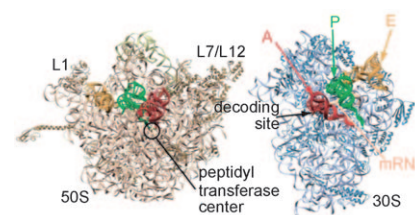


Nobel Prize in Chemistry

K. H. Nierhaus* — 9225 – 9228

Nobel Prize for the Elucidation of Ribosome Structure and Insight into the Translation Mechanism

Lost in translation: Ribosomes have developed sophisticated mechanisms to ensure a precise translation of the genetic information into functional proteins. The Nobel Prize in Chemistry for 2009 goes to three researchers who provide us with valuable insights into the structure of ribosome using X-ray diffraction, thus improving our understanding of the translation process at the molecular level.



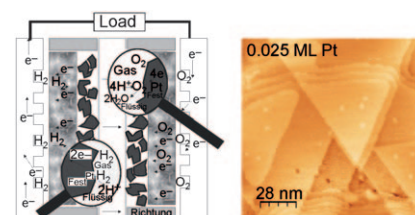
Essays

Energy Generation and Storage

J. Kunze, U. Stimming* — 9230 – 9237

Electrochemical Versus Heat-Engine Energy Technology: A Tribute to Wilhelm Ostwald's Visionary Statements

Carnot versus electrochemistry: This essay critically compares the advantages and disadvantages of Carnot-cycle-based and electrochemical methods for the generation and storage of energy (see picture; left: PEM fuel cell; right: Au(111) model surface covered with 0.025 monolayers of Pt). The views of Wilhelm Ostwald (1853–1932) and today's understanding of energy conversion are contrasted.

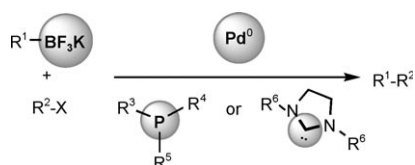


For the USA and Canada:

ANGEWANDTE CHEMIE International Edition (ISSN 1433-7851) is published weekly by Wiley-VCH, PO Box 191161, 69451 Weinheim, Germany. Air freight and mailing in the USA by Publications Expediting Inc., 200

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\$ 9442/8583 (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.



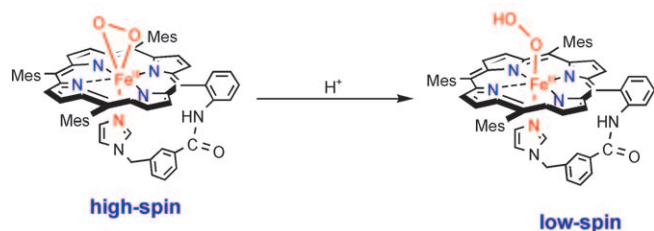
Hitting the sweet spot: The combination of organotrifluoroborates and monocoordinated palladium complexes as catalysts in the Suzuki–Miyaura coupling reaction provides a powerful method for the creation of carbon–carbon bonds. The advantages of organotrifluoroborates include the numerous functional groups that are tolerated in the substrate, the mild reaction conditions, and the possibility to use different types of reagents.

Reviews

Palladium Catalysis

G. A. Molander,* B. Canturk 9240–9261

Organotrifluoroborates and Monocoordinated Palladium Complexes as Catalysts—A Perfect Combination for Suzuki–Miyaura Coupling



Modeling job: Protonation of a closed seven-coordinate side-on heme peroxide can switch its spin state from high- to low-spin and convert the η^2 binding fashion into a monodentate configuration to

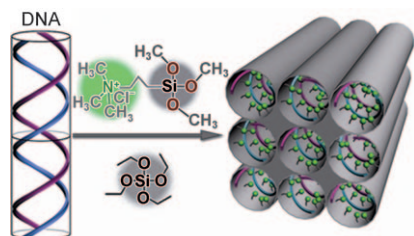
afford the corresponding hydroperoxide (see scheme). The end-on low-spin ferric hydroperoxide–heme species bear a covalently appended axial imidazole ligand and are easily prepared.

Communications

Enzyme Models

J.-G. Liu, T. Ohta, S. Yamaguchi, T. Ogura, S. Sakamoto, Y. Maeda, Y. Naruta* 9262–9267

Spectroscopic Characterization of a Hydroperoxo–Heme Intermediate: Conversion of a Side-On Peroxo to an End-On Hydroperoxo Complex



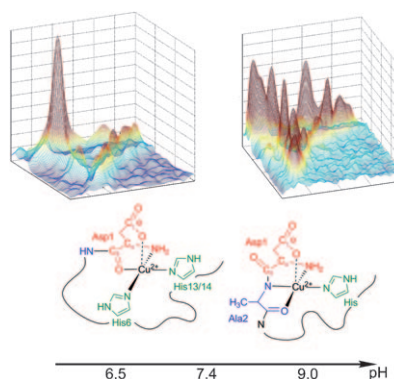
Zippered together: The title system was synthesized by using a quaternary ammonium silane as a DNA-condensing agent and a co-condenser with the silica source. The small interaxial separation in electrostatic DNA–DNA “zipper” and silica walls formed between diagonally positioned DNA strands are optimal for formation of the $p4mm$ structure.

Silica Mineralization

C. Jin, L. Han, S. Che* 9268–9272

Synthesis of a DNA–Silica Complex with Rare Two-Dimensional Square $p4mm$ Symmetry

Ligand sphere revealed: Cu ions were proposed to be linked to the aggregation of the amyloid- β peptide in Alzheimer’s disease. However, unambiguous identification of the Cu ligands has remained difficult. The use of various EPR spectroscopies with specific isotopic labeling now allowed the assignment of the Cu^{II} ligands for both complexes present at physiological pH value (see 3D plots and structures). The results indicate that the peptide’s first two amino acids are important for coordination and probably aggregation.

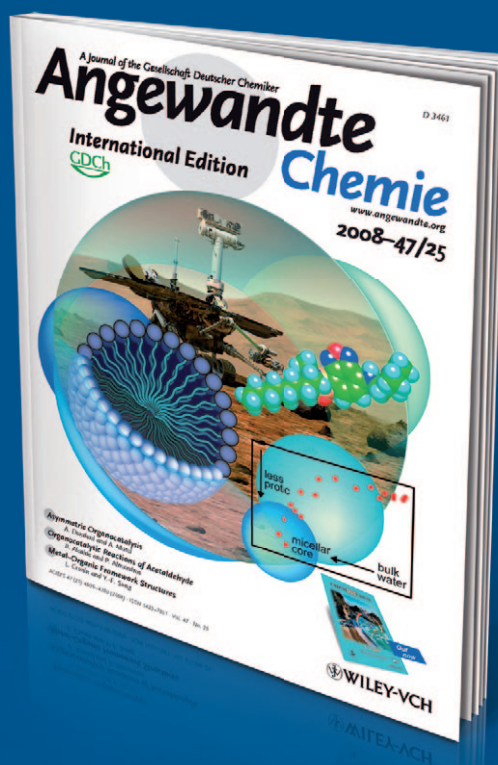


Peptide Interactions

P. Dorlet,* S. Gambarelli, P. Faller, C. Hureau 9273–9276

Pulse EPR Spectroscopy Reveals the Coordination Sphere of Copper(II) Ions in the 1–16 Amyloid- β Peptide: A Key Role of the First Two N-Terminus Residues

Incredibly selective



Angewandte Chemie chooses its articles carefully. Most of its Reviews, Highlights, and Essays are written upon invitation, from authors who are among the very best in their fields. **Just 27 % of all submitted Communications in 2007 were accepted after peer review** - only about 1500 from nearly 5500. Communications that are judged to be exceptionally important within a particular field are featured as Very Important Papers (**VIPs**).

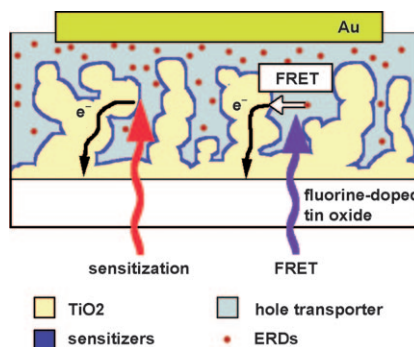


GESELLSCHAFT DEUTSCHER CHEMIKER

www.angewandte.org
service@wiley-vch.de

 **WILEY-VCH**

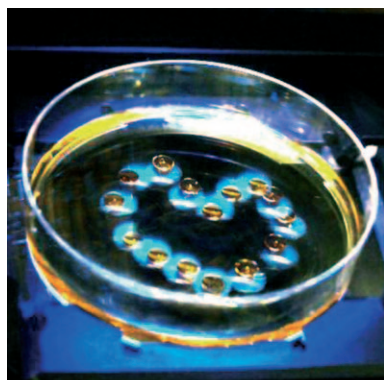
Running relay: Incorporating an energy-relay dye (ERD) into the hole transporter of a dye-sensitized solar cell increased power-conversion efficiency by 29% by extending light harvesting into the blue region. In the operating mechanism (see picture), absorption of red photons by the sensitizer transfers an electron into TiO_2 and a hole into the electrolyte. Blue photons absorbed by the ERD are transferred by FRET to the sensitizer.



Molecular Solar Cells

J.-H. Yum, B. E. Hardin, S.-J. Moon, E. Baranoff, F. Nüesch, M. D. McGehee, M. Grätzel,*
M. K. Nazeeruddin* — 9277 – 9280

Panchromatic Response in Solid-State Dye-Sensitized Solar Cells Containing Phosphorescent Energy Relay Dyes

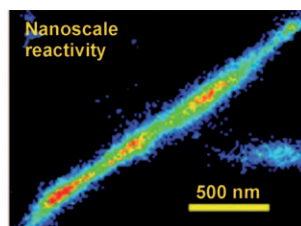
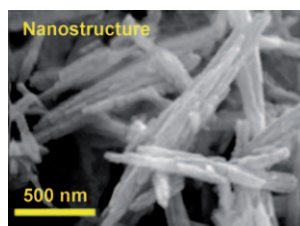


Ace of hearts: Liquid droplets can be manipulated in a controlled fashion along trajectories of any desired shape (such as a heart, see picture) by using light to create a wavelength-dependent interfacial tension gradient at a liquid/liquid interface. In this new phenomenon, the “chromocapillary effect”, an interfacial flow generates droplet motion in the direction opposite to the gradient.

Photocontrolled Motion

A. Diguët, R.-M. Guilleme, N. Magome, A. Saint-Jalmes, Y. Chen, K. Yoshikawa, D. Baigl* — 9281 – 9284

Photomanipulation of a Droplet by the Chromocapillary Effect



Its a small world: Nanoscale reactivity maps of working heterogeneous catalysts are recorded under in situ conditions by localizing single fluorescent reaction

products (see picture). This approach allows quantification of the reactivity of catalytic nanodomains.

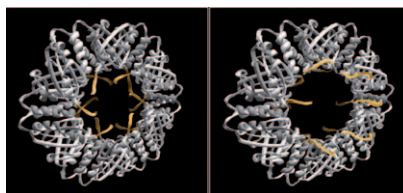
Heterogeneous Catalysis

M. B. J. Roeffaers, G. De Cremer, J. Libeert, R. Ameloot, P. Dedecker, A.-J. Bons, M. Bückins, J. A. Martens, B. F. Sels, D. E. De Vos, J. Hofkens* — 9285 – 9289

Super-Resolution Reactivity Mapping of Nanostructured Catalyst Particles



Ring the changes: A selective, controlled, and tunable attachment of proteins to a metal or to insulating surfaces is presented. A ring-shaped protein encapsulating SiO_2 -binding peptides (see picture: yellow) was engineered to expose multiple binding sites simply by changing solvent conditions, thereby creating a single monolayer without the need for surface modification.



Protein Engineering

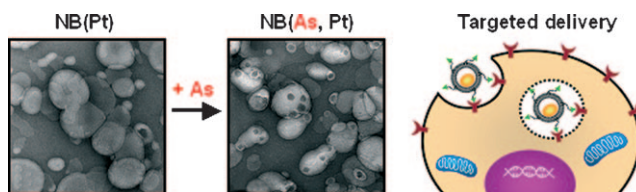
A. Heyman, I. Medalsy, O. Bet Or, O. Dgany, M. Gottlieb, D. Porath,*
O. Shoseyov* — 9290 – 9294

Protein Scaffold Engineering Towards Tunable Surface Attachment



Nanomedicine

H. Chen, S. Pazicni, N. L. Krett, R. W. Ahn,
J. E. Penner-Hahn, S. T. Rosen,
T. V. O'Halloran* ————— **9295 – 9299**



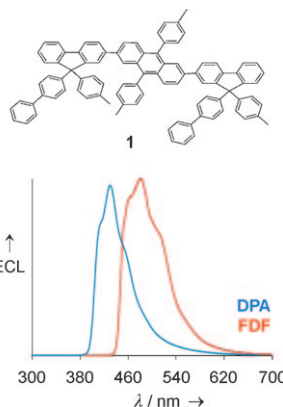
Coencapsulation of Arsenic- and
Platinum-based Drugs for Targeted
Cancer Treatment

Two in one: A novel strategy for efficiently coencapsulating both arsenic- and platinum-based drugs into 100 nm-scale liposomes (NBs) relies on the formation of $\text{Pt}^{\text{II}}\text{--As}^{\text{III}}$ adducts. This co-loaded system

presents a robust platform for further modification with targeting ligands and affords a method of improving the therapeutic efficacy of anticancer agents.

Optical Materials

K. M. Omer, S.-Y. Ku, K.-T. Wong,*
A. J. Bard* ————— **9300 – 9303**



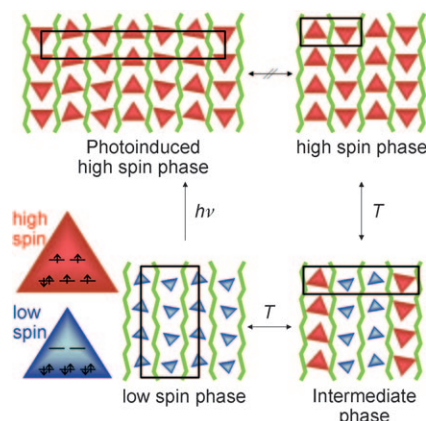
Efficient and Stable Blue Electrogenerated
Chemiluminescence of Fluorene-
Substituted Aromatic Hydrocarbons

Properly shielded: The fluorene groups used as capping agents for new diphenylanthracene (DPA), pyrene, and anthracene derivatives impart steric hindrance which prevents interchromophore interactions, giving these molecules high photoluminescence quantum yields. Fluorene-based DPA (**1**) is characterized by a highly efficient and stable blue electrogenerated chemiluminescence (ECL).

Spin Crossover

N. Bréfuel, H. Watanabe, L. Toupet,
J. Come, N. Matsumoto, E. Collet,*
K. Tanaka, J.-P. Tuchagues* ————— **9304 – 9307**

Concerted Spin Crossover and Symmetry
Breaking Yield Three Thermally and One
Light-Induced Crystallographic Phases of
a Molecular Material



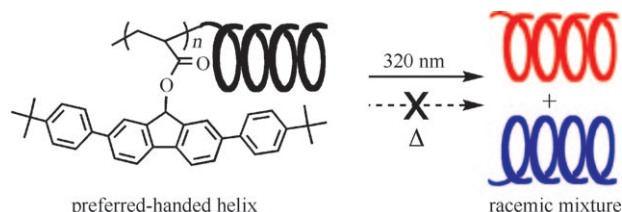
Four crystal phases are accessible by thermally and light-induced spin crossover associated with symmetry breaking for $[\text{Fe}^{\text{II}}\text{H}_2\text{L}^{2\text{Me}}\text{H}_2\text{L}^{2\text{Me}}](\text{PF}_6)_2$ ($\text{H}_2\text{L}^{2\text{Me}}$ is an acyclic hexadentate N_6 Schiff base). In this novel molecular material, the arrays of Fe^{II} complex cations (high-spin: red triangles; low-spin: blue triangles) are separated by layers of counteranions (green zigzag lines).

Photoinduced Stereomutation

T. Sakamoto, Y. Fukuda, S.-i. Sato,
T. Nakano* ————— **9308 – 9311**

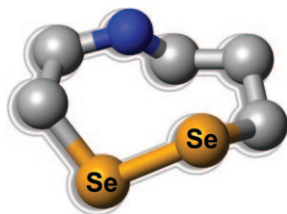


Photoinduced Racemization of an
Optically Active Helical Polymer Formed
by the Asymmetric Polymerization of 2,7-
Bis(4-*tert*-butylphenyl)fluoren-9-yl Acrylate



A trick of light: An optically active preferred-handed helical polymer synthesized by asymmetric anionic polymerization underwent stereomutation upon photoirradiation, whereas the helix remained stable upon heating (see picture). This

photoinduced racemization of a synthetic helical polymer occurred without any changes in chemical bonding, such as bond formation, bond cleavage, or the isomerization of a double bond.

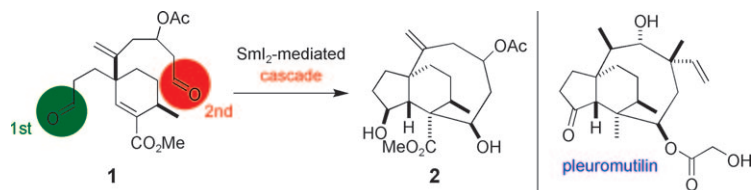


Se-ing is believing: Many proteins are cross-braced by disulfide bonds that frequently play key roles in protein structure, folding, and function. Unfortunately, the methods available for assignment of disulfide-bond connectivities in proteins are technically difficult and prone to misinterpretation. Now disulfide bond connectivities in native proteins can be visualized directly using ^{77}Se NMR spectroscopy.

Protein Structures

M. Mobli, A. D. de Araújo, L. K. Lambert, G. K. Pierens, M. J. Windley, G. M. Nicholson, P. F. Alewood, G. F. King* 9312–9314

Direct Visualization of Disulfide Bonds through Diselenide Proxies Using ^{77}Se NMR Spectroscopy



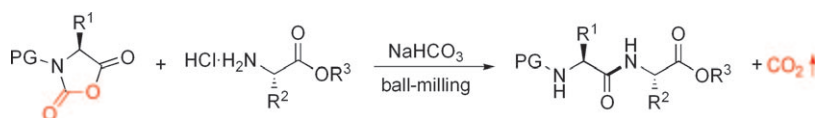
Waiting in line: Aldehyde groups take turns reacting in a Sml_2 -mediated cyclization cascade to form the skeleton **2** of the antibacterial natural product pleuro-

mutilin. Two rings and four contiguous stereocenters are constructed during the cascade with complete diastereocontrol.

Natural Product Synthesis

M. D. Helm, M. Da Silva, D. Sucunza, T. J. K. Findley, D. J. Procter* 9315–9317

A Dialdehyde Cyclization Cascade: An Approach to Pleuromutilin



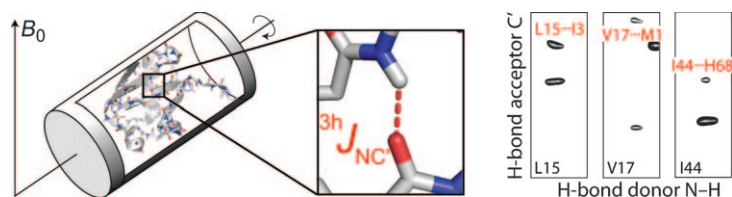
A crush on sweetness! The coupling of a urethane-protected *N*-carboxyanhydride of an amino acid with another amino acid derivative under ball-milling conditions gives a protected dipeptide in very high yield (see scheme; PG: protecting group).

The reaction takes place in the solid state. The synthesis was applied to the preparation of a tripeptide and the sweetener aspartame, without any organic solvent or purification.

Synthetic Methods

V. Declerck, P. Nun, J. Martinez, F. Lamaty* 9318–9321

Solvent-Free Synthesis of Peptides



Hydrogen bonds are ubiquitous interactions in proteins, and are important for their folding and functionality. Scalar coupling constants across hydrogen bonds in the protein backbone, some as small as 0.5 Hz, can be directly measured

in the solid state by NMR spectroscopy (see figure). The nuclei on both sides of the hydrogen bond can be identified and the size of the coupling constant can be measured accurately.

NMR Spectroscopy

P. Schanda,* M. Huber, R. Verel, M. Ernst, B. H. Meier* 9322–9325

Direct Detection of $^3\text{hJ}_{\text{NC}'}$ Hydrogen-Bond Scalar Couplings in Proteins by Solid-State NMR Spectroscopy



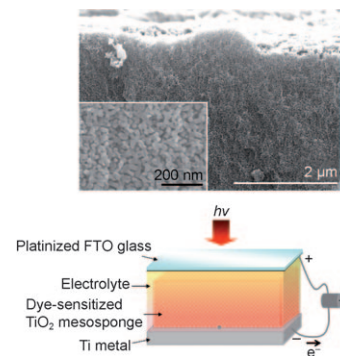
Mesoporous Layers

D. Kim, K. Lee, P. Roy, B. I. Birajdar,
E. Spiecker, P. Schmuki* — **9326–9329**



Formation of a Non-Thickness-Limited Titanium Dioxide Mesosponge and its Use in Dye-Sensitized Solar Cells

Etch a sketch: Robust TiO₂ mesoporous layers can be fabricated on Ti surfaces by a combination of non-thickness-limited anodization and selective etching. Layers more than 50 μm thick with highly regular feature and pore sizes in the range 5–10 nm can be produced (see picture, FTO = fluorine doped tin oxide). The layers are highly flexible, well-adhered, and can be used directly after appropriate annealing in efficient dye-sensitized solar cells.



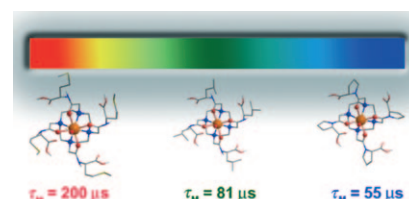
Imaging Techniques

S. Viswanathan, S. J. Ratnakar,
K. N. Green, Z. Kovacs,
L. M. De León-Rodríguez,
A. D. Sherry* — **9330–9333**



Multi-Frequency PARACEST Agents Based on Europium(III)-DOTA-Tetraamide Ligands

Colorful palette: A new class of highly selective Eu³⁺-based multi-frequency PARACEST agents is reported. The complexes can be tuned when administered simultaneously thereby allowing for the possibility of monitoring multiple biomarkers in parallel. PARACEST = paramagnetic chemical exchange saturation transfer.

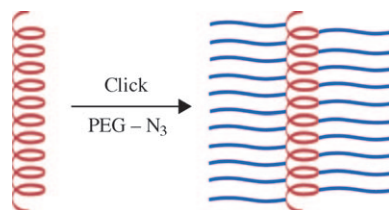


Polymer Brushes

A. C. Engler, H.-i. Lee,
P. T. Hammond* — **9334–9338**



Highly Efficient “Grafting onto” a Polypeptide Backbone Using Click Chemistry



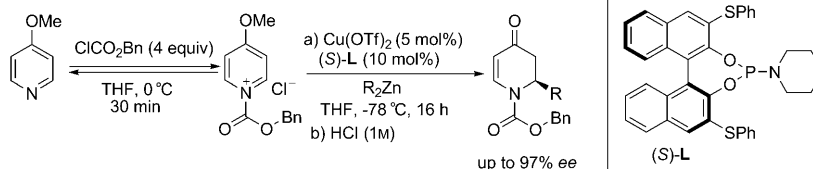
“Clicked” into place: Densely grafted poly(γ-propargyl-L-glutamate)-g-poly(ethylene glycol) polypeptides have been synthesized by combining ring-opening polymerization of *N*-carboxyanhydrides with click chemistry. Various lengths of poly(ethylene glycol) (PEG) side chains (750 g mol^{−1} to 5000 g mol^{−1}) were attached to a rigid α-helical poly(γ-propargyl-L-glutamate); extremely high grafting efficiencies of over 96% were achieved.

Asymmetric Catalysis

M. Á. Fernández-Ibáñez, B. Maciá,
M. G. Pizzuti, A. J. Minnaard,*
B. L. Feringa* — **9339–9341**



Catalytic Enantioselective Addition of Dialkylzinc Reagents to *N*-Acylpyridinium Salts



A pinch of salt: The first catalytic addition of dialkylzinc reagents to *N*-acylpyridinium salts with good yields and excellent enantioselectivities uses a copper–(S)-L complex as the catalyst. The versatility of

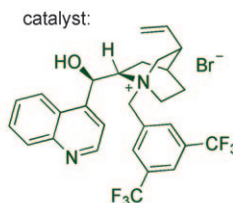
the method is illustrated in the formal synthesis of the alkaloid (*R*)-coniine. Bn = benzyl, Tf = trifluoromethanesulfonyl.

increased reactivity
towards soft nucleophiles

readily converted
into a carboxylic
acid (with NaOH)

up to 98% ee at room temperature!

catalyst:



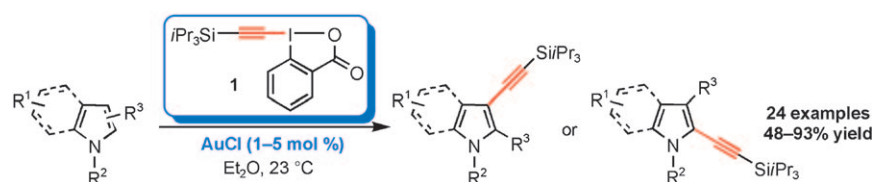
Organocatalysis

A. Baschieri, L. Bernardi,* A. Ricci,
S. Suresh, M. F. A. Adamo* **9342–9345**

Catalytic Asymmetric Conjugate Addition
of Nitroalkanes to 4-Nitro-5-styryl-
isoxazoles

Nitro versus nitro: 4-Nitro-5-styrylisoxazoles were used as masked α,β -unsaturated carboxylic acids in the titled catalytic asymmetric transformation. The 4-nitroisoxazole core acts as an activator of the conjugated alkene and a latent carboxylate

functionality. The reaction proceeded with 5 mol % of a readily prepared phase-transfer catalyst at room temperature with remarkable diastereo- and enantioselectivity (see scheme).



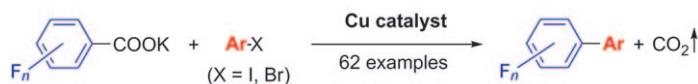
Easy does it: The unique properties of benziodoxolone alkynyl periodinane **1** and gold catalysts have allowed the development of a high yielding, operationally simple (room temperature, no dry sol-

vents or inert conditions, commercially available catalyst) reaction for the introduction of silylacetylenes on a large range of indole and pyrrole heterocycles with a wide range of functional groups (see scheme).

Direct Alkynylation

J. P. Brand, J. Charpentier,
J. Waser* **9346–9349**

Direct Alkynylation of Indole and Pyrrole
Heterocycles



For copper only: The decarboxylative cross-coupling of readily accessible and nonvolatile potassium polyfluorobenzoates with aryl iodides and bromides using a copper catalyst provides poly-

fluorobiaryls and polyfluorostilbenes in excellent yields (see scheme). Mechanistic analyses are reported for the title reaction.

C–C Coupling

R. Shang, Y. Fu, Y. Wang, Q. Xu, H.-Z. Yu,
L. Liu* **9350–9354**

Copper-Catalyzed Decarboxylative
Cross-Coupling of Potassium
Polyfluorobenzoates with Aryl Iodides
and Bromides



Biocompatible: A modular chemoenzymatic synthesis (see scheme) based on asymmetric organo- and biocatalytic reaction sequences allows the sequential construction of both stereogenic centers of 1,3-diols and leads to all four possible

stereoisomers in enantiomerically pure form. The biocompatibility of the organocatalytic aldol reaction allows its direct use in the subsequent enzymatic reduction without the need for a work-up step.

Chemoenzymatic Synthesis

K. Baer, M. Krauß, E. Burda,
W. Hummel, A. Berkessel,
H. Gröger* **9355–9358**

Sequential and Modular Synthesis of
Chiral 1,3-Diols with Two Stereogenic
Centers: Access to All Four Stereoisomers
by Combination of Organo- and
Biocatalysis

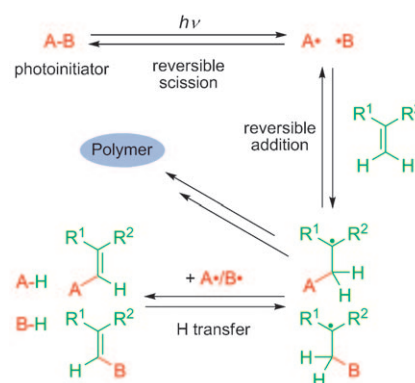


Radical Polymerization

M. Griesser, D. Neshchadin, K. Dietliker,
N. Moszner, R. Liska,
G. Gescheidt* _____ **9359–9361**

Decisive Reaction Steps at Initial Stages of
Photoinitiated Radical Polymerizations

The first addition of photoinitiator radicals formed by the photolysis of a bisacylphosphine oxide photoinitiator to an acrylate double bond proceeds reversibly (see scheme; $R^1 = t\text{Bu}$, H ; $R^2 = \text{MeOC}(=\text{O})$, $\text{BuOC}(=\text{O})$). Moreover, hydrogen transfer between substituted benzoyl radicals and the growing radical chain explains the formation of aldehydes in such a transformation.



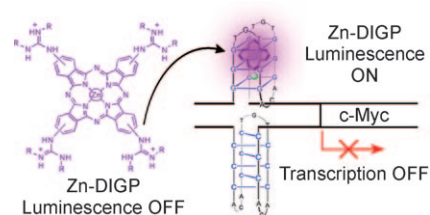
G-Quadruplex DNA

J. Alzeer, B. R. Vummidi, P. J. C. Roth,
N. W. Luedtke* _____ **9362–9365**



Guanidinium-Modified Phthalocyanines as High-Affinity G-Quadruplex
Fluorescent Probes and Transcriptional
Regulators

Fluorescence is ON and transcriptional control is OFF when the guanidinium-modified zinc phthalocyanine Zn-DIGP binds a G-quadruplex DNA from the c-Myc promoter. With an equilibrium dissociation constant K_d of less than 2 nM, this interaction is the strongest binding interaction between a G-quadruplex structure and a small molecule reported to date.



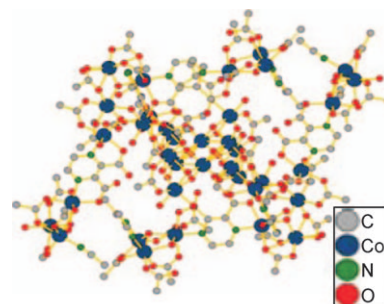
Metal Clusters

P. Alborés,* E. Rentschler* _____ **9366–9370**



A Co_{36} Cluster Assembled from the
Reaction of Cobalt Pivalate with
2,3-Dicarboxypyrazine

A record Co_{36} cluster is prepared. This mixed-valent compound containing Co^{II} and Co^{III} centers is formed in the reaction of a dinuclear cobalt pivalate species with the polydentate 2,3-dicarboxypyrazine ligand. In terms of magnetic properties it behaves as a $\{\text{Co}_{16}-\text{Co}_{16}\}$ supramolecular dimer in which the $S=4$ spin ground states of each monomer do not interact.



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).

“Hot Papers” are chosen by the Editors for their importance in a rapidly evolving field of high current interest. A preview with the graphical abstracts of these articles can be found on the *Angewandte Chemie* homepage in Wiley InterScience at www.angewandte.org.

All articles in *Angewandte Chemie* are published online several weeks ahead of print. They are found under the “EarlyView” link on the journal’s homepage in Wiley InterScience.

Angewandte

Service

Vacancies _____ **9212**

**Spotlight on Angewandte's
Sister Journals** _____ **9214–9216**

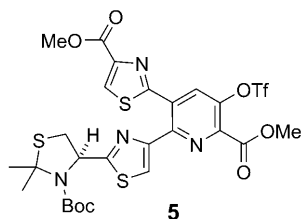
Keywords _____ **9372**

Authors _____ **9373**

Preview _____ **9375**

Corrigendum

The correct structural formula of compound **5** in Scheme 1 of this Communication appears below. The authors apologize for this oversight.



Aza-Wittig-Supported Synthesis of the
A Ring of Nosiheptide

J.-Y. Lu, M. Riedrich, M. Mikyna,
H.-D. Arndt* 8137–8140

Angew. Chem. Int. Ed. **2009**, *48*

DOI 10.1002/anie.200903477

Corrigendum

In this Communication, the discussion of work by the Kraus research group was not precisely expressed and should be corrected to the following: Kraus and Wei^[3d] reported that **7** and its diastereomer, which were claimed to be isolated as by-products in their elegant synthesis of racemic hyperlactone C, could not be converted into a lactone using heat, acid (PTSA), or base (*t*BuOK, NaH, or KH) catalysis. However, careful analysis and comparison of the NMR data of **13** (1:1 mixture of diastereomers) with both the by-products reported by Kraus and Wei indicated that they were identical (see the Supporting Information).

Moreover, the value of $\delta = 155.9$ ppm in the ¹³C NMR data listed for compound **13** in the Supporting Information should be removed. The authors are grateful to Prof. David Hodgson of Oxford University for pointing this out.

Construction of Two Vicinal Quaternary
Carbons by Asymmetric Allylic Alkylation:
Total Synthesis of Hyperlactone C and
(–)-Biyouyanagin A

C. Du, L. Li, Y. Li, Z. X. Xie* 7853–7856

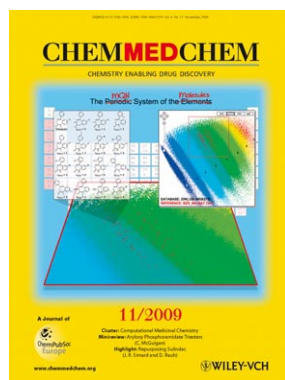
Angew. Chem. Int. Ed. **2009**, *48*

DOI 10.1002/anie.200902908

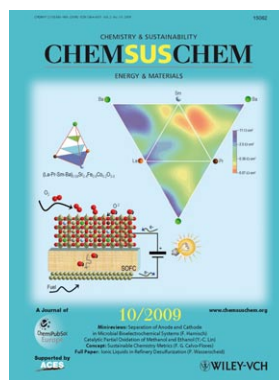
Check out these journals:



www.chemasianj.org



www.chemmedchem.org



www.chemsuschem.org



www.chemcatchem.org