



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

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. L. Alonso-Gómez, P. Rivera-Fuentes, N. Harada, N. Berova, F. Diederich*

An Enantiomerically Pure Alleno-Acetylenic Macrocycle: Synthesis and Rationalization of Its Outstanding Chiroptical Response

P. García-García, M. A. Fernández-Rodríguez, E. Aguilar*
Gold-Catalyzed Cycloaromatization of 2,4-Dien-6-yne Carboxylic Acids: Synthesis of 2,3-Disubstituted Phenols and Unsymmetrical Bi- and Terphenyls

H. Jiang, P. Elsner, K. L. Jensen, A. Falcicchio, V. Marcos, K. A. Jørgensen*

Achieving Molecular Complexity by Organocatalytic One-Pot Strategies: A Fast Entry for the De Novo Synthesis of Sphingoids, Amino Sugars and Polyhydroxylated α -Amino Acids

P. A. Rugar, R. Bandyopadhyay, B. F. T. Cooper, M. R. Stinchcombe, P. J. Ragogna, C. L. B. Macdonald,* K. M. Baines*

Cationic Crown Ether Complexes of Germanium(II)

T. J. Kucharski, Z. Huang, Q.-Z. Yang, Y. Tian, N. C. Rubin, C. D. Concepcion, R. Boulatov*

Kinetics of Thiol/Disulfide Exchange Correlates Weakly with the Restoring Force in the Disulfide Moiety

W. Xu, X. Xue, T. Li, H. Zeng, X. Liu*

Ultrasensitive and Selective Colorimetric DNA Detection by Nicking Endonuclease-Assisted Nanoparticle Amplification



“My favorite subject at school was mathematics, although I have forgotten most of it. When I was eighteen I wanted to be 19 and to finish school. ...”

This and more about Christoph A. Schalley can be found on page 4888.

Author Profile

Christoph A. Schalley ————— 4888



A. Müller



M. Kappes

News

Inorganic Chemistry:

A. Müller Awarded ————— 4889

Physical Chemistry:

Prize for M. Kappes ————— 4889

Bunsen Society:

J. Troe and J. Küpper Honored — 4889

Books

Coordination Polymers

Stuart R. Batten, Suzanne M. Neville,
David R. Turner

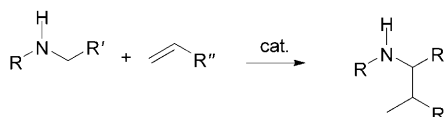
reviewed by K. M. Fromm ————— 4890

Highlights

C–H Activation

P. W. Roesky* ————— 4892 – 4894

Catalytic Hydroaminoalkylation



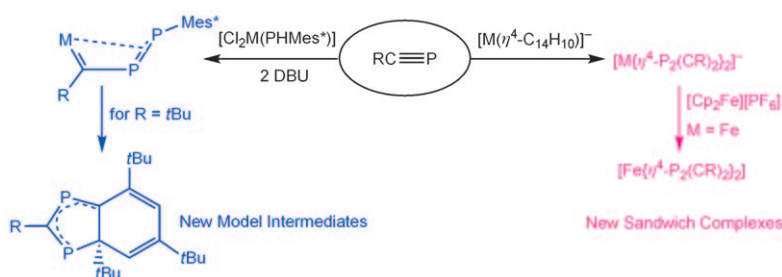
Excellent couplings: Recent developments in the metal-catalyzed C–H activation of sp^3 centers in an α position relative to an amine nitrogen atom are presented.

Their reaction with alkenes to give alkylamines (hydroaminoalkylation) is also summarized (see general scheme).

Phosphorus Chemistry

C. A. Russell* ————— 4895 – 4897

New Adventures in the Molecular Chemistry of Phosphorus



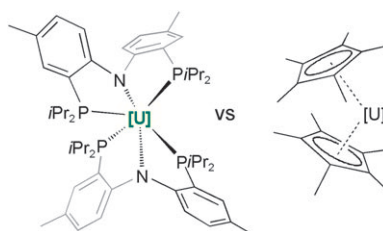
Teaching old dogs new tricks: Recent developments in low-coordinate phosphorus chemistry reveal the capacity of this element for surprises. For example, P for CR substitution in new phospho-

alkynes was used to stabilize purported intermediates in an important synthetic transformation, and also to form new diphosphacyclobutadiene sandwich complexes (see scheme).

Actinides

M. Ephritikhine* ————— 4898 – 4899

A Soft Alternative to the Dominant $\{(C_5Me_5)_2U\}$ Motif



Pincers do something for U that sandwiches don't: The dead-ends in the metallocene chemistry of the actinides can be circumvented by using a soft PNP pincer ligand (see scheme). The PNP ligand has been shown to be flexible, hemilabile, and capable of stabilizing low- and high-valent uranium species. The bis(PNP) framework is a valuable alternative to the $(C_5Me_5)_2$ ligand set, offering distinct structures and reaction patterns.

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.

Minireviews

Click Chemistry

C. R. Becer, R. Hoogenboom,
U. S. Schubert* ————— 4900 – 4908

Click Chemistry beyond Metal-Catalyzed
Cycloaddition



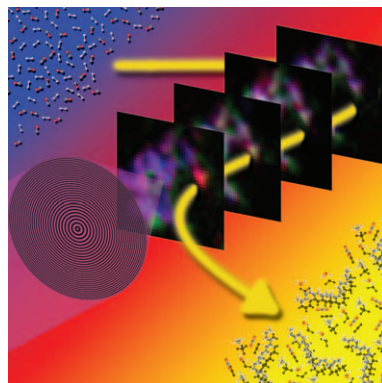
No copper needed: In recent years, a large number of metal-free click reactions have been reported based on thiol-ene radical additions, Diels–Alder reactions, and Michael additions. In this Minireview, special attention is given to the advantages and limitations of the different methods to evaluate whether they have the potential to surpass the overwhelming success of the copper(I)-catalyzed azide-alkyne cycloaddition.

Reviews

Heterogeneous Catalysts

B. M. Weckhuysen* ————— 4910 – 4943

Chemical Imaging of Spatial
Heterogeneities in Catalytic Solids at
Different Length and Time Scales



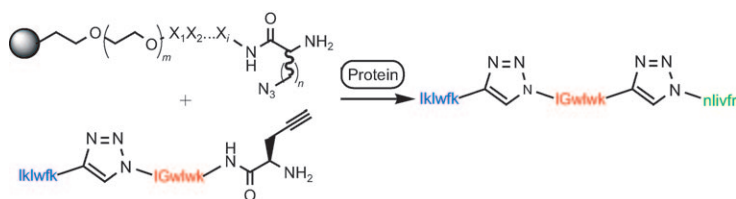
Catalytic solids in the spotlight: Detailed insight into the working principles of heterogeneous catalysts is essential for the design of improved or totally new ones. Such insight can be provided by making use of chemical imaging techniques, which yield spatiotemporal information about the workings of catalytic solids at different length scales: at the level of reactors, catalyst bodies, catalyst grains, and nanoparticles.

Communications

Affinity Agents

H. D. Agnew, R. D. Rohde, S. W. Millward,
A. Nag, W.-S. Yeo, J. E. Hein, S. M. Pitram,
A. A. Tariq, V. M. Burns, R. J. Krom,
V. V. Fokin, K. B. Sharpless,
J. R. Heath* ————— 4944 – 4948

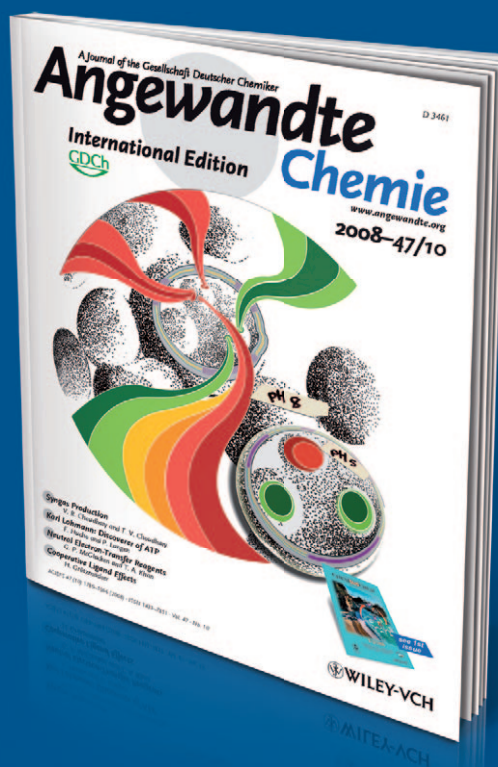
Iterative In Situ Click Chemistry Creates
Antibody-like Protein-Capture Agents



Special agents for protein capture: Iterative in situ click chemistry (see scheme for the tertiary ligand screen) and the one-bead-one-compound method for the creation of a peptide library enable the fragment-based assembly of selective

high-affinity protein-capture agents. The resulting ligands are water-soluble and stable chemically, biochemically, and thermally. They can be produced in gram quantities through copper(I)-catalyzed cycloaddition.

Incredibly inexpensive.



Do chemistry journals really cost so much? Perhaps some do, but certainly not *Angewandte Chemie*! In 2008, an entire institution could subscribe through Wiley InterScience* for 5000 € and get access to 52 issues with over 1600 articles and all associated online search options, and for just 5 % more, the printed issues could be included as well. For full members of the German Chemical Society (GDCh), a personal subscription cost not much more than 300 €, and student GDCh members paid less than 150 €, which is just under 3 € per issue - a price that even compares with high-circulation newsstand publications!

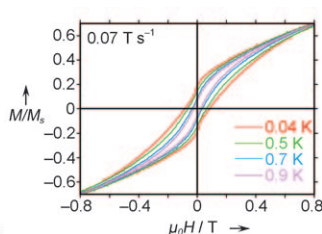
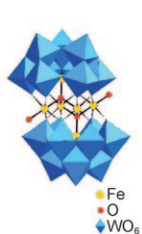
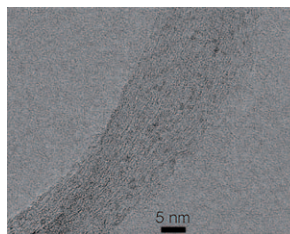
*www.interscience.wiley.com



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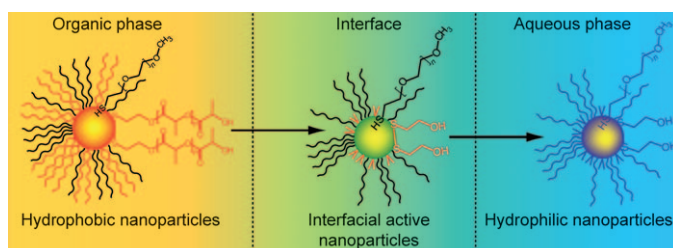
A POM to remember: Hexanuclear Fe^{III} polyoxometalate (POM) single-molecule magnets (see structure) can be noncovalently assembled on the surface of single-wall carbon nanotubes. Complementary characterization techniques (see TEM

image and magnetic hysteresis loops) demonstrate the integrity and bistability of the individual molecules, which could be used to construct single-molecule memory devices.

Single-Molecule Magnets

A. Giusti, G. Charron,* S. Mazerat, J.-D. Compain, P. Mialane, A. Dolbecq, E. Rivière, W. Wernsdorfer, R. Ngo Biboum, B. Keita, L. Nadj, A. Filoramo, J.-P. Bourgoin, T. Mallah* **4949–4952**

Magnetic Bistability of Individual Single-Molecule Magnets Grafted on Single-Wall Carbon Nanotubes



In the swim: Colloidal nanoparticles coated with polylactide (PLA, red) and poly(ethylene glycol) brushes (PEG, black) can transfer from organic to aqueous phases across liquid/liquid or liquid/gel

interfaces during degradation of the PLA coating (see picture: first step), which is driven selectively by the hydrogen bonding of the PEG coating with the aqueous phase (second step).

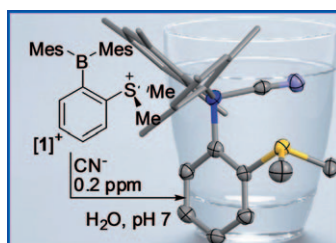
Biotechnology

Z. Mao, J. Guo, S. Bai, T.-L. Nguyen, H. Xia, Y. Huang,* P. Mulvaney, D. Wang* **4953–4956**

Hydrogen-Bond-Selective Phase Transfer of Nanoparticles across Liquid/Gel Interfaces



Going fishing! The sulfonium borane [1]⁺ complexes cyanide in pure water at the maximum allowable concentration of 50 ppb recommended by the European Union. The high cyanide ion affinity displayed by this compound arises from favorable Coulombic effects augmented by a direct bonding interaction between the cyano and sulfonio groups.



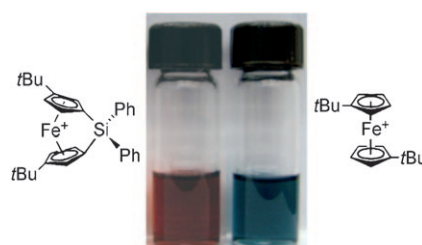
Receptors

Y. Kim, H. Zhao, F. P. Gabbaï* **4957–4960**

Sulfonium Boranes for the Selective Capture of Cyanide Ions in Water



Not blue but red-brown: A [1]ferrocenophanium ion has been synthesized and isolated as a red-brown crystalline salt, surprisingly different in color from characteristically blue-green unstrained ferrocenium ions. Compared to the neutral iron(II) counterpart, the [1]ferrocenophanium ion displays a considerably higher ring tilt and an increased propensity for ring-opening reactions.



Cationic Metallocenophanes

G. Masson, D. E. Herbert, G. R. Whittell, J. P. Holland, A. J. Lough, J. C. Green,* I. Manners* **4961–4964**

Synthesis and Reactivity of a Strained Silicon-Bridged [1]Ferrocenophanium Ion



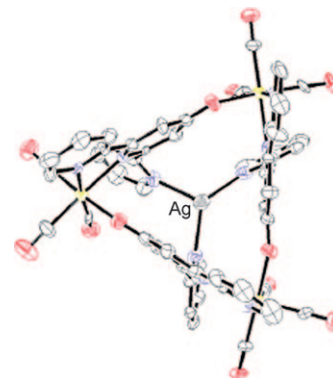
Coordination Chemistry

M. P. Coogan,* V. Fernández-Moreira,
B. M. Kariuki, S. J. A. Pope,
F. L. Thorp-Greenwood — 4965–4968



A Rhenium Tricarbonyl 4'-Oxo-terpy
Trimer as a Luminescent Molecular Vessel
with a Removable Silver Stopper

Shining metal cups: A luminescent tube of triangular cross-section and stoppered by a silver ion (see picture: Re yellow, N blue, O red) is formed in two steps from commercial materials. The silver ion can be removed to give a tube, and both species are potential hosts for small ions and molecules; a change in luminescence is triggered by the encapsulation of silver.

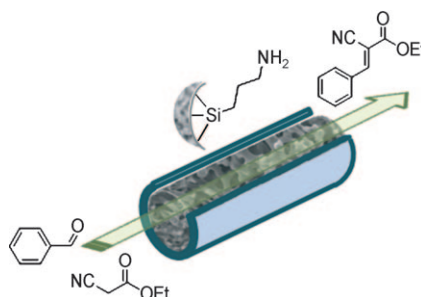


Microreactors

A. El Kadib, R. Chimenton, A. Sachse,
F. Fajula, A. Galarneau,
B. Coq* — 4969–4972



Functionalized Inorganic Monolithic
Microreactors for High Productivity in
Fine Chemicals Catalytic Synthesis



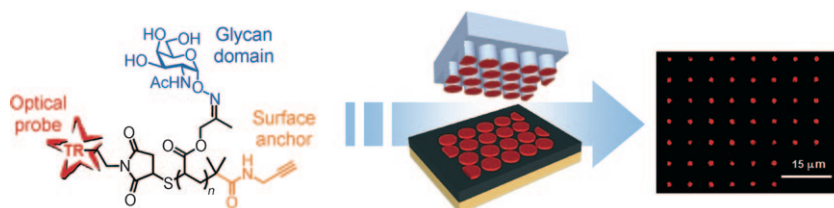
Highly productive: Grafted monolith silica skeleton microreactors process bulky molecules more efficiently than a batch mode reactor. This efficiency is due to a higher contact area, shorter diffusion path, and lower inhibition by products in the thin monolith skeleton. These materials provide a new approach in the field of heterogeneous catalysis for the synthesis of fine chemicals.

Microarrays

K. Godula, D. Rabuka, K. T. Nam,
C. R. Bertozzi* — 4973–4976



Synthesis and Microcontact Printing of
Dual End-Functionalized Mucin-like
Glycopolymers for Microarray
Applications



Click to view: Glycopolymers can be used to display glycans on microarrays in native-like architectures. The structurally uniform alkyne-terminated mucin mimetic glycopolymers (see picture; TR = fluorophore) were printed on azide-

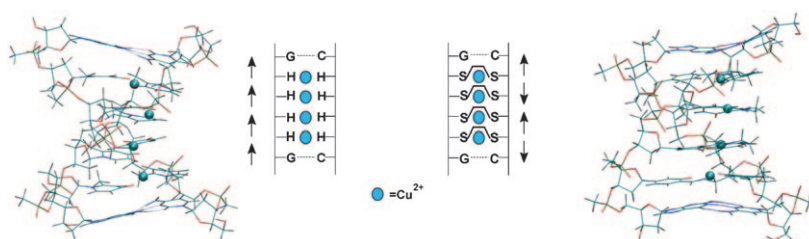
functionalized chips by microcontact printing in the presence of a copper catalyst. The surface-bound glycopolymers bind lectins in a ligand-specific manner.

Bioinorganic Chemistry

S. S. Mallajosyula,
S. K. Pati* — 4977–4981

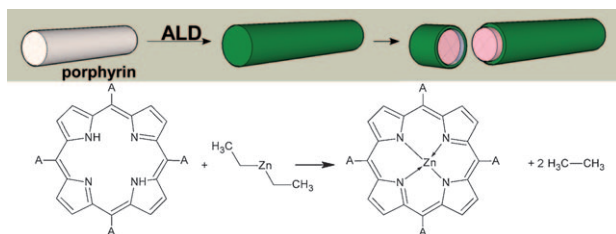


Conformational Tuning of Magnetic
Interactions in Metal–DNA Complexes



The alignment of Cu²⁺ ions along a modified DNA helix is studied with either hydroxypyridone (H) or bis(salicylaldehyde)ethylenediamine (S-en) metalated base pairs (MBPs). The conformational motion of H-MBP leads to the interlinking

of the H-MBPs by an extended Cu–O network that is ferromagnetic, whereas the conformational freezing of the S-en-MBP leads to an ordered pairwise-stacked arrangement that is weakly antiferromagnetic.



New uses for ALD: By applying standard metal oxide atomic layer deposition (ALD) to two types of porphyrins, site-specific chemical infiltration of substrate molecules is achieved: Diethylzinc can diffuse

into the interior of porphyrin supra-molecular structures and induce metal-ation of the porphyrin molecules from the vapor phase. A = Ph, *p*-HO₃SC₆H₄.

Hybrid Nanostructures

L. Zhang,* A. J. Patil, L. Li, A. Schierhorn, S. Mann, U. Gösele, M. Knez* — 4982 – 4985

Chemical Infiltration during Atomic Layer Deposition: Metalation of Porphyrins as Model Substrates

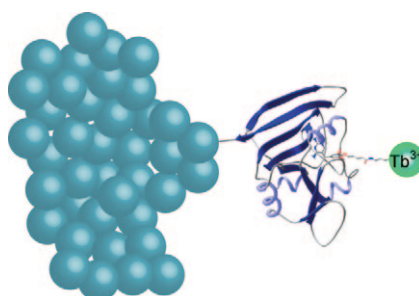


Linked to the Pentagon: The addition of molybdate to [HBW₁₁O₃₉]⁸⁻ ions leads to the formation of mixed pentagonal units {W(Mo₅)} and {W(WMo₄)} trapped as linkers in the resulting modular assemblies, thus establishing the first link between the conventional Keggin ion derivatives and the giant molybdenum oxide and keplerate ions.

Keggin Structures

N. Leclerc-Laronze, J. Marrot, R. Thouvenot,* E. Cadot* — 4986 – 4989

Structural Link between Giant Molybdenum Oxide Based Ions and Derived Keggin Structure: Modular Assemblies Based on the [BW₁₁O₃₉]⁹⁻ Ion and Pentagonal {M'M₅} Units (M' = W; M = Mo, W)

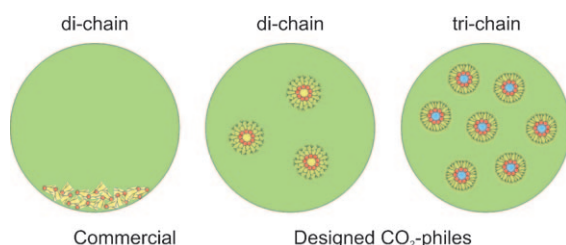


Brilliance of terbium: Heterodimeric conjugates of trimethoprim covalently linked to sensitized terbium chelates bind to *Escherichia coli* dihydrofolate reductase fusion proteins with nanomolar affinity (see picture). Terbium luminescence enables sensitive and time-resolved detection of labeled proteins in vitro and on the surface of living mammalian cells.

Live-Cell Imaging

H. E. Rajapakse, D. R. Reddy, S. Mohandessi, N. G. Butlin, L. W. Miller* — 4990 – 4992

Luminescent Terbium Protein Labels for Time-Resolved Microscopy and Screening



Getting their feet wet: Low-cost hydrocarbon surfactants act as fluid modifiers for supercritical carbon dioxide (scCO₂). Increased terminal branching of the sur-

factant chains aids micelle formation (see middle picture: CO₂ green), and more chains allows water to be incorporated (right, blue).

Micellar Modifiers

M. J. Hollamby, K. Trickett, A. Mohamed, S. Cummings, R. F. Tabor, O. Myakonkaya, S. Gold, S. Rogers, R. K. Heenan, J. Eastoe* — 4993 – 4995

Tri-Chain Hydrocarbon Surfactants as Designed Micellar Modifiers for Supercritical CO₂

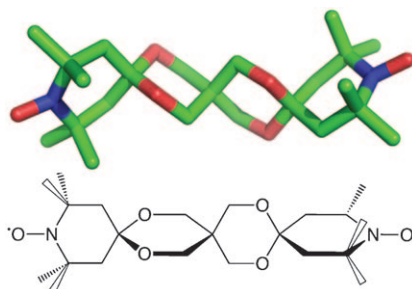


Dynamic Nuclear Polarization

Y. Matsuki, T. Maly, O. Ouari, H. Karoui,
F. Le Moigne, E. Rizzato, S. Lyubenova,
J. Herzfeld, T. Prisner, P. Tordo,
R. G. Griffin* — 4996 – 5000



Dynamic Nuclear Polarization with a Rigid Biradical



A new polarizing agent with superior performance in dynamic nuclear polarization experiments is introduced, and utilizes two TEMPO (2,2,6,6-tetramethylpiperidine-1-oxyl) moieties connected through a rigid spiro tether (see structure). The observed NMR signal intensities were enhanced by a factor of 1.4 compared to those of TOTAPOL, a previously described TEMPO-based biradical with a flexible tether.

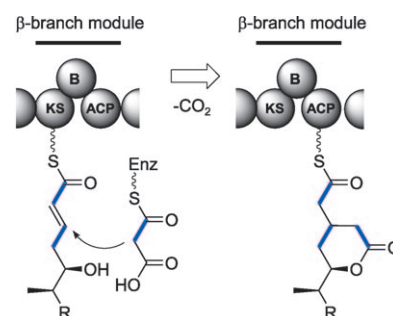
Polyketide Biosynthesis

B. Kusebauch, B. Busch, K. Scherlach,
M. Roth, C. Hertweck* — 5001 – 5004



Polyketide-Chain Branching by an Enzymatic Michael Addition

A new “branch” for polyketide synthases was discovered in the biosynthesis of the antimitotic rhizoxin complex in the endofungal bacterium *Burkholderia rhizoxinica*. Genetic engineering and the structural elucidation of pathway intermediates revealed that a complex polyketide chain is branched at the β position by an unprecedented conjugate addition of an acetyl building block to an acryloyl precursor (see scheme).

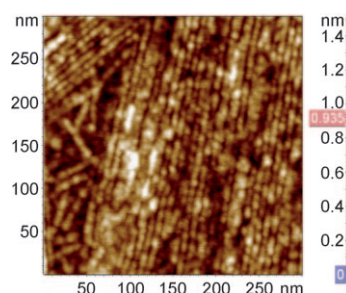


Amyloid Nanostructures

M. Lepère, C. Chevallard,
G. Brezesinski, M. Goldmann,
P. Guenoun* — 5005 – 5009



Crystalline Amyloid Structures at Interfaces



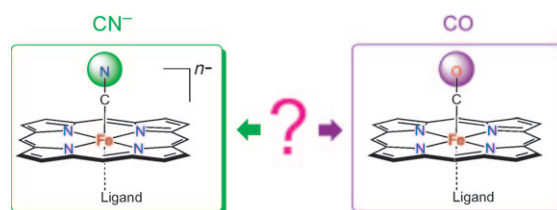
Laying the groundwork: The interfacial self-assembly properties of an amyloid peptide were used to develop crystalline nanostructures at air–water interfaces, which were studied by both AFM microscopy and X-ray diffraction (see image). These structures generate regular arrays of functional groups and pave the way to controlled deposition of inorganic materials like that observed in biomineralization.

Structure and Bonding

J. Li, B. C. Noll, C. E. Schulz,
W. R. Scheidt* — 5010 – 5013

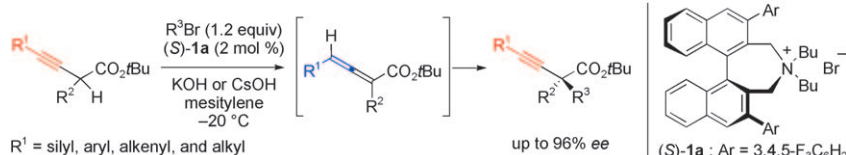


Comparison of Cyanide and Carbon Monoxide as Ligands in Iron(II) Porphyrinates



Spot the difference: The five-coordinate iron(II) cyanoporphyrinates, which are spin-crossover compounds, can be used to synthesize previously unknown six-coordinate complexes. Bis(cyano) and

(cyano)imidazole complexes are presented, and the five- and six-coordinate (cyano)iron(II) derivatives are compared with analogous CO complexes.



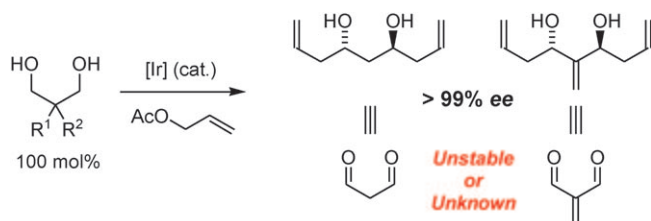
Going through the phases: The title reaction was found to proceed by an initial base-mediated isomerization to allenyl

esters and subsequent phase transfer catalyzed alkylation at the α position of the ester (see scheme).

Asymmetric Synthesis

T. Hashimoto, K. Sakata,
K. Maruoka* 5014–5017

α -Chiral Acetylenes Having an All-Carbon Quaternary Center: Phase Transfer Catalyzed Enantioselective α Alkylation of α -Alkyl- α -alkynyl Esters



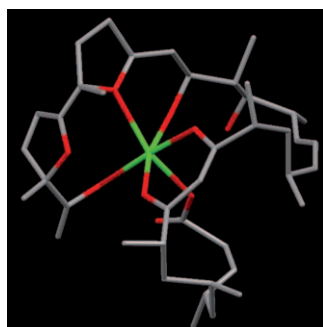
Unstable? We're able! 1,*n*-Glycols serve as synthetic equivalents to unstable dialdehydes in two-directional carbonyl allylation from the alcohol oxidation level under iridium-catalyzed transfer hydrogenation

conditions. Iterative asymmetric allylation employing 1,3-propanediol enables the rapid assembly of protected 1,3-polyol substructures with exceptional levels of stereocontrol.

Synthetic Methods

Y. Lu, I. S. Kim, A. Hassan, D. J. Del Valle,
M. J. Krische* 5018–5021

1,*n*-Glycols as Dialdehyde Equivalents in Iridium-Catalyzed Enantioselective Carbonyl Allylation and Iterative Two-Directional Assembly of 1,3-Polyols

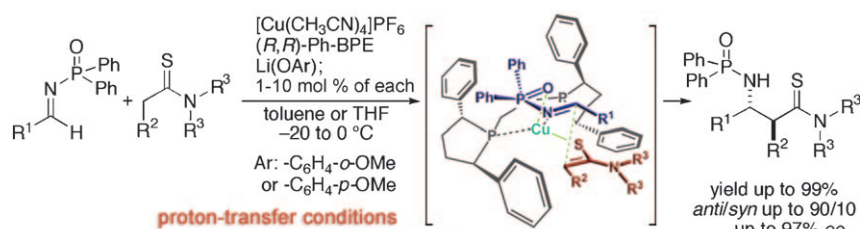


Caught in the middle: The ionomycin calcium complex (see structure; O red, Ca green) was the target of an approach featuring the efficient asymmetric synthesis of an allene by a copper(I)-mediated *anti*-selective S_N2' reaction, a highly stereoselective gold(III)-catalyzed cycloisomerization of an α -hydroxyallene, and a Rh-catalyzed rearrangement of an α -diazo- β -hydroxyketone.

Total Synthesis

Z. Gao, Y. Li, J. P. Cooksey, T. N. Snaddon,
S. Schunk, E. M. E. Viseux, S. M. McAteer,
P. J. Kocienski* 5022–5025

A Synthesis of an Ionomycin Calcium Complex



Taking the reins: The title transformation of thioamides and *N*-diphenylphosphinoyl imines is described. By harnessing the power of cooperative catalysis between a soft Lewis acid and a hard Brønsted base,

thioamide carbon pronucleophiles can furnish Mannich products (see scheme). Divergent transformation of the thioamide functionality highlights the utility of this methodology.

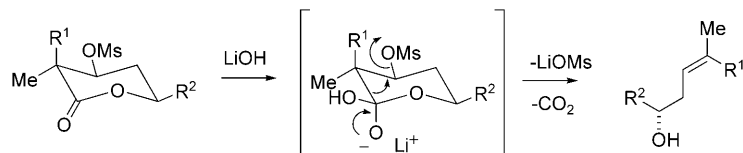
Asymmetric Catalysis

Y. Suzuki, R. Yazaki, N. Kumagai,*
M. Shibasaki* 5026–5029

Direct Catalytic Asymmetric Mannich-Type Reaction of Thioamides

Olefin Synthesis

K. Prantz, J. Mulzer* — 5030 – 5033

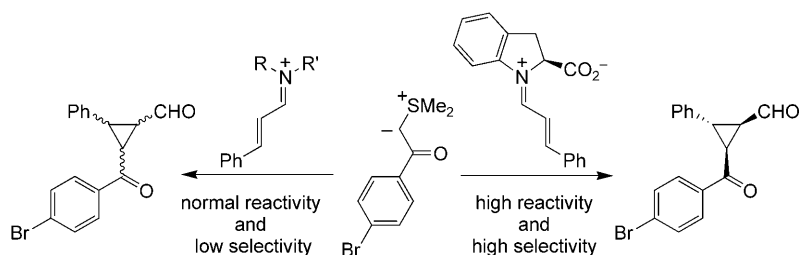


Discriminating elimination: A new method for the synthesis of methyl-branched trisubstituted Z olefins, a structural motif in many polyketides with anticancer activity, relies on an ^-OH -induced decarboxylative Grob-type frag-

mentation (see scheme; Ms = mesyl). The starting materials are β -mesyloxy lactones with a quaternary α center, which are prepared by aldol reactions in a diastereo- and enantioselective manner.

Organocatalysis

S. Lakhdar, R. Appel,
H. Mayr* — 5034 – 5037

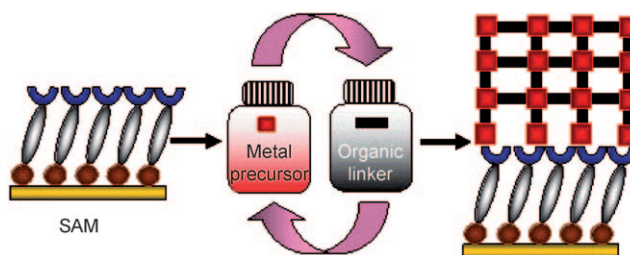


Prediction of $lgk = s(N+E)$ verified: In contrast to previous statements, ordinary α,β -unsaturated iminium ions do react with sulfur ylides. Electrostatic interac-

tions accelerate the reactions by a factor of more than 10^5 and are responsible for the high stereoselectivity.

MOFs on Surfaces

O. Shekhah, H. Wang, D. Zacher,
R. A. Fischer, C. Wöll* — 5038 – 5041

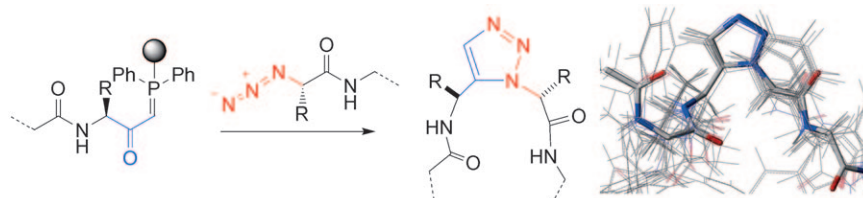


One step at a time: The in situ monitoring of the step-by-step formation of metal-organic frameworks (MOFs) by using surface plasmon resonance (SPR), allows the nucleation process and the formation

of the secondary building units to be investigated. Growth rates on functionalized organic surfaces with different crystallographic orientations can also be studied.

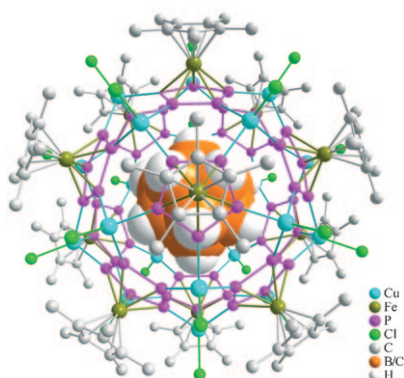
Biocompatible Ligations

Ahsanullah, P. Schmieder, R. Kühne,
J. Rademann* — 5042 – 5045



Metal-free triazole turns: 1,5-Disubstituted peptidyl triazoles are obtained regioselectively from the 1,3-dipolar cycloaddition of peptidyl phosphoranes and azides. Peptide turns are thus formed that con-

tain a conformationally locked *cis* peptide bond. Being regioselective and free of heavy metals, this reaction may find broad application in chemical biology and medicinal chemistry.



The complete encapsulation of *ortho*-carborane by a fullerene-like building-block system consisting of pentaphosphaferrocene and Cu^ICl leads to the formation of the spherical supermolecule C₂B₁₀H₁₂@-[Cp*Fe(η⁵-P₅)]₁₂(CuCl)₂₀. This product of template-controlled aggregation represents the first example of a carbon-free C₈₀ analogue possessing icosahedral symmetry.

Host–Guest Compounds

M. Scheer,* A. Schindler,
C. Gröger, A. V. Virovets,
E. V. Peresypkina _____ 5046–5049

A Spherical Molecule with a Carbon-Free
I_h-C₈₀ Topological Framework



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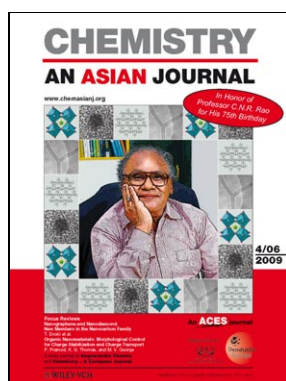
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Authors _____ 5051

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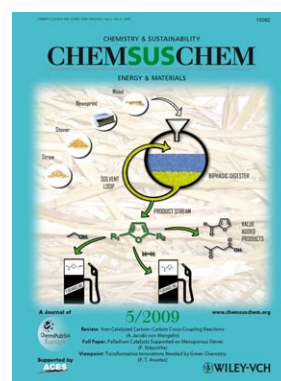
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Corrigendum

Copper-Catalyzed Direct C-Arylation of
Heterocycles with Aryl Bromides:
Discovery of Fluorescent Core
Frameworks

D. Zhao, W. Wang, F. Yang, J. Lan,
L. Yang, G. Gao, J. You* — **3296–3300**

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

DOI 10.1002/anie.200900413

The authors would like to correct the following claims made in their article which misrepresent data that was published prior to our work.

- 1) It was claimed that the system previously developed by others is efficient only for reactions with aryl iodides. However, it has been previously shown that arylation of heterocycles by aryl bromide is possible with their system.^[1] Additionally, multiple examples of the arylation of electron-deficient arenes by aryl bromides have been reported, and the method employs the exact reaction conditions which were used for the arylation of electron-rich heterocycles.^[1,2] Even activated aryl chlorides have been shown to be reactive for copper-catalyzed arylation. Hence, the claim that the previously reported system is effective only with aryl iodides is incorrect.
- 2) It was claimed that regioselectivity and functional-group tolerance of the previously reported method^[1,2] are compromised because of the use of strong bases, and that the method described is compatible with functional groups such as esters, cyanos, aldehydes, and others. However, it has been previously demonstrated that the method is compatible with most of these functional groups.^[1,2] Hence, the claim of improved functional group tolerance is incorrect.
- 3) The prior use of K_3PO_4 base in copper-catalyzed arylations was overlooked, and the reaction conditions that were reported are almost identical to the ones reported earlier.^[1] Catalytic CuI /phenanthroline in combination with $ArBr$ in DMF /xylene solvent was shown to be efficient for the arylation of electron-deficient arenes.^[1,2] Hence, the claims of developing a new catalytic system are incorrect.

[1] H.-Q. Do, R. K. M. Khan, O. Daugulis, *J. Am. Chem. Soc.* **2008**, 130, 15185.

[2] H.-Q. Do, O. Daugulis, *J. Am. Chem. Soc.* **2008**, 130, 1128.