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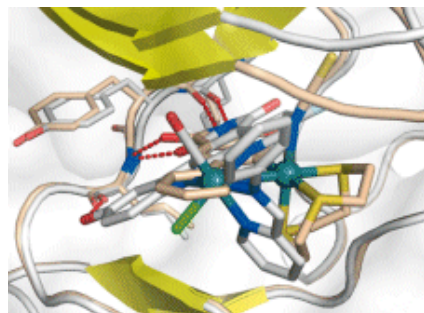
Associated Title(s): [Angewandte Chemie \(/doi/10.1002/\(ISSN\)1521-3757/home\)](http://doi/10.1002/(ISSN)1521-3757/home)

Upcoming Hot Papers

Hot Papers are chosen by the Editors for their importance in a rapidly evolving field of high current interest. Many of the "Very Important Papers" (VIPs) would certainly qualify to be included here, but such a duplication is avoided.

Bioorganometallic Chemistry

The Art of Filling Protein Pockets Efficiently with Octahedral Metal Complexes



Sebastian Blanck, Jasna Maksimoska, Julia Baumeister, Dr. Klaus Harms, Ronen Marmorstein*, Eric Meggers*

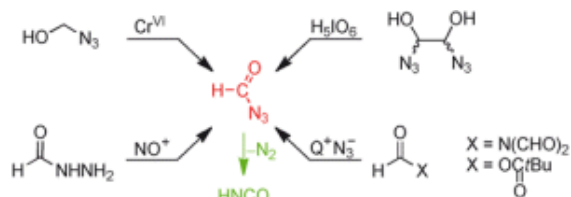
Better fit, less effort: An easy-to-synthesize ruthenium phthalimide complex (tan-colored carbon atoms in the picture) was designed to bind within the active site of the p21-activated kinase 1 in a novel fashion that differs from that of the previously established staurosporine-inspired metallopyridocarbazoles (gray-colored carbon atoms).

Published online, DOI: [10.1002/anie.201108865](http://doi/10.1002/anie.201108865) –
[Read now \(http://doi.wiley.com/10.1002\)](http://doi.wiley.com/10.1002)

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Acyl Azides

Experimental and Theoretical Studies on the Synthesis, Spectroscopic Data, and Reactions of Formyl Azide



Klaus Banert*, Christian Berndt, Manfred Hagedorn, Hailiang Liu, Tony Anacker, Joachim Friedrich*, Guntram Rauhut*

Small is beautiful: spectroscopic proof or any other indication for the existence of formyl azide (HC(O)N₃) has until now been lacking. Although it liberates dinitrogen much more rapidly than homologous acyl azides, it has been prepared for the first time by four different methods (see scheme).

Coming soon.

Organic Electronics

Maximizing Field-Effect Mobility and Solid-State Luminescence in Organic Semiconductors



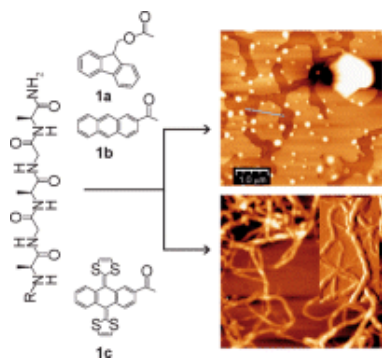
Afshin Dadvand, Andrey G. Moiseev, Kosuke Sawabe, Wei-Hsin Sun, Brandon Djukic, Insik Chung, Taishi Takenobu, Federico Rosei, Dmitrii F. Perepichka*

Conductive and emissive: Organic transistors made from a simple styrylanthracene derivative (see scheme) have high charge mobility and high luminescence quantum yields. These properties are attributed to the lack of singlet fission, and challenge the idea that the efficient π interactions required for high mobility always lead to quenching of emission. The transistors emit blue electroluminescence and are stable during operation and storage.

Coming soon.

Supramolecular Chemistry

Concave versus Planar Geometries for the Hierarchical Organization of Mesoscopic 3D Helical Fibers



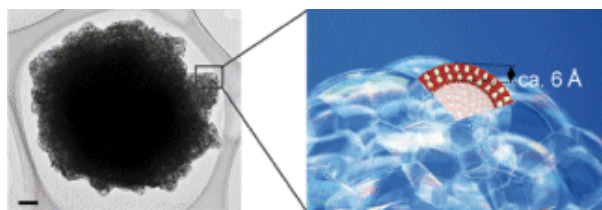
Juan Luis López, Carmen Atienza, Alberto Insuasty, Javier López-Andarias, Carlos Romero-Nieto, Dirk M. Guldi*, Nazario Martín*

Chromophore–peptide systems: A study on a series of pentapeptides covalently connected to planar π systems (**1 a** and **1 b**) or to a curved π system (**1 c**) showed the influence of the concave shape on the efficient chiral transmission at nano- and mesoscales. Control over the hierarchical growth by H bonding, π – π , and solvophobic interactions made possible the efficient generation of electroactive 3D helical fibers (see picture).

Coming soon.

Ceria Foams

Ceria Foam with Atomically Thin Single-Crystal Walls



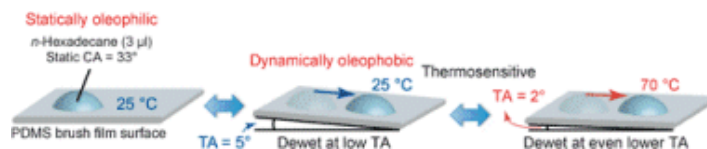
Jun Xing, Hai Feng Wang, Chen Yang, Dong Wang, Hui Jun Zhao, Guan Zhong Lu, P. Hu, Hua Gui Yang*

All in a lather: A three-dimensional CeO_2 foam with long-range ultrathin (4–8 Å) single-crystalline walls was synthesized successfully by thermal decomposing CeGeO_4 crystals under an NH_3 atmosphere. First-principles calculations were also performed to understand the feasibility and reaction pathways of thermal decomposition of CeGeO_4 . Scale bar: 200 nm.

Published online, DOI: [10.1002/anie.201108708](https://doi.org/10.1002/anie.201108708) – Read now (<http://doi.wiley.com/10.1002/anie.201108708>)

Surface Chemistry

A Statically Oleophilic but Dynamically Oleophobic Smooth Nonperfluorinated Surface



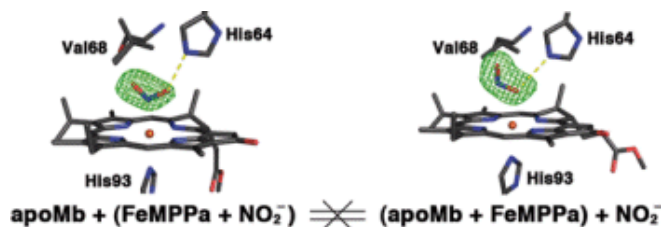
Dalton F. Cheng, Chihiro Urata, Makoto Yagihashi, Atsushi Hozumi*

Nonstick: Dynamically oleophobic surfaces have been produced from low-molecular-weight poly(dimethylsiloxane) (PDMS) brush films. Despite the statically oleophilic nature of these nonroughened, nonperfluorinated surfaces, ultralow tilt angles (TAs) that set drops of various nonpolar liquids in motion were achieved. Heating the surfaces enhances droplet mobility by significantly reducing the TAs (see scheme; CA=contact angle).

Published online, DOI: [10.1002/anie.201108800](http://doi.wiley.com/10.1002/anie.201108800) – Read now (<http://doi.wiley.com/10.1002/anie.201108800>)

Linkage Isomerism

Distal Pocket Control of Nitrite Binding in Myoglobin



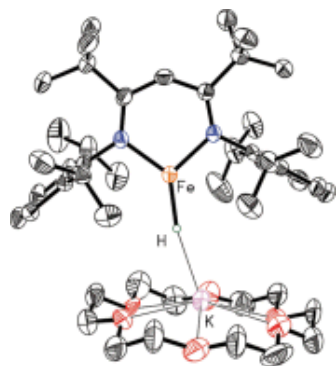
Jun Yi*, Leonard M. Thomas, George B. Richter-Addo*

Who is in charge? Nitrite linkage isomerism in the same heme protein occurs as a function of the compound preparation method. An N-bound nitrite conformation is achieved when a pre-formed iron chlorin nitrite model compound is inserted into apoMb. In contrast, an O-bound nitrite conformation is evident when nitrite is added to the chlorin-substituted Mb. The results suggest that the Mb distal pocket is in charge of directing the ligand binding mode.

Published online, DOI: [10.1002/anie.201200010](http://doi.wiley.com/10.1002/anie.201200010) – Read now (<http://doi.wiley.com/10.1002/anie.201200010>)

Hydrides in Biology

Characterization of the Fe–H Bond in a Three-Coordinate Terminal Hydride Complex of Iron(I)



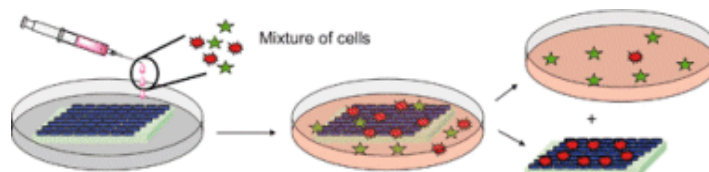
Karen P. Chiang, Christopher C. Scarborough, Masaki Horitani, Nicholas S. Lees, Keying Ding, Thomas R. Dugan, William W. Brennessel, Eckhard Bill*, Brian M. Hoffman*, Patrick L. Holland*

Three's company: Iron(I) hydride complexes are presented (see picture; N blue, O red) that are the first monomeric open-shell hydride complexes to be crystallographically verified as being three-coordinate at the metal. Backbonding into diketiminate π^* orbitals stabilizes the low oxidation state. The Fe–H bonding has been analyzed using electron-nuclear double resonance (ENDOR).

Published online, DOI: [10.1002/anie.201109204](https://doi.org/10.1002/anie.201109204) –
Read now (<http://doi.wiley.com/10.1002/anie.201109204>)

Selective Cell Adhesion

Cell Adhesion Behavior on Enantiomerically Functionalized Zeolite L Monolayers



Jehad El-Gindi, Kathrin Benson, Luisa De Cola, Hans-Joachim Galla, Nermin Seda Kehr*

Zeolite L nanocrystals can be enantioselectively functionalized and their enantiomorphous SAMs prepared. Adhesion behavior of different cells with these new biomaterials was studied according to the respective surface chirality. This concept was demonstrated for cell separation of primary cells and cell lines (see picture).

Published online, DOI: [10.1002/anie.201109144](https://doi.org/10.1002/anie.201109144) – Read now (<http://doi.wiley.com/10.1002/anie.201109144>)

Photocatalytic CO₂ Conversion

Hybrid CuO-TiO_{2-x}N_x Hollow Nanocubes for Photocatalytic Conversion of CO₂ into