

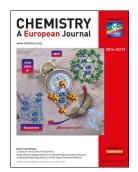






Auf diesen Seiten weisen wir auf wichtige aktuelle Beiträge in unseren Schwesterzeitschriften hin. Wenn Sie die Seiten online lesen, dann können Sie

die Artikel mit einem Klick direkt aufrufen, ansonsten sind sie durch Eingabe der DOIs über Wiley Online Library leicht online zugänglich.

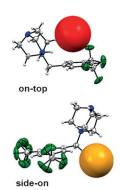


Anion Recognition

M. Albrecht,* H. Yi, O. Köksal, G. Raabe, F. Pan, A. Valkonen, K. Rissanen

CF₃: An Electron-Withdrawing Substituent for Aromatic Anion Acceptors? "Side-On" versus "On-Top" Binding of Halides

The place to be! A subtle interplay of electronic effects at the aromatic system and at aromatic H atoms in connection with the polarizability of the anion controls the position of anions in respect to CF_3 substituted aromatics.



Chem. Eur. J.

DOI: 10.1002/chem.201600249

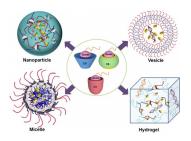


Host-Guest Systems

A. A. Karim, Q. Dou, Z. Li,* X. J. Loh*

Emerging Supramolecular Therapeutic Carriers Based on Host–Guest Interactions

Driven: The bottom-up synthesis of highly complex functional materials from simple modular blocks is an intriguing area of research. Driven by the chemistry of supramolecular assembly, modules which self-assemble into intricate structures are reviewed. The intrinsic properties of the materials can be modified by exploiting dynamic and specific unidirectional interactions, and allows for the building of novel supramolecular structures such as hydrogels, micelles and vesicles with attractive properties.



Chem. Asian J.

DOI: 10.1002/asia.201501434



Protein-Protein Interactions

A. López, F. Herranz-Trillo, M. Kotev, M. Gairí, V. Guallar, P. Bernadó, O. Millet, T. Tarragó, E. Giralt*

Active-Site-Directed Inhibitors of Prolyl Oligopeptidase Abolish Its Conformational Dynamics

A spoke on the wheels: A combined approach based on NMR and SAXS experiments complemented by MD simulations has shown that active-site-directed inhibitors of prolyl oligopeptidase (POP) abolish the open/closed conformational equilibrium. Probably, abolishing conformational dynamics by inhibitors causes significant alterations to molecular recognition events of POP.



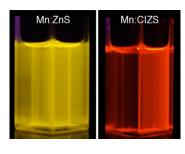
ChemBioChem

DOI: 10.1002/cbic.201600102



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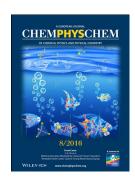
Chem Phys Chem DOI: 10.1002/cphc.201500953

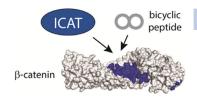
Nanocrystals

N. Pradhan*

Red-Tuned Mn d-d Emission in Doped Semiconductor Nanocrystals

I prefer it in red: Emission tuned from yellow to red can be obtained from Mn²⁺-doped semiconductor nanocrystals. By changing the environment of the Mn dopant in the crystal lattice, the Mn concentration and the surface ligands, the ligand-field splitting, and therefore also the Mn d-d emission, can be tuned. This Minireview describes recent key studies in this area.





Anticancer Agents

D. Bertoldo, M. M. G. Khan, P. Dessen, W. Held, J. Huelsken,

Phage Selection of Peptide Macrocycles against β-Catenin To Interfere with Wnt Signaling

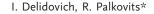
Hit the target within a target: Bicyclic peptides that bind to different surface regions of β-catenin were developed by phage display. Several of the ligands compete with the binding of ICAT and therefore bind to the prime target site on β -catenin for the rapeutic intervention.





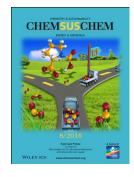
DOI: 10.1002/cmdc.201500557





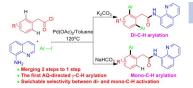
Catalytic Isomerization of Biomass-Derived Aldoses: A Review

Sweet on you: Chemocatalytic isomerization of biobased aldoses gives rise to ketoses and C2 epimeric aldoses. Bases and Lewis acids exhibit high catalytic performance for the isomerization processes. Recently uncovered catalytic systems are reviewed, focusing on structure-performance relations, isomerization mechanisms, and catalyst stability under reaction conditions.



ChemSusChem

DOI: 10.1002/cssc.201501577

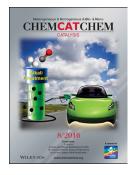


Y. Liu, B. Huang, X. Cao, J.-P. Wan*

Tunable Di- and Mono-γ-C—H Arylation of Phenylacetamides by Palladium-Catalyzed Domino Reactions

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One way or another: The palladium-catalyzed C-H arylation of phenylacetamides in the γ position is realized by means of a domino process consisting of in situ directing group installation and C-H arylation. By modifying the reaction conditions, unprecedented selectivity between di- and monoarylation of the two identical γ -C-H bonds is achieved. AQ = 8-aminoquinolinyl.



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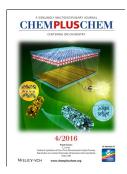
ChemCatChem

DOI: 10.1002/cctc.201600039



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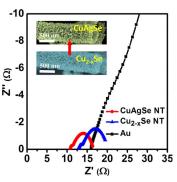


Electrochemistry

X. Q. Chen, Y. Bai, Z. Li,* L. Z. Wang, S. X. Dou

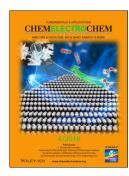
Ambient Synthesis of One-/Two-Dimensional CuAgSe Ternary
Nanotubes as Counter Electrodes of Quantum-Dot-Sensitized Solar
Cells

Metal exchange: One-/two-dimensional CuAgSe nanotubes are prepared from Cu_{2-x} Se nanotubes by a cation-exchange approach and explored as counter electrodes in quantum-dot-sensitized solar cells to achieve high conversion efficiency (see figure).



ChemPlusChem

DOI: 10.1002/cplu.201500466

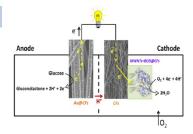


Hybrid Glucose Biofuel Cells

A. Both Engel, M. Bechelany, O. Fontaine, A. Cherifi, D. Cornu, S. Tingry*

One-Pot Route to Gold Nanoparticles Embedded in Electrospun Carbon Fibers as an Efficient Catalyst Material for Hybrid Alkaline Glucose Biofuel Cells

Fueling the future: A new strategy is used to prepare Au metal nanoparticle catalysts incorporated in situ in electrospun carbon nanofibers for the electrooxidation of glucose in hybrid glucose biofuel cells (h-GBFCs). Substantial long-term stability of the h-GBFCs is highlighted (MWNTs=multiwall nanotubes, BOD=bilirubin oxidase, CF=carbon fibers).



ChemElectroChem

DOI: 10.1002/celc.201500537

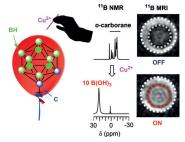


Boron NMR Probes

T. Tanaka, Y. Nishiura, R. Araki, T. Saido, R. Abe, S. Aoki*

¹¹B NMR Probes of Copper(II): Finding and Implications of the Cu²⁺-Promoted Decomposition of *ortho*-Carborane Derivatives

It is found that copper(II) ion promotes full decomposition reactions of o-carborane derivatives in aqueous solution to release 10 equiv. of $B(OH)_3$. The application of this discovery to ^{11}B NMR/MRI detection of Cu^{2+} is also presented.



Eur. J. Inorg. Chem.

DOI: 10.1002/ejic.201600117

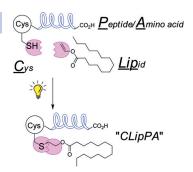


Peptide Lipidation

S.-H. Yang, P. W. R. Harris, G. M. Williams, M. A. Brimble*

Lipidation of Cysteine or Cysteine-Containing Peptides Using the Thiol-Ene Reaction (CLipPA)

The S-selective lipidation of cysteine or cysteine-containing peptides has been optimised to produce an S-palmitoylated building block or an S-palmitoylated peptide directly with high conversions and excellent yields. Key to this process, for which we coin the term "CLipPA", is the use of tBuSH together with triisopropylsilane as radical quenchers to favour the formation of monolipidated products.

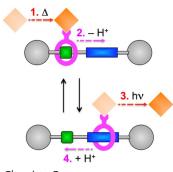


Eur. J. Org. Chem.

DOI: 10.1002/ejoc.201501375

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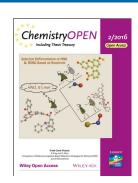


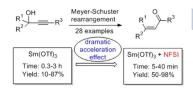
ChemistryOpen DOI: 10.1002/open.201500217

Molecular Machines

C. Schäfer, G. Ragazzon, B. Colasson, M. La Rosa, S. Silvi, A. Credi* An Artificial Molecular Transporter

Nanoscale logistics: We describe a bistable [2]rotaxane shuttle designed to catch, displace, and release molecular cargo in solution under external control. The cargo loading/unloading and ring displacement/return processes are reversible and can be controlled independently with optical and chemical stimuli, respectively. The robust coordination bond ensures that the cargo remains attached to the device during transport.



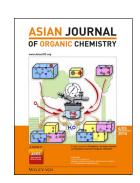


Lewis Acid Catalysis

C. Du, X. Wang, S. Jin, H. Shi, Y. Li, Y. Pang, Y. Liu, M. Cheng, C. Guo,* Y. Liu*

Investigation of Meyer-Schuster Rearrangement Promoted by a Samarium(III) Triflate/N-Fluorobenzenesulfonimide Lewis Acid

The good samarium: The acceleration effect from the addition of Nfluorobenzenesulfonimide to a Sm(OTf)₃-catalyzed (OTf=trifluoromethanesulfonate) Meyer-Schuster rearrangement under microwave irradiation was studied. This new catalytic system has several advantages such as employing mild reaction conditions, short reaction times, and simple experimental procedures.



Asian J. Org. Chem. DOI: 10.1002/ajoc.201600124

Mesoporous Materials

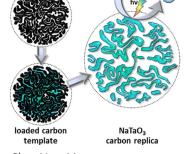
Quiz

T. Grewe, H. Tüysüz*

Activated-Carbon-Templated Crystalline Tantalates for Photocatalytic Water Splitting

Mesoporous Ta₂O₅ and NaTaO₃ were successfully synthesized via hard templating, exhibiting porous networks with high surface areas that consist of sintered crystalline nanoparticles. These material properties contribute strongly to the high photocatalytic activity of the mesoporous tantalates towards water splitting.





ChemNanoMat

carbon template

DOI: 10.1002/cnma.201600033



ChemViews magazine DOI: 10.1002/chemv.201600031

Opening Lines of Famous Papers

The opening lines of many books are famous quotes, but what about scientific articles? This quiz in ChemViews Magazine covers the first sentences of important papers in scientific history.



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