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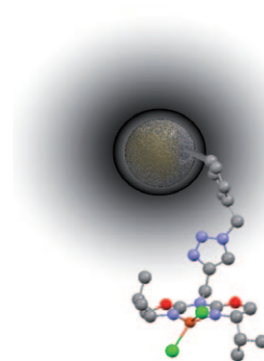


Nanocatalysis

A. Schätz, O. Reiser, W. J. Stark*

Nanoparticles as Semi-Heterogeneous Catalyst Supports

High surface area, excellent accessibility, and the ability to readily disperse in common solvents facilitate the use of nanoparticles as semi-heterogeneous supports. Reversible agglomeration through solvent changes and magnetic separation provide technically attractive alternatives to classical catalyst filtration.



Chem. Eur. J.
DOI: 10.1002/chem.200903462

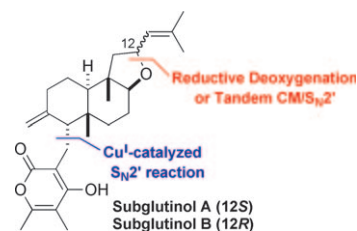


Tandem Reactions

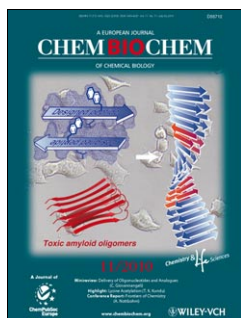
H. Kim, J. B. Baker, Y. Park, H.-B. Park, P. D. DeArmond, S. H. Kim, M. C. Fitzgerald, D.-S. Lee, J. Hong*

Total Synthesis, Assignment of the Absolute Stereochemistry, and Structure-Activity Relationship Studies of Subglutinols A and B

Get selective! A stereoselective synthesis of subglutinols A and B, immunosuppressive natural products, has been accomplished from the (S)-(+)-5-methyl-Wieland-Miescher ketone enlisting reductive deoxygenation, tandem cross-metathesis/intramolecular S_N2' reaction, and a Cu^I -mediated intermolecular S_N2' reaction (see scheme).



Chem. Asian J.
DOI: 10.1002/asia.201000147



Chemical Defense

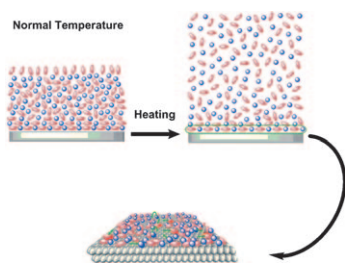
M. Hilker,* C. Häberlein, U. Trauer, M. Bünnige, M.-O. Vicentini, S. Schulz*

How to Spoil the Taste of Insect Prey? A Novel Feeding Deterrent against Ants Released by Larvae of the Alder Leaf Beetle, *Agelastica alni*

Off the menu: We report a new, very strong feeding deterrent against ants released by larvae of the alder leaf beetle *Agelastica alni* when attacked. The major deterrent component proved to be γ -L-glutamyl-L-2-furylalanine, a novel dipeptide containing the unusual amino acid L-2-furylalanine, which, although synthetically well known, has not previously been reported from natural sources.



ChemBioChem
DOI: 10.1002/cbic.201000130



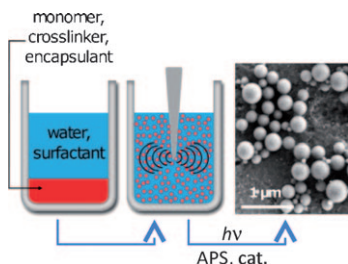
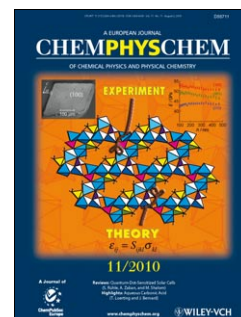
ChemPhysChem
DOI: 10.1002/cphc.201000198

Ionic Liquids

Q. Dou, M. Sha, H. Fu, G. Wu*

Mass Distribution and Diffusion of [1-Butyl-3-methylimidazolium][Y] Ionic Liquids Adsorbed on the Graphite Surface at 300–800 K

Structure and diffusion behavior of three ionic liquids on graphite is investigated over the temperature range of 300–800 K. The bottom layer of the ionic liquids adjacent to graphite is stable over the investigated temperature range (see picture). Diffusion of the ionic liquid in the bottom layer follows an Arrhenius relation, and the activation barrier increases with decreasing the anion size.



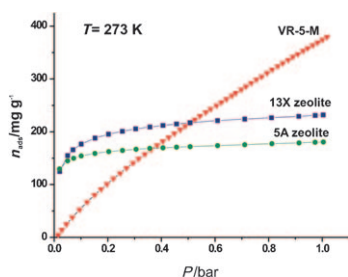
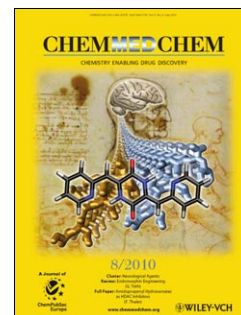
ChemMedChem
DOI: 10.1002/cmdc.201000250

Drug Delivery

K. A. V. Zubris, O. V. Khullar, A. P. Griset, S. Gibbs-Strauss, J. V. Frangioni, Y. L. Colson,* M. W. Grinstaff*

Ease of Synthesis, Controllable Sizes, and In Vivo Large-Animal-Lymph Migration of Polymeric Nanoparticles

Flying south for the winter! Polymeric nanoparticles were synthesized using either a photoinduced or base-catalyzed free-radical polymerization method. The particles ($\varnothing = 50$ nm), loaded with a dye (IR-786), were observed to migrate over 20 cm to the sentinel lymph node after injection in a live pig.



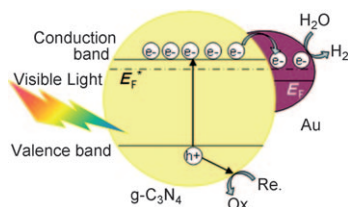
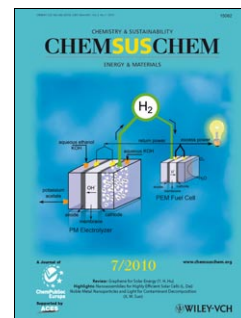
ChemSusChem
DOI: 10.1002/cssc.201000083

Carbon Dioxide Adsorption

A. Wahby, J. M. Ramos-Fernández, M. Martínez-Escandell, A. Sepúlveda-Escribano, J. Silvestre-Albero,* F. Rodríguez-Reinoso

High-Surface-Area Carbon Molecular Sieves for Selective CO₂ Adsorption

A series of carbon molecular sieves is prepared, either in powder or monolith form, from mesophase pitch using potassium hydroxide as activating agent. The molecular sieves exhibit high adsorption capacities for CO₂, together with fast adsorption kinetics. Furthermore, the presence of an optimum porous structures makes these molecular sieves excellent adsorbents for the selective adsorption of CO₂ from nitrogen- and methane-rich streams.



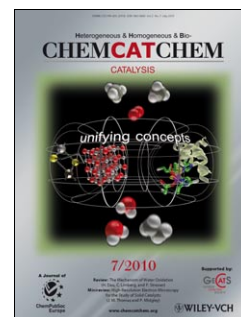
ChemCatChem
DOI: 10.1002/cctc.201000057

Photocatalysis

Y. Di, X. Wang, A. Thomas, M. Antonietti*

Making Metal–Carbon Nitride Heterojunctions for Improved Photocatalytic Hydrogen Evolution with Visible Light

Gold nanoparticles are deposited on the surface of a polymeric carbon nitride known to be active in photochemical water splitting. By diverse deposition methods and surface modification of Au with a secondary metal to generate this heterojunction, the efficiency of hydrogen production can be improved by a factor of ten as compared to the standard systems.



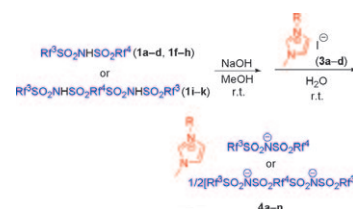


Fluorinated Ionic Liquids

C.-P. Zhang, Z.-L. Wang, Q.-Y. Chen, C.-T. Zhang, Y.-C. Gu, J.-C. Xiao*

Synthesis and Physicochemical Properties of Bis(fluoroalkanesulfon)amide-Based Ionic Liquids

A series of bis(fluoroalkanesulfon)amides were synthesized in good yield from the reaction of fluoroalkanesulfonamides and fluoroalkylsulfonfyl fluorides. Combination of these amide anions with imidazolium cations afforded a variety of novel ionic liquids, which demonstrated high densities and wide liquid range.



Eur. J. Inorg. Chem.

DOI: 10.1002/ejic.201000171

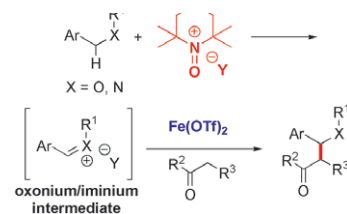


Dehydrogenative Cross-Coupling

H. Richter, O. García Mancheño*

Dehydrogenative Functionalization of C(sp³)–H Bonds Adjacent to a Heteroatom Mediated by Oxoammonium Salts

The dehydrogenative cross-coupling reactions of C(sp³)–H bonds α to a heteroatom with enolizable nucleophiles by using easy-to-handle and nontoxic TEMPO salts is presented. These soft oxidants in combination with a Fe catalyst were efficiently employed to selectively generate the desired C–C coupling products under mild reaction conditions.



Eur. J. Org. Chem.

DOI: 10.1002/ejoc.201000548

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