

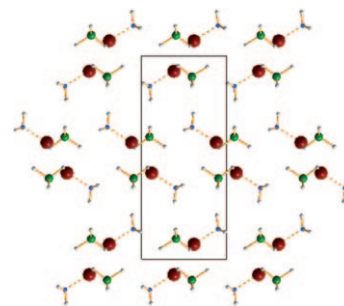


Ammonia Storage

S. R. Johnson, W. I. F. David,* D. M. Royse, M. Sommariva, C. Y. Tang, F. P. A. Fabbiani, M. O. Jones, P. P. Edwards*

The Monoammoniate of Lithium Borohydride, $\text{Li}(\text{NH}_3)\text{BH}_4$: An Effective Ammonia Storage Compound

Store it up: The ammoniate, $\text{Li}(\text{NH}_3)\text{BH}_4$, has been prepared and fully characterized by Raman and NMR spectroscopy and X-ray powder diffraction. The potential for its use as an ammonia store and a comparison to other ammonia storage materials is discussed.



Chem. Asian J.
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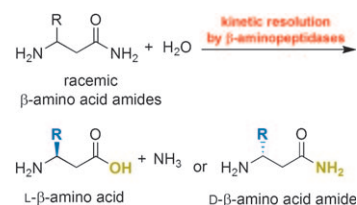


Enzyme Catalysis

T. Heck, D. Seebach, S. Osswald, M. K. J. ter Wiel, H.-P. E. Kohler,* B. Geueke

Kinetic Resolution of Aliphatic β -Amino Acid Amides by β -Aminopeptidases

Access to enantiopure β -amino acids: β -Aminopeptidases are hydrolases that possess the unique ability to cleave N-terminal β -amino acids from peptides and amides. Hydrolysis of racemic β -amino acid amides catalyzed by these enzymes displays enantioselectivity with strong preference for substrates with the L-configuration, and gives access to various aliphatic β -amino acids of high enantiopurity.



ChemBioChem
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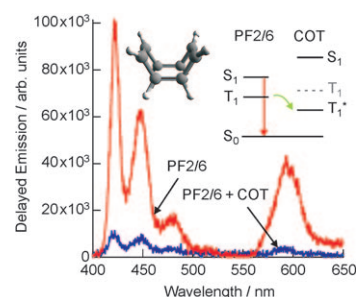


Conjugated Polymers

S. Schols,* A. Kadashchuk, P. Heremans, A. Helfer, U. Scherf

Triplet Excitation Scavenging in Films of Conjugated Polymers

Nonvertical triplet energy transfer in solid conjugated polymer films is demonstrated for the first time using 1,3,5,7-cyclooctatetraene, a compound that can efficiently quench the phosphorescence of polyfluorene without affecting its fluorescence. The results suggest that non-vertical triplet scavengers might be promising candidates for controlling the triplet concentration in fluorescent high-brightness organic devices.



ChemPhysChem
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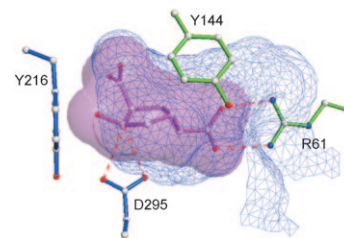


Neurological Agents

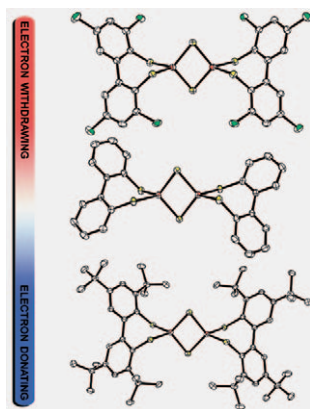
L. Lundström,* B. Kuhn, J. Beck, E. Borroni, J. G. Wettstein, T. J. Woltering, S. Gatti

Mutagenesis and Molecular Modeling of the Orthosteric Binding Site of the mGlu2 Receptor Determining Interactions of the Group II Receptor Antagonist ^3H -HYDIA

Binding of the mGlu2/3 antagonist HYDIA in the closed conformation model of mGlu2 causes repulsive interactions with Y216 in lobe II of the binding pocket, preventing closure of the VFT.



ChemMedChem
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Biomimetic [2Fe-2S] Clusters

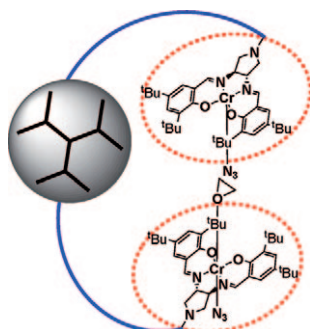
J. Ballmann, S. Dechert, S. Demeshko, F. Meyer*

Tuning Electronic Properties of Biomimetic [2Fe-2S] Clusters by Ligand Variations

Unusually stable biomimetic [2Fe-2S] complexes with 2,2'-dithiobi-phenyl capping ligands have been developed, where variations of backbone substituents (Cl, H, *t*Bu) allow to modulate the electronic situation at the cluster core. This has been probed by a variety of spectroscopic and analytical methods (X-ray diffraction, UV/Vis and Mössbauer spectroscopy, SQUID analysis, cyclic voltammetry).



Eur. J. Inorg. Chem.
DOI: 10.1002/ejic.200900101



Cooperative Bimetallic Catalysis

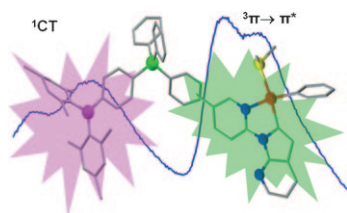
J. Keilitz, R. Haag*

Intramolecular Acceleration of Asymmetric Epoxide Ring-Opening by Dendritic Polyglycerol Salen-Cr^{III} Complexes

To support the cooperative bimetallic mechanism of the ring-opening of *meso*-epoxides with TMSN₃, symmetrical salen-Cr^{III} complexes were immobilized on hyperbranched polyglycerol. Further investigations were performed to understand the influence of the length of the linker between polymer and catalyst. Higher *ee* values were obtained with longer linkers.



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Dual Emission

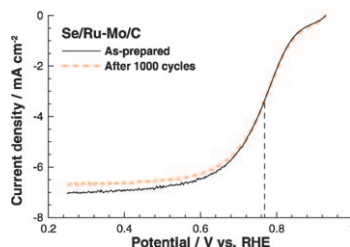
Z. M. Hudson, S.-B. Zhao, R.-Y. Wang, S. Wang*

Switchable Ambient-Temperature Singlet-Triplet Dual Emission in Nonconjugated Donor-Acceptor Triarylboron-Pt^{II} Complexes

Double the fun! Singlet-triplet dual emission at ambient temperature has been achieved in compounds containing a triarylboron acceptor and an *N*-(2'-pyridyl)-7-azaindolyl donor group bridged by a tetrahedral Si linker (see figure). Pt^{II} chelation and chelate-mode switching from *N,N* to *N,C* have been found to greatly enhance phosphorescent emission. Furthermore, both singlet and triplet emission bands are responsive to fluoride ions.



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Oxygen Reduction

M. J.-F. Guinel, A. Bonakdarpour, B. Wang, P. K. Babu, F. Ernst, N. Ramaswamy, S. Mukerjee, A. Wieckowski*

Carbon-Supported, Selenium-Modified Ruthenium-Molybdenum Catalysts for Oxygen Reduction in Acidic Media

The effect of molybdenum on the activity and stability of selenium-modified ruthenium in the oxygen reduction reaction is investigated. The catalyst is dispersed onto an amorphous carbon support and characterized by a range of analytical techniques. The results indicate that the addition of Mo in Ru chalcogenide materials for ORR electrocatalysis is promising.



ChemSusChem
DOI: 10.1002/cssc.200800215