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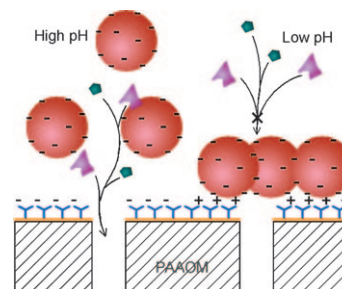


Porous Membranes

X. Zhu, Y. Liu, J. Huang, G. Li*

A pH-Responsive Gate Fabricated with Nanochannels and Nanoparticles

Open for business! A novel pH-responsive gate has been constructed of nanochannels, nanoparticles, and amphoteric compounds to form a complete gate (see figure; PAAOM = porous anodic aluminum oxide membrane). The advantage of this system is that more readily available and tunable compounds than smart polymers have been used.



Chem. Eur. J.
DOI: 10.1002/chem.200902783

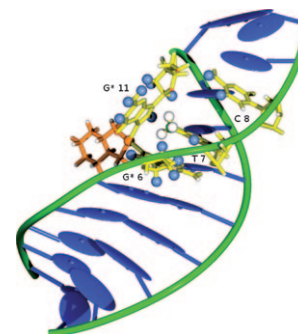


DNA Structures

K. Kubíček, J. Monnet, S. Scintilla, J. Kopečná, F. Arnesano, L. Trantírek, C. Chopard, G. Natile, J. Kozelka*

Unusual Interstrand Pt(S,S-diaminocyclohexane)-GG Crosslink Formed by Rearrangement of a Classical Intrastrand Crosslink Within a DNA Duplex

An unusual G₆G₁₁ interstrand crosslink is formed by spontaneous rearrangement of the canonical G₅G₆ intrastrand crosslink generated from the DNA duplex d(CCTTG₅G₆T₇C₈TC)-d(G₁₁AGACCAAGG) and Pt(S,S-diaminocyclohexane)²⁺ (the enantiomer of the antitumor drug oxaliplatin). The final product provides a rare example of intramolecular self-intercalation of DNA.



Chem. Asian J.
DOI: 10.1002/asia.200900655

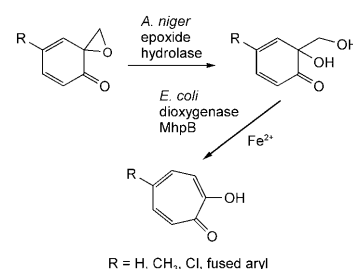


Biosynthesis

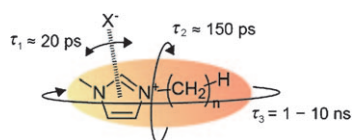
M. Xin, T. D. H. Bugg*

Biomimetic Formation of 2-Tropolones by Dioxygenase-Catalysed Ring Expansion of Substituted 2,4-Cyclohexadienones

At sixes and sevens: We have demonstrated experimentally the proposed ring expansion in the biosynthesis of substituted 2-tropolones. Treatment of four cyclohexa-2,4-dienones with the non-haem iron(II)-dependent extradiol catechol dioxygenase MhpB from *E. coli* resulted in the formation of 2-tropolones through a pinacol-type rearrangement. This ring expansion could also be effected nonenzymatically by treatment with 1,4,7-triazacyclononane and FeCl₂.



ChemBioChem
DOI: 10.1002/cbic.200900631



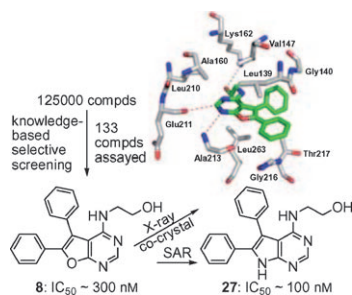
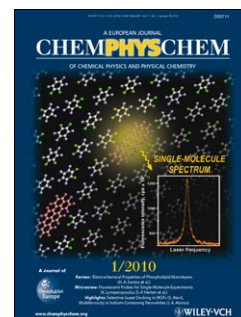
ChemPhysChem
DOI: 10.1002/cphc.200900642

Ionic Liquids

K. Nakamura,* T. Shikata

Systematic Dielectric and NMR Study of the Ionic Liquid 1-Alkyl-3-Methyl Imidazolium

Dynamics of ionic liquids: Broad band dielectric relaxation and NMR studies for a series of 1-alkyl-3-methylimidazolium cations and various counter anionic species provide the dynamical aspects for ionic liquid molecules (see figure).



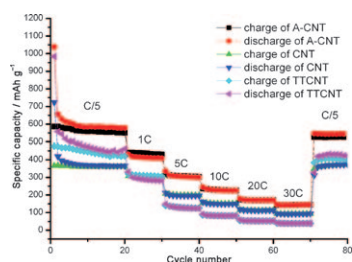
ChemMedChem
DOI: 10.1002/cmdc.200900339

Drug Discovery

M. S. Coumar, M.-T. Tsai, C.-Y. Chu, B.-J. Uang, W.-H. Lin, C.-Y. Chang, T.-Y. Chang, J.-S. Leou, C.-H. Teng, J.-S. Wu, M.-Y. Fang, C.-H. Chen, J. T.-A. Hsu, S.-Y. Wu, Y.-S. Chao, H.-P. Hsieh*

Identification, SAR Studies, and X-ray Co-crystallographic Analysis of a Novel Furanopyrimidine Aurora Kinase A Inhibitor

Aurora blocked: Herein we disclose a combination of knowledge-, chemistry-, and structure-based strategies for the identification and development of hits as Aurora kinase A inhibitors. The compounds identified in this study could be used as starting points for the development of future novel Aurora kinase inhibitors as anticancer agents.



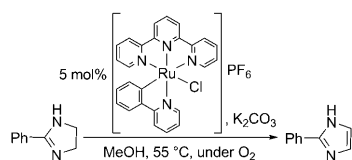
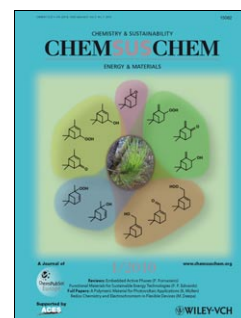
ChemSusChem
DOI: 10.1002/cssc.200900131

Carbon Nanotubes

Y.-J. Xu, X. Liu, G. Cui,* B. Zhu, G. Weinberg, R. Schlögl, J. Maier, D. S. Su*

A Comparative Study on the Lithium-Ion Storage Performances of Carbon Nanotubes and Tube-in-Tube Carbon Nanotubes

Tube or not tube? A comparative study of the electrochemical performance of carbon nanotubes and tube-in-tube carbon nanotubes demonstrates a dependence effect of lithium-ion storage behavior on the detailed nanostructure of carbon nanotubes.



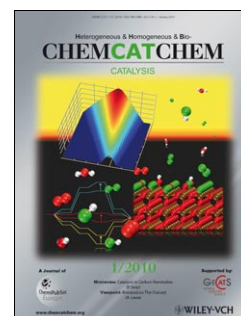
ChemCatChem
DOI: 10.1002/cctc.200900251

Homogeneous Catalysis

A. Taketoshi, A. Tsujimoto, S. Maeda, T. Koizumi, T. Kanbara*

Aerobic Oxidative Dehydrogenation of 2-Substituted Imidazolines Promoted by a Cyclometalated Ruthenium Catalyst

Complex answer to a simple question: The aerobic oxidative dehydrogenation of 2-substituted imidazolines to their corresponding imidazoles has been achieved. A cyclometalated homogeneous Ru^{III} complex, [RuCl(ppy)(tpy)][PF₆] (see scheme), worked as a catalyst under mild conditions without the need for a co-oxidant.



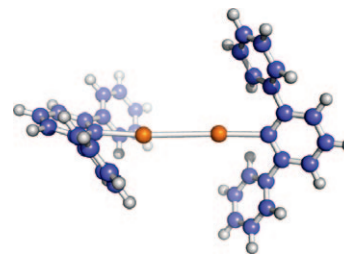


Subvalent Alkaline Earth Compounds

S. Kriek, L. Yu, M. Reiher, M. Westerhausen*

Subvalent Organometallic Compounds of the Alkaline Earth Metals in Low Oxidation States

Alkaline earth metals are regarded as redox-inert; only the oxidation state +2 seems to have significance. In the last few years, sophisticated procedures led to the isolation of compounds with low-valent alkaline earth metals, and several concepts of their stabilization are discussed. Metal–metal bond formation (blue: C, grey: H, orange: Ca) is one possibility to obtain subvalent compounds.



Eur. J. Inorg. Chem.
DOI: 10.1002/ejic.200900966

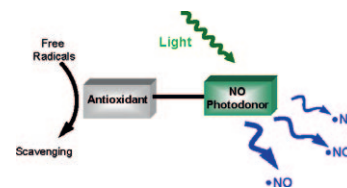


Bifunctional Antioxidants

E. Vittorino, S. Sortino*

A Phenolic Antioxidant Releasing Nitric Oxide on Demand

We have designed and synthesized, by a very simple procedure, a water-soluble molecular conjugate that combines radical scavenging properties to the delivery of nitric oxide in a way exclusively controlled by visible light external stimuli.



Eur. J. Org. Chem.
DOI: 10.1002/ejoc.200901207

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Heterogeneous, Homogeneous and BioCatalysis

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