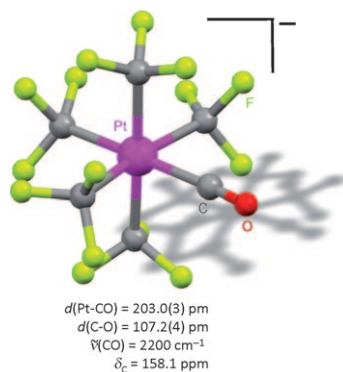




Auf diesen drei Seiten weisen wir auf wichtige aktuelle Beiträge in unseren Schwesterzeitschriften hin. Wenn Sie die Seiten online lesen, dann können Sie

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



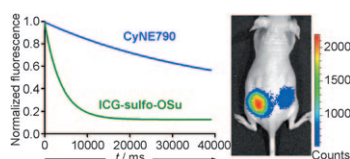
Chem. Eur. J.
 DOI: 10.1002/chem.201100626

Organoplatinum(IV) Compounds

S. Martínez-Salvador, J. Forniés,* A. Martín, B. Menjón

Highly Trifluoromethylated Platinum Compounds

Rarest of the rare: A rare Pt^{IV} carbonyl derivative with unexpected thermal stability has been prepared and structurally characterized (see picture). Structural and spectroscopic properties point to the CO molecule acting as a mainly σ -donor ligand. Various other organoplatinum(IV) compounds that contain the " $\text{Pt}(\text{CF}_3)_5$ " unit are also reported.



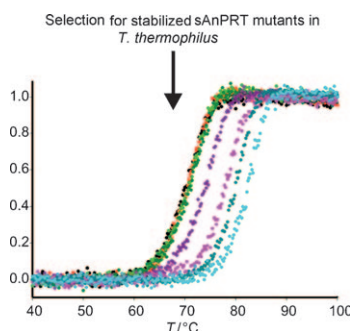
Chem. Asian J.
 DOI: 10.1002/asia.201100041

Imaging Agents

A. Samanta, M. Vendrell, S.-W. Yun, Z. Guan, Q.-H. Xu, Y.-T. Chang*

A Photostable Near-Infrared Protein Labeling Dye for In Vivo Imaging

A NIR death experience: A highly photostable NIR protein-labeling dye (CyNE790) that maintained excellent fluorescent properties after protein conjugation has been synthesized. Furthermore, the adequacy of the dye for NIR imaging was confirmed by showing that the recognition properties of a labeled anti-EGFR antibody remained unaffected.



ChemBioChem
 DOI: 10.1002/cbic.201000770

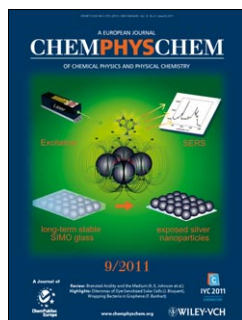
Enzymes

T. Schwab, R. Sterner*

Stabilization of a Metabolic Enzyme by Library Selection in *Thermus thermophilus*

If you can stand the heat: A metabolic enzyme was stabilized by random mutagenesis and in vivo selection performed at around 80 °C by using an extremely thermophilic host bacterium that has a natural competence for DNA uptake. The beneficial mutations identified by this approach led to an increase in the thermal stability of the purified protein of 13 °C.



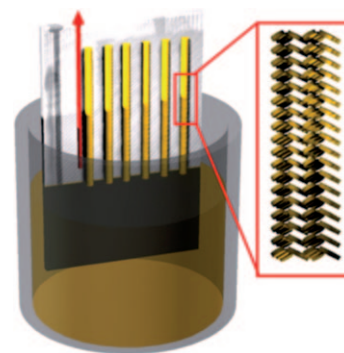


Self-Assembled Fibers

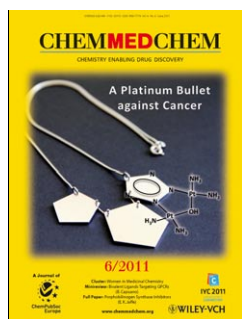
S. Wang, M. Kivala, I. Lieberwirth, K. Kirchhoff, X. Feng, W. Pisula,* K. Müllen*

Dip-Coating-Induced Fiber Growth of a Soluble Heterotriangulene

Long-range well-aligned fibers are fabricated from a soluble heterotriangulene derivative via simple dip coating by controlling the concentration of the compound. This procedure is an alternative route for the generation of unique microstructures of organic semiconductors—both for both fundamental studies and for practical device applications.



ChemPhysChem
DOI: 10.1002/cphc.201100199

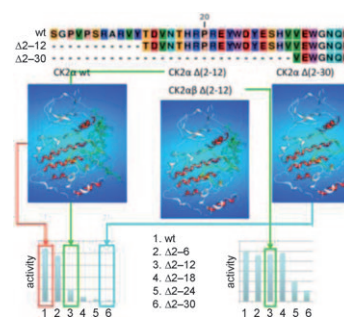


Computational Medicinal Chemistry

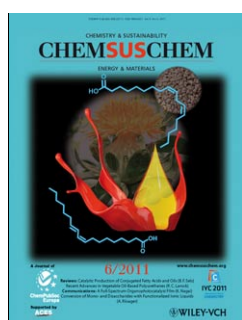
A. Cristiani,* G. Costa, G. Cozza, F. Meggio, L. Scapozza, S. Moro

The Role of the N-Terminal Domain in the Regulation of the “Constitutively Active” Conformation of Protein Kinase CK2 α : Insight from a Molecular Dynamics Investigation

Always on: Protein kinase CK2 is a constitutively active enzyme. Mutation studies show that CK2 activity is regulated by the interaction between the N-terminal region and the kinase domain; progressive deletions of the N-terminal tail elicit decreased kinase activity. MD simulations were carried out on wild-type, $\Delta 2-12$, and $\Delta 2-30$ deletion mutants of CK2 α to explore how the N-terminal tail affects CK2 conformational behavior.



ChemMedChem
DOI: 10.1002/cmdc.201100046

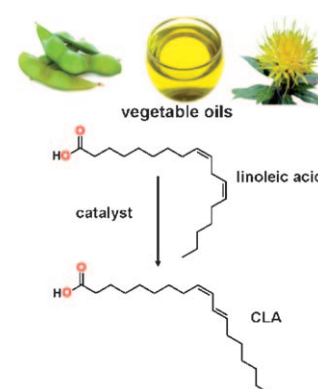


Renewable Resources

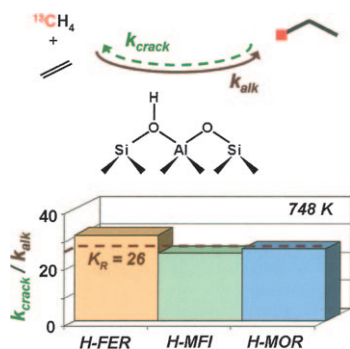
A. Philippaerts, S. Goossens, P. A. Jacobs, B. F. Sels*

Catalytic Production of Conjugated Fatty Acids and Oils

Conjugated vegetable oils are attractive bioresources for use in paints, inks, coatings, and plastics as well as ingredients for functional foods. Technologies for the conjugation of linoleic acid and vegetable oils using (bio)catalysts (enzymes, homogeneous, and heterogeneous catalysts) are discussed in this Review. Special attention is given to the conjugated linoleic acids productivity and their isomer distribution.



ChemSusChem
DOI: 10.1002/cssc.201100086



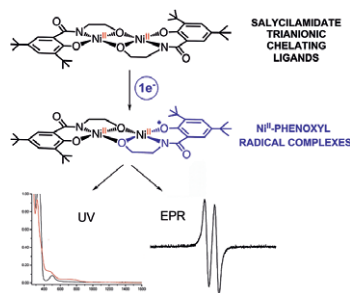
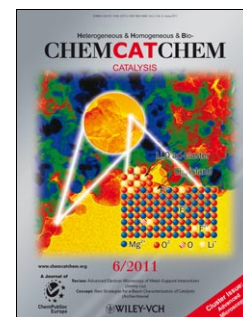
ChemCatChem
DOI: 10.1002/cctc.201100051

R. Gounder, E. Iglesia*

Catalytic Alkylation Routes via Carbonium-Ion-Like Transition States on Acidic Zeolites

Zeolites going crackers: Brønsted acid sites in zeolites (H-FER, H-MFI, H-MOR) catalyze CH₄-alkene reactions at high temperatures (> 700 K) via carbonium-ion-like transition states. The ratio of rate constants for forward and reverse reactions (alkane alkylation-cracking, alkene dimerization-cracking) equal their respective equilibrium constants (K_R). In contrast, relative rates of CH₄ and alkene reactions with a given alkoxide are influenced by the local environment around acid sites.

Zeolites



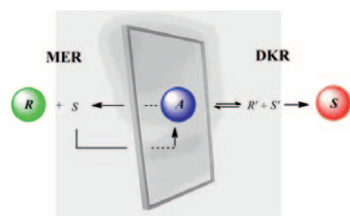
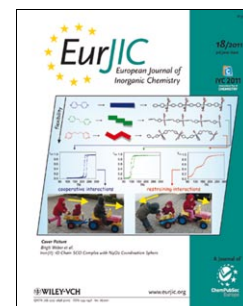
Eur. J. Inorg. Chem.
DOI: 10.1002/ejic.201100232

Radical Complexes

L. Benisvy*, R. Wanke, M. F. C. Guedes da Silva, A. J. L. Pombeiro*

A Dianionic Dinickel(II) Complex and Its Oxidised Phenoxyl Radical States

A dianionic dinickel(II) complex bearing new trianionic NO₂ ligands is reported. It displays two one-electron oxidations resulting in mono- and diphenoxyl radical complexes, as indicated by UV/Vis/NIR and EPR spectroscopic data of the electrochemically oxidised species.



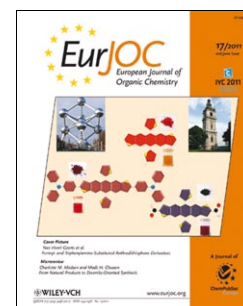
Eur. J. Org. Chem.
DOI: 10.1002/ejoc.201100467

Asymmetric Catalysis

A. Laurell, C. Moberg*

Opposite Enantiomers from Minor Enantiomer Recycling and Dynamic Kinetic Resolution Using a Single Biocatalyst

The (*R*) enantiomer of the *O*-acetylated cyanohydrin from (*E*)-2-butenal was obtained by minor enantiomer recycling, whereas the (*S*) enantiomer of the same product was obtained by dynamic kinetic resolution with the use of the same catalyst.



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- bis ca. 345 bar und 500°C
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