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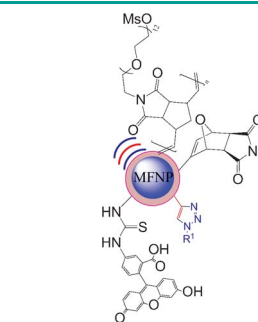


### Metathesis

T. Perrier,\* P. Saulnier, J.-P. Benoit

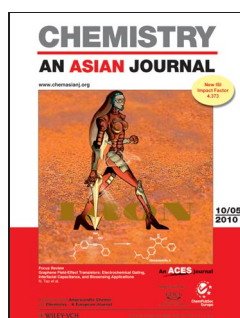
#### Methods for the Functionalisation of Nanoparticles: New Insights and Perspectives

**All in one:** Nanoparticles are involved in many fields of research and many realisations and expectations rely on them. Indeed, nanoparticles can be used as supports regardless of the application. Thus, methods have to be set up to fulfil the goal of multifunctionality. The developments in the field of multi-functional nanoparticles (MFNPs) are presented and discussed.



*Chem. Eur. J.*

DOI: 10.1002/chem.201000808

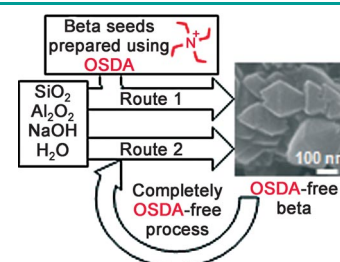


### Zeolites

Y. Kamimura, W. Chaikittisilp, K. Itabashi, A. Shimojima, T. Okubo\*

#### Critical Factors in the Seed-Assisted Synthesis of Zeolite Beta and “Green Beta” from OSDA-Free Na<sup>+</sup>-Aluminosilicate Gels

**Green zeolites:** Zeolite beta has been synthesized by seed-assisted crystallization in a Na<sup>+</sup>-aluminosilicate gel in the absence of an organic structure-directing agent (OSDA). The use of OSDA-free beta as seeds enables the crystallization of high quality “green beta” in an environmentally friendly process.



*Chem. Asian J.*

DOI: 10.1002/asia.201000234

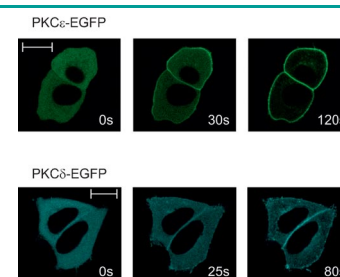


### Protein Kinases

O. Raifman, S. Kolusheva, S. El Kazzouli, D. M. Sigano, N. Kedei, N. E. Lewin, R. Lopez-Nicolas, A. Ortiz-Espin, J. C. Gomez-Fernandez, P. M. Blumberg, V. E. Marquez,\* S. Corbalan-Garcia,\* R. Jelinek\*

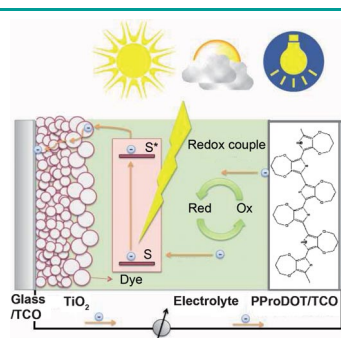
#### Membrane-Surface Anchoring of Charged Diacylglycerol-Lactones Correlates with Biological Activities

**At anchor:** The biological activities of charged diacylglycerol (DAG)-lactones exhibiting different alkyl groups attached to the heterocyclic nitrogen of an  $\alpha$ -pyridylalkylidene chain appear highly correlated to their interactions with the cell membrane (see figure). The results highlight the fundamental role of membrane anchoring in determining the biological profiles of synthetic DAG-lactone ligands.



*ChemBioChem*

DOI: 10.1002/cbic.201000343



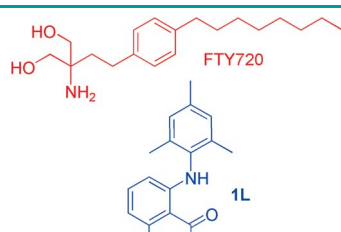
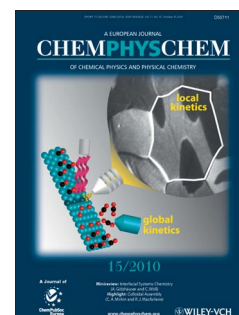
*ChemPhysChem*  
DOI: 10.1002/cphc.201000612

## Solar Cells

S. Ahmad,\* J.-H. Yum, H.-J. Butt, M. K. Nazeeruddin, M. Grätzel\*

### Efficient Platinum-Free Counter Electrodes for Dye-Sensitized Solar Cell Applications

**Reducing the costs:** Highly efficient platinum-free dye-sensitized solar cells are fabricated using poly(3,4-propylenedioxythiophene) as the counter electrode (see picture). These cells work effectively, also under diffuse-light conditions.



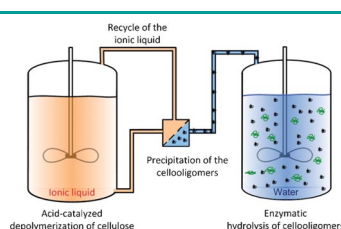
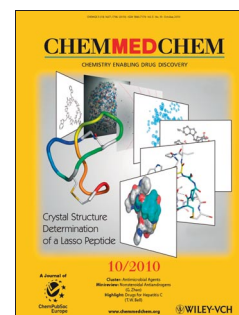
*ChemMedChem*  
DOI: 10.1002/cmdc.201000253

## Drug Design

H. Mattes,\* K. K. Dev, R. Bouhelal, C. Barske, F. Gasparini, D. Guerini, A. K. Mir, D. Orain, M. Osinde, A. Picard, C. Dubois, E. Tasdelen, S. Haessig

### Design and Synthesis of Selective and Potent Orally Active S1P5 Agonists

**Putting the brakes on demyelination:** Fingolimod (FTY720) was recently shown to significantly decrease relapse rates in patients with multiple sclerosis. This drug attenuates the trafficking of harmful T-cells entering the brain by regulating sphingosine-1-phosphate (S1P) receptors. We designed, synthesized, evaluated 2H-phthalazin-1-one derivatives (e.g., **1L**) as selective S1P5 receptor agonists; these compounds are highly potent and selective, with good PK properties, and significant activity in oligodendrocytes.



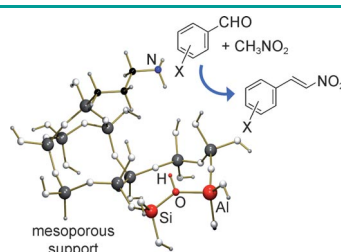
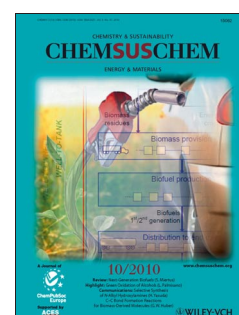
*ChemSusChem*  
DOI: 10.1002/cssc.201000153

## Biorenewables

R. Rinaldi,\* P. Engel, J. Büchs, A. C. Spiess,\* F. Schüth\*

### An Integrated Catalytic Approach to Fermentable Sugars from Cellulose

**The production of fermentable sugars** from cellulose in almost quantitative yield is accelerated. Starting from cello-oligomers obtained by acid hydrolysis of cellulose in an ionic liquid, the catalytic approach described herein, integrating acid and enzymatic catalysis, quantitatively converts cellulose to fermentable sugars (glucose and cellobiose) within only a few hours.



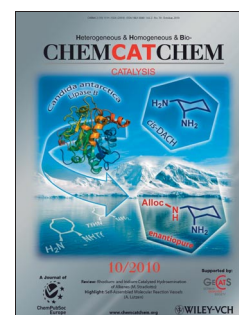
*ChemCatChem*  
DOI: 10.1002/cctc.201000086

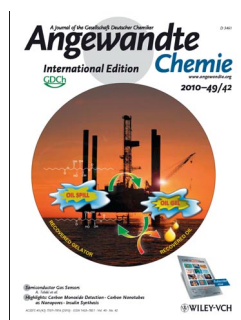
## Heterogeneous Catalysis

S. Shylesh, A. Wagener, A. Seifert, S. Ernst, W. R. Thiel\*

### Bifunctional Mesoporous Materials with Coexisting Acidic and Basic Sites for C–C Bond Formation in Co-operative Catalytic Reactions

**Graftwerk:** Primary amines grafted onto mesoporous aluminosilicas act as efficient, recyclable bifunctional catalysts for the one-step co-operative catalytic Henry reaction of substituted benzaldehydes and nitromethane, irrespective of the nature of solvents used for the grafting process.



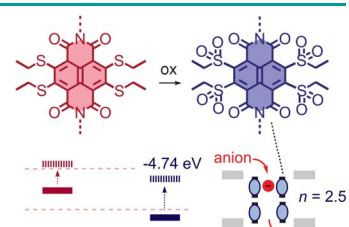


### Functional Supramolecular Systems

J. Mišek, A. Vargas Jentzsch, S. Sakurai, D. Emery, J. Mareda, S. Matile\*

#### A Chiral and Colorful Redox Switch: Enhanced $\pi$ Acidity in Action

**Deep blue diving:**  $\pi$  Acidities up to a new record of  $-4.74$  eV are made possible with simple sulfur redox chemistry (see scheme). This attractive method is able to generate exceptional electron affinities and anion transport efficiencies for applications in optoelectronic devices, medicinal chemistry, and anion- $\pi$  catalysis.



Angew. Chem. Int. Ed.  
DOI: 10.1002/anie.201003722

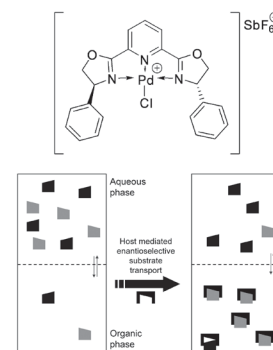


### Enantioselective Extraction

B. J. V. Verkuijl, A. K. Schoonen, A. J. Minnaard,\*  
J. G. de Vries,\* B. L. Feringa\*

#### The Use of *N*-Type Ligands in the Enantioselective Liquid-Liquid Extraction of Underivatized Amino Acids

The first use of chiral bis(oxazoline)palladium in the enantioselective extraction of amino acids shows the highest thusfar reported selectivity in the extraction of methionine using metal complexes. Furthermore, the association of the complexes with tryptophan enantiomers were determined.



Eur. J. Org. Chem.  
DOI: 10.1002/ejoc.201000790

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