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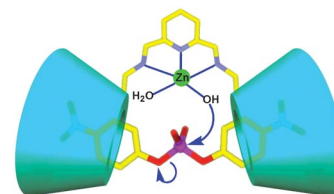


### Glucoside

S.-P. Tang, Y.-H. Zhou, H.-Y. Chen, C.-Y. Zhao, Z.-W. Mao,\*  
L.-N. Ji

#### Ester Hydrolysis by a Cyclodextrin Dimer Catalyst with a Tridentate N,N',N''-Zinc Linking Group

**The zinc complex** of a novel 2,6-bis(aminomethyl)pyridine-linked  $\beta$ -cyclodextrin dimer was synthesized, characterized, and demonstrated as a potent catalyst for diester hydrolysis. The zinc complex is shown to exhibit a good catalytic ability for bis(4-nitrophenyl) substrates in the hydrolysis of carboxylic acid ester and phosphate esters. The hydrophobic interaction between catalyst and substrate is observed to play an important role.



*Chem. Asian J.*  
DOI: 10.1002/asia.200900108



### Glucoside Transport

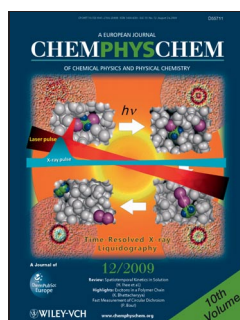
S. Discher, A. Burse, K. Tolzin-Banasch, S. H. Heinemann,  
J. M. Pasteels, W. Boland\*

#### A Versatile Transport Network for Sequestering and Excreting Plant Glycosides in Leaf Beetles Provides an Evolutionary Flexible Defense Strategy

**Beetlejuice:** Leaf beetle larvae possess a functional network of transport systems for the import and export of plant-derived glucosides. With thioglucosides as stable glycomimics their passage from the gut to the defensive system could be monitored. Their import from the gut and their export through the Malpighian tubules to the frass is nonselective. Only the transfer from the hemolymph into the defensive glands is specific.



*ChemBioChem*  
DOI: 10.1002/cbic.200900226

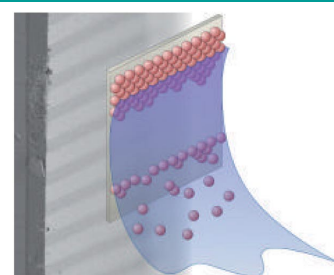


### Dilute Suspensions

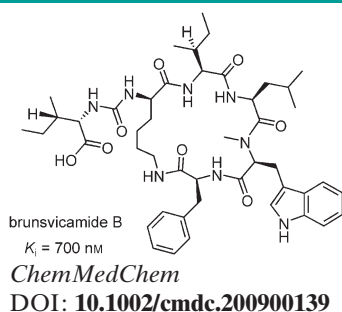
J. A. Lee, K. Reibel, M. A. Snyder, L. E. Scriven, M. Tsapatsis\*

#### Geometric Model Describing the Banded Morphology of Particle Films Formed by Convective Assembly

**Banded particle films:** Convective assembly of particles from dilute suspensions can produce discrete film morphologies in the form of bands. The spacing between such bands, when they are in a monolayer, is a strong function of the particle size. A geometric model considering the intersection of the particles with a stretched liquid meniscus can quantitatively predict these spacings with varying particle diameter (see picture).



*ChemPhysChem*  
DOI: 10.1002/cphc.200900127

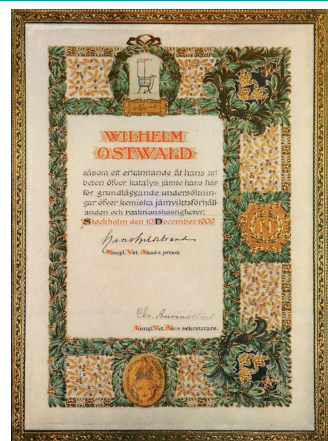
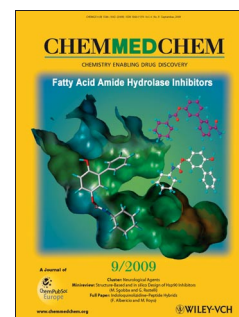


### Molecular Modeling

M. T. Sisay, S. Hautmann, C. Mehner, G. M. König, J. Bajorath,\* M. Gütschow\*

#### Inhibition of Human Leukocyte Elastase by Brunsvicamides A–C: Cyanobacterial Cyclic Peptides

**Cyanobacterial cyclic peptides**, brunsvicamides A–C, were evaluated as inhibitors of human leukocyte elastase (HLE), and subsequently tested against a panel of proteases and two serine esterases. Brunsvicamides A–C were found to be highly selective for HLE.



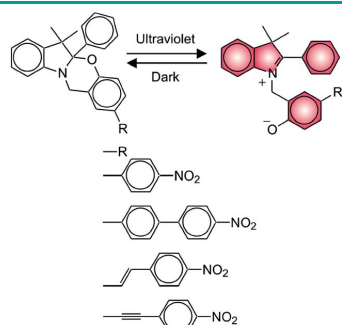
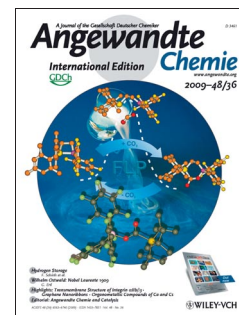
*Angew. Chem. Int. Ed.*  
DOI: 10.1002/anie.200901193

### Wilhelm Ostwald

G. Ertl\*

#### Wilhelm Ostwald: Founder of Physical Chemistry and Nobel Laureate 1909

**A great researcher**, Wilhelm Ostwald, is honored here on the occasion of the hundredth anniversary of his receiving the Nobel Prize. At the time of the award in December 1909 he said that he was surprised that this highest scientific distinction was awarded for his work on catalysis; he expected that such recognition would come much later.



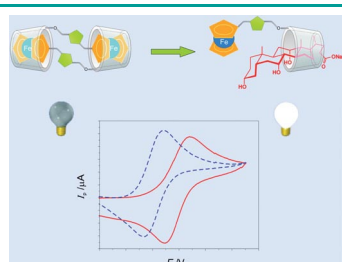
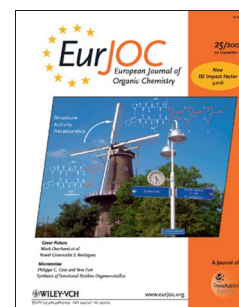
*Eur. J. Org. Chem.*  
DOI: 10.1002/ejoc.200900604

### Fast Photochromic Switches

M. Å. Petersen, E. Deniz, M. B. Nielsen,\* S. Sortino,\* F. M. Raymo\*

#### Photochromic Oxazines with Extended Conjugation

The ultraviolet irradiation of photochromic 1,3-oxazines results in the formation of zwitterionic isomers after the cleavage of a C–O bond. The photogenerated species incorporate a phenolate chromophore able to absorb in the visible region of the electromagnetic spectrum and revert spontaneously to the original species on a nanosecond timescale.



*Chem. Eur. J.*  
DOI: 10.1002/chem.200900593

### Molecular Sensors

J. M. Casas-Solvas, E. Ortiz-Salmerón, I. Fernández, L. García-Fuentes, F. Santoyo-González, A. Vargas-Berenguel\*

#### Ferrocene-β-Cyclodextrin Conjugates: Synthesis, Supramolecular Behavior, and Use as Electrochemical Sensors

**Guest room?** Two ferrocene-β-cyclodextrin conjugates were conveniently synthesized by click chemistry. The supramolecular behavior of both conjugates was studied in both the absence and presence of three bile salts, and their redox-sensing abilities towards the bile salts were evaluated based on observed guest-induced changes in the half-wave potential and the current peak intensity (see figure).



