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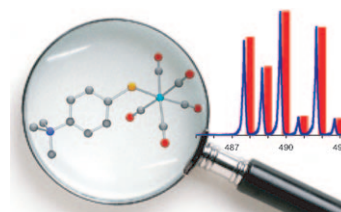


## Phosphenidene Complexes

H. Jansen, M. C. Samuels, E. P. A. Couzijn, J. C. Slootweg, A. W. Ehlers, P. Chen,\* K. Lammertsma\*

Reactive Intermediates: A Transient Electrophilic Phosphenidene Caught in the Act

**Trapped!** The transient electrophilic phosphenidenes  $[R-P=W(CO)_3]$  have emerged as versatile intermediates that are highly valuable in the synthesis of a plethora of organophosphorus compounds, nevertheless their existence has never been unequivocally established. By employing electrospray ionisation tandem mass spectrometry (ESI-MS/MS), this low-valent species has now been detected and its gas-phase reactivity perfectly matches the well-established solution-phase data.



*Chem. Eur. J.*  
DOI: [10.1002/chem.200902715](https://doi.org/10.1002/chem.200902715)

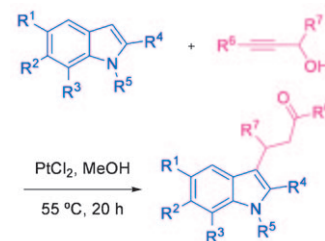


## One-Pot Synthesis

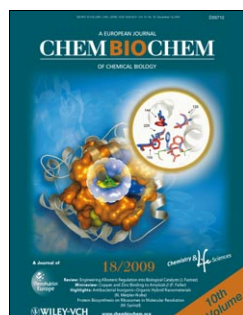
S. Bhuvaneswari, M. Jeganmohan, C.-H. Cheng\*

Platinum-Catalyzed Multi-Step Reaction of Propargyl Alcohols with N-Heteroaromatics

**Cooking in only one pot:** N-Heteroaromatics including indoles and pyrroles efficiently react with propargyl alcohols in the presence of  $PtCl_2$  leading to carbon-3 alkylation of indoles and carbon-2 alkylation of pyrrole.



*Chem. Asian J.*  
DOI: [10.1002/asia.200900318](https://doi.org/10.1002/asia.200900318)



## Single-Molecule Studies

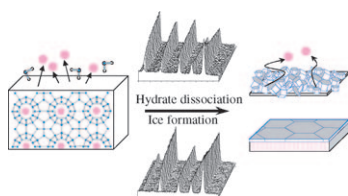
L. Ma, S. L. Cockcroft\*

Biological Nanopores for Single-Molecule Biophysics

**Biology viewed through the eye of a pore:** Single-molecule methods have revolutionised the way that biological questions are tackled. Contributions to the field of biophysics from biological nanopore-based methods are reviewed.



*ChemBioChem*  
DOI: [10.1002/cbic.200900526](https://doi.org/10.1002/cbic.200900526)



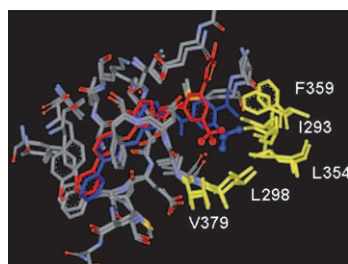
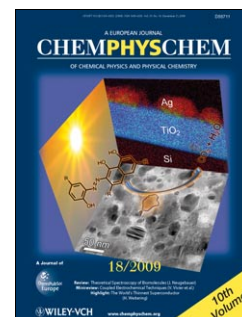
ChemPhysChem  
DOI: 10.1002/cphc.200900731

## Gas Hydrates

S. Takeya, J. A. Ripmeester\*

Anomalous Preservation of CH<sub>4</sub> Hydrate and its Dependence on the Morphology of Hexagonal Ice

**Trapped:** Anomalous preservation, the existence of gas hydrates far outside their stability zone below the melting point of ice, is shown to depend on the type of guest molecule, the morphology of hexagonal ice that grows during hydrate dissociation and the mode of decomposition (see graphic).



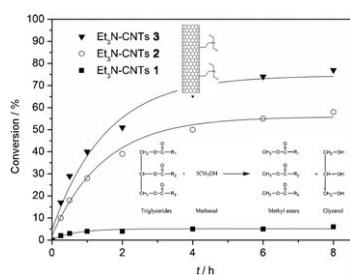
ChemMedChem  
DOI: 10.1002/cmdc.200900394

## Drug Design

K. Skobridis,\* M. Kinigopoulou, V. Theodorou, E. Giannousi, A. Russell, R. Chauhan, R. Sala, N. Brownlow, S. Kiriakidis, J. Domin, A. G. Tzakos, N. J. Dibb

Novel Imatinib Derivatives with Altered Specificity between Bcr-Abl and FMS, KIT, and PDGF Receptors

**Tuning selectivity:** Herein we report the design, synthesis, and biological evaluation of a new series of phenylaminopyrimidines, structurally related to imatinib, which generally have greater activity against the PDGFR family and poorer activity against Abl as the result of alterations of the phenyl and *N*-methylpiperazine rings.



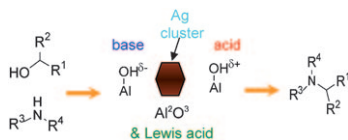
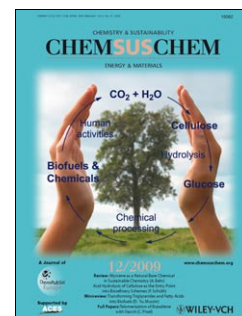
ChemSusChem  
DOI: 10.1002/cssc.200900181

## Functional Nanotubes

A. Villa, J.-P. Tessonnier, O. Majoulet, D. S. Su,\* R. Schlögl

Transesterification of Triglycerides Using Nitrogen-Functionalized Carbon Nanotubes

**Nitrogen-functionalized carbon nanotubes** are synthesized by grafting amino groups onto the surface of the nanotubes. We demonstrate that the concentration of the active sites and the reaction parameters have strong effects on the activity of the catalysts in the transesterification of glyceryl tributyrate to methyl butanoate.



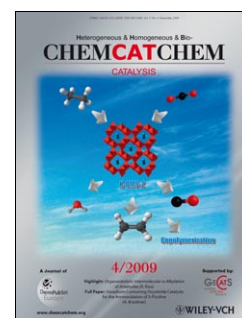
ChemCatChem  
DOI: 10.1002/cctc.200900209

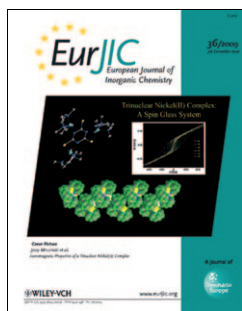
## Supported Catalysts

K. Shimizu,\* M. Nishimura, A. Satsuma

$\gamma$ -Alumina-Supported Silver Cluster for *N*-Benzylation of Anilines with Alcohols

**A silver lining in every catalyst:** Silver clusters on  $\gamma$ -Al<sub>2</sub>O<sub>3</sub> catalyze the *N*-alkylation of anilines with alcohols in the presence of a catalytic amount of Lewis acid. The reaction proceeds by cooperation of coordinatively unsaturated silver, acid, and base sites of the oxide support.



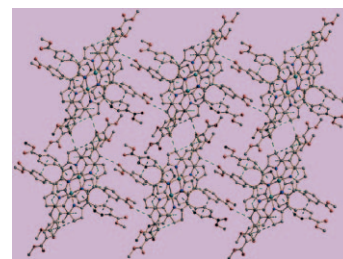


### Tuning Supramolecular Networks

W. Chen, S. Fukuzumi\*

Change in Supramolecular Networks through In Situ Esterification of Porphyrins

Eight esterified TCPP compounds were successfully synthesized by solvothermal reactions and characterized. The reaction mechanism was investigated. Esterification plays a vital role in the properties, structural motifs and supramolecular networks.



*Eur. J. Inorg. Chem.*

DOI: 10.1002/ejic.200900801

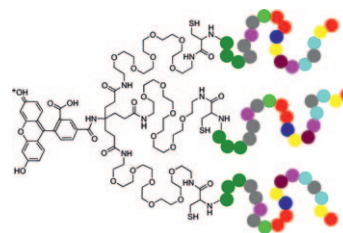


### Multifunctional Peptide Dendrimers

E. H. M. Lempens, B. A. Helms, A. R. Bayles, M. Merckx, E. W. Meijer\*

A Versatile, Modular Platform for Multivalent Peptide Ligands Based on a Dendritic Wedge

An efficient, modular and broadly applicable strategy is presented for the synthesis of multivalent and multifunctional peptide dendrimers. The scope of the method is demonstrated by introduction of a variety of popular targeting peptides at the periphery and other biologically relevant groups at the focal point of AB<sub>n</sub>-type ( $n = 2-5$ ) dendrons.



*Eur. J. Org. Chem.*

DOI: 10.1002/ejoc.200901045

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