



On these pages, we feature a selection of the excellent work that has recently been published in our sister journals. If you are reading these pages on a

computer, click on any of the items to read the full article. Otherwise please see the DOIs for easy online access through Wiley Online Library.

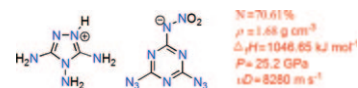


Explosives

Y. Huang,* Y. Zhang, J. M. Shreeve*

Nitrogen-Rich Salts Based on Energetic Nitroaminodiazido[1,3,5]triazine and Guanazine

Bang boom bang: Nitrogen-rich salts based on nitroamino-diazido-s-triazine and guanazine exhibit high density, good thermal stabilities, and positive calculated heats of formation (see scheme). Predicted detonation pressures (21.0–30.3 GPa) and detonation velocities (7675–9048 m s⁻¹) suggest that these salts have potential as insensitive energetic materials.



Chem. Eur. J.
DOI: [10.1002/chem.201002363](https://doi.org/10.1002/chem.201002363)

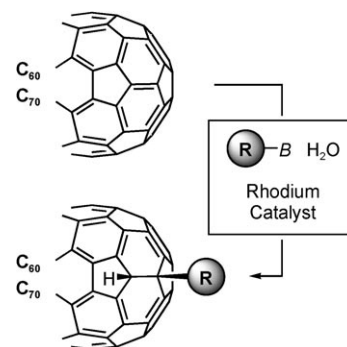


Fullerenes

M. Nambo, Y. Segawa, A. Wakamiya, K. Itami*

Selective Introduction of Organic Groups to C₆₀ and C₇₀ Using Organoboron Compounds and Rhodium Catalyst: A New Synthetic Approach to Organo(hydro)fullerenes

A new rhodium-catalyzed reaction of fullerenes with organoboron compounds is described. This method enables introduction of various organic groups onto C₆₀ and C₇₀. The reaction generally proceeds with a high regioselectivity and in a mono-addition manner. Various functional fullerenes, such as fullerene-tagged amino acids and fullerene-capped π systems, can be synthesized.



Chem. Asian J.
DOI: [10.1002/asia.201000583](https://doi.org/10.1002/asia.201000583)

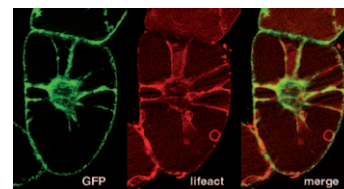


Peptides

K. Eggenberger,* C. Mink, P. Wadhwani, A. S. Ulrich, P. Nick

Using the Peptide Bp100 as a Cell-Penetrating Tool for the Chemical Engineering of Actin Filaments within Living Plant Cells

Planted in plants: The cell-penetrating peptide BP100 has successfully been employed as a carrier for external delivery of the Lifeact peptide. Once inside the cell the Rhodamine B–Lifeact–BP100 construct labels transvacuolar actin cables that tether the nucleus in the cell center.



ChemBioChem
DOI: [10.1002/cbic.201000402](https://doi.org/10.1002/cbic.201000402)

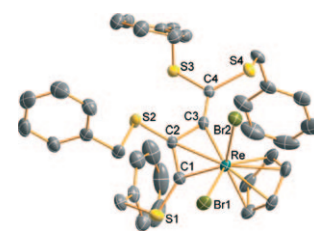


Rhenium Dithioalkyne Cyclization

W. W. Seidel,* M. J. Meel, D. Schallenberg, T. Pape, A. Villinger, D. Michalik

Facile Formation of a Rhenium Allenylcarbene Complex with an Internal Dithioalkyne

Allenylcarbene complexes are potential alkyne oligomerization intermediates. A surprisingly facile synthesis of this complex type with an internal dithioalkyne and the plain $[(C_5H_5)ReBr_2]$ fragment by a concerted rearrangement cycloaddition reaction is reported.



Eur. J. Inorg. Chem.
DOI: 10.1002/ejic.201000370



Self-Assembling Dyes

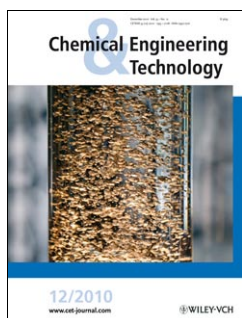
J. Kelber, H. Bock,* O. Thiebaut, E. Grelet, H. Langhals

Room-Temperature Columnar Liquid-Crystalline Perylene Imido-Diesters by a Homogeneous One-Pot Imidification–Esterification of Perylene-3,4,9,10-tetracarboxylic Dianhydride

Perylenetetracarboxylic monoimide-diesters were synthesized by an amine-efficient, one-pot procedure. Alkyl group exchange of the ester moieties leads, through the use of the monoimido-monoanhydride, to room-temperature hexagonal columnar liquid crystals with potential as self-assembling electron acceptors for organic electronics.



Eur. J. Org. Chem.
DOI: 10.1002/ejoc.201001346

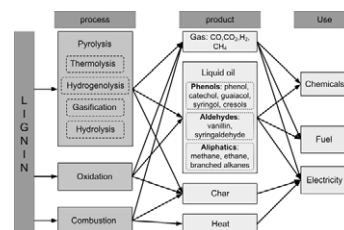


Lignin Depolymerization

M. P. Pandey, C. S. Kim*

Lignin Depolymerization and Conversion: A Review of Thermochemical Methods

An efficient and commercially competitive lignocellulosic biorefinery requires optimum utilization of all biomass components. Till date, lignin is the most underutilized component of a lignocellulosic biomass. However, lignin depolymerization with selective bond cleavage can convert it into various value-added chemicals including monomeric phenols and phenolic aldehydes.



Chem. Eng. Tech.
DOI: 10.1002/ceat.201000270