

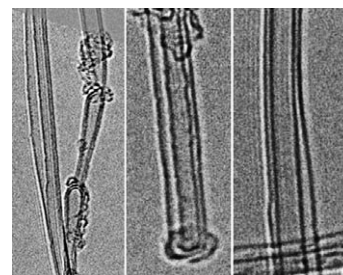


Carbon Nanotubes

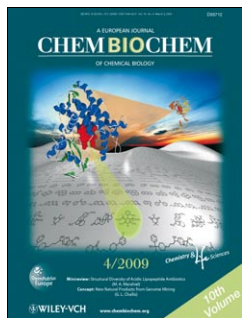
G. Q. Ning, H. Shinohara*

Unsynchronized Diameter Changes of Double-Wall Carbon Nanotubes during Chemical Vapour Deposition Growth

Unsynchronized growing! Unsynchronized diameter changes of the inner and the outer tubes are observed in the double-wall carbon nanotubes (DWNTs) prepared by CoMo/MgO catalysts. The difference of the growth surroundings for the inner and outer tubes of DWNTs can consistently explain the observed unsynchronized diameter changes.



Chem. Asian J.
DOI: 10.1002/asia.200800347

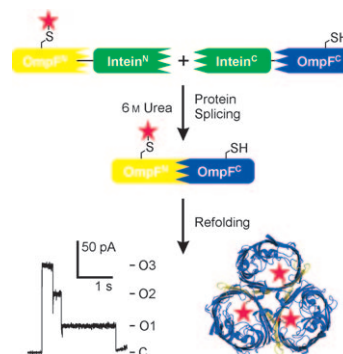


Protein Splicing

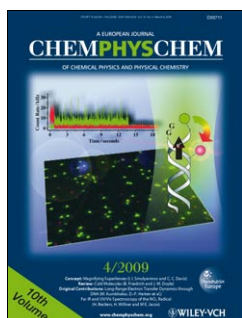
S. Brenzel, M. Cebi, P. Reiß, U. Koert,* H. D. Mootz*

Expanding the Scope of Protein *Trans*-Splicing to Fragment Ligation of an Integral Membrane Protein: Towards Modulation of Porin-Based Ion Channels by Chemical Modification

It's raining, it's porin: Fragment ligation of OmpF ion channels was achieved by using the split *Psp*-GBD Pol intein; this allowed reconstitution of active trimeric porin. In combination with cysteine modification at an internal position, the porin's conductance properties were altered.



ChemBioChem
DOI: 10.1002/cbic.200900039

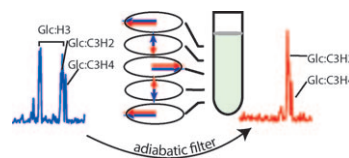


NMR

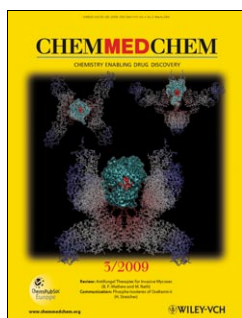
S. Meier, A. J. Benie, J. Ø. Duus, O. W. Sørensen*

Adiabatic Low-Pass J Filters for Artifact Suppression in Heteronuclear NMR

NMR artifact purging: Modern NMR experiments depend on efficient coherence transfer pathways for their sensitivity and on suppression of undesired pathways leading to artifacts for their spectral clarity. A novel robust adiabatic element suppresses hard-to-get-at artifacts (see picture).



ChemPhysChem
DOI: 10.1002/cphc.200900072

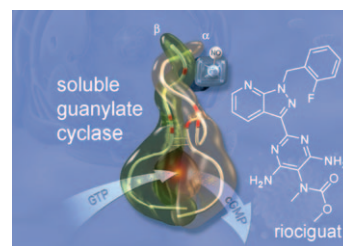


Treating Hypertension

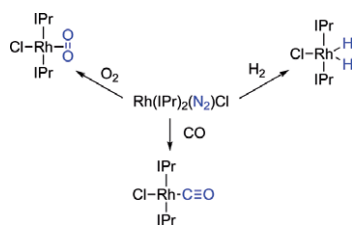
J. Mittendorf,* S. Weigand, C. Alonso-Alija, E. Bischoff, A. Feurer, M. Gerisch, A. Kern, A. Knorr, D. Lang, K. Muentner, M. Radtke, H. Schirok, K.-H. Schlemmer, E. Stahl, A. Straub, F. Wunder, J.-P. Stasch

Discovery of Riociguat (BAY 63-2521): A Potent, Oral Stimulator of Soluble Guanylate Cyclase for the Treatment of Pulmonary Hypertension

Direct stimulation of soluble guanylate cyclase (sGC) represents a promising therapeutic strategy for the treatment of a range of diseases, including the severely disabling pulmonary hypertension (PH). Optimization of the unfavorable DMPK profile of previous sGC stimulators provided riociguat, which is currently being investigated in phase III clinical trials for the oral treatment of PH.



ChemMedChem
DOI: 10.1002/cmdc.200900014



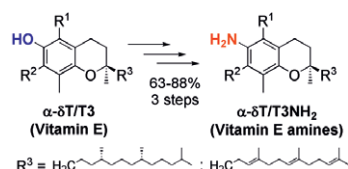
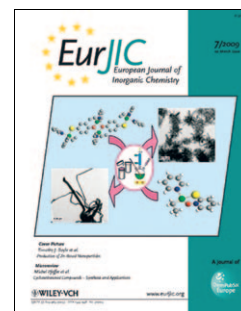
Eur. J. Inorg. Chem.
DOI: 10.1002/ejic.200801191

Dinitrogen Complexes

J. M. Praetorius, R. Wang, C. M. Crudden*

Structure and Reactivity of Dinitrogen Rhodium Complexes Containing N-Heterocyclic Carbene Ligands

A rhodium N-heterocyclic carbene complex featuring coordination of molecular nitrogen has been synthesized and characterized. The lability of the nitrogen ligand in solution has been exploited to afford various complexes of the formula $[\text{Rh}(\text{IPr})_2(\text{XY})\text{Cl}]$.



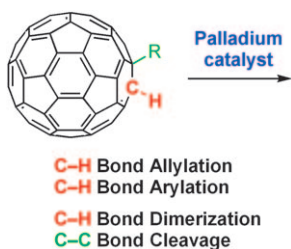
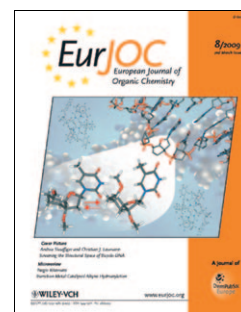
Eur. J. Org. Chem.
DOI: 10.1002/ejoc.200900088

Vitamin E Amines

F. Mazzini,* T. Netscher, P. Salvadori*

Efficient Synthesis of Vitamin E Amines

Tocopheryl amide derivatives (VE amides) show very interesting and promising proapoptotic activity against various tumor cell lines. Key precursors of VE amides are the corresponding tocopheryl- and tocotrienylamines. An efficient and easy synthesis of enantiopure VE amines by palladium-catalyzed N-arylation is reported.



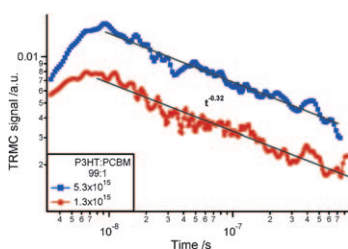
Chem. Eur. J.
DOI: 10.1002/chem.200900022

Fullerene Functionalization

M. Nambo, K. Itami*

Palladium-Catalyzed Carbon–Carbon Bond Formation and Cleavage of Organo(hydro)fullerenes

Palladium can tailor fullerenes: Palladium catalysts enable a number of C–H bond transformations of organo(hydro)fullerene. In addition to anticipated coupling reactions (C–H bond allylation and arylation), unexpected new C–H bond dimerization reaction and C–C bond-cleavage reaction were also uncovered.



ChemSusChem
DOI: 10.1002/cssc.200900002

Solar Cells

T. Moehl, V. G. Kytin,* J. Bisquert,* M. Kunst, H. J. Bolink, G. Garcia-Belmonte

Relaxation of Photogenerated Carriers in P3HT:PCBM Organic Blends

Relaxing in the sunlight. Long time-transient decays of photogenerated carriers in P3HT:PCBM blends for organic solar cells are interpreted in terms of the relaxation of hole carriers in a broad density of states.



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