

Top Publicaties:

1. Dzik, W. I.; Xu, X.; Zhang, X. P.; Reek, J. N. H.; de Bruin, B.; 'Carbene Radicals' in Co^{II}(por)-Catalyzed Olefin Cyclopropanation, *J. Am. Chem. Soc.*, **2010**, *132* (31), 10891–10902
2. Jellema, E.; Jongerius, A.L.; Reek, J.N.H.; de Bruin, B.; C1 polymerisation and related C-C bond forming 'carbene insertion' reactions, *Chem. Soc. Rev.*, **2010**, *39*(5), 1706-1723.
3. Puschmann, F.F.; Harmer, J.; Stein, D.; Ruegger, H.; de Bruin, B.; Grützmacher, H.; Electromeric Rhodium Radical Complexes, *Angew. Chem. Int. Ed.*, **2010**, *49*(2), 385-389.
4. Puschmann, F.F.; Grutzmacher, H; de Bruin, B., Rhodium(0) Metalloradicals in Binuclear C-H Activation, *J. Am. Chem. Soc.*, **2010**, *132*(1), 73-75.
5. Marras, F.; Kluwer, A.M.; Siekierzycka, J.R.; Voza, A.; Brouwer, A.M.; Reek, J.N.H. Phosphorus Ligand Imaging with Two-Photon Fluorescence Spectroscopy: Towards Rational Catalyst Immobilization. *Angew. Chem. Int. Ed.*, **2010**, *49*, 5480-5484.
6. Marras, F.; Wang, J.; Coppens, M.O.; Reek, J.N.H. Ordered mesoporous materials as solid supports for rhodium-diphosphine catalysts with remarkable hydroformylation activity. *Chem. Comm.*, **2010**, *46*, 6587-6589.
7. Wassenaar, J.; Kuil, M.; Lutz, M.; Spek, A.L.; Reek, J.N.H. Asymmetric Hydrogenation with Highly Active IndolPhos-Rh Catalysts: Kinetics and Reaction Mechanism. *Chem. Eur. J.*, **2010**, *16*, 6509-6517.
8. Wassenaar, J.; Jansen, E.; van Zeist, W.J; Bickelhaupt, F.M.; Siegler, M.A.; Spek, A.L.; Reek, J.N.H. Catalyst selection based on intermediate stability measured by mass spectrometry. *Nature Chemistry*, **2010**, *2*, 417-421.
9. Wassenaar, J.; de Bruin, B.; Siegler, M.A.; Spek, A.L.; Reek, J.N.H.; van der Vlugt, J.I., Activation of H₂ by a highly distorted Rh^{II} complex with a new C₃-symmetric tripodal tetraphosphine ligand, *Chem. Comm.*, **2010**, *46*(8), 1232-1234.
10. Chikkali, S.H.; Bellini, R.; Berthon-Gelloz, G.; van der Vlugt, J.I.; de Bruin, B.; Reek, J.N.H.; Highly enantioselective hydroformylation of dihydrofurans catalyzed by hybrid phosphine-phosphonite rhodium complexes, *Chem. Comm.*, **2010**, *46*(8), 1244-1246.
11. Meeuwissen, J.; Reek, J.N.H. Supramolecular catalysis beyond enzyme mimics. *Nature Chemistry*, **2010**, *2*, 615-621.
12. J.I. van der Vlugt, Boryl-Based Pincer Systems: New Avenues in Boron Chemistry, *Angew. Chem. Int. Ed.* **2010**, *49*, 252. Highlight
13. J.I. van der Vlugt, Advances in selective activation and application of ammonia in homogeneous catalysis, *Chem. Soc. Rev.* **2010**, *39*, 2302