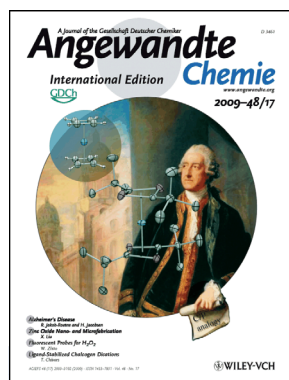




B. de Bruin

The author presented on this page has recently published his **10th article** since 2000 in *Angewandte Chemie*: “Developing Synthetic Approaches with Non-Innocent Metallocenes: Easy Access to Ir^I/Pd⁰ and Ir^I/Pd⁰/Ir^I Cores”: C. Tejeda, L. Asensio, M. Pilar del Río, B. de Bruin, J. A. López, M. A. Ciriano, *Angew. Chem.* **2011**, 123, 9001–9005; *Angew. Chem. Int. Ed.* **2011**, 50, 8839–8843.



The work of B. de Bruin has been featured on the cover of *Angewandte Chemie*: “A Phosphorus Analogue of Bis(η⁴-cyclobutadiene)-iron(0)”: R. Wolf, J. C. Slootweg, A. W. Ehlers, F. Hartl, B. de Bruin, M. Lutz, A. L. Spek, K. Lammertsma, *Angew. Chem.* **2009**, 121, 3150–3153; *Angew. Chem. Int. Ed.* **2009**, 48, 3104–3107.

Bas de Bruin

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Education:	1994 Undergraduate degree in chemistry at the University of Nijmegen (The Netherlands) 1999 PhD with Prof. A. Gal, University of Nijmegen 1999–2000 Postdoctoral position with Prof. K. Wieghardt, Max Planck Institute for Bioinorganic Chemistry, Mülheim an der Ruhr (Germany)
Awards:	1999 Alexander von Humboldt Fellowship; 2001 NWO–CW Jonge Chemici grant; 2005 NWO–CW Vernieuwingsimpuls VIDI grant; 2008 ERC starting grant; 2012 NWO–CW Vernieuwingsimpuls VICI grant
Current research interests:	Coordination chemistry, organometallic chemistry, and catalysis, in particular understanding the reactivity of transition-metal-based systems. Current research activities focus on oxidation chemistry, reactivity of open-shell compounds (metalloradical and ligand radical), (synthetic and DFT) modeling of catalysis, polymer synthesis, and development of catalysts with transition metals in unconventional oxidation states and with unconventional (cooperative and redox non-innocent) ligands. The goal of these activities is to realize atom and energy-efficient transformations.
Hobbies:	Martial arts, hiking, pets and horses, movies

The most significant scientific advance of the last 100 years has been ... quantum mechanics.

The greatest scientific advance in the next decade will be ... the discovery of a wireless interface between our brains and the internet.

The most important thing I learned from my parents is ... hard work pays off (eventually), but don't forget to live your life.

In my opinion, the word “scientists” means ... curiosity- (so not money-) driven, creative people who simply must know the answers to important fundamental scientific questions.

If I could have dinner with three famous scientists from history, they would be ... Werner Heisenberg, Jacobus van't Hoff, and Fritz Haber.

And I would ask them ... Did you realize how you would influence the future of the world, and how were you influenced by that?

The best motto I have ever heard is ... “Man muss nur wollen und daran glauben, dann wird es gelingen” (You only have to really want and believe in something to succeed; Ferdinand Graf von Zeppelin).

My favorite song is ... Shine on You Crazy Diamond (Pink Floyd).

My 5 top papers:

1. “Carbene Radicals in Co^{II}(por)-Catalyzed Olefin Cyclopropanation”: W. I. Dzik, X. Xu, X. P. Zhang, J. N. H. Reek, B. de Bruin, *J. Am. Chem. Soc.* **2010**, 132, 10891–10902. (First example of redox non-innocent behavior of reactive carbenes in catalysis.)
2. “Electromeric Rhodium Radical Complexes”: F. F. Puschmann, J. Harmer, D. Stein, H. Ruegger, B. de Bruin, H. Grützmacher, *Angew. Chem.* **2010**, 122, 395–399; *Angew. Chem. Int. Ed.* **2010**, 49, 385–389. (First example of electromerism in open-shell organometallic compounds.)
3. “Rhodium-Mediated Stereoselective Polymerization of Carbenes”: D. G. H. Hetterscheid, C. Hendriksen, W. I. Dzik, J. M. M. Smits, E. R. H. van Eck, A. E. Rowan, V. Busico, M. Vacatello, V. Van Axel Castelli, A. Segre, E. Jellema, T. G. Bloemberg, B. de Bruin, *J. Am. Chem. Soc.* **2006**, 128, 9746–9752. (First example of stereospecific carbene polymerization.)
4. “Ir^{II}(ethene); Metal or Carbon Radical?”: D. G. H. Hetterscheid, J. Kaiser, E. Reijerse, T. P. J. Peters, S. Thewissen, A. N. J. Blok, J. M. M. Smits, R. de Gelder, B. de Bruin, *J. Am. Chem. Soc.* **2005**, 127, 1895–1905. (Intriguing reactivity of open-shell Ir^{II}(ethene) species.)
5. “Functional Models for Rhodium-Mediated Olefin Oxygenation”: B. de Bruin, P. H. M. Budzelaar, A. W. Gal, *Angew. Chem.* **2004**, 116, 4236–4251; *Angew. Chem. Int. Ed.* **2004**, 43, 4142–4157. (Shows an overview of our work on olefin oxidation chemistry.)

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