



B. Plietker

Bernd Plietker

Date of birth:	January 22, 1971
Position:	Professor, University of Stuttgart
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Education:	1995 Undergraduate degree, University of Münster 1999 PhD supervised by Prof. Dr. Peter Metz, Technische Universität Dresden 1999–2000 Postdoctoral work with Prof. Dr. Jan-Erling Bäckvall, Stockholm University 2000–2001 Postdoctoral work with Prof. Dr. Barry M. Trost, Stanford University 2001–2005 Habilitation, University of Dortmund (mentor: Prof. Dr. Norbert Krause)
Awards:	2001 Liebig Fellowship; 2004 Emmy Noether Fellowship
Research:	Sustainable chemistry, organometallic chemistry, organometallic catalysis, total synthesis
Hobbies:	Swimming, hiking, photography

The author presented on this page has recently published his **10th article** in *Angewandte Chemie* in the last 10 years:

“Iron-Catalyzed Intramolecular C(sp²)–H Amination”: I. T. Alt, B. Plietker, *Angew. Chem. Int. Ed.* **2016**, 55, 1519; *Angew. Chem.* **2016**, 128, 1542.

When I was eighteen I wanted to be an architect.

Chemistry is fun because it is absolutely unpredictable.

Young people should study chemistry because it is absolutely unpredictable!

The most important thing I learned from my students is never take an explanation for granted, be critical about everything.

My favorite book is *Fermat's Last Theorem* by Simon Singh.

My favorite author (science) is Simon Singh. He was able to explain a very complex mathematical problem in a fascinating way by putting it into the historical context and telling the exciting story of the evolution of a mathematical proof of a long-standing theorem.

What I appreciate most about my friends is their patience.

Looking back over my career, I am grateful.

If I could be any age I would be 45.

My biggest inspiration is nature.

My favorite time of day is the very early morning.

The secret of being a successful scientist is to be open-minded, (self)critical, and curious.

My science “heroes” are Walter Reppe, Walter Hieber, and Jean-Louis Roustau, visionary chemists working in the field of metal carbonyl chemistry.

My 5 top papers:

1. “A Highly Regioselective Salt-Free Iron-Catalyzed Allylic Alkylation”: B. Plietker, *Angew. Chem. Int. Ed.* **2006**, 45, 1469; *Angew. Chem.* **2006**, 118, 1497. (My first paper in *Angewandte Chemie*, and will always be one of my most important.)
2. “The Electronic Ground State of [Fe(CO)₃(NO)][−]: A Spectroscopic and Theoretical Study”: J. E. M. N. Klein, B. Miehlich, M. S. Holzwarth, M. Bauer, M. Milek, M. M. Khusniyarov, G. Knizia, H.-J. Werner, B. Plietker, *Angew. Chem. Int. Ed.* **2014**, 53, 1790; *Angew. Chem.* **2014**, 126, 1820. (A new way of thinking about the mode of action in this particular field of Fe catalysis.)
3. “Fe-Catalyzed Allylic C–C-Bond Activation: Vinylcyclopropanes As Versatile a1,a3,d5-Synthons in Traceless Allylic Substitutions and [3+2]-Cycloadditions”: A. P. Dieskau, M. S. Holzwarth, B. Plietker, *J. Am. Chem. Soc.* **2012**, 134, 5048. (This reaction is currently under investigation for the cleavage of larger rings.)
4. “The total synthesis of hyperpappanone, hyperibone L, epi-clusianone and oblongifolin A”: N. Biber, K. Möws, B. Plietker, *Nat. Chem.* **2011**, 3, 938. (The development of this synthesis took us about eight years and represents a breakthrough in the field of PPAP synthesis.)
5. “A Rechargeable Hydrogen Battery Based on Ru Catalysis”: S.-F. Hsu, S. Rommel, P. Eversfield, K. Müller, E. Klemm, W. R. Thiel, B. Plietker, *Angew. Chem. Int. Ed.* **2014**, 53, 7074; *Angew. Chem.* **2014**, 126, 7194. (The Ru catalyst that Shi-Fan Hsu developed allowed both the CO₂ reduction and the HCOOH decomposition without changing reactor/reaction medium.)

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