



L. J. Goossen

The author presented on this page has recently published his **10th article** since 2000 in *Angewandte Chemie*:

“C(aryl)–O Activation of Aryl Carboxylates in Nickel-Catalyzed Biaryl Syntheses”: L. J. Goossen, K. Goossen, C. Stanciu, *Angew. Chem.* **2009**, 121, 3621–3624; *Angew. Chem. Int. Ed.* **2009**, 48, 3569–3571.



L. J. Goossen has featured on the cover of *Angewandte Chemie*:

“Carboxylic Acids as Substrates in Homogeneous Catalysis”: L. J. Goossen, N. Rodríguez, K. Goossen, *Angew. Chem.* **2008**, 120, 3144–3164; *Angew. Chem. Int. Ed.* **2008**, 47, 3100–3120.

Lukas J. Goossen

Date of birth:	16 October, 1969
Nationality:	German
Position:	Professor of Organic Chemistry, Technical University Kaiserslautern (Germany)
Education:	1989–1994 Diploma in Chemistry, University of Bielefeld (Germany) 1994 Diploma research, University of California, Berkeley (USA) 1994–1997 PhD with W. A. Herrmann, TU Munich (Germany) 1997–1998 Postdoc with K. B. Sharpless, Scripps Research Institute, La Jolla (USA) 1999–2000 Research chemist, Bayer AG Central Research 2000–2003 Habilitation with Prof. Dr. M. T. Reetz, MPI für Kohlenforschung (Germany) 2004–2005 Heisenberg Fellow at RWTH Aachen (Germany) 2008–Present Visiting Professor at the University of Toronto (Canada)
Awards:	2001 Liebig Fellowship of the Fonds der Chemischen Industrie, 2002 Thieme Literature Award and Academy Award of the Göttingen Academy of Sciences, 2003 Jochen Block Award of the DECHEMA for catalysis research, 2004 Dozentenstipendium of the Fonds der Chemischen Industrie, 2007 Carl Duisberg Award of the German Chemical Society and Novartis Young Investigator Award, 2008 AstraZeneca Award in Organic Chemistry
Current research interests:	Development of simple, sustainable synthetic methods based on readily available resources; synthesis of biologically active substances; novel concepts for waste minimization in catalytic transformations, specifically in cross-coupling and addition reactions; carboxylic acids as substrates for catalytic reactions; mechanistic investigations; quantum mechanical calculations
Hobbies:	Current hobbies; my children, Linus (3) and Clara (1). Former hobbies; marathon running, hang gliding, motorcycling, and hiking

My biggest motivation is ... when I see one of my students achieving something that I could not have done myself.

My favorite subject at school was ... ancient greek.

If I wasn't a scientist, I would be ... a carpenter.

My first experiment was ... heating sulfur in a test tube over an alcohol burner and pouring it into water to see the changings while filling the whole house with the odor of sulfur dioxide

The biggest challenge facing scientists is ... to raise individual funding for conceptually new research.

My favorite piece of research is ... Karl Ziegler's development of olefin polymerization catalysts.

My most exciting discovery to date has been ... the concept of decarboxylative cross-coupling reactions.

My ultimate goal is to ... develop at least one sustainable synthetic method that finds widespread application and replaces ecologically questionable alternatives.

A good work day begins with ... an excited student storming into the coffee room with a stack of printouts of spectroscopic data.

The biggest challenge that chemists face is ... to identify areas of research that are both intellectually stimulating and meaningful to society as a whole.

My 5 top papers:

1. “Synthesis of Ketones from α -Oxocarboxylates and Aryl Bromides by Cu/Pd-Catalyzed Decarboxylative Cross-Coupling”: L. J. Goossen, F. Rudolphi, C. Oppel, N. Rodríguez, *Angew. Chem.* **2008**, 120, 3085–3088; *Angew. Chem. Int. Ed.* **2008**, 47, 3043–3045.
2. “Synthesis of Secondary Enamides by Ruthenium-Catalyzed Selective Addition of Amides to Terminal Alkynes”: L. J. Goossen, K. S. M. Salih, M. Blanchot, *Angew. Chem.* **2008**, 120, 8620–8623; *Angew. Chem. Int. Ed.* **2008**, 47, 8492–8495.
3. “Decarboxylative Biaryl Synthesis from Aromatic Carboxylates and Aryl Triflates”: L. J. Goossen, N. Rodríguez, C. Linder, *J. Am. Chem. Soc.* **2008**, 130, 15248–15249.
4. “Synthesis of Biaryls via Catalytic Decarboxylative Coupling”: L. J. Goossen, G. Deng, L. Levy, *Science* **2006**, 313, 662–664.
5. “Decarbonylative Heck Olefination of Enol Esters: Salt-Free and Environmentally Friendly Access to Vinyl Arenes”: L. J. Goossen, J. Paetzold, *Angew. Chem.* **2004**, 116, 1115–1118; *Angew. Chem. Int. Ed.* **2004**, 43, 1095–1098.

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