M. Miura

*The author presented on this page has recently published his **10th article** in Angewandte Chemie in the last 10 years:*
"Copper-Mediated and Copper-Catalyzed Cross-Coupling of Indoles and 1,3-Azoles: Double C–H Activation": M. Nishino, K. Hirano, T. Satoh, M. Miura, *Angew. Chem.* **2012**, *124*, 7099 – 7103; *Angew. Chem. Int. Ed.* **2012**, *51*, 6993 – 6997.

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Education:	1978 Undergraduate degree, Osaka University 1983 PhD with Prof. S. Kusabayashi and Prof. M. Nojima, Osaka University 1990–1991 Humboldt Fellow with Prof. K. Griesbaum, Karlsruhe University
Awards:	**2012** Thomson Reuters Research Front Award
Current research interests:	Transition-metal catalysis for organic synthesis; construction and derivatization of heterocyclic compounds; synthesis of π-conjugated materials
Hobbies:	Cooking, listening to music, walking

Chemistry is fun because … new findings raise my spirits.

When I was eighteen I wanted to be … either a mathematician or a chemist.

My favorite drink is … wheat beer.

The most important future applications of my research are … to produce really useful chemicals in a highly efficient way.

My first experiment was … the acid-catalyzed reaction of a cyclic peroxide.

My favorite way to spend a holiday is … preparing fine dishes.

The secret of being a successful scientist is … one should spare no effort to do the necessary experiments.

My favorite molecule is … an azole that shows versatile reactivity and properties.

If I had one year of paid leave I would … go anywhere in the world.

If I could be a piece of lab equipment, I would be … a high-performance chromatograph.

What I appreciate most about my friends is … that they make my life better.

My favorite composer is … Ludwig van Beethoven.

The natural talent I would like to be gifted with … the ability to make fortunate discoveries by accident.

My motto is … to obey the rules of nature.

My 5 top papers:

1. "Palladium-Catalyzed Regioselective Mono- and Diarylation Reactions of 2-Phenylphenols and Naphthols with Aryl Halides": T. Satoh, Y. Kawamura, M. Miura, M. Nomura, *Angew. Chem.* **1997**, *109*, 1820 – 1822; *Angew. Chem. Int. Ed. Engl.* **1997**, *36*, 1740 – 1742. (The first example of a coordination-assisted catalytic direct arylation effectively leading to biaryl species.)
2. "Palladium-Catalyzed Multiple Arylation of Thiophenes": T. Okazawa, T. Satoh, M. Miura, M. Nomura, *J. Am. Chem. Soc.* **2002**, *124*, 5286 – 5287. (An intriguing multiple arylation on functionalized thiophenes involving cleavage of not only C–H bonds but also C–C bonds.)
3. "An Efficient Waste-Free Oxidative Coupling via Regioselective C–H Bond Cleavage: Rh/Cu-Catalyzed Reaction of Benzoic Acids with Alkynes and Acrylates under Air": K. Ueura, T. Satoh, M. Miura, *Org. Lett.* **2007**, *9*, 1407 – 1409. (The first report of Cp*Rh^{III}-catalyzed oxidative coupling, which is now very common.)
4. "Fluorescent Naphthyl- and Anthrylazoles from the Catalytic Coupling of Phenylazoles with Internal Alkynes through the Cleavage of Multiple C–H Bonds": N. Umeda, H. Tsurugi, T. Satoh, M. Miura, *Angew. Chem.* **2008**, *120*, 4083 – 4086; *Angew. Chem. Int. Ed.* **2008**, *47*, 4019 – 4022. (This work demonstrated that the Rh^{III}-catalyzed oxidative coupling is very useful for constructing condensed aromatic and heteroaromatic compounds.)
5. "Copper-Mediated and Copper-Catalyzed Cross-Coupling of Indoles and 1,3-Azoles: Double C–H Activation": M. Nishino, K. Hirano, T. Satoh, M. Miura, *Angew. Chem.* **2012**, *124*, 7099 – 7103; *Angew. Chem. Int. Ed.* **2012**, *51*, 6993 – 6997. (A new cross-dehydrogenative biheteroaryl coupling catalyzed by Cu alone was developed.)

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