



M. Sawamura

The author presented on this page has published more than **10 articles** in *Angewandte Chemie* in the last 10 years, most recently: "Threefold Cross-Linked Polystyrene–Triphenylphosphane Hybrids: Mono-P-Ligating Behavior and Catalytic Applications for Aryl Chloride Cross-Coupling and C(sp³)–H Borylation": T. Iwai, T. Harada, K. Hara, M. Sawamura, *Angew. Chem.* **2013**, 125, 12548–12552; *Angew. Chem. Int. Ed.* **2013**, 52, 12322–12326.



The work of M. Sawamura has been featured on the inside cover of *Angewandte Chemie*: "Palladium-Catalyzed Borylation of Sterically Demanding Aryl Halides with a Silica-Supported Compact Phosphane Ligand": S. Kawamorita, H. Ohmiya, T. Iwai, M. Sawamura, *Angew. Chem.* **2011**, 123, 8513–8516; *Angew. Chem. Int. Ed.* **2011**, 50, 8363–8366.

Masaya Sawamura

Date of birth:	December 15, 1961
Position:	Professor, Department of Chemistry, Faculty of Science, Hokkaido University
E-mail:	sawamura@sci.hokudai.ac.jp
Homepage:	http://wwwchem.sci.hokudai.ac.jp/~orgmet/index.php?id=25
Education:	1984 BEng, Kyoto University 1989 PhD with Prof. Yoshihiko Ito, Kyoto University 1993–1994 Visiting scientist with Prof. Stuart L. Schreiber, Harvard University
Awards:	2008, 2012, and 2013 Asian Core Program Lectureship Award; 2012 The Chemical Society of Japan Award for Creative Work
Current research interests:	Transition-metal catalysts based on functionalized solids; cooperative chiral catalysts; C–H functionalization; copper catalysis
Hobbies:	Driving, walking in the forest, bird-watching, skiing

My biggest inspiration is ... the Pacific Ocean.

I advise my students to ... refresh their brains on Sundays.

My favorite way to spend a holiday is ... to relax in a hot-spring bath in nature.

My favorite reaction principle is ... cooperative catalysis.

My science "hero" is ... Galileo Galilei.

If I could be a piece of lab equipment, I would be ... a rotary evaporator.

My favorite painter is ... Katsushika Hokusai.

My favorite band is ... Queen.

My motto is ... to have a grateful heart for everyone who made me as I am.

I am waiting for the day when someone will discover ... a method to solve the problem of slippery ice-covered roads.

Chemistry is fun because ... chemists can make their design become reality by synthesis.

My favorite drink is ... Japanese sake, especially Tsukasa Botan, which is produced in my hometown.

My 5 top papers:

1. "An Enantioselective Two-Component Catalyst System: Rh–Pd-Catalyzed Allylic Alkylation of Activated Nitriles": M. Sawamura, M. Sudoh, Y. Ito, *J. Am. Chem. Soc.* **1996**, 118, 3309–3310. (A rare and early example of a two-metal enantioselective catalysis.)
2. "Copper-Catalyzed γ -Selective Allyl–Alkyl Coupling between Allylic Phosphates and Alkylboranes": H. Ohmiya, U. Yokobori, Y. Makida, M. Sawamura, *J. Am. Chem. Soc.* **2010**, 132, 2895–2897. (Copper(I) catalysts made sp³-hybridized alkylboranes versatile nucleophiles.)
3. "Construction of Eight-Membered Carbocycles through Gold Catalysis with Acetylene-Tethered Silyl Enol Ethers": T. Iwai, H. Okochi, H. Ito, M. Sawamura, *Angew. Chem.* **2013**, 125, 4333–4336; *Angew. Chem. Int. Ed.* **2013**, 52, 4239–4242. (Novel gold(I) catalysts produced with semihollow-shaped substituted triethylnylphosphines enabled otherwise very difficult cyclization reactions.)
4. "Synthesis of Primary and Secondary Alkylboronates through Site-Selective C(sp³)–H Activation with Silica-Supported Monophosphine–Ir Catalysts": S. Kawamorita, R. Murakami, T. Iwai, M. Sawamura, *J. Am. Chem. Soc.* **2013**, 135, 2947–2950. (A heterogeneous Ir catalyst enabled N-directed borylation of secondary C_{sp³}–H bonds under mild conditions.)
5. "Cooperative Catalysis of Metal and O–H...O/sp³–C–H...O Two-Point Hydrogen Bonds in Alcoholic Solvents: Cu-Catalyzed Enantioselective Direct Alkynylation of Aldehydes with Terminal Alkynes": T. Ishii, R. Watanabe, T. Moriya, H. Ohmiya, S. Mori, M. Sawamura, *Chem. Eur. J.* **2013**, 19, 13547–13553. (The importance of C_{sp³}–H...O hydrogen bonds in cooperative enantioselective catalysis.)

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