



H. Yorimitsu

The author presented on this page has recently published his **25th article** since 2000 in *Angewandte Chemie*:

"Transition-Metal-Free Synthesis of Carbazoles and Indoles by an  $S_NAr$ -Based 'Aromatic Metamorphosis' of Thiaarenes": M. Bhanuchandra, K. Murakami, D. Vasu, H. Yorimitsu, A. Osuka, *Angew. Chem. Int. Ed.* **2015**, 54, 10234; *Angew. Chem.* **2015**, 127, 10372.



The work of H. Yorimitsu has been featured on the inside cover of *Angewandte Chemie*:

"Preferential Formation of Cyclic Trimers by Palladium-Catalyzed Oxidative Coupling Reactions of 2,18-Diethynylporphyrins": S. Tokui, H. Yorimitsu, A. Osuka, *Angew. Chem. Int. Ed.* **2012**, 51, 12357; *Angew. Chem.* **2012**, 124, 12523.

## Hideki Yorimitsu

<b>Date of birth:</b>	January 22, 1975
<b>Position:</b>	Professor, Kyoto University; Visiting Professor, Institute for Molecular Science, Okazaki; Project Leader, ACT-C, Japan Science and Technology Agency
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<b>Education:</b>	1997 Undergraduate degree, Kyoto University 2002 PhD with Koichiro Oshima, Kyoto University 2002–2003 JSPS postdoctoral fellow with Eiichi Nakamura, The University of Tokyo
<b>Awards:</b>	<b>2009</b> The Chemical Society of Japan Award For Young Chemists; <b>2011</b> Mitsui Chemicals Catalysis Science Award of Encouragement; <b>2011</b> The Young Scientists' Prize (MEXT, Japan); <b>2016</b> Mukaiyama Award, Society of Synthetic Organic Chemistry, Japan
<b>Current research interests:</b>	Transition-metal-catalyzed reactions; organic synthesis with organometallic reagents; radical chemistry; organoheteroatom chemistry (P, S, N, B, Si); "aromatic metamorphosis"; $\pi$ -conjugated aromatic molecules; atomic layers including graphene
<b>Hobbies:</b>	Walking; traveling; visiting historic or cultural sites

### If I were not a scientist, I would be a diplomat.

**The most exciting thing about research** is one can try many crazy ideas, and some of them turn out to be not so crazy.

**My worst nightmare** is running out of crazy ideas.

**In retrospect I would never again** claim to like mathematics.

**My favorite quote** is "The contemptible bequeath money, the respectable bequeath achievement, the admirable bequeath talent" (Shinpei Goto (1857–1929), a Japanese statesman).

**The most important thing I learned from my parents** is that making friends is most important in life.

**My favorite place on earth** is wherever I am with my family.

**I chose chemistry as a career because** I appreciated my high-school chemistry teacher.

**My best investment** was T. W. G. Solomons' *Organic Chemistry* Fifth Edition (1992).

**My favorite piece of research** is any reaction that leads to something totally unexpected.

**I lose track of time when** I am writing a paper.

**I can never resist** invitations from my friends to go for a drink.

**I would have liked to have discovered** Grignard reagents.

### My 5 top papers:

1. "Ultra-rapid Synthesis of  $^{15}O$ -Labeled 2-Deoxy-D-glucose for Positron Emission Tomography (PET)": H. Yorimitsu, Y. Murakami, H. Takamatsu, S. Nishimura, E. Nakamura, *Angew. Chem. Int. Ed.* **2005**, 44, 2708; *Angew. Chem.* **2005**, 117, 2768. (The target compound is of some complexity and has a half-life of only 2 minutes.)
2. "Gallium-Mediated Allyl Transfer from Bulky Homoallylic Alcohol to Aldehydes via Retro-allylation: Stereoselective Synthesis of Both *erythro*- and *threo*-Homoallylic Alcohols": S. Hayashi, K. Hirano, H. Yorimitsu, K. Oshima, *Org. Lett.* **2005**, 7, 3577. (The seminal discovery that was then extended to palladium-catalyzed C–C bond cleavage.)
3. "Efficient Synthesis and Versatile Reactivity of Porphyrinyl Grignard Reagents": K. Fujimoto, H. Yorimitsu, A. Osuka, *Eur. J. Org. Chem.* **2014**, 4327. (The most reactive peripherally metalated porphyrins at that time; the present champion is porphyrinylthium.)
4. "Practical, Modular, and General Synthesis of Benzo-furans through Extended Pummerer Annulation/Cross-Coupling Strategy": K. Murakami, H. Yorimitsu, A. Osuka, *Angew. Chem. Int. Ed.* **2014**, 53, 7510; *Angew. Chem.* **2014**, 126, 7640. (Includes several intriguing and characteristic aspects of modern organosulfur chemistry.)
5. "Palladium-Assisted 'Aromatic Metamorphosis' of Dibenzothiophenes into Triphenylenes": D. Vasu, H. Yorimitsu, A. Osuka, *Angew. Chem. Int. Ed.* **2015**, 54, 7162; *Angew. Chem.* **2015**, 127, 7268. (A recent challenge based on my crazy idea of breaking and reconstructing aromatic skeletons.)

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