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Education

2004, March BSc School of Engineering Science, Osaka University (Prof. Kazushi Mashima)
2004, October-December Visiting Student at Vienna University of Technology, Austria (Prof. Karl Kirchner)
2006, March MSc Graduate School of Engineering Science, Osaka University (Prof. Kazushi Mashima)
2009, March Ph.D. Graduate School of Engineering Science, Osaka University (Prof. Kazushi Mashima)

Academic Career

2009, April Assistant Professor at Graduate School of Engineering, Osaka University (Prof. Nobuaki Kambe)
2017, August Associate Professor at Graduate School of Engineering, Osaka University
(Prof. Nobuaki Kambe)
2018, July Associate Professor at Graduate School of Engineering, The University of Tokyo
(Prof. Kyoko Nozaki)

Selected Awards

2016 Special Lecture for Young Chemists in 96th CSJ (Chemical Society of Japan)
2018 Chemistry Award BCA 2018
2018 Incentive Award in Synthetic Organic Chemistry (The Society of Synthetic Organic Chemistry, Japan)
2019 Thieme Chemistry Journals Award 2019
2019 The Japan Petroleum Institute Award for Encouragement of Research and Development
2019 The SPACC Young Investigator Award
2020 The Commendation for Science and Technology by the Minister of Education, Culture, Sports, Science and Technology, The Young Scientists' Award
2020 The 2020 Mitsui Chemicals Catalysis Science Award for Creative Work
2020 Research Incentive Award of JSCC 2020 (Japan Society of Coordination Chemistry)
2024 Digi-TOS Lectureship Award (The Grant-in-Aid for Transformative Research Areas (A), Digitalization-driven Transformative Organic Synthesis (Digi-TOS))

Selected Publications:

1. T. Iwasaki, Y. Yamada, N. Naito, K. Nozaki; Chemoselective Hydrogenolysis of Urethanes to Formamides and Alcohols in the Presence of More Electrophilic Carbonyl Compounds; *J. Am. Chem. Soc.* **2024**, *146*, 25562–25568.
2. T. Iwasaki, K. Tsuge, N. Naito, K. Nozaki; Chemoselectivity Change in Catalytic Hydrogenolysis enabling Urea-reduction to Formamide/Amine over More Reactive Carbonyl Compounds; *Nat. Commun.* **2023**, *14*, 3279.
3. T. Iwasaki, W. Ishiga, S. Pal, K. Nozaki, N. Kambe; Mechanistic Insight into Rh-Catalyzed C(sp²)-O Bond Cleavage Applied to Cross-Coupling Reaction of Benzofurans with Aryl Grignard Reagents; *ACS Catal.* **2022**, *12*, 7936–7949.
4. T. Iwasaki, K. Nozaki; Counterintuitive Chemoselectivity in the Reduction of Carbonyl Compounds; *Nat. Rev. Chem.* **2024**, *8*, 518–534.
5. T. Iwasaki, N. Kambe; Cross- and Multi-Coupling Reactions Using Monofluoroalkanes; *Chem. Rec.* **2023**, *23*, e202300033.