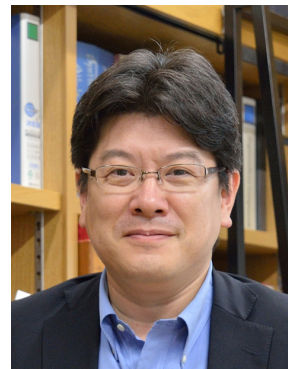


## Curriculum Vitae

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### Experience

1987-1988 *Undergraduate Student with Professors Yoshihiko Ito and Zen-ichi Yoshida  
Department of Synthetic Chemistry, Kyoto University*

1988-1993 *Graduate student with Professor Yoshihiko Ito  
Department of Synthetic Chemistry, Kyoto University*

1993-2002 *Assistant Professor  
Department of Synthetic Chemistry and Biological Chemistry, Kyoto University*

1998-1999 *Visiting Researcher with Professor Gregory C. Fu  
Sabbatical leave to Massachusetts Institute of Technology*

2002-2004 *Associate Professor  
Department of Synthetic Chemistry and Biological Chemistry, Kyoto University*

2004-present *Professor  
Department of Synthetic Chemistry and Biological Chemistry, Kyoto University*

2014-present *Deputy Executive Vice-President (Education and Strategy Coordination)  
Kyoto University*

**Education** Kyoto University B.S. in 1988; Ph.D. in 1993

### Awards

1999 *The Chemical Society of Japan Award for Young Chemist*

2001 *The Society of Silicon Chemistry Japan Award for Young Chemist*

2005 *Nagoya Silver Medal*

2005 *Mukaiyama Award, Society of Synthetic Organic Chemistry, Japan*

2010 *JSPS Prize, Japan Society for the Promotion of Science*

2013 *The Chemical Society of Japan Award for Creative Work*

2015 *The Humboldt Research Award*

### Visiting Professorship and Lectureship

2010 *Visiting Professor: Westfälische Wilhelms Universität Münster, Germany*

2011 *Asian Core Program Lectureship Award (Hong Kong)*

2011 *Asian Core Program Lectureship Award (Korea)*

2013 *Asian Core Program Lectureship Award (Taiwan)*

2015	<i>Visiting Professor: Westfälische Wilhelms Universität Münster, Germany</i>
2015	<i>Visiting Professor: Université Pierre et Marie Curie (University of Paris VI), Sorbonne Universités, France</i>
2016	<i>SCS Lectureship, Swiss Chemical Society, Switzerland</i>
2016	<i>Nankai Organic Lectureship, Nankai University, China</i>
2017	<i>Boston College/Boehringer Ingelheim Lecturer, USA</i>

**Selected Invited Lectures (2012-)**

- The 19th Bristol Synthesis Meeting, University of Bristol, Bristol, UK, April 9, 2019.
- Solvay Workshop on Chiral Symmetry Breaking at Molecular Level, Brussels, Belgium, Nov 28-30, 2018.
- Gordon Research Conference (Stereochemistry), Salve Regina University, Newport, RI, USA, July 22-27, 2018.
- Boron in the Americas (BORAM-XVI), Boston, MA, USA, June 26-30, 2018.
- ACS National Meeting & Exposition (Herbert C. Brown Award for Creative Research in Synthetic Methods: Symposium in Honor of Gregory C. Fu), New Orleans, Louisiana, USA, Mar. 18-22, 2018.
- 16th International Meeting on Boron Chemistry (IMEBORON XVI), Hong Kong, China, July 9-13, 2017.
- The 12th International Conference on Heteroatom Chemistry (ICHAC-12), Vancouver, British Columbia, Canada, June 11-16, 2017.
- Telluride Conference, Molecular Motors, Rotors, and Switches, Telluride, Colorado, USA, July 17-23, 2016.
- The 51st EUCHEM Conference on Stereochemistry (Bürgenstock Conference), Brunnen, Switzerland, May 1-7, 2016.
- NYUAD International Chemistry Conference on Organic and Bioorganic Chemistry, NYU Abu Dhabi Saadiyat Campus, Abu-Dhabi, UAE, Feb. 16-18, 2016.
- Pacificchem 2015, Symposium on Asymmetric Supramolecular Catalysis, Biology, and Materials, Honolulu, Hawaii, USA, Dec. 15-20, 2015.
- The 46th Silicon Symposium at UC Davis, Davis, CA, USA, June 21-24, 2015.
- Symposium on Foldamers 2015, Bordeaux, France, Jan. 26-28, 2015.
- XXV Congresso Della Societa' Chimica Italiana, Rende, Italy, September 8, 2014.
- The 17th International Symposium on Silicon Chemistry (ISOS XVII 2014), Berlin, Germany, August 3-8, 2014.
- International Symposium on Chiral Discrimination (Chirality 2014), Prague, Czech Republic, July 27-30, 2014.
- IUPAC MACRO 2014, Chiang Mai, Thailand, July 6-11, 2014.
- International Symposium on Catalysis and Fine Chemicals 2013 (C&FC 2013), Renmin University, Beijing, China, Dec. 1-5, 2013.
- The 14th Tetrahedron Conference, Vienna, Austria, June 25-28, 2013.
- Inaugural KAUST-Symposium on Functional Molecules and Materials (1st KFMM), Thuwal, Saudi Arabia, December 17-19, 2012.
- International Conference "Catalysis in Organic Synthesis" (ICCOS-2012), Moscow, Russia, September 15-20, 2012.
- 244th ACS National Meeting and Exposition, Celebration of International Chemistry, Philadelphia, Pennsylvania, USA, August 19-23, 2012.

- International Green Catalysis Symposium–Advanced Spring School on Green Catalysis, Rennes, Bretagne, France, March 7–9, 2012.

### International Journals

- 2011- Editorial Board, *The Journal of Polymer Science A: Polymer Chemistry*
- 2012- International Advisory Board, *Asian Journal of Organic Chemistry*
- 2012-2015 Associate Editor, *Bulletin of Chemical Society of Japan*
- 2016 Section Editor, *Bulletin of Chemical Society of Japan*
- 2017- Deputy Editor-in chief, *Bulletin of Chemical Society of Japan*
- 2017- Editorial Board, *ChemCatChem*

### Research Interest

**Boron-based organic synthesis:** (1) Catalytic reactions using silylboranes (e.g., silaboration) (2) Catalytic diboration with unsymmetrical diboron reagent (BpinBdan), (3) Protective group (Bdan), (4) Convertible boron-based directing groups Bpza and Baam for catalytic C-H activation, (5) Invertive and retentive Suzuki-Miyaura coupling of chiral alkylboronic acids, (6) Iterative cross-coupling for the synthesis of oligoarenes.

**Catalytic C-H functionalization:** (1) Ir-catalyzed C(sp<sup>3</sup>)-H borylation, (2) Boryl-directed C-H functionalization, (3) Hydroalkynylation and hydroacylation of C=C bonds, (4) Cycloisomerization via intramolecular addition of NMe and OMe C-H bonds to C-C double and triple bonds.

**Chemistry of Single-handed Helical Polymers:** (1) New protocols for induction and switch of helical chirality, (2) Chirality-switchable chiral catalysts for Asymmetric synthesis, (3) Application to Chirality-switchable chiroptical materials.