# KOBAYASHI Hirokazu (小林 広和)



### Ph.D. in Engineering

Assistant Professor, Institute for Catalysis, Hokkaido University

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**Education:** 2004 BS (Tokyo Institute of Technology, Prof. K. Otsuka and Prof. I. Yamanaka)

2006 MS (Tokyo Institute of Technology, Prof. I. Yamanaka) 2009 PhD (Tokyo Institute of Technology, Prof. I. Yamanaka)

#### **Professional Carrier**

2006-2009	JSPS Research Fellow DC1, Tokyo Institute of Technology
2009-2015	Assistant Professor, Catalysis Research Center, Hokkaido University
2015-	Current position

# **Scientific Activities**

2009-2011	Local Arrangement, TOCAT6/APCAT5
2012-2014	Treasurer & Secretary, Hokkaido Branch, Catalysis Society of Japan
2013-	Local Arrangement, ZMPC2015
2014	Secretary & Treasurer, TOCAT7 Pre-symposium in Shiretoko
2015-2016	Organizing Committee, 16th International Congress on Catalysis, Pre-symposium in Sapporo
2015-2017	Editorial Committee, Catalysis Socienty of Japan
2019-2020	Treasurer, Hokkaido Branch, Chemical Society of Japan

#### **Awards and Honors**

2007	Poster Presentation Award, GSC-AON2007
2013	Young Scientist Oral Presentation Award (Meeting B), Catalysis Society of Japan
2014	Hokkaido University President's Award for Outstanding Research, Encouraging Award
2015	Hokkaido University President's Award for Outstanding Research, Encouraging Award
2016	Chemical Society of Japan Award for Young Chemists
2020	Catalysis Society of Japan Award for Young Researchers

### **Research Interests**

- 1. Catalytic Biomass Conversion
- 2. Selective Oxidation of Alkane

# **Representative Publications**

- 1. "Development of Solid Catalyst-Solid Substrate Reactions for Efficient Utilization of Biomass", *Bull. Chem. Soc. Jpn.* **91**, 29 (2018). (Award Accounts)
- 2. "Trace mono-atomically dispersed rhodium on zeolite-supported cobalt catalyst for the efficient methane oxidation", *Commun. Chem.* **1**, 41 (2018).
- 3. "Catalytic Depolymerization of Chitin with Retention of N-Acetyl Group", *ChemSusChem* **8**, 3760 (2015).
- 4. "High-Yielding One-Pot Synthesis of Glucose from Cellulose Using Simple Activated Carbons and Trace Hydrochloric Acid", ACS Catal. 3, 581 (2013).
- 5. "Oxidation of adamantane with O<sub>2</sub> catalysed by VO (acac)<sub>2</sub> and reactivity of active species in acetic acid", *J. Mol. Catal. A* **294**, 37 (2008).