

## Masazumi Tamura

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### Education

2012.03 Ph.D. (Engineering), Nagoya University (Thesis Director: Prof. A. Satsuma)

2005.03 M.S. The University of Tokyo, Graduate School of Engineering, Department of Applied Chemistry (Thesis Director: Prof. M. Fujita)

2003.03 B.S. Kyoto University, School of Science, Department of Chemistry (Thesis Director: Prof. K. Maruoka)

### Professional Career

2005.04~2012.03 Researcher, Kao corporation

2012.04~2020.03 Assistant Professor, Tohoku University, Graduate School of Engineering

2015.12~2019.03 JST Presto Researcher (concurrent position)

2016.04~2017.03 ICAT Fellow, Hokkaido University, Institute for Catalysis  
(concurrent position)

2017.04~2019.03 Research collaborator, Hokkaido University, Institute for Catalysis  
(concurrent position)

2019.04~2020.03 ICAT Fellow, Hokkaido University, Institute for Catalysis  
(concurrent position)

2020.04~2022.03 Associate Professor, Osaka City University, Research Center for Artificial Photosynthesis (PI)

2022.04~2022.09 Associate Professor, Osaka Metropolitan University, Research Center for Artificial Photosynthesis (PI)

2022.10~ Associate Professor, Osaka Metropolitan University, Graduate School of Engineering (up to the present, PI)

### Selected Publications

1. Y. Kita, T. Fukuda, M. Akatsuka, P. Chen, M. Tamura\*, Catalytic Fe<sup>2+</sup> Cation Pair Site for Base-free N-Alkylation of Aromatic Amines with Alcohols, *ChemSusChem*, 2025, 18, e202401987.
2. M. Tamura\*, M. Haga, A. Junkaew, D. Asada, R. Ichikawa, R. Toyoshima, A. Nakayama, H. Kondoh, Y. Nakagawa, K. Tomishige\*, Acid-base bifunctional catalysis of Lewis acidic isolated Co(OH)<sub>2</sub> and basic N anion generated from CeO<sub>2</sub> and 2-cyanopyridine, *ACS Catal.*, 2024, 14, 13015.
3. Y. Gu, M. Tamura\*, Y. Nakagawa, K. Nakao, K. Suzuki, K. Tomishige\*, Direct synthesis of polycarbonate diols from atmospheric flow CO<sub>2</sub> and diols without using dehydrating agents, *Green Chem.*, 23 (2021) 5786-5796.
4. Y. Nakaji, M. Tamura\*, S. Miyaoka, S. Kumagai, M. Tanji, Y. Nakagawa, T. Yoshioka, K. Tomishige\*, Low-temperature catalytic upgrading of waste polyolefinic plastics into liquid fuels and waxes, *Appl. Catal. B*, 285 (2021) 119805.

### Research Interests

1. Heterogeneous catalysis
2. Carbon resource conversions (CO<sub>2</sub> conversion, plastic conversion, biomass conversion)
3. Fine chemicals synthesis
4. Heterogeneous/homogeneous hybrid catalysts

### **Awards**

- 2015 Research Award in Aoba Foundation for the Promotion of Engineering (2015)
- 2017 Catalysis Society of Japan Award for Young Researchers (2017)
- 2017 The Young Scholar Lectures of The Chemical Society of Japan (2017)
- 2018 The Japan Petroleum Institute Award for Encouragement of Research and Development
- 2018 The Young Scientists' Prize, The Commendation for Science and Technology by the MEXT (2018)
- 2020 Intelligent Cosmos Research Encouraging Award
- 2020 Yoichiro Nambu Memorial Young Research Award
- 2023 President's Award (Osaka Metropolitan University)
- 2024 President's Award (Osaka Metropolitan University)