

# Curriculum Vitae

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## Diplomas

March 2001: B.S. The University of Tokyo  
March 2003: M.S. The University of Tokyo  
November 2005: Ph.D.(Sci.) The University of Tokyo

## Research Activities

2003-2004: JSPS Fellowship  
2004-2008: Assistant Professor, Department of Chemistry, The University of Tokyo  
2008-2013: Associate Professor, Institute for Molecular Science  
2013 - : Professor, Department of Chemistry, Nagoya University  
2014-2018: Team Leader, Element Visualization Team, RIKEN SPring-8

## Recent publications:

- “*Imaging of Oxygen Diffusion in Individual Platinum/Ce<sub>2</sub>Zr<sub>2</sub>O<sub>x</sub> Catalyst Particles During Oxygen Storage and Release*”, H. Matsui, N. Ishiguro, K. Enomoto, O. Sekizawa, T. Uruga, and M. Tada, *Angew. Chem. Int. Ed.* **2016**, 55, 12022-12025.
- “*Tunable Heterogeneous Catalysis: N-Heterocyclic Carbenes as Ligands for Supported Heterogeneous Ru/K-Al<sub>2</sub>O<sub>3</sub> Catalysts to Tune Reactivity and Selectivity*”, J. B. Ernst, S. Muratsugu, F. Wang, M. Tada, and F. Glorius, *J. Am. Chem. Soc.* **2016**, 138, 10718-10721. (Synfact of the month)
- “*Operando 3D Visualization of Migration and Degradation of Pt Cathode Catalyst in a Polymer Electrolyte Fuel Cell*”, H. Matsui, N. Ishiguro, T. Uruga, O. Sekizawa, K. Higashi, N. Maejima, and M. Tada, *Angew. Chem. Int. Ed.* **2017**, 56, 9371-9375.
- “*Visualization of Heterogeneous Oxygen Storage Behavior in Platinum-Supported Cerium-Zirconium Oxide Three-Way Catalyst Particles by Hard X-ray Spectro-Ptychography*”, M. Hirose, N. Ishiguro, K. Shimomura, N. Burdet, H. Matsui, M. Tada, and Y. Takahashi, *Angew. Chem. Int. Ed.* **2018**, 56, 9371-9375. (Frontispiece)
- “*Tuning the Structure and Catalytic Activity of Ru Nanoparticle Catalysts by Single 3d Transition-Metal Atoms in Ru12-Metalloporphyrin Precursors*”, S. Muratsugu, A. Yamaguchi, G. Yokota, T. Maeno, and M. Tada, *Chem. Commun.* **2018**, 54, 4842-4845.