

Curriculum Vitae

Mizuki Tada

Professor

Department of Chemistry

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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:

- “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.
- “Oxygen-Diffusion- Driven Oxidation Behavior and Tracking Areas Visualized by X-ray Spectro-Ptychography with Unsupervised Learning”, M. Hirose, N. Ishiguro, K. Shimomura, D. N. Nguyen, H. Matsui, H. C. Dam, M. Tada, and Y. Takahashi, *Commun. Chem.* **2019**, *2*, 50.
- “Enhanced Oxygen Reduction Reaction Performance of Size-controlled Pt Nanoparticles on Polypyrrole-functionalized Carbon Nanotubes”, K. Ichihashi, S. Muratsugu, S. Miyamoto, K. Sakamoto, N. Ishiguro, and M. Tada, *Dalton Trans.* **2019**, *48*, 7130-7137 (Inside Front Cover).
- “Pt-Co/C Cathode Catalyst Degradation in a Polymer Electrolyte Fuel Cell Investigated by an Infographic Approach Combining Three-Dimensional Spectroimaging and Unsupervised Learning”, Y. Tan, H. Matsui, N. Ishiguro, T. Uruga, D. N. Nguyen, O. Sekizawa, T. Sakata, N. Maejima, K. Higashi, H. C. Dam, and M. Tada, *J. Phys. Chem. C* **2019**, *123*, 18844-18853 (Supplementary Cover).
- “Chromium Oxides as Structural Modulators of Rhodium Dispersion on Ceria to Generate Active Sites for NO Reduction”, S. Ikemoto, S. Muratsugu, T. Koitaya, and M. Tada, *ACS Catal.* **2022**, *12*, 431-441 (Front Cover).