Prof. Tetsuya Kida
Kumamoto University, Japan

Educational Backgrounds
1994, B. Eng., Kyushu University, Japan
1996, Ms. Eng., Kyushu University
2001, Ph.D., Kyushu University

Field of Research
Synthesis of inorganic nanomaterials such as quantum dots, oxide nanostructures, and graphene oxide, and their applications for biomass conversion, gas sensing, gas separation, solar energy conversion, etc.

Biography
2001-2003: Postdoctoral Fellow, National Institute of Advanced Industrial Science and Technology (AIST), Japan
2003-2006: Assistant Professor, Department of Chemistry and Applied Chemistry, Saga University, Japan
2006-2013: Associate Professor, Department of Energy and Materials Sciences, Kyushu University, Japan
2010-2011(13 months): Visiting Scholar, Materials Science Division, Lawrence Berkeley National Laboratory, USA
2013-2024: Professor, Division of Materials Science, Faculty of Advanced Science and Technology, Kumamoto University, Japan
2017-2017 (6 months): Visiting Professor, Institute for Chemical Investigation of Catalonia (ICIQ – Institut Català d'Investigació Química), Tarragona, Spain.
2025-present: Professor/director, Institute of Industrial Nanomaterials, Kumamoto University
2026-present: Adjunct Professor, Department of Chemical Engineering, Chulalongkorn University, Thailand

Recent Publications
1. Y. Inomata, **T. Kida**, Circularly Polarized Luminescence in Chiral Potassium Europium Nitrate, ***J. Am. Chem. Soc.***, 148, 1, 33–38 (2026).
2. S Yoneda, Y Shimada, MS Ahmad, Y Inomata, **T. Kida**, Dual-Pathway CO Sensing Mechanism in Pd-Loaded SnO_2 Nanocrystals: An Operando Spectroscopic Study, ***ACS Appl. Mater. Interfaces***, 18, 7482–7492 (2026).
3. M.S. Ahmad, I. Sahroni, T. Kodama, K. Hatakeyama, **T. Kida**, Electrocatalytic hydrogenation of alkynes and alkenes using a proton conductive graphene oxide membrane, ***Chem. Sci.***, 16, 8416-8421 (2025).
4. S. Kitamura, G. K. Putri, T. Kodama, T. Nakahara, N. L. Hamidah, T. Shinkai, I. Sahroni, Y. Inomata, K. Hatakeyama, A. T. Quitain, M. S. Ahmad, **T. Kida**, Superselective Hydrogen Separation through a Mixed Conducting Graphene Oxide Membrane, ***Nano Lett.***, 24, 15226-15233 (2024).

5. T. Shinkai, J. K. C. N Agutaya, B. Manna, M. Boepple, M. Iwai, K. Masumoto, K. Koga, K. Kawanami, Y. Nakamura, A. T. Quitain, K. Suematsu, Y. Inomata, N. Barsan, **T. Kida**, Ethanol sensing mechanism of ZnO nanorods revealed by DRIFT spectroscopy and DFT calculations, ***J. Mater. Chem. A***, 12, 7564-7576 (2024).
6. I. Sahroni, T. Kodama, M.S. Ahmad, T. Nakahara, Y. Inomata, **T. Kida**, Graphene Oxide Membrane Reactor for Electrochemical Deuteration Reactions, ***Nano Lett.***, 24, 3590-3597 (2024).