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Professor

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Education:

PhD (1991/4~1994/3) Chemistry, Graduate School of Science, Hokkaido University, JAPAN

M.S. 1989/4~1991/3) Chemical Engineering, Graduate School of Engineering Science, Osaka University, JAPAN

B.S. 1985/4~1989/3) Chemical Engineering, Faculty of Engineering Science, Osaka University, JAPAN

Experience:

Researcher(1994/4~1998/3) Osaka National Research Institute, JAPAN

Senior Researcher (1998/4~2001/3) Osaka National Research Institute, JAPAN

Senior Researcher,(2001/4~2002/12) The National Institute of Advanced Industrial Science and Technology Kansai (AIST Kansai)

Associate Professor(2003/1~2008/5) Department of Chemistry, Graduate School of Science, Osaka University, JAPAN

Professor (2008/6~) Department of Chemistry, Graduate School of Science, Osaka University, JAPAN

Selective Honors & Awards:

1. BCSJ Award Article, The Chemical Society of JAPAN (Aug./2013)
2. 2002 International Metallographic Contest First Place , T. Akita, M. Okumura, K. Tanaka, S. Tsubota, M. Haruta, International Metallographic Society (2022)

Research Areas:

Catalysis, Quantum Chemistry

Selective Publications:

1. "Theoretical Investigation of Propylene Epoxidation Using H₂ and O₂ Over Titanosilicate-Supported Au Catalysts", *Catal. Lett.* 154 (2024) 5948-5954.
2. "Theoretical investigation of CO oxidation over polyoxometalate-supported Au cluster catalyst" *J. Catal.* 438 (2024) 115724.
3. "Theoretical Study on TiOOH Production over Au/TiO₂ Catalyst —Support Dependency of Propylene Oxide Production—", *Chem. Lett.* 52 (2023) 861-864.
4. "Partial oxidation of propylene with H₂ and O₂ over Au supported on ZrO₂ with different structural and surface properties", *J. Catal.*, 401 (2021) 188-199