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Education

1994 B.Sc. Faculty of Science, the University of Tokyo (Japan)
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1996 M.Sc. School of Science, the University of Tokyo (Japan)
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1999 Ph.D. School of Science, the University of Tokyo (Japan)
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Research and professional experience

1999-2000 Special Postdoctoral Researcher, Chemical Analysis Team, RIKEN

2000-2008 Research Scientist, Chemical Analysis Team, RIKEN

2008-2011 Senior Research Scientist, Chemical Analysis Team, RIKEN

2011-2013 Senior Research Scientist, Materials Characterization Team, RIKEN

2013-Present Senior Research Scientist, Organometallic Chemistry Laboratory, RIKEN

2013-Present Senior Research Scientist, Advanced Catalysis Research Group, RIKEN Center for Sustainable Research Science

Concurrent posts

2003 Part-time Lecturer, Graduate School of Science and Engineering,
Saitama University

2009-Present Visiting Associate Professor, Graduate School of Science and
Engineering,

2011/4-2011/9 Part-time Lecturer, Ochanomizu University

Original publications

- S. Kamiguchi*, K. Asakura, T. Shibayama, T. Yokaichiya, T. Ikeda, A. Nakayama*, K. Shimizu, Z. Hou, "Catalytic ammonia synthesis on HY-zeolite-supported angstrom-size molybdenum cluster", *Chem. Sci.*, **2024**, Vol. 15, pp.2914–2922.
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- S. Kamiguchi*, K. Okumura, S. Nagashima, T. Chihara, "Catalytic Dehydrogenation of Alcohol over Solid-State Molybdenum Sulfide Clusters with an Octahedral Metal Framework", *Mater. Res. Bull.*, **2015**, Vol. 72, pp. 188–190.
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- S. Nagashima*, S. Furukawa, S. Kamiguchi, R. Kajio, H. Nagashima, A. Yamaguchi, M. Shirai, H. Kurokawa, T. Chihara, "Catalytic Activity of Molecular Rhenium Sulfide Clusters $[\text{Re}_6\text{S}_8(\text{OH})_{6-n}(\text{H}_2\text{O})_n]^{(4-n)-}$ ($n = 0, 2, 4, 6$) with Retention of the Octahedral Metal Frameworks: Dehydrogenation and Dehydration of 1,4-Butanediol", *J. Clust. Sci.*, **2014**, Vol. 24, pp. 1203–1224.
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- S. Kamiguchi, S. Nagashima, T. Chihara, "Halide cluster catalyst and its crystallinity", *Shokubai*, **2007**, Vol. 49, pp. 554–559. (In Japanese)
- S. Kamiguchi, T. Chihara, "Utilization of halide clusters as catalysts", *Kagaku Kogyo*, **2007**, Vol. 58, pp. 16–20. (In Japanese)
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Patent

- S. Kamiguchi, Z. Hou, C. T. To, "Ammonia synthesis catalyst containing metal cluster, and use thereof", JP7099722, Registered on July 12, 2022.