

研究成果報告書 (掲載期間 2019.11.1–2020.10.31)

学術論文

- (1) Hiromasa Tanaka, Seiji Hitaoka, Kazuki Umehara, Kazunari Yoshizawa, Shigeki Kuwata : Mechanistic study on disproportionation of hydrazine via proton-coupled electron transfer catalyzed by a protic pincer-type iron complex, *Eur. J. Inorg. Chem.*, 2020, 2020, 15–16, pp.1472–1482.
- (2) Akihito Egi, Hiromasa Tanaka, Asuka Konomi, Yoshiaki Nishibayashi, Kazunari Yoshizawa : Mechanistic study on nitrogen fixation catalyzed by dinitrogen-bridged dimolybdenum complexes bearing PCP- and PNP-type pincer ligands: A shortcut pathway deduced from free energy profiles, *Eur. J. Inorg. Chem.*, 2020, 2020, 15–16, pp.1490–1498.
- (3) Akira Yamamoto, Kazuya Arashiba, Shimpei Naniwa, Kazuo Kato, Hiromasa Tanaka, Kazunari Yoshizawa, Yoshiaki Nishibayashi, Hisao Yoshida : Structural characterization of molybdenum-dinitrogen complex as key intermediate toward ammonia formation by dispersive XAFS spectroscopy, *Phys. Chem. Chem. Phys.*, 2020, 2020, 22, pp.12368–12372.
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- (5) Yoshiaki Tanabe, Yoshiya Sekiguchi, Hiromasa Tanaka, Asuka Konomi, Kazunari Yoshizawa, Shogo Kuriyama, Yoshiaki Nishibayashi : Preparation and reactivity of molybdenum complexes bearing pyrrole-based PNP-type pincer ligand, *Chem. Commun.*, 56, 2020, 51, pp.6933–6936.
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