

## 2019 年度における研究成果の報告(2020 年 3 月 1 日現在)

### ■査読付き論文(2019 年度(2019 年発行を含む))

1. Yusuke Inomata, Shin-ichi Hata, Makoto Mino, Eiji Kiyonaga, Keiichiro Morita, Kenji Hikino, Kazuhiro Yoshida, Hiroe Kubota, Takashi Toyao, Ken-ichi Shimizu, Masatake Haruta, Toru Murayama\*, 'Bulk Vanadium Oxide versus Conventional V<sub>2</sub>O<sub>5</sub>/TiO<sub>2</sub>: NH<sub>3</sub>-SCR Catalysts Working at a Low Temperature Below 150 °C', *ACS Catal.* **2019**, 9, 9327–9331. DOI: 10.1021/acscatal.9b02695
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8. Satoshi Ishikawa, Toru Murayama, Benjamin Katryniok, Franck Dumeignil, Marcia Araque, Svetlana Heyte, Sébastien Paul, Yudai Yamada, Mizuki Iwazaki, Nagisa Noda, Wataru Ueda, 'Influence of the structure of trigonal Mo-V-M3rd oxides (M3rd = -, Fe, Cu, W) on catalytic performances in selective oxidations of ethane, acrolein, and allyl alcohol', *Appl. Catal. A: Gen.* **2019**, 584, 117151. DOI: 10.1016/j.apcata.2019.117151
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8. 西垣潤一, 石田玉青, 春田正毅, 「金クラスターおよび金合金クラスター触媒による補酵素 NAD<sup>+</sup>の還元反応」, 第 124 回触媒討論会, 長崎大学, 2019.9.19.
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- Jun-ichi Nishigaki, Tamao Ishida, Masatake Haruta, "Mutual Redox Conversion of NAD<sup>+</sup> and NADH by Gold Catalysts", The 8<sup>th</sup> Asia-Pacific Congress on Catalysis, Bangkok, Thailand, 2019.8.5.
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#### 【依頼・招待講演】

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#### ■著書・総説・解説、報告書

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#### ■特許

非公開

#### ■受賞

1. Mingyue Lin has been awarded the excellent oral presentation in Air Pollution Control Section of the 10th National Conference on Environmental Chemistry. Tianjin, China, 2019.8.17.

#### ■報道

1. The research work of NH<sub>3</sub> oxidation over Au/Nb<sub>2</sub>O<sub>5</sub> has been reported by AAAS EurekAlert! ([https://www.eurekalert.org/pub\\_releases/2019-03/tmu-bia032019.php](https://www.eurekalert.org/pub_releases/2019-03/tmu-bia032019.php)) and Japanese Newspaper of Japan NIKKEI BUSINESS DAILY
2. The research work of NH<sub>3</sub>-SCR over bulk vanadium oxide has been reported by AAAS EurekAlert! ([https://www.eurekalert.org/pub\\_releases/2019-11/tmu-ncr111319.php](https://www.eurekalert.org/pub_releases/2019-11/tmu-ncr111319.php)) and others.
3. 未来の起源, TBS, 2019年7月14日(地上デジタル), 7月21日(BS)