

学位論文要約

Study on Oxidation of Group VIII Metal Complexes Bridged by Fulvalene Ligand

(フルバレン配位子で架橋した第8族金属錯体の酸化に関する研究)

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- Acknowledgements

公表論文

1. H. Yasuhara, K. Koga and S. Nakashima, *Bull. Chem. Soc. Jpn.*, **86**, 5, 600-607 (2013).
2. H. Yasuhara, M. Kaneko, K. Koga, T. Tahara and S. Nakashima, *Bull. Chem. Soc. Jpn.*, **87**, 4, 498-505 (2014).

3. H. Yasuhara, K. Koga and S. Nakashima, *J. Organomet. Chem.*, **779**, 86-90 (2015).
4. H. Yasuhara and S. Nakashima, *J. Organomet. Chem.*, **791**, 225-231 (2015).

参考論文

1. H. Dote, H. Yasuhara and S. Nakashima, *J. Radional. Nucl. Chem.*, **303**, 2, 1589-1593 (2015).
2. S. Nakashima, A. Sasai, K. Koga, H. Yasuhara, A. Matsushima and K. Inada, *Radiation Protection Dosimetry*, DOI 10.1093/rpd/ncv242 (2015).