

## 2007年度 宇宙環境研究グループ国際会議講演

"Atomic oxygen concentrators: a key device for micro air breathing ion engine", Yokota K., Tagawa M., Nishiyama K., Workshop on Micro- and Nano Engineering for Aerospace Systems, Kyoto, March 6, 2007, p166.

"Effect of space environment on molybdenum disulfide-based lubricants -A microtribological study for SM/SEED flight samples-", Tagawa M., Yokota K., Akiyama M., Matsumoto K., Suzuki M., Workshop on Micro- and Nano Engineering for Aerospace Systems, Kyoto, March 6, 2007, pp157.

" Low Earth Orbit Space Environmental Effects on MoS<sub>2</sub>/DLC Lubrication Films", M. Tagawa, K. Yokota, K. Matsumoto, M. Belin, Abstracts of International Conference on Metallurgical Coatings and Thin Films, San Diego, April, 23-27,2007, pp.10.

"Potential hazards on the oxidation reaction of satellite materials in the extreme environments in space", M. Tagawa, K. Yokota, 3<sup>rd</sup> International Workshop on Oxidation Reactions, Suita, May, 10, 2007, pp33-45.

"Surface modification of a diamond-like carbon thin film using hyperthermal fluorine beams," Yamada Noriko, Kanda Kazuhiro, Yokota Kumiko, Tagawa Masahito, Niibe Masato, Haruyama Yuichi, Matsui Shinji, Proceedings of the 20<sup>th</sup> International Micropocesses and nanotechnology Conference, Nov. 5-8, 2007, Kyoto, pp.166-167.

"Fluorination of PMDA-ODA Polyimide using Hyperthermal Atomic Fluorine Beams" M. Tagawa, K. Yokota, K. Maeda, A. Yoshigoe, Y. Teraoka, K. Akamatsu, H. Nawafune, November 5-7, 2007, Orlando, FL, pp.43.

"Durability of a Silicon-Containing Polyimide in a Simulated Low Earth Orbit Space Environment" Kumiko Yokota, Masahito Tagawa, Minoru Iwata, Eiji Miyazaki, Jun-ichiro Ishizawa, Mineo Suzuki, Rikio Yokota, 5<sup>th</sup> International Conference on Polyimides and Other High Temperature Polymers, November 5-7, 2007, Orlando, FL, pp.26.