

[H30-6]

燃料デブリ特性及び事故廃棄物処理処分に関する基礎基盤研究 Fundamental Research on Property of Fuel Debris and Waste Disposal from the Accident

学術論文（査読あり）

- [1] Yoshihiro Iwata, Masabumi Miyabe, Shuichi Hasegawa, “Investigation on the DC Stark shifts of strontium autoionization states for isotope-selective resonance ionization,” *Journal of Quantitative Spectroscopy & Radiative Transfer* **265** (2021) 107549 (7 pages).
- [2] Stephen R Wells, Masabumi Miyabe, Yoshihiro Iwata and Shuichi Hasegawa, “Resonance ionisation spectrometry measurement of atomic calcium Rydberg isotope shifts,” *Journal of Physics B* **54** (2021) 045002 (6 pages).
- [3] Hui Liang, Qian Zhou, Nejdert Erkan, and Shunichi Suzuki, “Improvement of aerosol spray scavenging efficiency with water mist,” *Journal of Aerosol Science*, 153, p.105697, 2021.
- [4] Hui Liang, Nejdert Erkan, Virginie Solans, and Shunichi Suzuki, “Numerical simulation and validation of aerosol particle removal by water spray droplets with openFOAM during the Fukushima Daiichi Fuel Debris Retrieval,” *Frontiers in Energy Research*, 8, p.102, 2020.

学術論文（査読なし）

- [1] Hui Liang, Qian Zhou, Nejdert Erkan, and Shunichi Suzuki, “Effect of spray properties on aerosol scavenging efficiency with addition of water mist,” Under review, submitted to *Aerosol Science and Technology*, (March 10th, 2021).
- [2] Hui Liang, Nejdert Erkan, Qian Zhou, Shunichi Suzuki, Emmanuel Porcheron, Thomas Gelain, “Improve the aerosol spray scavenging efficiency with water mist inside large containments with different size scales,” Under review, submitted to *Journal of Aerosol Science*, (March 8th, 2021).

博士論文

- [1] Liang, H., “Development of an Effective Spray System for Aerosol Dispersion Control during the Decommissioning of Fukushima Daiichi Nuclear Power Plant,” The University of Tokyo, (September, 2020).
- [2] Wells Stephen Robert, “Laser based investigations in calcium isotope selective excitation,” The University of Tokyo, (September, 2020).

修士論文

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卒業論文

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国際会議

- [1] Liang, H., Zhou, Q., Erkan, N., Suzuki, S., Leblois, Y., Gelain, T. and Porcheron, E., “Effect of Containment Vessel’s Size Scale on the Aerosol Spray Scavenging Efficiency With Water Mist,” In *International Conference on Nuclear Engineering*, Vol. 83761, p. V001T04A006, American Society of Mechanical Engineers, (August. 2020).
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国内会議

- [1] 岩田圭弘, 宮部昌文, 永岡美佳, 長谷川秀一, 「自動電離準位を用いたレーザー共鳴イオン化による Sr 同位体分析」, 第 18 回同位体科学研究会, オンライン開催, 2021 年 3 月.
- [2] 岩田圭弘, Cheon Donguk, 宮部昌文, 長谷川秀一, 「ストロンチウム共鳴イオン化における自動電離準位のシュタルクシフト観測」, 日本原子力学会 2020 年秋の大会, オンライン開催, 2020 年 9 月.

招待講演等

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解説・記事等

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新聞発表等

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特許等

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