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WORK EXPERIENCE

2021 – present, Hitachi, Ltd., Ibaraki

EDUCATION

- Ph.D. in Science, 2021 The University of Tokyo, Tokyo, Japan
Doctoral Dissertation, Department of Advanced Materials Science, The University of Tokyo, “Magnetic phase transition and piezo magnetoelectric effect in $\text{CaBaCo}_4\text{O}_7$ ”.
- Master of Science, 2018 The University of Tokyo, Tokyo, Japan
Master thesis, Department of Advanced Materials Science, The University of Tokyo, “The nonreciprocal response with excitations of quasi-particles in polar ferrimagnets”.
- Bachelor of Engineering, 2016 The University of Tokyo, Tokyo, Japan

PUBLICATIONS

1. “Element selectivity in second-harmonic generation of GaFeO_3 by a soft-x-ray free-electron laser”, Sh. Yamamoto, T. Omi, *et al.*, Phys. Rev. Lett., **120**, 223902 (2018).
2. “Antiferromagnetic-to-ferrimagnetic phase transition with large electric-polarization change in a frustrated polar magnet $\text{CaBaCo}_4\text{O}_7$ ”, T. Omi *et al.*, Phys. Rev. B **103**, 184412 (2021).
3. "State-of-Charge Balancing Control Utilizing the Circulating Current for Battery Energy Storage System", T. Omi and T. Hatakeyama, ICRERA2024, 9-13, pp. 375-380 (2024).