

【List of published papers: Y. Mizuguchi】 latest update: 2, Apr. 2024

- (1) H. Arima, Md. R. Kasem, H. Sepehri-Amin, F. Ando, K. Uchida, Y. Kinoshita, M. Tokunaga, Y. Mizuguchi*, "Observation of nonvolatile magneto-thermal switching in superconductors", *Commun. Mater.* 5, 34 (2024), DOI: 10.1038/s43246-024-00465-9.
- (2) Y. Watanabe, H. Arima, S. Kawaguchi-Imada, H. Kadobayashi, K. Oka, H. Usui, R. Matsumoto, Y. Takano, T. Kawahata, C. Kawashima, H. Takahashi, A. Yamashita, Y. Mizuguchi*, "Pressure-induced volumetric negative thermal expansion in CoZr_2 superconductor", *Adv. Electron. Mater.* 2024, 2300896 (2024), DOI: 10.1002/aelm.202300896.
- (3) R. Matsumoto*, K. Yamane, Y. Mizuguchi, R. Ishikawa, K. Takae, R. Kurita, H. Usui, M. Ohkuma, K. Terashima, Y. Takano, "Pressure-induced superconductivity and robust T_c against external pressure in $(\text{Ge}, \text{Sn}, \text{Pb})\text{Te}$ ", *J. Alloys Compd.* 983, 173906 (2024), DOI: 10.1016/j.jallcom.2024.173906.
- (4) S. Nakanishi, Y. Nakai*, Y. Goto, Y. Mizuguchi, T. Fujii, T. Mito, "Site-Selective NMR/NQR Study on Layered Tin Pnictide Superconductor NaSn_2Pn_2 ($\text{Pn} = \text{P}$ and As)", *J. Phys. Soc. Jpn.* 93, 023703 (2024), DOI: 10.7566/JPSJ.93.023703.
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- (7) F. I. Abbas, H. Arima, Md. R. Kasem, Y. Watanabe, T. Hasegawa, C. H. Lee, A. Yamashita, Y. Mizuguchi*, "Stabilization of Bi vibration along c -axis in BiS_2 -based layered compounds $\text{La}(\text{O}, \text{F})\text{Bi}(\text{S}, \text{Se})_2$ by Se substitution", *Appl. Phys. Express* 17, 013002 (2023), DOI: 10.35848/1882-0786/ad0ba6.
- (8) Y. Watanabe*, A. Miura, C. Moriyoshi, A. Yamashita, Y. Mizuguchi*, "Observation of superconductivity and enhanced upper critical field of η -carbide-type oxide $\text{Zr}_4\text{Pd}_2\text{O}$ ", *Sci. Rep.* 13, 22458 (2023), DOI: 10.1038/s41598-023-49707-9.
- (9) T. Murakami, H. Arima, Y. Mizuguchi*, "Anomalous field-temperature phase diagram of superconductivity in Sn-Pb solder", *AIP Adv.* 13, 125008 (2023), DOI: 10.1063/5.0183526.
- (10) T. Seki, H. Arima, Y. Kawasaki, T. Nishizaki, Y. Mizuguchi, J. Kitagawa*, "Effect of annealing in eutectic high-entropy alloy superconductor NbScTiZr ", *J. Supercond. Nov. Magn.* (2023), DOI: 10.1007/s10948-023-06643-z.
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- (13) H. Arima*, Y. Mizuguchi, "Nonvolatile Magneto-Thermal Switching in MgB₂", *J. Phys. Soc. Jpn.* 92, 103702 (2023), DOI: 10.7566/JPSJ.92.103702.
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- (19) K. Hoshi, H. Arima, N. Kataoka, M. Ochi, A. Yamashita, A. de Visser, T. Yokoya, K. Kuroki, Y. Mizuguchi*, "Controlling of Localization by Elemental-substitution Effect in Layered BiCh₂-Based Compounds LaO_{1-x}F_xBiS_{2-y}Se_y", *J. Phys. Soc. Jpn.* 92, 054704 (2023), DOI: 10.7566/JPSJ.92.054704.
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- (29) F. I. Abbas, K. Hoshi, Y. Nakahira, M. Yoshida, A. Yamashita, H. Ito, A. Miura, C. Moriyoshi, C. H. Lee, Y. Mizuguchi*, "Estimation of Grüneisen Parameter of Layered Superconductor $\text{LaO}_{0.5}\text{F}_{0.5}\text{BiS}_{2-x}\text{Se}_x$ ($x = 0.2, 0.4, 0.6, 0.8, 1.0$)", *J. Phys. Soc. Jpn.* 92, 014703 (2023), DOI: 10.7566/JPSJ.92.014703.
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