# Suzuki-Lab. Publications List

## 鈴木研究室　論文・著書・解説等発表リスト

1. （更新中・・）
2. R. Ishikawa, M. Goto, H. Nomura, and Y. Suzuki, "Implementation of skyrmion cellular automaton using Brownian motion and magnetic dipole interaction", Applied Physics Letters, 119, 072402 (2021)　10.1063/5.0053797
3. Y. Suzuki, S. Miki, Y. Imai, E. Tamura, "Diffusion of a magnetic skyrmion in two-dimensional space", Physics Letters A, 413, 127603 (2021) 10.1016/j.physleta.2021.127603
4. S. Miki, Y. Jibiki, E. Tamura, M. Goto, M. Oogane, J. Cho, R. Ishikawa, H. Nomura, and Y. Suzuki, "Brownian Motion of Magnetic Skyrmions in One- and Two-Dimensional Systems", Journal of the Physical Society of Japan, 90, 083601 (2021)　10.7566/JPSJ.90.083601
5. S. Lee, H. Koike, M. Goto, S. Miwa, Y. Suzuki, N. Yamashita, R. Ohshima, E. Shigematsu, Y. Ando, M. Shiraishi, "Synthetic Rashba spin-orbit system using a silicon metal-oxide semiconductor", Nature Materials, 20, 1228-1232 (2021) 10.1038/s41563-021-01026-y
6. Y. Yamada,　M. Goto, T. Yamane, N. Degawa, T. Suzuki, A. Shimura, S. Aoki, T. Mizuno, J. Urabe, S. Hara,　S. Miwa, and Y. Suzuki, "Quasi-maser operation using magnetic tunnel junctions", Applied Physics Letters, 118, 192402 (2021) 10.1063/5.0050151
7. M. Goto, H. Nomura, and Y. Suzuki, "Stochastic skyrmion dynamics under alternating magnetic fields", Journal of Magnetism and Magnetic Materials, 536, 167974(2021)　10.1016/j.jmmm.2021.167974
8. K. Hon, Y. Kuwabiraki, M. Goto, R. Nakatani, Y. Suzuki, and H. Nomura, "Numerical simulation of artificial spin ice for reservoir computing", Applied Physics Express, 14, 3, 033001 (2021)　10.35848/1882-0786/abdcd8
9. M. Goto, Y. Yamada, A. Shimura, T. Suzuki, N. Degawa, T. Yamane, S. Aoki, J. Urabe, S. Hara, H. Nomura, and Y. Suzuki, "Uncooled sub-GHz spin bolometer driven by auto-oscillation", Nature Communications, 12, 536 (2021) 10.1038/s41467-020-20631-0
10. Y. Tanaka, M. Goto, A. K. Shukla, K. Yoshikawa, H. Nomura, S. Miwa, S. Tomishima, and Y. Suzuki, "Physically Unclonable Functions with Voltage-Controlled Magnetic Tunnel Junctions", IEEE Transactions on Magnetics, 57, 3400806 (2021)　10.1109/TMAG.2020.3042715
11. T. N. Anh Nguyen, Q. N. Pham, D. D. Lam, K. T. Do, T. H. Nguyen, H. K. Vu, D. L.

Vu, M. Goto, M. Fukumoto, T. Watakabe, R. Okuno, S. Hasebe, H. Tomita, Y. Suzuki, H. Kubota, A. Fukushima, and K. Yakushiji, "Low frequency 1/f noise in deep submicron-sized magnetic tunnel junctions", Journal of Applied Physics, 129, 024503 (2020) 10.1063/5.0013789

12. J. Cho, E. Tamura, C. Liu, S. Miki, C.-Y. You, J.-S. Kim, H. Nomura, M. Goto, R. Nakatani and Y. Suzuki, "Manipulating 1-dimensional skyrmion motion by the external magnetic field gradient", New Journal of Physics, 22, 103053 (2020) 10.1088/1367-2630/abbead
13. S. Kobayashi, Y. Matsuzaki, H. Morishita, S. Miwa, Y. Suzuki, M. Fujiwara,and N. Mizuochi, "Electrical Control for Extending the Ramsey Spin Coherence Time ofIon-Implanted Nitrogen-Vacancy Centers in Diamond", Physical Review Applied, 14,044033 (2020) 10.1103/PhysRevApplied.14.044033
14. F. Bonell, M. Goto, G. Sauthier, J. F. Sierra, A. I. Figueroa, M. V. Costache, S. Miwa, Y. Suzuki, and S. O. Valenzuela, "Control of Spin − Orbit Torques by Interface Engineering in Topological Insulator Heterostructures", Nano Letters, 20, 5893 (2020) 10.1021/acs.nanolett.0c01850
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16. H. Koike, S. Lee, R. Ohshima, E. Shigematsu, M. Goto, S. Miwa, Y. Suzuki, T. Sasaki, Y. Ando, and M. Shiraishi, "Over 1% magnetoresistance ratio at room temperature in non-degenerate silicon-based lateral spin valves", Applied Physics Express, 13(8), 083002(2020) 10.35848/1882-0786/aba22c
17. Y. Jibiki, M. Goto, E. Tamura, J. Cho, S. Miki, R. Ishikawa, H. Nomura, T. Srivastava, W. Lim, S. Auffret, C. Baraduc, H. Bea, and Y. Suzuki, "Skyrmion Brownian circuit implemented in continuous ferromagnetic thin film", Applied Physics Letters 117, 082402 (2020) 10.1063/5.0011105
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23. S. Lee, F. Rortais, R. Ohshima, Y. Ando, M. Goto, S. Miwa, Y. Suzuki, H. Koike, M. Shiraishi, "Investigation of gating effect in Si spin MOSFET", Applied Physics Letters, 116(2), 022403(2020) 10.1063/1.5131823
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27. H. Nomura, K. Tsujimoto, M. Goto, N. Samura, R. Nakatani, Y. Suzuki, "Reservoir computing with two-bit input task using dipole-coupled nanomagnet array ", Japanese Journal of Applied Physics, 59, SEEG02, (2019) 10.7567/1347-4065/ab2406
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update procedure for dipole-coupled magnetic reservoir computing with voltage control of the magnetism", Journal of Physics D: Applied Physics, 53, 094001, (2019) 10.1088/1361-6463/ab5a27

29. 野村　光、鈴木義茂、久保田　均、”強磁性トンネル接合を用いた集積型リザーバー計算モジュールの提案", 電気学会誌, 一般社団法人電気学会, vol. 139, No. 10, pp674-678, 2019/10/1 10.1541/ieejjournal.139.674
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33. J. Suwardy, M. Goto, Y. Suzuki, and S. Miwa, "Voltage-controlled magnetic anisotropy and Dzyaloshinskii–Moriya interactions in CoNi/MgO and CoNi/Pd/MgO", Japanese Journal of Applied Physics, 58, 060917(2019) 10.7567/1347-4065/ab21a6
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