

Publications 2024

Christensen, D. V.; ...; Hug, H. J.; Mandru, A.-O.; et al.. *2024 Roadmap on Magnetic Microscopy Techniques and Their Applications in Materials Science*. *J. Phys. Mater.*, <https://doi.org/10.1088/2515-7639/ad31b5>

Pan, F., Altenried, S., Scheibler, S., & Ren, Q. (2024). *A rapid and specific antimicrobial resistance detection of Escherichia coli via magnetic nanoclusters*. *Nanoscale*, 16(6), 3011-3023.
<https://doi.org/10.1039/d3nr05463b>

Sarıtaş, S., Çiçek, M. M., Kavak, E., Gurpinar, K., Yıldırım, O., Yuce, S., ... Emre, B. (2024). *Tuning of the magneto-caloric effects in Ni₄₃Mn₄₆In₁₁ magnetic shape memory alloys by substitution of boron*. *Journal of Physics: Condensed Matter*, 36(7), 075801 (11 pp.). <https://doi.org/10.1088/1361-648X/ad0a13>

Barough, V., Jamilpanah, L., Zare, M., Ghanaatshoar, M., & Mohseni, S. M. (2024). *Skin-effect-mediated magnetointionic control of charge transport in thick layers*. *Scientific Reports*, 14(1), 3332 (7 pp.).
<https://doi.org/10.1038/s41598-024-53970-9>

Zare, M., Jamilpanah, L., Sadeghi, A., Ghanaatshoar, M., & Mohseni, M. (2024). *Enhancing magnetointerface impedance response by anisotropic surface-charge accumulation*. *Journal of Magnetism and Magnetic Materials*, 593, 171838 (8 pp.). <https://doi.org/10.1016/j.jmmm.2024.171838>

Zare, M., Jamilpanah, L., Barough, V., Sadeghi, A., Ghanaatshoar, M., & Mohseni, M. (2024). *Role of electrospun fibers coated on magnetointerface effect of Co-based ribbons*. *Applied Physics A: Materials Science and Processing*, 130(2), 90 (8 pp.). <https://doi.org/10.1007/s00339-023-07236-2>

Emre, B., Yuce, S., Kavak, E., Saritas, S., Cicek, M. M., Yıldırım, O., ... Fabbrici, S. (2024). *Revealing contrary contributions of the magnetic and lattice entropy to the inverse magnetocaloric effect in magnetic shape memory alloy*. *Journal of Applied Physics*, 135(21), 213901 (9 pp.). <https://doi.org/10.1063/5.0205388>

Raimondo, E., Darwin, E., Rodrigues, D., Giordano, A., Carpentieri, M., Finocchio, G., & Tomasello, R. (2024). *Micromagnetic study of the frequency response of skyrmions in magnetic multilayers*. In *Proceedings of the IEEE conference on nanotechnology. 24th IEEE international conference on nanotechnology, NANO 2024* (pp. 191-195). <https://doi.org/10.1109/NANO61778.2024.10628854>

Rothhardt, D., Kimouche, A., Klamroth, T., & Hoffmann-Vogel, R. (2024). *Local work function on graphene nanoribbons*. *Beilstein Journal of Nanotechnology*, 15, 1125-1131.

<https://doi.org/10.3762/BJNANO.15.91>