Attachment 1 - Publications

ADC_1 (V3_1): Varga M., Galdun L., Kunca B., Vega V., García J., Prida V.M., Barriga-Castro E.D., Luna C., Diko P., Saksl K., Varga R.

FORC and TFORC analysis of electrodeposited magnetic shape memory nanowires array

Journal of Alloys and Compounds, Volume 897, 2022, 163211, ISSN 0925-8388,

DOI: 10.1016/j.jallcom.2021.163211

2022: IF = 6.2

Citations- Scopus (auto-citations excluded): 4

Chen, Z., Kang, S., Zhu, Q., Zhang, K., "Relationship between annealing temperature and structure and magnetic properties of electrodeposited FeNi nanowire arrays", (2022) Gongneng Cailiao/Journal of Functional Materials, 53 (5), , 2022, 05193-05198, DOI: 10.3969/j.issn.1001-9731.2022.05.025

Fan, S., Zhou, C., Xu, H., Xu, J., Wen, H.-M., Xiao, J.Q., Hu, J., A novel strategy to improve giant magnetoresistance effect of Co/Cu multilayered nanowires arrays", Journal of Alloys and Compounds, 910, 2022, 164729, DOI: 10.1016/j.jallcom.2022.164729

Ruiz-Gómez, S., Fernández-González, C., Perez, L., "Electrodeposition as a Tool for Nanostructuring Magnetic Materials", Micromachines, 13 (8), 2022, 1223, DOI: 10.3390/mi13081223

Noori, F., Almasi Kashi, M., Montazer, A.H., "Current density-induced emergence of soft and hard magnetic phases in Fe nanowire arrays", Nanotechnology, 34 (7), 2023, 075701, DOI: 10.1088/1361-6528/aca0f9

ADC_2 (V3_2): Galdun L., Vidyasagar R., Hennel M., Varga M., Ryba T., Nulandaya L., Milkovič O., Reiffers M., Kravčák J., Vargova Z., Varga R.

Fe-Mn-Ga shape memory glass-coated microwire with sensing possibilities

Journal of Physics D: Applied Physics, 55 (4), 2022, 045303, ISSN 0022-3727,

DOI: 10.1088/1361-6463/ac2f6b

2022: IF = 3.4

Citations- Scopus (auto-citations excluded): 1

Zhou, X.C., Lin, W.Y., Yang, F.B., Zhou, X.D., Shen, J., Huang, J.P., "Effective medium theory with hybrid impacts of phase symmetry and asymmetry for analyzing phase transition behavior, EPL, 141 (1), 2023, 16001, DOI: 10.1209/0295-5075/acabe1

ADC_3 (V3_3): Hennel M., Varga M., Frolova L., Nalevanko S., Ibarra-Gaytán P., Vidyasagar R., Sarkar P., Dzubinska A., Galdun L., Ryba T., Vargova Z., Varga R.

Heusler-Based Cylindrical Micro- and Nanowires

Physica Status Solidi (A) Applications and Materials Science, 2022, ISSN 1862-6300

DOI: 10.1002/pssa.202100657

2022: IF = 2.0

Citations - Scopus (auto-citations excluded): 4

Salaheldeen, M., Garcia-Gomez, A., Corte-Leon, P., Gonzalez, A., Ipatov, M., Zhukova, V., Gonzalez, J., Anton, R.L., Zhukov, A. "Manipulation of magnetic and structure properties of Ni2FeSi glass-coated microwires by annealing", Journal of Alloys and Compounds, 942, 2023, 169026, DOI: 10.1016/j.jallcom.2023.169026

Kundrat, V., Vykoukal, V., Moravec, Z., Kral, Z., Machac, P., Simonikova, L., Pinkas, J., "Multigram preparation of tungsten microfibers via needle-less electrospinning of phosphotungstic acid", International Journal of Refractory Metals and Hard Materials, 112, 2023, 106121, DOI: 10.1016/j.ijrmhm.2023.106121

Salaheldeen, M., Wederni, A., Ipatov, M., Gonzalez, J., Zhukova, V., Zhukov, A., "Elucidation of the Strong Effect of the Annealing and the Magnetic Field on the Magnetic Properties of Ni2-Based Heusler Microwires", Crystals, 12 (12), 2022, 1755, DOI: 10.3390/cryst12121755

Takhsha Ghahfarokhi, M., Celegato, F., Barrera, G., Casoli, F., Tiberto, P., Albertini, F. "Dewetting Process in Ni-Mn-Ga Shape-Memory Heusler: Effects on Morphology, Stoichiometry and Magnetic Properties", Crystals, 12 (12), 2022, 1826, DOI: 10.3390/cryst12121826

ADC_4 (V3_4): Sarkar P., Nulandaya L., Varga M., Dzubinska A., Milkovic O., Reiffers M., Varga R.

Detection of Structural Phase Transition in SMART Microwires Using Magneto-Impedance Sensing

Journal of Magnetism and Magnetic Materials, Volume 556, 2022, 169394, 2022, 169394, ISSN 0304-8853

DOI: 10.1016/j.jmmm.2022.169394

2021: IF = 2.7

Citations- Scopus (auto-citations excluded): 1

Gao, J., Ding, Z., Ma, L., Zhu, J., "Response of the magneto-impedance to the martensitic transformation of the Ni46Mn22Ga24Co4Cu4 shape memory microwire" Journal of Magnetism and Magnetic Materials, 565, 2023, 170225, DOI: 10.1016/j.jmmm.2022.170225

ADC_5 (V3_5): Vidyasagar R., Hennel M., Varga M., Ryba T., Galdun L., Sucik G., Reiffers M., Varga R.

Structural, thermo-electric, and thermo-magnetic characteristics of non-stoichiometric L21-type $Fe_{43}Mn_{29}Si_{28}$ Heusler structures

Journal of Physics and Chemistry of Solids, Volume 174, 2023, 111185, ISSN: 00223697

2022: IF = 4.0

ADC_6 (V3_6): Arreguín-Hernández, M.L., Varga, M., Hennel, M., Dzubinska, A., Ryba, T., Reiffers, M., Diko, P., Llamazares, J.L.S., Varga, R.

Structural, magnetic, and magnetocaloric characterization of NiMnSn microwires prepared by Taylor-Ulitovsky technique

AIP Advances, Volume 13, 2023, 025101, ISSN: 21583226

2022: IF = 1.6

ADC_7 (V3_7): Varga, M., Galdun, L., Diko, P., Saksl, K., Varga, R.

Analysis of magnetocaloric effect in parallel Ni-Mn-Ga Heusler alloy nanowires

Journal of Alloys and Compounds, Volume 944, 2023, 169196, ISSN: 09258388

DOI: 10.1016/j.jallcom.2023.169196

2022: IF = 6.2

ADC_8 (V3_8): Arreguin-Hernandez M.L., Varga, M., Dzubinska A., Reiffers M., Ryba T., Sánchez Llamazares J.L., Varga, R.

Fabrication, Structural and Magnetic Characterization of Ni41.7Mn47.7Sn10.6 Glass-coated Microwires

IEEE Transactions on Magnetics, 2023, ISSN: 0018-9464

DOI: 10.1109/TMAG.2023.3293454

2022: IF = 2.1, Q3 – JCR, Q2 – SJR