MÃ¡ria FÃ¡berovÃ¡

List of Publications by Year
in descending order

73 papers	1,177 citations	331670 21 h-index	395702 33 g-index
74 all docs	74 docs citations	74 times ranked	588 citing authors

#	Article	IF	Citations
1	Magnetic properties of soft magnetic Fe@SiO2/ferrite composites prepared by wet/dry method. Journal of Magnetism and Magnetic Materials, 2022, 543, 168640.	2.3	22
2	Eco-friendly soft magnetic composites of iron coated by sintered ferrite via mechanofusion. Journal of Magnetism and Magnetic Materials, 2022, 543, 168627.	2.3	14
3	Energy loss separation in NiFeMo compacts with smoothed powders according to Landgrafâ€™s and Bertottiâ€™s theories. Journal of Materials Science, 2021, 56, 12835-12844.	3.7	7
4	Barkhausen noise emission in Fe-resin soft magnetic composites. Journal of Magnetism and Magnetic Materials, 2021, 525, 167683.	2.3	5
5	Fabrication of a glycerol-citrate polymer coated tricalcium phosphate bone cements: Structural investigation and material properties. Journal of Polymer Research, 2021, 28, 1.	2.4	2
6	Analysis of Magnetic Properties of Iron-Resin-Ferrite Soft Magnetic Composite Materials. Acta Physica Polonica A, 2021, 140, 64-71.	0.5	0
7	Impact of particles surface smoothing on DC permeability of NiFeMo soft magnetic powder compacts. Journal of Magnetism and Magnetic Materials, 2021, 538, 168298.	2.3	1
8	Influence of inner demagnetizing field on energy loss in nifemo compacted powder. AIP Conference Proceedings, 2021, , .	0.4	1
9	Iron Based Soft Magnetic Composite Material Prepared By Injection Molding. Powder Metallurgy Progress, 2021, 21, 10-17.	0.1	0
10	Influence of the Ferromagnetic Component on the Magnetic Properties of Polymer-Matrix Soft Magnetic Composites. Powder Metallurgy Progress, 2021, 21, 1-9.	0.1	0
11	Preparation and magnetic properties of NiFeMo powdered compacts of powder elements with smoothed surfaces. Journal of Magnetism and Magnetic Materials, 2020, 494, 165770.	2.3	14
12	Novel hardystonite calcium phosphate mixture as a potential cementitious bone filling material. Journal of the European Ceramic Society, 2020, 40, 4909-4922.	5.7	1
13	Preparation and characterization of iron-based soft magnetic composites with resin bonded nano-ferrite insulation. Journal of Alloys and Compounds, 2020, 828, 154416.	5.5	30
14	Magnetic properties of selected Fe-based soft magnetic composites interpreted in terms of Jiles-Atherton model parameters. Journal of Magnetism and Magnetic Materials, 2020, 502, 166514.	2.3	25
15	Anhysteretic Magnetization for NiFeMo Soft Magnetic Compacted Powder. Acta Physica Polonica A, 2020, 137, 889-891.	0.5	0
16	Preparation and Characterization of Fe Based Soft Magnetic Composites Coated by SiO₂ Layer Prepared by StÃ¶ber Method. Acta Physica Polonica A, 2020, 137, 872-875.	0.5	3
17	Irreversible Permeability of Fe-Based Soft Magnetic Composites. Acta Physica Polonica A, 2020, 137, 843-845.	0.5	2
18	Influence of Ferrite and Resin Content on Inner Demagnetizing Fields of Fe-Based Composite Materials with Ferrite-Resin Insulation. Acta Physica Polonica A, 2020, 137, 846-848.	0.5	4

#	Article	IF	Citations
19	Characterization of Structure and Magnetic Properties of Warm Compacted Ni-Fe-Mo Soft Magnetic Alloy. Acta Physica Polonica A, 2020, 137, 876-878.	0.5	1
20	Study of Reversible and Irreversible Magnetization Processes Proportions of Fe-MgO Soft Magnetic Composites. Acta Physica Polonica A, 2020, 137, 879-881.	0.5	2
21	Calcium Phosphate Cement Modified with Silicon Nitride/Tricalcium Phosphate Microgranules. Powder Metallurgy Progress, 2020, 20, 56-75.	0.1	0
22	Functional Properties and Microstructure Development of Micro-Nano Fe/MgO Composite. Acta Physica Polonica A, 2020, 137, 283-288.	0.5	2
23	Magnetic properties of Fe-based soft magnetic composite with insulation coating by resin bonded Ni-Zn ferrite nanofibres. Journal of Magnetism and Magnetic Materials, 2019, 485, 1-7.	2.3	37
24	Reversible and irreversible magnetization processes along DC hysteresis loops of Fe-based composite materials. Journal of Magnetism and Magnetic Materials, 2019, 483, 183-190.	2.3	14
25	Analysis of Magnetic Losses and Complex Permeability in Novel Soft Magnetic Composite With Ferrite Nanofibers. IEEE Transactions on Magnetics, 2018, 54, 1-6.	2.1	22
26	Innovative ferrite nanofibres reinforced soft magnetic composite with enhanced electrical resistivity. Journal of Alloys and Compounds, 2018, 753, 219-227.	5.5	52
27	Irreversible permeability and DC losses relationship for selected soft magnetic materials. Journal Physics D: Applied Physics, 2018, 51, 395002.	2.8	9
28	Microstructure and Mechanical Properties of Fe/MgO Micro-Nano Composite for Electrotechnical Applications. Powder Metallurgy Progress, 2018, 18, 103-110.	0.1	0
29	Properties of CaOâ€“SiO 2 â€“P 2 O 5 reinforced calcium phosphate cements and in vitro osteoblast response. Biomedical Materials (Bristol), 2017, 12, 025002.	3.3	4
30	Advances in Powder Metallurgy Soft Magnetic Composite Materials. Archives of Metallurgy and Materials, 2017, 62, 1149-1154.	0.6	12
31	A comprehensive complex permeability approach to soft magnetic bulk cores from pure or resin coated Fe and pulverized alloys at elevated temperatures. Journal of Alloys and Compounds, 2017, 695, 1998-2007.	5.5	26
32	Steinmetz law for ac magnetized iron-phenolformaldehyde resin soft magnetic composites. Journal of Magnetism and Magnetic Materials, 2017, 424, 245-250.	2.3	45
33	Analytical expression for initial magnetization curve of Fe-based soft magnetic composite material. Journal of Magnetism and Magnetic Materials, 2017, 423, 140-144.	2.3	13
34	Interplay of domain walls and magnetization rotation on dynamic magnetization process in iron/polymerâ€“matrix soft magnetic composites. Journal of Magnetism and Magnetic Materials, 2017, 426, 320-327.	2.3	37
35	Energy Losses in Composite Materials Based on Two Ferromagnets. IEEE Transactions on Magnetics, 2017, 53, 1-6.	2.1	8
36	Investigation of Magnetization Processes from the Energy Losses in Soft Magnetic Composite Materials. Acta Physica Polonica A, 2017, 131, 684-686.	0.5	3

#	Article	IF	Citations
37	Imaging of Magnetic Domain Structure in FeSi/Mn_{0.8}Zn_{0.2}Fe_2O_4 Composite using Magnetic Force Microscopy. Acta Physica Polonica A, 2017, 131, 714-716.	0.5	2
38	FeSiBAlNiMo High Entropy Alloy Prepared by Mechanical Alloying. Acta Physica Polonica A, 2017, 131, 771-773.	0.5	5
39	Microwave Sintered Fe/MgO Soft Magnetic Composite. Acta Physica Polonica A, 2017, 131, 780-782.	0.5	5
40	DC Magnetic Properties and Complex Permeability of Ni-Fe Based Composites. Acta Physica Polonica A, 2017, 131, 792-794.	0.5	2
41	Influence of Vitrovac Content on Magnetic Properties in Composite Materials Based on the Mixture of Two Ferromagnets. Acta Physica Polonica A, 2017, 131, 765-767.	0.5	1
42	The Influence of NiZnFe_2O_4 Content on Magnetic Properties of Supermalloy Type Material. Acta Physica Polonica A, 2017, 131, 813-815.	0.5	3
43	Magnetic Properties of Sintered Fe_{50}Co_{50} Powder Cores. Acta Physica Polonica A, 2017, 131, 807-809.	0.5	2
44	The Preparation of Soft Magnetic Composites Based on FeSi and Ferrite Fibers. Powder Metallurgy Progress, 2016, 16, 107-116.	0.1	2
45	Effect of phase composition of calcium silicate phosphate component on properties of brushite based composite cements. Materials Characterization, 2016, 117, 17-29.	4.4	17
46	A Novel Composite Material Designed from FeSi Powder and Mn_{0.8}Zn_{0.2}Fe₂O₄Ferrite. Advances in Materials Science and Engineering, 2015, 2015, 1-8.	1.8	6
47	A comparison of soft magnetic composites designed from different ferromagnetic powders and phenolic resins. Chinese Journal of Chemical Engineering, 2015, 23, 736-743.	3.5	37
48	Reversible and irreversible DC magnetization processes in the frame of magnetic, thermal and electrical properties of Fe-based composite materials. Journal of Alloys and Compounds, 2015, 645, 283-289.	5.5	31
49	Chemical synthesis of nickel ferrite spinel designed as an insulating bilayer coating on ferromagnetic particles. Surface and Coatings Technology, 2015, 270, 66-76.	4.8	17
50	Dependence of demagnetizing fields in Fe-based composite materials on magnetic particle size and the resin content. Journal of Magnetism and Magnetic Materials, 2015, 388, 76-81.	2.3	39
51	Influence of the Resin Content on the Dynamic Energy Losses in Ironâ€“Phenolphormaldehyde Resin Composites. IEEE Transactions on Magnetics, 2014, 50, 1-7.	2.1	16
52	Magnetic Properties of Soft Magnetic FeSi Composite Powder Cores. Acta Physica Polonica A, 2014, 126, 144-145.	0.5	9
53	Structure and Properties of Composites Based on Mixed Morphology of Ferromagnetic Particles. Acta Physica Polonica A, 2014, 126, 140-141.	0.5	2
54	MÃ¶ssbauer and Magnetic Study of Fe+Vitroperm+Plastic System. Acta Physica Polonica A, 2014, 126, 148-149.	0.5	0

#	Article	IF	Citations
55	Influence of Vitroperm Content on the Energy Losses in Composite Materials Based on the Mixture of Two Ferromagnets. Acta Physica Polonica A, 2014, 126, 114-115.	0.5	3
56	Steinmetz law in ironâ€“phenolformaldehyde resin soft magnetic composites. Journal of Magnetism and Magnetic Materials, 2014, 353, 65-70.	2.3	30
57	A comprehensive study of soft magnetic materials based on FeSi spheres and polymeric resin modified by silica nanorods. Materials Chemistry and Physics, 2014, 147, 649-660.	4.0	43
58	Thermoplastic polybutadiene-based polyurethane/carbon nanofiber composites. Composites Part B: Engineering, 2014, 67, 434-440.	12.0	22
59	Characterization of composite materials based on Fe powder (core) and phenolâ€“formaldehyde resin (shell) modified with nanometer-sized SiO2. Bulletin of Materials Science, 2014, 37, 167-177.	1.7	31
60	Complex permeability and core loss of soft magnetic Fe-based nanocrystalline powder cores. Journal of Magnetism and Magnetic Materials, 2013, 345, 77-81.	2.3	52
61	Power loss separation in Fe-based composite materials. Journal of Magnetism and Magnetic Materials, 2013, 327, 146-150.	2.3	202
62	Design of novel soft magnetic composites based on Fe/resin modified with silica. Materials Letters, 2013, 101, 37-40.	2.6	54
63	Contribution to Characterization of Vitroperm Based Composites. AASRI Procedia, 2012, 3, 667-673.	0.6	0
64	Conservation and divergence between cytoplasmic and muscle-specific actin capping proteins: insights from the crystal structure of cytoplasmic Cap32/34 from Dictyostelium discoideum. BMC Structural Biology, 2012, 12, 12.	2.3	2
65	Preparation, chemical and mechanical properties of microcomposite materials based on Fe powder and phenol-formaldehyde resin. Chemical Engineering Journal, 2012, 180, 343-353.	12.7	30
66	Analysis of the Complex Permeability Versus Frequency of Soft Magnetic Composites Consisting of Iron and ${m Fe}_{73}{m Cu}_{1}{m Nb}_{3}{m Si}_{16}{m B}_{7}$. IEEE Transactions on Magnetics, 2012, 48, 1545-1548.	2.1	39
67	AC Magnetic Properties of Fe-Based Composite Materials. IEEE Transactions on Magnetics, 2010, 46, 467-470.	2.1	38
68	Wide Frequency Range AC Magnetic Properties of Fe-Based Composite Materials. Acta Physica Polonica A, 2010, 118, 759-761.	0.5	8
69	AC Magnetic Properties of Vitroperm Based Composite Materials. Acta Physica Polonica A, 2010, 118, 787-789.	0.5	4
70	The structure and properties of the PM material Vanadis 30 with surface treatment. Journal of Materials Science, 2005, 40, 4889-4891.	3.7	4
71	Quantification of Carbide Distribution in PM Tool Steels with Niob Addition. Key Engineering Materials, 0, 465, 310-313.	0.4	1
72	Fe/MgO Powder Composite Sintered by Microwave Heating. , 0, , .		0

#	Article	IF	Citations
73	Microwave Annealing of Powder Metals without Sintering. , 0, , .		0