

# Mãria Fãberovã

## List of Publications by Year in descending order

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73  
papers

1,177  
citations

331670

21  
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395702

33  
g-index

74  
all docs

74  
docs citations

74  
times ranked

588  
citing authors

#	ARTICLE	IF	CITATIONS
1	Power loss separation in Fe-based composite materials. Journal of Magnetism and Magnetic Materials, 2013, 327, 146-150.	2.3	202
2	Design of novel soft magnetic composites based on Fe/resin modified with silica. Materials Letters, 2013, 101, 37-40.	2.6	54
3	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
4	Innovative ferrite nanofibres reinforced soft magnetic composite with enhanced electrical resistivity. Journal of Alloys and Compounds, 2018, 753, 219-227.	5.5	52
5	Steinmetz law for ac magnetized iron-phenolformaldehyde resin soft magnetic composites. Journal of Magnetism and Magnetic Materials, 2017, 424, 245-250.	2.3	45
6	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
7	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
8	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
9	AC Magnetic Properties of Fe-Based Composite Materials. IEEE Transactions on Magnetics, 2010, 46, 467-470.	2.1	38
10	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
11	Interplay of domain walls and magnetization rotation on dynamic magnetization process in iron/polymer matrix soft magnetic composites. Journal of Magnetism and Magnetic Materials, 2017, 426, 320-327.	2.3	37
12	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
13	Characterization of composite materials based on Fe powder (core) and phenol-formaldehyde resin (shell) modified with nanometer-sized SiO <sub>2</sub> . Bulletin of Materials Science, 2014, 37, 167-177.	1.7	31
14	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
15	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
16	Steinmetz law in iron-phenolformaldehyde resin soft magnetic composites. Journal of Magnetism and Magnetic Materials, 2014, 353, 65-70.	2.3	30
17	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
18	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

#	ARTICLE	IF	CITATIONS
19	Magnetic properties of selected Fe-based soft magnetic composites interpreted in terms of Jiles-Atherton model parameters. <i>Journal of Magnetism and Magnetic Materials</i> , 2020, 502, 166514.	2.3	25
20	Thermoplastic polybutadiene-based polyurethane/carbon nanofiber composites. <i>Composites Part B: Engineering</i> , 2014, 67, 434-440.	12.0	22
21	Analysis of Magnetic Losses and Complex Permeability in Novel Soft Magnetic Composite With Ferrite Nanofibers. <i>IEEE Transactions on Magnetics</i> , 2018, 54, 1-6.	2.1	22
22	Magnetic properties of soft magnetic Fe@SiO <sub>2</sub> /ferrite composites prepared by wet/dry method. <i>Journal of Magnetism and Magnetic Materials</i> , 2022, 543, 168640.	2.3	22
23	Chemical synthesis of nickel ferrite spinel designed as an insulating bilayer coating on ferromagnetic particles. <i>Surface and Coatings Technology</i> , 2015, 270, 66-76.	4.8	17
24	Effect of phase composition of calcium silicate phosphate component on properties of brushite based composite cements. <i>Materials Characterization</i> , 2016, 117, 17-29.	4.4	17
25	Influence of the Resin Content on the Dynamic Energy Losses in Iron-Phenolphormaldehyde Resin Composites. <i>IEEE Transactions on Magnetics</i> , 2014, 50, 1-7.	2.1	16
26	Reversible and irreversible magnetization processes along DC hysteresis loops of Fe-based composite materials. <i>Journal of Magnetism and Magnetic Materials</i> , 2019, 483, 183-190.	2.3	14
27	Preparation and magnetic properties of NiFeMo powdered compacts of powder elements with smoothed surfaces. <i>Journal of Magnetism and Magnetic Materials</i> , 2020, 494, 165770.	2.3	14
28	Eco-friendly soft magnetic composites of iron coated by sintered ferrite via mechanofusion. <i>Journal of Magnetism and Magnetic Materials</i> , 2022, 543, 168627.	2.3	14
29	Analytical expression for initial magnetization curve of Fe-based soft magnetic composite material. <i>Journal of Magnetism and Magnetic Materials</i> , 2017, 423, 140-144.	2.3	13
30	Advances in Powder Metallurgy Soft Magnetic Composite Materials. <i>Archives of Metallurgy and Materials</i> , 2017, 62, 1149-1154.	0.6	12
31	Magnetic Properties of Soft Magnetic FeSi Composite Powder Cores. <i>Acta Physica Polonica A</i> , 2014, 126, 144-145.	0.5	9
32	Irreversible permeability and DC losses relationship for selected soft magnetic materials. <i>Journal Physics D: Applied Physics</i> , 2018, 51, 395002.	2.8	9
33	Energy Losses in Composite Materials Based on Two Ferromagnets. <i>IEEE Transactions on Magnetics</i> , 2017, 53, 1-6.	2.1	8
34	Wide Frequency Range AC Magnetic Properties of Fe-Based Composite Materials. <i>Acta Physica Polonica A</i> , 2010, 118, 759-761.	0.5	8
35	Energy loss separation in NiFeMo compacts with smoothed powders according to Landgraf's and Bertotti's theories. <i>Journal of Materials Science</i> , 2021, 56, 12835-12844.	3.7	7
36	A Novel Composite Material Designed from FeSi Powder and Mn <sub>0.8</sub> Zn <sub>0.2</sub> Fe <sub>2</sub> O <sub>4</sub> Ferrite. <i>Advances in Materials Science and Engineering</i> , 2015, 2015, 1-8.	1.8	6

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37	Barkhausen noise emission in Fe-resin soft magnetic composites. <i>Journal of Magnetism and Magnetic Materials</i> , 2021, 525, 167683.	2.3	5
38	FeSiBAlNiMo High Entropy Alloy Prepared by Mechanical Alloying. <i>Acta Physica Polonica A</i> , 2017, 131, 771-773.	0.5	5
39	Microwave Sintered Fe/MgO Soft Magnetic Composite. <i>Acta Physica Polonica A</i> , 2017, 131, 780-782.	0.5	5
40	The structure and properties of the PM material Vanadis 30 with surface treatment. <i>Journal of Materials Science</i> , 2005, 40, 4889-4891.	3.7	4
41	Properties of CaO-SiO <sub>2</sub> -P <sub>2</sub> O <sub>5</sub> reinforced calcium phosphate cements and in vitro osteoblast response. <i>Biomedical Materials (Bristol)</i> , 2017, 12, 025002.	3.3	4
42	AC Magnetic Properties of Vitroperm Based Composite Materials. <i>Acta Physica Polonica A</i> , 2010, 118, 787-789.	0.5	4
43	Influence of Ferrite and Resin Content on Inner Demagnetizing Fields of Fe-Based Composite Materials with Ferrite-Resin Insulation. <i>Acta Physica Polonica A</i> , 2020, 137, 846-848.	0.5	4
44	Influence of Vitroperm Content on the Energy Losses in Composite Materials Based on the Mixture of Two Ferromagnets. <i>Acta Physica Polonica A</i> , 2014, 126, 114-115.	0.5	3
45	Investigation of Magnetization Processes from the Energy Losses in Soft Magnetic Composite Materials. <i>Acta Physica Polonica A</i> , 2017, 131, 684-686.	0.5	3
46	The Influence of NiZnFe <sub>20</sub> 4 Content on Magnetic Properties of Supermalloy Type Material. <i>Acta Physica Polonica A</i> , 2017, 131, 813-815.	0.5	3
47	Preparation and Characterization of Fe Based Soft Magnetic Composites Coated by SiO <sub>2</sub> Layer Prepared by Stober Method. <i>Acta Physica Polonica A</i> , 2020, 137, 872-875.	0.5	3
48	Conservation and divergence between cytoplasmic and muscle-specific actin capping proteins: insights from the crystal structure of cytoplasmic Cap32/34 from <i>Dictyostelium discoideum</i> . <i>BMC Structural Biology</i> , 2012, 12, 12.	2.3	2
49	Structure and Properties of Composites Based on Mixed Morphology of Ferromagnetic Particles. <i>Acta Physica Polonica A</i> , 2014, 126, 140-141.	0.5	2
50	The Preparation of Soft Magnetic Composites Based on FeSi and Ferrite Fibers. <i>Powder Metallurgy Progress</i> , 2016, 16, 107-116.	0.1	2
51	Fabrication of a glycerol-citrate polymer coated tricalcium phosphate bone cements: Structural investigation and material properties. <i>Journal of Polymer Research</i> , 2021, 28, 1.	2.4	2
52	Imaging of Magnetic Domain Structure in FeSi/Mn <sub>0.8</sub> Zn <sub>0.2</sub> Fe <sub>20</sub> 4 Composite using Magnetic Force Microscopy. <i>Acta Physica Polonica A</i> , 2017, 131, 714-716.	0.5	2
53	DC Magnetic Properties and Complex Permeability of Ni-Fe Based Composites. <i>Acta Physica Polonica A</i> , 2017, 131, 792-794.	0.5	2
54	Magnetic Properties of Sintered Fe <sub>50</sub> Co <sub>50</sub> Powder Cores. <i>Acta Physica Polonica A</i> , 2017, 131, 807-809.	0.5	2

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55	Irreversible Permeability of Fe-Based Soft Magnetic Composites. Acta Physica Polonica A, 2020, 137, 843-845.	0.5	2
56	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
57	Functional Properties and Microstructure Development of Micro-Nano Fe/MgO Composite. Acta Physica Polonica A, 2020, 137, 283-288.	0.5	2
58	Quantification of Carbide Distribution in PM Tool Steels with Niob Addition. Key Engineering Materials, 0, 465, 310-313.	0.4	1
59	Novel hardstonite calcium phosphate mixture as a potential cementitious bone filling material. Journal of the European Ceramic Society, 2020, 40, 4909-4922.	5.7	1
60	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
61	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
62	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
63	Influence of inner demagnetizing field on energy loss in nifemo compacted powder. AIP Conference Proceedings, 2021, , .	0.4	1
64	Contribution to Characterization of Vitroperm Based Composites. AASRI Procedia, 2012, 3, 667-673.	0.6	0
65	Mössbauer and Magnetic Study of Fe+Vitroperm+Plastic System. Acta Physica Polonica A, 2014, 126, 148-149.	0.5	0
66	Analysis of Magnetic Properties of Iron-Resin-Ferrite Soft Magnetic Composite Materials. Acta Physica Polonica A, 2021, 140, 64-71.	0.5	0
67	Microstructure and Mechanical Properties of Fe/MgO Micro-Nano Composite for Electrotechnical Applications. Powder Metallurgy Progress, 2018, 18, 103-110.	0.1	0
68	Fe/MgO Powder Composite Sintered by Microwave Heating. , 0, , .		0
69	Microwave Annealing of Powder Metals without Sintering. , 0, , .		0
70	Anhyseretic Magnetization for NiFeMo Soft Magnetic Compacted Powder. Acta Physica Polonica A, 2020, 137, 889-891.	0.5	0
71	Calcium Phosphate Cement Modified with Silicon Nitride/Tricalcium Phosphate Microgranules. Powder Metallurgy Progress, 2020, 20, 56-75.	0.1	0
72	Iron Based Soft Magnetic Composite Material Prepared By Injection Molding. Powder Metallurgy Progress, 2021, 21, 10-17.	0.1	0

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73	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