

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/7577053/publications.pdf>

Version: 2024-02-01

86  
papers

1,451  
citations

304368

22  
h-index

360668

35  
g-index

88  
all docs

88  
docs citations

88  
times ranked

752  
citing authors

#	ARTICLE	IF	CITATIONS
1	Power loss separation in Fe-based composite materials. Journal of Magnetism and Magnetic Materials, 2013, 327, 146-150.	1.0	202
2	Magnetic properties and loss separation in FeSi/MnZnFe <sub>2</sub> O <sub>4</sub> soft magnetic composites. Journal of Magnetism and Magnetic Materials, 2016, 411, 12-17.	1.0	90
3	Design of novel soft magnetic composites based on Fe/resin modified with silica. Materials Letters, 2013, 101, 37-40.	1.3	54
4	Complex permeability and core loss of soft magnetic Fe-based nanocrystalline powder cores. Journal of Magnetism and Magnetic Materials, 2013, 345, 77-81.	1.0	52
5	Innovative ferrite nanofibres reinforced soft magnetic composite with enhanced electrical resistivity. Journal of Alloys and Compounds, 2018, 753, 219-227.	2.8	52
6	Steinmetz law for ac magnetized iron-phenolformaldehyde resin soft magnetic composites. Journal of Magnetism and Magnetic Materials, 2017, 424, 245-250.	1.0	45
7	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.	2.0	43
8	Analysis of the Complex Permeability Versus Frequency of Soft Magnetic Composites Consisting of Iron and $\text{Fe}_{73}\text{Cu}_1\text{Nb}_3\text{Si}_{16}\text{B}_7$ . IEEE Transactions on Magnetics, 2012, 48, 1545-1548.	1.2	39
9	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.	1.0	39
10	AC Magnetic Properties of Fe-Based Composite Materials. IEEE Transactions on Magnetics, 2010, 46, 467-470.	1.2	38
11	A comparison of soft magnetic composites designed from different ferromagnetic powders and phenolic resins. Chinese Journal of Chemical Engineering, 2015, 23, 736-743.	1.7	37
12	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.	1.0	37
13	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.	1.0	37
14	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.	0.8	31
15	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.	2.8	31
16	Preparation, chemical and mechanical properties of microcomposite materials based on Fe powder and phenol-formaldehyde resin. Chemical Engineering Journal, 2012, 180, 343-353.	6.6	30
17	Steinmetz law in iron-phenolformaldehyde resin soft magnetic composites. Journal of Magnetism and Magnetic Materials, 2014, 353, 65-70.	1.0	30
18	Preparation and characterization of iron-based soft magnetic composites with resin bonded nano-ferrite insulation. Journal of Alloys and Compounds, 2020, 828, 154416.	2.8	30

#	ARTICLE	IF	CITATIONS
19	A comprehensive complex permeability approach to soft magnetic bulk cores from pure or resin coated Fe and pulverized alloys at elevated temperatures. <i>Journal of Alloys and Compounds</i> , 2017, 695, 1998-2007.	2.8	26
20	Polyhydroxybutyrate/Chitosan 3D Scaffolds Promote In Vitro and In Vivo Chondrogenesis. <i>Applied Biochemistry and Biotechnology</i> , 2019, 189, 556-575.	1.4	26
21	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.	1.0	25
22	Selective room-temperature leaching of copper from mechanically activated copper smelter slag. <i>Journal of Materials Research and Technology</i> , 2021, 12, 2011-2025.	2.6	25
23	Mechanochemistry as an Alternative Method of Green Synthesis of Silver Nanoparticles with Antibacterial Activity: A Comparative Study. <i>Nanomaterials</i> , 2021, 11, 1139.	1.9	23
24	Effect of Boron Addition on Microstructure and Properties of Sintered Fe-1.5Mo Powder Materials.. <i>ISIJ International</i> , 1997, 37, 59-64.	0.6	22
25	Thermoplastic polybutadiene-based polyurethane/carbon nanofiber composites. <i>Composites Part B: Engineering</i> , 2014, 67, 434-440.	5.9	22
26	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.	1.2	22
27	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.	1.0	22
28	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.	2.2	17
29	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.	1.2	16
30	Microstructure, fracture behaviour and mechanical properties of conductive alumina based composites manufactured by SPS from graphenated Al <sub>2</sub> O <sub>3</sub> powders. <i>Journal of the European Ceramic Society</i> , 2020, 40, 4818-4824.	2.8	16
31	Organic-inorganic nanocomposite films made from polyurethane dispersions and colloidal silica particles. <i>Composite Interfaces</i> , 2016, 23, 157-173.	1.3	15
32	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.	1.0	14
33	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.	1.0	14
34	Cobalt-induced structural modulation in multiferroic Aurivillius-phase oxides. <i>Journal of Materials Chemistry C</i> , 2020, 8, 8466-8483.	2.7	14
35	Eco-friendly soft magnetic composites of iron coated by sintered ferrite via mechanofusion. <i>Journal of Magnetism and Magnetic Materials</i> , 2022, 543, 168627.	1.0	14
36	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.	1.0	13

#	ARTICLE	IF	CITATIONS
37	Sustainable Synthesis of Cadmium Sulfide, with Applicability in Photocatalysis, Hydrogen Production, and as an Antibacterial Agent, Using Two Mechanochemical Protocols. <i>Nanomaterials</i> , 2022, 12, 1250.	1.9	13
38	Advances in Powder Metallurgy Soft Magnetic Composite Materials. <i>Archives of Metallurgy and Materials</i> , 2017, 62, 1149-1154.	0.6	12
39	Processing and characterization of fiber-reinforced and layered alumina - graphene composites. <i>Journal of the European Ceramic Society</i> , 2020, 40, 4808-4817.	2.8	10
40	Characterization of dusts from secondary copper production. <i>Journal of Mining and Metallurgy, Section B: Metallurgy</i> , 2020, 56, 221-228.	0.3	10
41	Irreversible permeability and DC losses relationship for selected soft magnetic materials. <i>Journal Physics D: Applied Physics</i> , 2018, 51, 395002.	1.3	9
42	Design of Permalloyâ€“ferriteâ€“polymer soft magnetic composites doped by ferrite nanoparticles and visualization of magnetic domains. <i>Bulletin of Materials Science</i> , 2020, 43, 1.	0.8	9
43	Energy Losses in Composite Materials Based on Two Ferromagnets. <i>IEEE Transactions on Magnetics</i> , 2017, 53, 1-6.	1.2	8
44	Sustainable One-Step Solid-State Synthesis of Antibacterially Active Silver Nanoparticles Using Mechanochemistry. <i>Nanomaterials</i> , 2020, 10, 2119.	1.9	8
45	Wide Frequency Range AC Magnetic Properties of Fe-Based Composite Materials. <i>Acta Physica Polonica A</i> , 2010, 118, 759-761.	0.2	8
46	Structural evaluation of brushite/gelatine coatings on graphite substrate. <i>Surface and Coatings Technology</i> , 2009, 203, 3754-3762.	2.2	7
47	Energy loss separation in NiFeMo compacts with smoothed powders according to Landgrafâ€™s and Bertottiâ€™s theories. <i>Journal of Materials Science</i> , 2021, 56, 12835-12844.	1.7	7
48	A Novel Composite Material Designed from FeSi Powder and $Mn_{0.8}Zn_{0.2}Fe_2O_4$ Ferrite. <i>Advances in Materials Science and Engineering</i> , 2015, 2015, 1-8.	1.0	6
49	Direct Vacuum Sintering Behaviour of M2 High Speed Steel Powder with Copper and Graphite Additions. <i>Powder Metallurgy</i> , 1994, 37, 206-211.	0.9	5
50	Barkhausen noise emission in Fe-resin soft magnetic composites. <i>Journal of Magnetism and Magnetic Materials</i> , 2021, 525, 167683.	1.0	5
51	Transfer layer evolution during friction in HIPIMS Wâ€“C coatings. <i>Wear</i> , 2021, 486-487, 204123.	1.5	5
52	FeSiBAlNiMo High Entropy Alloy Prepared by Mechanical Alloying. <i>Acta Physica Polonica A</i> , 2017, 131, 771-773.	0.2	5
53	Microwave Sintered Fe/MgO Soft Magnetic Composite. <i>Acta Physica Polonica A</i> , 2017, 131, 780-782.	0.2	5
54	AC Magnetic Properties of Vitroperm Based Composite Materials. <i>Acta Physica Polonica A</i> , 2010, 118, 787-789.	0.2	4

#	ARTICLE	IF	CITATIONS
55	Soft Magnetic and Mechanical Properties of FeNiCoSi <sub>0.25</sub> Al <sub>x</sub> (x = 0–1) High Entropy Alloys Prepared by Arc Melting. <i>Materials Transactions</i> , 2021, 62, 1597-1603.	0.4	4
56	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.	0.2	4
57	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.	0.2	3
58	Investigation of Magnetization Processes from the Energy Losses in Soft Magnetic Composite Materials. <i>Acta Physica Polonica A</i> , 2017, 131, 684-686.	0.2	3
59	The Influence of NiZnFe <sub>20</sub> 4 Content on Magnetic Properties of Superalloy Type Material. <i>Acta Physica Polonica A</i> , 2017, 131, 813-815.	0.2	3
60	The effect of humidity on friction behavior of hydrogenated HIPIMS W-C:H coatings. <i>Surface and Coatings Technology</i> , 2021, 428, 127899.	2.2	3
61	Modelling of tribo-chemical reactions in HiPIMS W-C:H coatings during friction in different environments. <i>Surface and Coatings Technology</i> , 2022, 434, 128238.	2.2	3
62	Tribochemistry of Transfer Layer Evolution during Friction in HiPIMS W-C and W-C:H Coatings in Humid Oxidizing and Dry Inert Atmospheres. <i>Coatings</i> , 2022, 12, 493.	1.2	3
63	Imaging of Magnetic Domains and Domain Walls in Spherical Fe-Si Powder Using Magnetic Force Microscopy. <i>Acta Physica Polonica A</i> , 2014, 126, 92-93.	0.2	2
64	Structure and Properties of Composites Based on Mixed Morphology of Ferromagnetic Particles. <i>Acta Physica Polonica A</i> , 2014, 126, 140-141.	0.2	2
65	The Preparation of Soft Magnetic Composites Based on FeSi and Ferrite Fibers. <i>Powder Metallurgy Progress</i> , 2016, 16, 107-116.	0.6	2
66	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.	0.2	2
67	DC Magnetic Properties and Complex Permeability of Ni-Fe Based Composites. <i>Acta Physica Polonica A</i> , 2017, 131, 792-794.	0.2	2
68	Magnetic Properties of Sintered Fe <sub>50</sub> Co <sub>50</sub> Powder Cores. <i>Acta Physica Polonica A</i> , 2017, 131, 807-809.	0.2	2
69	Irreversible Permeability of Fe-Based Soft Magnetic Composites. <i>Acta Physica Polonica A</i> , 2020, 137, 843-845.	0.2	2
70	Study of Reversible and Irreversible Magnetization Processes Proportions of Fe-MgO Soft Magnetic Composites. <i>Acta Physica Polonica A</i> , 2020, 137, 879-881.	0.2	2
71	Functional Properties and Microstructure Development of Micro-Nano Fe/MgO Composite. <i>Acta Physica Polonica A</i> , 2020, 137, 283-288.	0.2	2
72	Characterization of Tetracalcium Phosphate/Monetite Biocement Modified by Magnesium Pyrophosphate. <i>Materials</i> , 2022, 15, 2586.	1.3	2

#	ARTICLE	IF	CITATIONS
73	Quantification of Carbide Distribution in PM Tool Steels with Niob Addition. Key Engineering Materials, 0, 465, 310-313.	0.4	1
74	Impact of particles surface smoothing on DC permeability of NiFeMo soft magnetic powder compacts. Journal of Magnetism and Magnetic Materials, 2021, 538, 168298.	1.0	1
75	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.	0.2	1
76	Characterization of Structure and Magnetic Properties of Warm Compacted Ni-Fe-Mo Soft Magnetic Alloy. Acta Physica Polonica A, 2020, 137, 876-878.	0.2	1
77	Influence of inner demagnetizing field on energy loss in nifemo compacted powder. AIP Conference Proceedings, 2021, , .	0.3	1
78	Contribution to Characterization of Vitroperm Based Composites. AASRI Procedia, 2012, 3, 667-673.	0.6	0
79	Mössbauer and Magnetic Study of Fe+Vitroperm+Plastic System. Acta Physica Polonica A, 2014, 126, 148-149.	0.2	0
80	Analysis of Magnetic Properties of Iron-Resin-Ferrite Soft Magnetic Composite Materials. Acta Physica Polonica A, 2021, 140, 64-71.	0.2	0
81	Microstructure and Mechanical Properties of Fe/MgO Micro-Nano Composite for Electrotechnical Applications. Powder Metallurgy Progress, 2018, 18, 103-110.	0.6	0
82	Fe/MgO Powder Composite Sintered by Microwave Heating. , 0, , .		0
83	Microwave Annealing of Powder Metals without Sintering. , 0, , .		0
84	Anhysteretic Magnetization for NiFeMo Soft Magnetic Compacted Powder. Acta Physica Polonica A, 2020, 137, 889-891.	0.2	0
85	Iron Based Soft Magnetic Composite Material Prepared By Injection Molding. Powder Metallurgy Progress, 2021, 21, 10-17.	0.6	0
86	Influence of the Ferromagnetic Component on the Magnetic Properties of Polymer-Matrix Soft Magnetic Composites. Powder Metallurgy Progress, 2021, 21, 1-9.	0.6	0