Mihail Ipatov

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/8620945/publications.pdf

Version: 2024-02-01

282 papers	4,817 citations	108046 37 h-index	182931 54 g-index
290 all docs	290 docs citations	290 times ranked	1335 citing authors

#	Article	IF	Citations
1	Engineering of domain wall propagation in magnetic microwires with graded magnetic anisotropy. Applied Materials Today, 2022, 26, 101263.	2.3	13
2	Tuning the magnetic properties of NiPS₃ through organic-ion intercalation. Nanoscale, 2022, 14, 1165-1173.	2.8	14
3	Tuning of Magnetoimpedance Effect and Magnetic Properties of Fe-Rich Glass-Coated Microwires by Joule Heating. Sensors, 2022, 22, 1053.	2.1	4
4	Advanced functional magnetic microwires for magnetic sensors suitable for biomedical applications. , 2022, , 527-579.		7
5	Development of Magnetically Soft Amorphous Microwires for Technological Applications. Chemosensors, 2022, 10, 26.	1.8	18
6	Advanced functional magnetic microwires for technological applications. Journal Physics D: Applied Physics, 2022, 55, 253003.	1.3	31
7	Advanced Magnetic Microwires for Sensing Applications. , 2022, , .		0
8	Graded magnetic anisotropy in Co-rich microwires. AIP Advances, 2022, 12, .	0.6	1
9	Domain wall propagation in Fe-rich magnetic microwires with graded magnetic anisotropy. AIP Advances, 2022, 12, 035228.	0.6	0
10	Effect of Joule heating on GMI and magnetic properties of Fe-rich glass-coated microwires. AIP Advances, 2022, 12, .	0.6	3
11	Effect of particle size on grain growth of Nd-Fe-B powders produced by gas atomization. Materials Characterization, 2022, 187, 111824.	1.9	5
12	Development of Co-Rich Microwires with Graded Magnetic Anisotropy. Sensors, 2022, 22, 187.	2.1	6
13	Fabrication and Magneto-Structural Properties of Co2-Based Heusler Alloy Glass-Coated Microwires with High Curie Temperature. Chemosensors, 2022, 10, 225.	1.8	7
14	Engineering of magnetic properties and magnetoimpedance effect in Fe-rich microwires by reversible and irreversible stress-annealing anisotropy. Journal of Alloys and Compounds, 2021, 855, 157460.	2.8	29
15	Effect of neodymium content and niobium addition on grain growth of Nd-Fe-B powders produced by gas atomization. Materials Characterization, 2021, 172, 110844.	1.9	7
16	Tailoring of Magnetic Softness and Magnetoimpedance of Coâ€Rich Microwires by Stress Annealing. Physica Status Solidi (A) Applications and Materials Science, 2021, 218, 2100130.	0.8	12
17	Electronic Surveillance and Security Applications of Magnetic Microwires. Chemosensors, 2021, 9, 100.	1.8	21
18	Development of iron-rich microwires with a unique combination of magnetic properties. Scripta Materialia, 2021, 195, 113726.	2.6	5

#	Article	IF	Citations
19	Martensitic transformation, magnetic and magnetocaloric properties of Niâ€“Mnâ€“Feâ€“Sn Heusler ribbons. Journal of Materials Research and Technology, 2021, 12, 1091-1103.	2.6	18
20	Effect of Joule heating on giant magnetoimpedance effect and magnetic properties of Co-rich microwires. Journal of Alloys and Compounds, 2021, 883, 160778.	2.8	14
21	Magneto-Transport Properties of Coâ€“Cu Thin Films Obtained by Co-Sputtering and Sputter Gas Aggregation. Nanomaterials, 2021, 11, 134.	1.9	2
22	Ni-Mn-Sn-Cu Alloys after Thermal Cycling: Thermal and Magnetic Response. Materials, 2021, 14, 6851.	1.3	4
23	Improvement of high frequency giant magnetoimpedance effect in CoFeSiB amorphous ribbon with vanishing magnetostriction by electrodeposited Co coating surface layer. Journal of Materials Research and Technology, 2021, 15, 6929-6939.	2.6	2
24	Giant magnetoimpedance in rapidly quenched materials. Journal of Alloys and Compounds, 2020, 814, 152225.	2.8	59
25	The effect of annealing on magnetic properties of â€œThickâ€•microwires. Journal of Alloys and Compounds, 2020, 831, 150992.	2.8	27
26	Excellent magnetic properties of (Fe0.7Co0.3)83.7Si4B8P3.6Cu0.7 ribbons and microwires. Intermetallics, 2020, 117, 106660.	1.8	16
27	Soft magnetic microwires for sensor applications. Journal of Magnetism and Magnetic Materials, 2020, 498, 166180.	1.0	49
28	Giant magnetoimpedance and magneto-optical Kerr effects in (Co63Ni37)75Si15B10 amorphous ribbon. Intermetallics, 2020, 125, 106925.	1.8	2
29	Review of Domain Wall Dynamics Engineering in Magnetic Microwires. Nanomaterials, 2020, 10, 2407.	1.9	33
30	Reversible and Non-Reversible Transformation of Magnetic Structure in Amorphous Microwires. Nanomaterials, 2020, 10, 1450.	1.9	3
31	Optimization of Magnetic Properties of Magnetic Microwires by Post-Processing. Processes, 2020, 8, 1006.	1.3	9
32	Magnetic Microwires with Unique Combination of Magnetic Properties Suitable for Various Magnetic Sensor Applications. Sensors, 2020, 20, 7203.	2.1	18
33	Martensitic Transformation, Thermal Analysis and Magnetocaloric Properties of Ni-Mn-Sn-Pd Alloys. Processes, 2020, 8, 1582.	1.3	8
34	Coercivity and Magnetic Anisotropy of (Fe0.76Si0.09B0.10P0.05)97.5Nb2.0Cu0.5 Amorphous and Nanocrystalline Alloy Produced by Gas Atomization Process. Nanomaterials, 2020, 10, 884.	1.9	2
35	Stress-induced magnetic anisotropy enabling engineering of magnetic softness of Fe-rich amorphous microwires. Journal of Magnetism and Magnetic Materials, 2020, 510, 166939.	1.0	12
36	Stress-Induced Magnetic Anisotropy Enabling Engineering of Magnetic Softness GMI Effect and Domain Wall Dynamics of Amorphous Microwires. Physics of Metals and Metallography, 2020, 121, 316-321.	0.3	3

#	Article	IF	Citations
37	Tuning of magnetic properties in Ni-Mn-Ga Heusler-type glass-coated microwires by annealing. Journal of Alloys and Compounds, 2020, 838, 155481.	2.8	10
38	Optimization of magnetic properties and GMI effect of Thin Co-rich Microwires for GMI Microsensors. Sensors, 2020, 20, 1558.	2.1	39
39	Magnetic properties, martensitic and magnetostructural transformations of ferromagnetic Niâ€“Mnâ€“Snâ€“Cu shape memory alloys. Applied Physics A: Materials Science and Processing, 2020, 126, 1.	1.1	13
40	Stress-Induced Magnetic Anisotropy Enabling Engineering of Magnetic Softness and GMI Effect of Amorphous Microwires. Applied Sciences (Switzerland), 2020, 10, 981.	1.3	11
41	Magnetoimpedance Response and Field Sensitivity in Stress-Annealed Co-Based Microwires for Sensor Applications. Sensors, 2020, 20, 3227.	2.1	10
42	Routes for optimization of giant magnetoimpedance effect in magnetic microwires. IEEE Instrumentation and Measurement Magazine, 2020, 23, 56-63.	1.2	14
43	Engineering of magnetic properties and domain wall dynamics in Fe-Ni-based amorphous microwires by annealing. AIP Advances, 2020, 10, .	0.6	8
44	Novel Fe-based amorphous and nanocrystalline powder cores for high-frequency power conversion. Journal of Magnetism and Magnetic Materials, 2020, 501, 166457.	1.0	36
45	Heusler-type glass-coated microwires: Fabrication, characterization, and properties. , 2020, , 255-294.		1
46	Route of magnetoimpedance and domain walls dynamics optimization in Co-based microwires. Journal of Alloys and Compounds, 2020, 830, 154576.	2.8	24
47	Controlling the domain wall dynamics in Fe-, Ni- and Co-based magnetic microwires. Journal of Alloys and Compounds, 2020, 834, 155170.	2.8	14
48	Ultrafast Magnetization Dynamics in Metallic Amorphous Ribbons with a Giant Magnetoimpedance Response. Physical Review Applied, 2020, 13, .	1.5	5
49	High frequency giant magnetoimpedance effect of a stress-annealed Fe-rich glass-coated microwire. Journal of Alloys and Compounds, 2019, 802, 112-117.	2.8	6
50	Development of Magnetic Microwires for Magnetic Sensor Applications. Sensors, 2019, 19, 4767.	2.1	37
51	Impact of Stress Annealing on the Magnetization Process of Amorphous and Nanocrystalline Co-Based Microwires. Materials, 2019, 12, 2644.	1.3	6
52	Engineering of Magnetic Softness and Domain Wall Dynamics of Fe-rich Amorphous Microwires by Stress- induced Magnetic Anisotropy. Scientific Reports, 2019, 9, 12427.	1.6	28
53	Structural and magnetic properties of amorphous and nanocrystalline Feâ€“Siâ€“Bâ€“Pâ€“Nbâ€“Cu alloys produced by gas atomization. Journal of Alloys and Compounds, 2019, 810, 151754.	2.8	20
54	Magnetic properties of â€œthickâ€•glass-coated Fe-rich microwires. AIP Advances, 2019, 9, .	0.6	3

#	Article	IF	Citations
55	Stress dependence of the magnetic properties of glass-coated amorphous microwires. Journal of Alloys and Compounds, 2019, 789, 201-208.	2.8	22
56	Smart composites with embedded magnetic microwire inclusions allowing non-contact stresses and temperature monitoring. Composites Part A: Applied Science and Manufacturing, 2019, 120, 12-20.	3.8	44
57	Giant magnetoimpedance effect at GHz frequencies in amorphous microwires. AIP Advances, 2019, 9, .	0.6	7
58	Engineering of magnetic properties of Co-rich microwires by joule heating. Intermetallics, 2019, 105, 92-98.	1.8	45
59	Optimization of GMI Effect and Magnetic Properties of Co-Rich Microwires by Joule Heating. IEEE Transactions on Magnetics, 2019, 55, 1-4.	1.2	8
60	Engineering of Magnetic Properties of Fe-Rich Microwires by Stress Annealing. IEEE Transactions on Magnetics, 2019, 55, 1-4.	1.2	4
61	Tailoring of magnetoimpedance effect and magnetic softness of Fe-rich glass-coated microwires by stress- annealing. Scientific Reports, 2018, 8, 3202.	1.6	69
62	Engineering of Magnetic Properties of Co- and Fe-Rich Microwires. IEEE Transactions on Magnetics, 2018, 54, 1-7.	1.2	7
63	Tuning of Magnetic Properties of Niâ€“Mnâ€“Ga Glass-Coated Microwires. IEEE Transactions on Magnetics, 2018, 54, 1-4.	1.2	4
64	Magnetic and structural properties of glass-coated Heusler-type microwires exhibiting martensitic transformation. Scientific Reports, 2018, 8, 621.	1.6	29
65	Analysis of the off-diagonal component of giant magnetoimpedance effect in Co-based (as-cast and) Tj ETQq1 1 0.784314 rgBT /Over	1.8	0
66	Optimization of high frequency magnetoimpedance effect of Fe-rich microwires by stress-annealing. Intermetallics, 2018, 94, 92-98.	1.8	11
67	Effect of stress-induced anisotropy on high frequency magnetoimpedance effect of Fe and Co-rich glass-coated microwires. Journal of Alloys and Compounds, 2018, 735, 1818-1825.	2.8	17
68	AC-current-induced magnetization switching in amorphous microwires. Frontiers of Physics, 2018, 13, 1.	2.4	36
69	Tailoring of magnetic softness and GMI effect in Fe-rich thin magnetic wires. AIP Advances, 2018, 8, 056102.	0.6	5
70	Effect of cobalt doping on martensitic transformations and the magnetic properties of Ni50â^'xCoxMn37Sn13 (xÂ= 1, 2, 3) Heusler ribbons. Journal of Alloys and Compounds, 2018, 739, 305-310.	2.8	13
71	Tailoring of magnetic properties of Heusler-type glass-coated microwires by annealing. Journal of Alloys and Compounds, 2018, 732, 561-566.	2.8	18
72	Engineering of magnetic softness and giant magnetoimpedance effect in Fe-rich microwires by stress-annealing. Scripta Materialia, 2018, 142, 10-14.	2.6	65

#	Article	IF	Citations
73	Magnetic hardening of Fe-Pt and Fe-Pt- M (M=B, Si) microwires. Journal of Alloys and Compounds, 2018, 735, 1071-1078.	2.8	11
74	Optimization of GMI Effect and Magnetic Properties of Co-Rich Microwires by Joule Heating. , 2018, , .		0
75	Engineering of Giant Magnetoimpedance Effect in Co-rich Microwires by Joule heating. , 2018, , .		0
76	Optimization of Giant Magnetoimpedance Effect in Fe-rich Microwires. , 2018, , .		0
77	Engineering of GMI Effect of Fe-Rich Microwires by Stress Annealing. , 2018, , .		0
78	Effect of annealing on magnetic properties of Niâ€“Mnâ€“Ga glass-coated microwires. Journal of Materials Research, 2018, 33, 2148-2155.	1.2	4
79	Magnetic Properties of Annealed Amorphous Fe_{72.5}Si_{12.5}B₁₅ Alloy Obtained by Gas Atomization Technique. IEEE Transactions on Magnetics, 2018, 54, 1-5.	1.2	13
80	Grading the magnetic anisotropy and engineering the domain wall dynamics in Fe-rich microwires by stress-annealing. Acta Materialia, 2018, 155, 279-285.	3.8	43
81	Magnetic Properties of NdFeB Alloys Obtained by Gas Atomization Technique. IEEE Transactions on Magnetics, 2018, 54, 1-5.	1.2	15
82	Soft magnetic amorphous alloys (Fe-rich) obtained by gas atomisation technique. Journal of Alloys and Compounds, 2018, 735, 2646-2652.	2.8	24
83	Engineering of Magnetic Properties of Magnetic Microwires. Acta Physica Polonica A, 2018, 133, 321-328.	0.2	1
84	Magnetic Properties and Defects of Fe-Ni-Based Magnetic Microwires. IEEE Transactions on Magnetics, 2017, 53, 1-4.	1.2	1
85	Kondo-like behavior and GMR effect in granular Cu90Co10 microwires. AIP Advances, 2017, 7, .	0.6	3
86	Tailoring of Soft Magnetic Properties and High Frequency Giant Magnetoimpedance in Amorphous Ribbons. Springer Series in Materials Science, 2017, , 33-52.	0.4	1
87	Amorphous and Nanocrystalline Glass-Coated Wires: Optimization of Soft Magnetic Properties. Springer Series in Materials Science, 2017, , 1-31.	0.4	3
88	Current induced domain wall propagation in Co-rich amorphous microwires. AIP Advances, 2017, 7, 056026.	0.6	3
89	Effect of annealing on magnetic properties and structure of Fe-Ni based magnetic microwires. Journal of Magnetism and Magnetic Materials, 2017, 433, 278-284.	1.0	12
90	Surface magnetic properties and giant magnetoimpedance effect in Co-based amorphous ribbons. Intermetallics, 2017, 86, 15-19.	1.8	11

#	Article	IF	Citations
91	Trends in optimization of giant magnetoimpedance effect in amorphous and nanocrystalline materials. Journal of Alloys and Compounds, 2017, 727, 887-901.	2.8	81
92	First-order martensitic transformation in Heusler-type glass-coated microwires. Applied Physics Letters, 2017, 111, 242403.	1.5	14
93	Left-handed metacomposites containing carbon fibers and ferromagnetic microwires. AIP Advances, 2017, 7, 056110.	0.6	6
94	GMR effect and Kondo-like behaviour in Co-Cu microwires. Journal of Alloys and Compounds, 2017, 695, 976-980.	2.8	5
95	Effect of stress annealing on magnetic properties and GMI effect of Co- and Fe-rich microwires. Journal of Alloys and Compounds, 2017, 707, 189-194.	2.8	41
96	Engineering of Giant Magnetoimpedance Effect of Amorphous and Nanocrystalline Microwires. Journal of Superconductivity and Novel Magnetism, 2017, 30, 1359-1366.	0.8	7
97	GMR and Kondo Effects in Cu-Co Microwires. Journal of Superconductivity and Novel Magnetism, 2017, 30, 1109-1114.	0.8	2
98	Engineering of domain wall dynamics in amorphous microwires byÂannealing. Journal of Alloys and Compounds, 2017, 707, 35-40.	2.8	18
99	Current controlled magnetic memory based on hysteretic switching of impedance in conductor with inclined anisotropy easy axis. , 2017, , .		0
100	Engineering of magnetic properties and GMI effect of Co- and Fe-rich microwires by annealing. , 2017, , .		0
101	Surface magnetic properties and giant magnetoimpedance effect in Co-based amorphous ribbons. , 2017, , .		1
102	Correlation of Crystalline Structure with Magnetic and Transport Properties of Glass-Coated Microwires. Crystals, 2017, 7, 41.	1.0	64
103	Magnetic Characterization of Melt-Spun Co-Ni-Ga Ferromagnetic Superelastic Alloy. Acta Physica Polonica A, 2017, 131, 1075-1077.	0.2	2
104	Surface defect detection of magnetic microwires by miniature rotatable robot inside SEM. AIP Advances, 2016, 6, 095309.	0.6	12
105	Studies of Interfacial Layer and Its Effect on Magnetic Properties of Glass-Coated Microwires. Journal of Electronic Materials, 2016, 45, 2381-2387.	1.0	28
106	Engineering of Magnetic Softness and Magnetoimpedance in Fe-Rich Microwires by Nanocrystallization. Jom, 2016, 68, 1563-1571.	0.9	24
107	Engineering of the GMR Effect in CuCo Microwires with Granular Structure. Journal of Electronic Materials, 2016, 45, 2401-2406.	1.0	11
108	Microwires enabled metacomposites towards microwave applications. Journal of Magnetism and Magnetic Materials, 2016, 416, 299-308.	1.0	25

#	Article	IF	Citations
109	Estimation of the frequency and magnetic field dependence of the skin depth in Co-rich magnetic microwires from GMI experiments. Journal of Science: Advanced Materials and Devices, 2016, 1, 388-392.	1.5	6
110	Studies of Giant magnetoimpedance effect in soft magnetic microwires at GHz frequencies. , 2016, , .		0
111	Tunable metacomposites containing hybrid Co- and Fe-based ferromagnetic microwires. , 2016, , .		0
112	Current controlled switching of impedance in magnetic conductor with tilted anisotropy easy axis and its applications. Scientific Reports, 2016, 6, 36180.	1.6	25
113	Magnetic Properties of Nanocrystalline Microwires. Journal of Electronic Materials, 2016, 45, 212-218.	1.0	1
114	Effect of annealing on magnetic properties of nanocrystalline Hitperm-type glass-coated microwires. Journal of Alloys and Compounds, 2016, 660, 297-303.	2.8	15
115	Magnetostriction of Coâ€"Fe-Based Amorphous Soft Magnetic Microwires. Journal of Electronic Materials, 2016, 45, 226-234.	1.0	63
116	Annealing temperature effect on magnetic and magnetocaloric properties of manganites. Journal of Alloys and Compounds, 2016, 665, 394-403.	2.8	14
117	Optimization of Soft Magnetic Properties in Fe-Ni-Based Magnetic Microwires. IEEE Transactions on Magnetics, 2016, 52, 1-3.	1.2	1
118	Features of Amorphous Microwires With Spontaneous and Induced Magnetic Bistability. IEEE Transactions on Magnetics, 2016, 52, 1-4.	1.2	0
119	Grain size refinement in nanocrystalline Hitperm-type glass-coated microwires. Journal of Magnetism and Magnetic Materials, 2016, 406, 15-21.	1.0	13
120	Heusler Alloy Ribbons: Structure, Martensitic Transformation, Magnetic Transitions, and Exchange Bias Effect. Springer Series in Materials Science, 2016, , 83-114.	0.4	4
121	Tuneable Metacomposites Based on Functional Fillers. Springer Series in Materials Science, 2016, , 311-357.	0.4	8
122	Magnetoresistance and Kondo-like behaviour in Co5Cu95 microwires. Journal of Alloys and Compounds, 2016, 674, 266-271.	2.8	9
123	Engineering of magnetic properties and GMI effect in Co-rich amorphous microwires. Journal of Alloys and Compounds, 2016, 664, 235-241.	2.8	35
124	Magnetoresistive and magnetocaloric response of manganite/insulator system. Journal of Alloys and Compounds, 2016, 657, 495-505.	2.8	20
125	Simultaneous Detection of Giant Magnetoimpedance and Fast Domain Wall Propagation in Co-Based Glass-Coated Microwires. IEEE Magnetics Letters, 2016, 7, 1-4.	0.6	9
126	Preparation and Characterization of Fe-Pt and Fe-Pt-(B, Si) Microwires. IEEE Magnetics Letters, 2016, 7, 1-4.	0.6	12

#	Article	IF	Citations
127	Magnetic and Transport Properties of M-Cu (M = Co, Fe) Microwires. Smart Sensors, Measurement and Instrumentation, 2016, , 81-102.	0.4	1
128	Giant Magnetoimpedance Effect of Amorphous and Nanocrystalline Glass-Coated Microwires. Smart Sensors, Measurement and Instrumentation, 2016, , 103-130.	0.4	3
129	Tailoring of Magnetic Properties and Magnetoimpedance Effect in Thin Amorphous Wires. Acta Physica Polonica A, 2016, 129, 694-697.	0.2	0
130	Frequency and Magnetic Field Dependence of the Skin Depth in Co-rich Soft Magnetic Microwires. Advanced Electromagnetics, 2016, 5, 39.	0.7	0
131	Engineering of giant magnetoimpedance effect of amorphous and nanocrystalline microwires. Advanced Electromagnetics, 2016, 5, 63.	0.7	0
132	Advances in Giant Magnetoimpedance of Materials. Handbook of Magnetic Materials, 2015, 24, 139-236.	0.6	55
133	Manipulation of Magnetic Properties and Domain Wall Dynamics of Amorphous Ferromagnetic Co_{68.7}Fe₄Ni₁B₁₃Si₁₁Mo_{2.3} Microwire by Changing of Annealing Temperature. Solid State Phenomena, 2015, 233-234, 269-272.	0.3	2
134	Magnetic Properties of Nanocrystalline Microwires. , 2015, , 283-289.		0
135	Magnetostriction of Co-Fe-Based Amorphous Soft Magnetic Microwires. , 2015, , 265-271.		1
136	High frequency giant magnetoimpedance effect of soft magnetic amorphous microwires. , 2015, , .		1
137	Magnetic Properties of Heusler-Type NiMnGa Glass-Coated Microwires. IEEE Transactions on Magnetics, 2015, 51, 1-4.	1.2	11
138	Studies of High-Frequency Giant Magnetoimpedance Effect in Co-Rich Amorphous Microwires. IEEE Transactions on Magnetics, 2015, 51, 1-4.	1.2	11
139	Tailoring the High-Frequency Giant Magnetoimpedance Effect of Amorphous Co-Rich Microwires. IEEE Magnetics Letters, 2015, 6, 1-4.	0.6	61
140	Giant magnetoimpedance effect and domain wall dynamics in Co-rich amorphous microwires. Journal of Applied Physics, 2015, 117, .	1.1	15
141	Tuning of Magnetic Properties of Ni-Mn-In-Co Heusler-Type Glass-Coated Microwires. Jom, 2015, 67, 2117-2122.	0.9	2
142	Processing magnetic microwires for magnetic bistability and magnetoimpedance. , 2015, , 225-274.		6
143	Effect of Temperature and Time of Stress Annealing on Magnetic Properties of Amorphous Microwires. Acta Physica Polonica A, 2015, 127, 600-602.	0.2	2
144	Optimization of Magnetic Properties and Giant Magnetoimpedance Effect in Nanocrystalline Microwires. Journal of Superconductivity and Novel Magnetism, 2015, 28, 813-822.	0.8	12

#	Article	IF	Citations
145	Half-metallic Ni2MnSn Heusler alloy prepared by rapid quenching. Journal of Magnetism and Magnetic Materials, 2015, 386, 98-101.	1.0	23
146	Optimization of Soft Magnetic Properties in Nanocrystalline Fe-Rich Glass-Coated Microwires. Jom, 2015, 67, 2108-2116.	0.9	14
147	Annealing Influence on the Exchange-Bias and Magnetostructural Properties in the Ni_{50.0}Mn_{36.5}Sn_{13.5} Ribbon-Shape Alloy. Solid State Phenomena, 2015, 233-234, 179-182.	0.3	4
148	Magneto-impedance and ferro-magnetic resonance effects in thin amorphous wires and their application in functional composites materials at microwaves. , 2015, , .		0
149	Effect of annealing on magnetic properties and magnetostriction coefficient of Feâ€"Ni-based amorphous microwires. Journal of Alloys and Compounds, 2015, 651, 718-723.	2.8	31
150	Manipulation of magnetic properties of glass-coated microwires by annealing. Journal of Magnetism and Magnetic Materials, 2015, 383, 232-236.	1.0	67
151	Studies of Magnetic Properties of Ni-Mn-In-Co Heusler-Type Glass-Coated Microwires. , 2015, , 149-155.		1
152	Tailoring of Magnetic Properties and GMI Effect of Amorphous Microwires by Annealing. Smart Sensors, Measurement and Instrumentation, 2015, , 399-423.	0.4	1
153	Optimization of Soft Magnetic Properties in Nanocrystalline Glass-Coated Microwires. , 2015, , 157-164.		0
154	Magnetic Properties and Giant Magnetoimpedance in Amorphous and Nanocrystalline Microwires. Acta Physica Polonica A, 2014, 126, 146-147.	0.2	0
155	Fast Magnetization Switching in Amorphous Microwires. Acta Physica Polonica A, 2014, 126, 7-11.	0.2	6
156	Magnetic properties of Ni-Mn-In-Co Heusler-type glass-coated microwires. Journal of Applied Physics, 2014, 115, .	1.1	19
157	Metacomposite characteristics and their influential factors of polymer composites containing orthogonal ferromagnetic microwire arrays. Journal of Applied Physics, 2014, 115, 173909.	1.1	29
158	Optimization of the giant magnetoimpedance effect of Finemet-type microwires through the nanocrystallization. Journal of Applied Physics, 2014, 115, .	1.1	35
159	Manipulation of magnetic and magneto-transport properties of amorphous glass-coated microwires through various annealing processes. Physica Status Solidi C: Current Topics in Solid State Physics, 2014, 11, 1125-1129.	0.8	1
160	Hopkinson effect in Coâ€rich glassâ€coated microwires. Physica Status Solidi C: Current Topics in Solid State Physics, 2014, 11, 1130-1132.	0.8	6
161	GHz magnetic field influence on magnetization reversal in amorphous microwires. Physica Status Solidi C: Current Topics in Solid State Physics, 2014, 11, 986-988.	0.8	0
162	Correlation between the magnetostriction constant and thermal properties of soft magnetic microwires. Physica Status Solidi (A) Applications and Materials Science, 2014, 211, 1083-1086.	0.8	10

#	Article	IF	Citations
163	Tailoring of magnetic properties and GMI effect of Co-rich amorphous microwires by heat treatment. Journal of Alloys and Compounds, 2014, 615, 610-615.	2.8	70
164	Magnetoimpedance hysteresis in amorphous microwires induced by coreâ€"shell interaction. Applied Physics Letters, 2014, 105, .	1.5	26
165	Giant magnetoâ€impedance effect in thin Finemet nanocrystalline microwires. Physica Status Solidi C: Current Topics in Solid State Physics, 2014, 11, 1120-1124.	0.8	5
166	Tuning of Magnetic Properties and GMI Effect of Co-Based Amorphous Microwires by Annealing. Journal of Electronic Materials, 2014, 43, 4532-4539.	1.0	17
167	Effect of Nanocrystallization on Magnetic Properties and GMI Effect of Fe-rich Microwires. Journal of Electronic Materials, 2014, 43, 4540-4547.	1.0	25
168	Domain Wall Propagation in Co-Based Glass-Coated Microwires: Effect of Stress Annealing and Tensile Applied Stresses. IEEE Transactions on Magnetics, 2014, 50, 1-4.	1.2	5
169	Effect of Annealing on Off-Diagonal GMI Effect of Co-Rich Amorphous Microwires. IEEE Transactions on Magnetics, 2014, 50, 1-4.	1.2	3
170	Studies of the Defects Influence on Magnetic Properties of Glass-Coated Microwires. IEEE Transactions on Magnetics, 2014, 50, 1-4.	1.2	7
171	Effect of nanocrystallization on giant magnetoimpedance effect of Fe-based microwires. Intermetallics, 2014, 51, 59-63.	1.8	19
172	Giant magnetoimpedance in thin amorphous and nanocrystalline microwires. Applied Physics A: Materials Science and Processing, 2014, 115, 547-553.	1.1	8
173	Influence of the defects on magnetic properties of glass-coated microwires. Journal of Applied Physics, 2014, 115, .	1.1	23
174	Magnetic properties and domain wall propagation in FeNiSiB glass-coated microwires. Journal of Applied Physics, 2014, 115, 17A309.	1.1	11
175	Annealing effect on the crystal structure and exchange bias in Heusler Ni45.5Mn43.0In11.5 alloy ribbons. Journal of Alloys and Compounds, 2014, 582, 588-593.	2.8	13
176	The leftâ€hand behaviour of polymer composites with Feâ€based microwires. Physica Status Solidi C: Current Topics in Solid State Physics, 2014, 11, 1086-1088.	0.8	2
177	Manipulation of Magnetic Properties and Domain Wall Dynamics in Amorphous Ferromagnetic Microwires by Annealing under Applied Stress. Solid State Phenomena, 2014, 215, 432-436.	0.3	2
178	Effect of Annealing on Magnetic Properties and Giant Magnetoimpedance Effect of Amorphous Microwires. IEEE Transactions on Magnetics, 2014, 50, 1-4.	1.2	3
179	Effect of Nanocrystallization on Magnetic Properties and GMI Effect of Microwires. IEEE Transactions on Magnetics, 2014, 50, 1-5.	1.2	6
180	Highly sensitive magnetometer based on the offâ€diagonal GMI effect in Coâ€rich glassâ€coated microwire. Physica Status Solidi (A) Applications and Materials Science, 2014, 211, 980-985.	0.8	94

#	Article	IF	Citations
181	Fast magnetization switching in Fe-rich amorphous microwires: Effect of magnetoelastic anisotropy and role of defects. Journal of Alloys and Compounds, 2014, 586, S287-S290.	2.8	30
182	Giant magnetoimpedance in thin amorphous wires: From manipulation of magnetic field dependence to industrial applications. Journal of Alloys and Compounds, 2014, 586, S279-S286.	2.8	83
183	Tailoring of Magnetic Properties and GMI Effect in Thin Amorphous Wires. , 2014, , 785-792.		0
184	High Frequency Giant Magnetoimpedance Effect of amorphous microwires for magnetic sensors applications. International Journal on Smart Sensing and Intelligent Systems, 2014, 7, 1-6.	0.4	2
185	Magnetic and Transport properties of Co-Cu Microwires. International Journal on Smart Sensing and Intelligent Systems, 2014, 7, 1-6.	0.4	0
186	Manipulation of domain wall dynamics in amorphous microwires through domain wall collision. Journal of Applied Physics, 2013, 114, .	1.1	27
187	GMR effect in Co-Cu microwires. Journal of the Korean Physical Society, 2013, 62, 1940-1944.	0.3	3
188	Effect of annealing on magnetic properties and Giant magnetoimpedance effect of amorphous microwires. , 2013, , .		0
189	Induced Giant Magnetoimpedance Effect by Current Annealing in Ultra Thin Co-Based Amorphous Ribbons. IEEE Transactions on Magnetics, 2013, 49, 1009-1012.	1.2	7
190	Magnetic properties and magnetocaloric effect in Heusler-type glass-coated NiMnGa microwires. Journal of Alloys and Compounds, 2013, 575, 73-79.	2.8	76
191	Expanding the longitudinal magnetoimpedance sensor range by direct bias current. Journal of Applied Physics, 2013, 113, .	1.1	18
192	Manipulation of domain wall dynamics in microwires by transverse magnetic field. Journal of the Korean Physical Society, 2013, 62, 1363-1367.	0.3	3
193	GMI effect of amorphous microwires with enhanced magnetic softness. Journal of the Korean Physical Society, 2013, 62, 1382-1387.	0.3	0
194	Tailoring of domain wall dynamics in amorphous microwires by annealing. Journal of Applied Physics, 2013, 113, .	1.1	31
195	From Manipulation of Giant Magnetoimpedance in Thin Wires to Industrial Applications. Journal of Superconductivity and Novel Magnetism, 2013, 26, 1045-1054.	0.8	16
196	Effect of nanocrystallization on Giant magnetoimpedance effect of microwires. , 2013, , .		0
197	Magnetoimpedance dependence on width in Co66.5Fe3.5Si12.0B18.0 amorphous alloy ribbons. Journal of Applied Physics, 2013, 113, 053905.	1.1	16
198	Fe-based ferromagnetic microwires enabled meta-composites. Applied Physics Letters, 2013, 103, .	1.5	41

#	Article	IF	Citations
199	Soft magnetic amorphous ribbons with high frequency Magnetoimpedance for sensors. , 2013, , .		0
200	High frequency magnetoimpedance response of stress annealed Co66.3Fe3.7Si12.0B18.0 amorphous alloy ribbons. Journal of Applied Physics, 2013, 114, .	1.1	15
201	Domain walls collision in Fe-rich and Co-rich glass covered microwires. EPJ Web of Conferences, 2013, 40, 17004.	0.1	1
202	Fast Magnetization Switching in Thin Wires: Magnetoelastic and Defects Contributions. Sensor Letters, 2013, 11, 170-176.	0.4	25
203	Magnetic Properties and Domain Wall Propagation in Micrometric Amorphous Microwires. Sensor Letters, 2013, 11, 187-190.	0.4	11
204	Spectral Characteristics of the Arrays of Magnetically Coupled Glass-Covered Microwires. Sensor Letters, 2013, 11, 115-118.	0.4	2
205	Giant magneto-impedance effect of thin magnetic wires at elevated frequencies. Journal of Applied Physics, 2012, 111, 07E512.	1.1	6
206	Spectral properties of electromotive force induced by periodic magnetization reversal of arrays of coupled magnetic glass-covered microwires. Journal of Applied Physics, 2012, 111, .	1.1	9
207	Kondo Effect and Magnetotransport Properties in Co-Cu Microwires. IEEE Transactions on Magnetics, 2012, 48, 3532-3535.	1.2	8
208	Amorphous microwires with enhanced magnetic softness and GMI characteristics. EPJ Web of Conferences, 2012, 29, 00052.	0.1	3
209	Magnetoimpedance Response in Co-Based Amorphous Ribbons Obtained Under the Action of a Magnetic Field. IEEE Transactions on Magnetics, 2012, 48, 4375-4377.	1.2	6
210	Magnetoelastic Contribution in Domain Wall Propagation of Micrometric Wires. Journal of Nanoscience and Nanotechnology, 2012, 12, 7582-7586.	0.9	4
211	Magnetic and transport properties of granular and Heusler-type glass-coated microwires. Journal of Magnetism and Magnetic Materials, 2012, 324, 3558-3562.	1.0	32
212	1D and 2D position detection using magnetoimpedance sensor array. Physica Status Solidi (A) Applications and Materials Science, 2012, 209, 2626-2629.	0.8	2
213	Manipulation of domain wall dynamics in amorphous microwires through the magnetoelastic anisotropy. Nanoscale Research Letters, 2012, 7, 223.	3.1	75
214	Manipulating the magnetoimpedance by dc bias current in amorphous microwire. Journal of Magnetism and Magnetic Materials, 2012, 324, 4078-4083.	1.0	19
215	Domain wall propagation in micrometric wires: Limits of single domain wall regime. Journal of Applied Physics, 2012, 111, .	1.1	65
216	Domain wall dynamics of magnetically bistable microwires. EPJ Web of Conferences, 2012, 29, 00036.	0.1	1

#	Article	IF	Citations
217	Effects of wire properties on the field-tunable behaviour of continuous-microwire composites. Sensors and Actuators A: Physical, 2012, 178, 118-125.	2.0	28
218	Domain wall propagation in Fe-rich amorphous microwires. Physica B: Condensed Matter, 2012, 407, 1442-1445.	1.3	49
219	Magnetoelastic contribution in domain wall dynamics of amorphous microwires. Physica B: Condensed Matter, 2012, 407, 1450-1454.	1.3	30
220	The defects influence on domain wall propagation in bistable glass-coated microwires. Physica B: Condensed Matter, 2012, 407, 1446-1449.	1.3	25
221	Magnetoelastic Effects and Distribution of Defects in Micrometric Amorphous Wires. IEEE Transactions on Magnetics, 2012, 48, 1324-1326.	1.2	10
222	GMI Effect of Ultra-Soft Magnetic Soft Amorphous Microwires. Open Materials Science Journal, 2012, 6, 39-43.	0.2	3
223	Symmetry breaking effect of dc bias current on magnetoimpedance in microwire with helical anisotropy: Application to magnetic sensors. Journal of Applied Physics, 2011, 110, .	1.1	11
224	Magnetic field effects in artificial dielectrics with arrays of magnetic wires at microwaves. Journal of Applied Physics, 2011, 109, .	1.1	46
225	Development of magnetically soft microwires with GMI effect. Journal of Physics: Conference Series, 2011, 303, 012085.	0.3	3
226	Stress tunable properties of ferromagnetic microwires and their multifunctional composites. Journal of Applied Physics, 2011, 109, 07A310.	1.1	21
227	Smart Composites With Short Ferromagnetic Microwires for Microwave Applications. IEEE Transactions on Magnetics, 2011, 47, 4481-4484.	1.2	15
228	Magnetoelastic Contribution in Domain-Wall Dynamics of Magnetically Bistable Microwires. IEEE Transactions on Magnetics, 2011, 47, 3783-3786.	1.2	9
229	Tailoring of Magnetic Properties of Magnetostatically-Coupled Glass-Covered Magnetic Microwires. Journal of Superconductivity and Novel Magnetism, 2011, 24, 541-547.	0.8	24
230	Role of Defects on Domain Wall Propagation in Magnetically Bistable Glass-Covered Microwires. Journal of Superconductivity and Novel Magnetism, 2011, 24, 851-854.	0.8	10
231	Microwave metamaterials with ferromagnetic microwires. Applied Physics A: Materials Science and Processing, 2011, 103, 653-657.	1.1	30
232	Tunable effective permittivity of composites based onÂferromagnetic microwires with high magneto-impedance effect. Applied Physics A: Materials Science and Processing, 2011, 103, 693-697.	1.1	13
233	Annealing effect on local nucleation fields in bistable microwires. Physica Status Solidi (A) Applications and Materials Science, 2011, 208, 549-552.	0.8	6
234	Effect of applied stresses on domainâ€wall propagation in glassâ€coated amorphous microwires. Physica Status Solidi (A) Applications and Materials Science, 2011, 208, 545-548.	0.8	9

#	Article	IF	Citations
235	Microwave Metamaterials Containing Magnetically Soft Microwires. Materials Research Society Symposia Proceedings, 2011, 1312, 1.	0.1	9
236	Correlation of surface domain structure and magneto-impedance in amorphous microwires. Journal of Applied Physics, 2011, 109, 113924.	1.1	39
237	Pinning Field Distribution and Microstructural Study of Thermal Annealed Fe-Nb-Cu-Si-B Wires. IEEE Transactions on Magnetics, 2010, 46, 387-389.	1.2	1
238	Design of magnetic properties of arrays of magnetostatically coupled glassâ€covered magnetic microwires. Physica Status Solidi (A) Applications and Materials Science, 2010, 207, 1954-1959.	0.8	7
239	Magnetostatic interaction of glass-coated magnetic microwires. Journal of Applied Physics, 2010, 108, 016103.	1.1	14
240	Magnetoimpedance sensitive to dc bias current in amorphous microwires. Applied Physics Letters, 2010, 97, .	1.5	60
241	Low-field hysteresis in the magnetoimpedance of amorphous microwires. Physical Review B, 2010, 81, .	1.1	90
242	Exceptional electromagnetic interference shielding properties of ferromagnetic microwires enabled polymer composites. Journal of Applied Physics, 2010, 108, .	1.1	69
243	High frequency magneto impedance in amorphous microwires. Journal of Physics: Conference Series, 2010, 200, 082009.	0.3	5
244	Novel magnetic microwires-embedded composites for structural health monitoring applications. Journal of Applied Physics, 2010, 107, .	1.1	49
245	Tunable Microwave Composites Containing Ferromagnetic Microwires. Materials Research Society Symposia Proceedings, 2009, 1223, 3041.	0.1	0
246	Thin Magnetically Soft Wires for Magnetic Microsensors. Sensors, 2009, 9, 9216-9240.	2.1	150
247	Effect of transverse magnetic field on domain wall propagation in magnetically bistable glass-coated amorphous microwires. Journal of Applied Physics, 2009, 106, .	1.1	65
248	Ground state magnetization distribution and characteristic width of head to head domain wall in Feâ€rich amorphous microwire. Physica Status Solidi (A) Applications and Materials Science, 2009, 206, 613-617.	0.8	61
249	Studies of thin microwires with enhanced magnetic softness and GMI effect. Physica Status Solidi (A) Applications and Materials Science, 2009, 206, 674-678.	0.8	5
250	Studies of giant magnetoimpedance effect of Coâ€rich microwires in wide frequency range. Physica Status Solidi (A) Applications and Materials Science, 2009, 206, 671-673.	0.8	3
251	Domainâ€wall propagation in thin Feâ€rich glassâ€coated amorphous wires. Physica Status Solidi (A) Applications and Materials Science, 2009, 206, 679-682.	0.8	6
252	Recent advances in studies of magnetically soft amorphous microwires. Journal of Magnetism and Magnetic Materials, 2009, 321, 822-825.	1.0	41

#	Article	IF	Citations
253	Co-based magnetic microwire and field-tunable multifunctional macro-composites. Journal of Non-Crystalline Solids, 2009, 355, 1380-1386.	1.5	77
254	High-frequency GMI effect in glass-coated amorphous wires. Journal of Alloys and Compounds, 2009, 488, 9-12.	2.8	8
255	Magnetic and transport properties of Fe-rich thin cold-drawn amorphous wires. Journal of Alloys and Compounds, 2009, 488, 5-8.	2.8	4
256	Mechanisms of the ultrafast magnetization switching in bistable amorphous microwires. Journal of Applied Physics, 2009, 106, .	1.1	65
257	Offâ€diagonal magnetoâ€impedance in amorphous microwires with diameter 6â€“10 Î¼m and application to linear magnetic sensors. Physica Status Solidi (A) Applications and Materials Science, 2008, 205, 1779-1782.	0.8	24
258	Development of ultraâ€thin glassâ€coated amorphous microwires for HF magnetic sensor applications. Physica Status Solidi (A) Applications and Materials Science, 2008, 205, 1367-1372.	0.8	22
259	Local nucleation fields of Fe-rich microwires and their dependence on applied stresses. Physica B: Condensed Matter, 2008, 403, 379-381.	1.3	49
260	Domain wall propagation in Fe-rich microwires. Physica B: Condensed Matter, 2008, 403, 382-385.	1.3	15
261	Magnetic Properties and Highâ€“Frequency GMI Effect in Thin Glass-Coated Amorphous Wires. AIP Conference Proceedings, 2008, , .	0.3	1
262	Studies of magnetic properties and giant magnetoimpedance effect in ultrathin magnetically soft amorphous microwires. Journal of Applied Physics, 2008, 103, 07E714.	1.1	19
263	Domain Wall Propagation in Thin Fe-Rich Glass-Coated Amorphous Wires. AIP Conference Proceedings, 2008, , .	0.3	1
264	Development of Thin Microwires With Enhanced Magnetic Softness and GMI. IEEE Transactions on Magnetics, 2008, 44, 3958-3961.	1.2	15
265	Magnetic behavior and microstructure of Finemet-type ribbons in both, surface and bulk. Journal of Non-Crystalline Solids, 2007, 353, 777-781.	1.5	7
266	Complex susceptibility measurements in amorphous glass-coated microwires. Journal of Non-Crystalline Solids, 2007, 353, 928-930.	1.5	4
267	GMI effect in ultra-thin glass-coated Co-rich amorphous wires. Sensors and Actuators B: Chemical, 2007, 126, 232-234.	4.0	10
268	Nanostructure and magnetic properties of Ni-substituted finemet ribbons. Journal of Magnetism and Magnetic Materials, 2007, 316, e74-e77.	1.0	5
269	Development of thin microwires with low Curie temperature for temperature sensors applications. Sensors and Actuators B: Chemical, 2007, 126, 318-323.	4.0	23
270	Effect of Interaction on Giant Magnetoimpedance Effect in a System of Few Thin Wires. Sensor Letters, 2007, 5, 10-12.	0.4	12

#	Article	IF	Citations
271	Development of Ultra-Thin Glass-Coated Amorphous Microwires for High Frequency Magnetic Sensors Applications. Open Materials Science Journal, 2007, 1, 1-12.	0.2	3
272	Fast magnetic domain wall in magnetic microwires. Physical Review B, 2006, 74, .	1.1	62
273	The influence of glass coating on the single domain wall potential in amorphous glass-coated Fe-based microwires. Journal of Magnetism and Magnetic Materials, 2006, 304, e519-e521.	1.0	2
274	Studies of magnetic properties of thin microwires with low Curie temperature. Journal of Magnetism and Magnetic Materials, 2006, 300, 16-23.	1.0	26
275	Magnetization processes in thin magnetic wires. Journal of Magnetism and Magnetic Materials, 2006, 300, e305-e310.	1.0	7
276	Thermal activation over a complex energy barrier in bistable microwires. Physical Review B, 2006, 73, .	1.1	10
277	Effect of tensile stresses on GMI of Co-rich amorphous microwires. IEEE Transactions on Magnetics, 2005, 41, 3688-3690.	1.2	32
278	Microwave Metamaterials Containing Magnetically Soft Microwires. Advances in Science and Technology, 0, , .	0.2	6
279	Tuneable Composites Containing Magnetic Microwires. , 0, , .		6
280	Recent Research on the Magnetoimpedance Effect in Co-Based Amorphous Ribbons. Advanced Materials Research, 0, 646, 222-227.	0.3	0
281	Influence of the Defects on Magnetic Properties of Glass-Coated Microwires. Solid State Phenomena, 0, 233-234, 285-289.	0.3	0
282	Tailoring of domain wall dynamics in amorphous microwires by annealing. , 0, .		1