Arcady Zhukov

List of Publications by Year
in descending order

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598 papers	11,816 citations	22153 59 h-index	66911 78 g-index
618 all docs	618 docs citations	618 times ranked	2260 citing authors

#	Article	IF	Citations
1	Magnetic properties of glass-coated amorphous and nanocrystalline microwires. Journal of Magnetism and Magnetic Materials, 1996, 160, 223-228.	2.3	223
2	On the stateâ€ofâ€theâ€art in magnetic microwires and expected trends for scientific and technological studies. Physica Status Solidi (A) Applications and Materials Science, 2011, 208, 493-501.	1.8	215
3	Preparation and properties of glass-coated microwires. Journal of Magnetism and Magnetic Materials, 2002, 249, 39-45.	2.3	194
4	Giant magnetoimpedance effect in soft magnetic wires for sensor applications. Sensors and Actuators A: Physical, 1997, 59, 20-29.	4.1	179
5	Magnetoelastic anisotropy distribution in glass-coated microwires. Journal of Materials Research, 1996, 11, 2499-2505.	2.6	156
6	Thin Magnetically Soft Wires for Magnetic Microsensors. Sensors, 2009, 9, 9216-9240.	3.8	150
7	Optimization of giant magnetoimpedance in Co-rich amorphous microwires. IEEE Transactions on Magnetics, 2002, 38, 3090-3092.	2.1	132
8	The remagnetization process in thin and ultra-thin Fe-rich amorphous wires. Journal of Magnetism and Magnetic Materials, 1995, 151, 132-138.	2.3	129
9	Magnetoelastic anisotropy of amorphous microwires. Journal of Magnetism and Magnetic Materials, 2003, 254-255, 469-471.	2.3	126
10	Microwires coated by glass: A new family of soft and hard magnetic materials. Journal of Materials Research, 2000, 15, 2107-2113.	2.6	112
11	Design of the Magnetic Properties of Fe-Rich, Glass-Coated Microwires for Technical Applications. Advanced Functional Materials, 2006, 16, 675-680.	14.9	109
12	Magnetostriction in glass-coated magnetic microwires. Journal of Magnetism and Magnetic Materials, 2003, 258-259, 151-157.	2.3	97
13	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.	1.8	94
14	Experimental demonstration of tunable scattering spectra at microwave frequencies in composite media containing CoFeCrSiB glass-coated amorphous ferromagnetic wires and comparison with theory. Physical Review B, 2006, 74, .	3.2	93
15	Round table discussion: Present and future applications of nanocrystalline magnetic materials. Journal of Magnetism and Magnetic Materials, 2005, 294, 252-266.	2.3	90
16	Low-field hysteresis in the magnetoimpedance of amorphous microwires. Physical Review B, 2010, 81, .	3.2	90
17	Supersonic domain wall in magnetic microwires. Physical Review B, 2007, 76, .	3.2	88
18	Giant magnetoimpedance in thin amorphous wires: From manipulation of magnetic field dependence to industrial applications. Journal of Alloys and Compounds, 2014, 586, S279-S286.	5.5	83

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19	Trends in optimization of giant magnetoimpedance effect in amorphous and nanocrystalline materials. Journal of Alloys and Compounds, 2017, 727, 887-901.	5.5	81
20	Co-based magnetic microwire and field-tunable multifunctional macro-composites. Journal of Non-Crystalline Solids, 2009, 355, 1380-1386.	3.1	77
21	Magnetic and structural properties of Niâ€“Mnâ€“Ga Heusler-type microwires. Scripta Materialia, 2011, 65, 703-706.	5.2	77
22	Magnetic properties and magnetocaloric effect in Heusler-type glass-coated NiMnGa microwires. Journal of Alloys and Compounds, 2013, 575, 73-79.	5.5	76
23	Manipulation of domain wall dynamics in amorphous microwires through the magnetoelastic anisotropy. Nanoscale Research Letters, 2012, 7, 223.	5.7	75
24	Magnetocaloric effect and multifunctional properties of Niâ€“Mn-based Heusler alloys. Journal of Magnetism and Magnetic Materials, 2012, 324, 3530-3534.	2.3	73
25	Magnetic domain structure of wires studied by using the magneto-optical indicator film method. Applied Physics Letters, 2005, 87, 142507.	3.3	71
26	Magnetoelastic sensor based on GMI of amorphous microwire. Sensors and Actuators A: Physical, 2001, 91, 95-98.	4.1	70
27	Tailoring of magnetic properties and GMI effect of Co-rich amorphous microwires by heat treatment. Journal of Alloys and Compounds, 2014, 615, 610-615.	5.5	70
28	Tailoring of magnetic properties of glass-coated microwires by current annealing. Journal of Non-Crystalline Solids, 2001, 287, 31-36.	3.1	69
29	Glass-coated magnetic microwires for technical applications. Journal of Magnetism and Magnetic Materials, 2002, 242-245, 216-223.	2.3	69
30	Exceptional electromagnetic interference shielding properties of ferromagnetic microwires enabled polymer composites. Journal of Applied Physics, 2010, 108, .	2.5	69
31	Tailoring of magnetoimpedance effect and magnetic softness of Fe-rich glass-coated microwires by stress- annealing. Scientific Reports, 2018, 8, 3202.	3.3	69
32	Magnetic properties of amorphous and devitrified FeSiBCuNb glass-coated microwires. Scripta Materialia, 1996, 7, 823-834.	0.5	67
33	Induced magnetic anisotropy in Coâ€“Mnâ€“Siâ€“B amorphous microwires. Journal of Applied Physics, 2000, 87, 1402-1409.	2.5	67
34	Multilayer Microwires: Tailoring Magnetic Behavior by Sputtering and Electroplating. Advanced Functional Materials, 2004, 14, 266-268.	14.9	67
35	Manipulation of magnetic properties of glass-coated microwires by annealing. Journal of Magnetism and Magnetic Materials, 2015, 383, 232-236.	2.3	67
36	Ferromagnetic resonance, magnetic behaviour and structure of Fe-based glass-coated microwires. Journal of Magnetism and Magnetic Materials, 1999, 203, 238-240.	2.3	66

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37	Domain wall propagation in a Fe-rich glass-coated amorphous microwire. Applied Physics Letters, 2001, 78, 3106-3108.	3.3	66
38	Length effect in a Co-rich amorphous wire. Physical Review B, 2002, 65, .	3.2	66
39	Correlation between magnetic and mechanical properties of devitrified glass-coated Fe71.8Cu1Nb3.1Si15B9.1 microwires. Journal of Magnetism and Magnetic Materials, 2002, 249, 79-84.	2.3	66
40	Recent research on magnetic properties of glass-coated microwires. Journal of Magnetism and Magnetic Materials, 2005, 294, 182-192.	2.3	66
41	Direct imaging of the magnetization reversal in microwires using all-MOKE microscopy. Review of Scientific Instruments, 2014, 85, 103702.	1.3	66
42	Effect of transverse magnetic field on domain wall propagation in magnetically bistable glass-coated amorphous microwires. Journal of Applied Physics, 2009, 106, .	2.5	65
43	Mechanisms of the ultrafast magnetization switching in bistable amorphous microwires. Journal of Applied Physics, 2009, 106, .	2.5	65
44	Domain wall propagation in micrometric wires: Limits of single domain wall regime. Journal of Applied Physics, 2012, 111, .	2.5	65
45	Engineering of magnetic softness and giant magnetoimpedance effect in Fe-rich microwires by stress-annealing. Scripta Materialia, 2018, 142, 10-14.	5.2	65
46	Magneto-impedance in glass-coated CoMnSiB amorphous microwires. IEEE Transactions on Magnetics, 1998, 34, 724-728.	2.1	64
47	Torsional stress impedance and magneto-impedance in (Co0.95Fe0.05)72.5Si12.5B15amorphous wire with helical induced anisotropy. Journal Physics D: Applied Physics, 1999, 32, 3140-3145.	2.8	64
48	Physical properties of nearly zero magnetostriction Co-rich glass-coated amorphous microwires. Journal of Materials Research, 1999, 14, 3775-3783.	2.6	64
49	Correlation of Crystalline Structure with Magnetic and Transport Properties of Glass-Coated Microwires. Crystals, 2017, 7, 41.	2.2	64
50	Magnetic properties of Fe-based glass-coated microwires. Journal of Magnetism and Magnetic Materials, 1997, 170, 323-330.	2.3	63
51	Giant magneto-impedance in heterogeneous microwires. Journal of Applied Physics, 2000, 88, 6501-6505.	2.5	63
52	Spatial structure of the head-to-head propagating domain wall in glass-covered FeSiB microwire. Journal Physics D: Applied Physics, 2010, 43, 205001.	2.8	63
53	Magnetostriction of Coâ€“Fe-Based Amorphous Soft Magnetic Microwires. Journal of Electronic Materials, 2016, 45, 226-234.	2.2	63
54	Stress induced magnetic anisotropy and giant magnetoimpedance in Fe-rich glass-coated magnetic microwires. Journal of Applied Physics, 2003, 94, 1115-1118.	2.5	62

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55	Fast magnetic domain wall in magnetic microwires. Physical Review B, 2006, 74, .	3.2	62
56	Magnetic properties and GMI of soft melt-extracted magnetic amorphous fibers. Sensors and Actuators A: Physical, 2003, 106, 225-229.	4.1	61
57	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.	1.8	61
58	Tailoring the High-Frequency Giant Magnetoimpedance Effect of Amorphous Co-Rich Microwires. IEEE Magnetics Letters, 2015, 6, 1-4.	1.1	61
59	Magnetoimpedance sensitive to dc bias current in amorphous microwires. Applied Physics Letters, 2010, 97, .	3.3	60
60	Giant magnetoimpedance in rapidly quenched materials. Journal of Alloys and Compounds, 2020, 814, 152225.	5.5	59
61	The remagnetization process of bistable amorphous alloys. Materials & Design, 1993, 14, 299-306.	5.1	57
62	Frequency dependence of coercivity in rapidly quenched amorphous materials. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 1997, 226-228, 753-756.	5.6	57
63	Effect of tensile and torsion on GMI in amorphous wire. Journal of Magnetism and Magnetic Materials, 1999, 196-197, 377-379.	2.3	57
64	Switching-field distribution in amorphous magnetic bistable microwires. Physical Review B, 2004, 70, .	3.2	55
65	Domain Wall Propagation in Thin Magnetic Wires. IEEE Transactions on Magnetics, 2008, 44, 3925-3930.	2.1	55
66	Advances in Giant Magnetoimpedance of Materials. Handbook of Magnetic Materials, 2015, 24, 139-236.	0.6	55
67	Effect of AC driving current on magneto-impedance effect. Sensors and Actuators A: Physical, 2000, 81, 86-90.	4.1	54
68	Possibilities of Measuring Stress and Health Monitoring in Materials Using Contact-Less Sensor Based on Magnetic Microwires. IEEE Transactions on Magnetics, 2013, 49, 128-131.	2.1	53
69	Temperature dependence of the switching field and its distribution function in Fe-based bistable microwires. Applied Physics Letters, 2003, 83, 2620-2622.	3.3	52
70	Asymmetric torsion stress giant magnetoimpedance in nearly zero magnetostrictive amorphous wires. Journal of Applied Physics, 2000, 87, 4813-4815.	2.5	51
71	Ferromagnetic glass-coated microwires with good heating properties for magnetic hyperthermia. Scientific Reports, 2016, 6, 39300.	3.3	50
72	Magnetostriction investigation of soft magnetic microwires. Physica Status Solidi (A) Applications and Materials Science, 2016, 213, 363-367.	1.8	50

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73	Local nucleation fields of Fe-rich microwires and their dependence on applied stresses. Physica B: Condensed Matter, 2008, 403, 379-381.	2.7	49
74	Novel magnetic microwires-embedded composites for structural health monitoring applications. Journal of Applied Physics, 2010, 107, .	2.5	49
75	Domain wall propagation in Fe-rich amorphous microwires. Physica B: Condensed Matter, 2012, 407, 1442-1445.	2.7	49
76	Soft magnetic microwires for sensor applications. Journal of Magnetism and Magnetic Materials, 2020, 498, 166180.	2.3	49
77	Tailoring of magnetic anisotropy of Fe-rich microwires by stress induced anisotropy. Physica B: Condensed Matter, 2006, 384, 1-4.	2.7	48
78	The stress dependence of the switching field in glass-coated amorphous microwires. Journal Physics D: Applied Physics, 1998, 31, 3040-3045.	2.8	47
79	Domain walls and magnetization reversal process in soft magnetic nanowires and nanotubes. Journal of Magnetism and Magnetic Materials, 2007, 316, 255-261.	2.3	47
80	Magnetic field effects in artificial dielectrics with arrays of magnetic wires at microwaves. Journal of Applied Physics, 2011, 109, .	2.5	46
81	Glass-coated ferromagnetic microwire-induced magnetic hyperthermia for in vitro cancer cell treatment. Materials Science and Engineering C, 2020, 106, 110261.	7.3	46
82	Engineering of magnetic properties of Co-rich microwires by joule heating. Intermetallics, 2019, 105, 92-98.	3.9	45
83	Giant magneto-impedance effect in CoMnSiB amorphous microwires. Journal of Magnetism and Magnetic Materials, 2001, 234, 359-365.	2.3	44
84	An Embedded Stress Sensor for Concrete SHM Based on Amorphous Ferromagnetic Microwires. Sensors, 2014, 14, 19963-19978.	3.8	44
85	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.	7.6	44
86	Grading the magnetic anisotropy and engineering the domain wall dynamics in Fe-rich microwires by stress-annealing. Acta Materialia, 2018, 155, 279-285.	7.9	43
87	Interaction between Fe-rich ferromagnetic glass-coated microwires. Journal of Magnetism and Magnetic Materials, 2002, 249, 99-103.	2.3	41
88	Switching field fluctuations in a glass-coated Fe-rich amorphous microwire. Journal of Magnetism and Magnetic Materials, 2002, 249, 131-135.	2.3	41
89	Tunable and Self-Sensing Microwave Composite Materials Incorporating Ferromagnetic Microwires. Advances in Science and Technology, 0, , .	0.2	41
90	Recent advances in studies of magnetically soft amorphous microwires. Journal of Magnetism and Magnetic Materials, 2009, 321, 822-825.	2.3	41

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91	Direct measurements of field-induced adiabatic temperature changes near compound phase transitions in Niâ€“Mnâ€“In based Heusler alloys. Applied Physics Letters, 2011, 98, 131911.	3.3	41
92	Fe-based ferromagnetic microwires enabled meta-composites. Applied Physics Letters, 2013, 103, .	3.3	41
93	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.	5.5	41
94	Coercivity of glass-coated Fe73.4-xCu1Nb3.1Si13.4+xB9.1 (0â‰¤xâ‰¤1.6) microwires. Scripta Materialia, 1999, 11, 1319-1327.	0.5	40
95	Glass-coated Co-rich amorphous microwires with enhanced permeability. Sensors and Actuators A: Physical, 2000, 81, 227-231.	4.1	40
96	Magnetoresistance in thin wires with granular structure. Journal of Magnetism and Magnetic Materials, 2005, 294, 165-173.	2.3	40
97	Skin-effect and circumferential permeability in micro-wires utilized in GMI-sensors. Sensors and Actuators A: Physical, 2005, 119, 384-389.	4.1	39
98	Correlation of surface domain structure and magneto-impedance in amorphous microwires. Journal of Applied Physics, 2011, 109, 113924.	2.5	39
99	Optimization of magnetic properties and GMI effect of Thin Co-rich Microwires for GMI Microsensors. Sensors, 2020, 20, 1558.	3.8	39
100	The effect of mechanical stress on Ni63.8Mn11.1Ga25.1 microwire crystalline structure and properties. Intermetallics, 2013, 43, 60-64.	3.9	37
101	Development of Magnetic Microwires for Magnetic Sensor Applications. Sensors, 2019, 19, 4767.	3.8	37
102	Determination of the normal and anomalous hall effect coefficients in ferromagnetic Ni50Mn35In15 â^' x Si x Heusler alloys at the martensitic transformation. Journal of Experimental and Theoretical Physics, 2012, 115, 805-814.	0.9	36
103	AC-current-induced magnetization switching in amorphous microwires. Frontiers of Physics, 2018, 13, 1.	5.0	36
104	Cylindrical micro and nanowires: Fabrication, properties and applications. Journal of Magnetism and Magnetic Materials, 2020, 513, 167074.	2.3	36
105	Magnetization switching in ferromagnetic microwires. Physical Review B, 2010, 82, .	3.2	35
106	Optimization of the giant magnetoimpedance effect of Finemet-type microwires through the nanocrystallization. Journal of Applied Physics, 2014, 115, .	2.5	35
107	Engineering of magnetic properties and GMI effect in Co-rich amorphous microwires. Journal of Alloys and Compounds, 2016, 664, 235-241.	5.5	35
108	Magnetoelastic sensor of liquid level based on magnetoelastic properties of Co-rich microwires. Sensors and Actuators A: Physical, 2000, 81, 129-133.	4.1	33

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109	Review of Domain Wall Dynamics Engineering in Magnetic Microwires. Nanomaterials, 2020, 10, 2407.	4.1	33
110	Effect of tensile stresses on GMI of Co-rich amorphous microwires. IEEE Transactions on Magnetics, 2005, 41, 3688-3690.	2.1	32
111	Magnetocaloric effect in nanogranular glass coated microwires. Physica Status Solidi (A) Applications and Materials Science, 2008, 205, 1378-1381.	1.8	32
112	Magnetic and transport properties of granular and Heusler-type glass-coated microwires. Journal of Magnetism and Magnetic Materials, 2012, 324, 3558-3562.	2.3	32
113	Effect of composite origin on magnetic properties of glass-coated microwires. Intermetallics, 2014, 44, 88-93.	3.9	32
114	Temperature Dependences of the Nuclear Quadrupole Resonance Spectra of As⁷⁵ in KH₂AsO₄, RbH₂AsO₄, CsH₂AsO₄, NH₄H₂AsO₄, and of their Deuterated Analogues. Physica Status Solidi (B): Basic Research, 1968, 27, K129.	1.5	31
115	Asymmetric torsion giant impedance in nearly-zero magnetostrictive amorphous wires with induced helical anisotropy. Journal Physics D: Applied Physics, 2001, 34, L31-L34.	2.8	31
116	Magnetic Properties and MCE in Heusler-Type Glass-Coated Microwires. Journal of Superconductivity and Novel Magnetism, 2013, 26, 1415-1419.	1.8	31
117	Tailoring of domain wall dynamics in amorphous microwires by annealing. Journal of Applied Physics, 2013, 113, .	2.5	31
118	Effect of annealing on magnetic properties and magnetostriction coefficient of Feâ€“Ni-based amorphous microwires. Journal of Alloys and Compounds, 2015, 651, 718-723.	5.5	31
119	Advanced functional magnetic microwires for technological applications. Journal Physics D: Applied Physics, 2022, 55, 253003.	2.8	31
120	Microwave metamaterials with ferromagnetic microwires. Applied Physics A: Materials Science and Processing, 2011, 103, 653-657.	2.3	30
121	Magnetoelastic contribution in domain wall dynamics of amorphous microwires. Physica B: Condensed Matter, 2012, 407, 1450-1454.	2.7	30
122	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.	5.5	30
123	Metacomposite characteristics and their influential factors of polymer composites containing orthogonal ferromagnetic microwire arrays. Journal of Applied Physics, 2014, 115, 173909.	2.5	29
124	Magnetic and structural properties of glass-coated Heusler-type microwires exhibiting martensitic transformation. Scientific Reports, 2018, 8, 621.	3.3	29
125	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.	5.5	29
126	Magnetization reversal of Co-rich wires in circular magnetic field. Journal of Applied Physics, 2002, 91, 537.	2.5	28

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127	Effects of wire properties on the field-tunable behaviour of continuous-microwire composites. Sensors and Actuators A: Physical, 2012, 178, 118-125.	4.1	28
128	Studies of Interfacial Layer and Its Effect on Magnetic Properties of Glass-Coated Microwires. Journal of Electronic Materials, 2016, 45, 2381-2387.	2.2	28
129	Engineering of Magnetic Softness and Domain Wall Dynamics of Fe-rich Amorphous Microwires by Stress- induced Magnetic Anisotropy. Scientific Reports, 2019, 9, 12427.	3.3	28
130	Manipulation of domain wall dynamics in amorphous microwires through domain wall collision. Journal of Applied Physics, 2013, 114, .	2.5	27
131	Inverse magnetocaloric effects in metamagnetic Ni-Mn-In-based alloys in high magnetic fields. Journal of Alloys and Compounds, 2017, 695, 3348-3352.	5.5	27
132	The effect of annealing on magnetic properties of â€œThickâ€•microwires. Journal of Alloys and Compounds, 2020, 831, 150992.	5.5	27
133	Studies of magnetic properties of thin microwires with low Curie temperature. Journal of Magnetism and Magnetic Materials, 2006, 300, 16-23.	2.3	26
134	Magnetoimpedance hysteresis in amorphous microwires induced by coreâ€“shell interaction. Applied Physics Letters, 2014, 105, .	3.3	26
135	Non-contact method for stress monitoring based on stress dependence of magnetic properties of Fe-based microwires. Journal of Alloys and Compounds, 2018, 748, 199-205.	5.5	26
136	Temperature dependence of magnetization reversal in magnetostrictive glass-coated amorphous microwires. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2004, 375-377, 1145-1148.	5.6	25
137	Coercivity and induced magnetic anisotropy by stress and/or field annealing in Fe- and Co- based (Finemet-type) amorphous alloys. Journal of Magnetism and Magnetic Materials, 2005, 294, 245-251.	2.3	25
138	The defects influence on domain wall propagation in bistable glass-coated microwires. Physica B: Condensed Matter, 2012, 407, 1446-1449.	2.7	25
139	Effect of Nanocrystallization on Magnetic Properties and GMI Effect of Fe-rich Microwires. Journal of Electronic Materials, 2014, 43, 4540-4547.	2.2	25
140	Microwires enabled metacomposites towards microwave applications. Journal of Magnetism and Magnetic Materials, 2016, 416, 299-308.	2.3	25
141	Current controlled switching of impedance in magnetic conductor with tilted anisotropy easy axis and its applications. Scientific Reports, 2016, 6, 36180.	3.3	25
142	Fast Magnetization Switching in Thin Wires: Magnetoelastic and Defects Contributions. Sensor Letters, 2013, 11, 170-176.	0.4	25
143	Effect of stress applied on the magnetization profile of Feâ€“Siâ€“B amorphous wire. Journal of Applied Physics, 2003, 93, 7208-7210.	2.5	24
144	Vortex-type domain structure in Co-rich amorphous wires. Journal of Applied Physics, 2004, 95, 2933-2935.	2.5	24

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145	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.	1.8	24
146	Magnetic ordering in arrays of one-dimensional nanoparticle chains. Journal Physics D: Applied Physics, 2009, 42, 215003.	2.8	24
147	Domain wall dynamics during the devitrification ofFe73.5CuNb3Si11.5B11magnetic microwires. Physical Review B, 2010, 82, .	3.2	24
148	Tailoring of Magnetic Properties of Magnetostatically-Coupled Glass-Covered Magnetic Microwires. Journal of Superconductivity and Novel Magnetism, 2011, 24, 541-547.	1.8	24
149	On different tag reader architectures for bistable microwires. Sensors and Actuators A: Physical, 2011, 166, 133-140.	4.1	24
150	Engineering of Magnetic Softness and Magnetoimpedance in Fe-Rich Microwires by Nanocrystallization. Jom, 2016, 68, 1563-1571.	1.9	24
151	Route of magnetoimpedance and domain walls dynamics optimization in Co-based microwires. Journal of Alloys and Compounds, 2020, 830, 154576.	5.5	24
152	DSC studies of finemet-type glass-coated microwires. Journal of Magnetism and Magnetic Materials, 2002, 249, 108-112.	2.3	23
153	Development of thin microwires with low Curie temperature for temperature sensors applications. Sensors and Actuators B: Chemical, 2007, 126, 318-323.	7.8	23
154	Influence of the defects on magnetic properties of glass-coated microwires. Journal of Applied Physics, 2014, 115, .	2.5	23
155	Sensitive magnetoelastic properties of amorphous ribbon for magnetoelastic sensors. Journal of Magnetism and Magnetic Materials, 2000, 215-216, 743-745.	2.3	22
156	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.	1.8	22
157	Direct observation of giant Barkhausen jumps in magnetic microwires. Applied Physics Letters, 2010, 97, .	3.3	22
158	The comparison of direct and indirect methods for determining the magnetocaloric parameters in the Heusler alloy Ni50Mn34.8In14.2B. Applied Physics Letters, 2012, 100, 192402.	3.3	22
159	Continuous control of a resistance in Co-rich amorphous ferromagnetic microwires during DC Joule heating. Intermetallics, 2018, 99, 39-43.	3.9	22
160	Stress dependence of the magnetic properties of glass-coated amorphous microwires. Journal of Alloys and Compounds, 2019, 789, 201-208.	5.5	22
161	Studies of the magnetostriction of as-prepared and annealed glass-coated Co-rich amorphous microwires by SAMR method. Journal Physics D: Applied Physics, 2001, 34, L113-L116.	2.8	21
162	Circular magnetic bistability induced by tensile stress in glass-covered amorphous microwires. Applied Physics Letters, 2003, 82, 610-612.	3.3	21

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163	Magnetocaloric effect in dipolar chains of magnetic nanoparticles with collinear anisotropy axes. Physical Review B, 2009, 80, .	3.2	21
164	Stress tunable properties of ferromagnetic microwires and their multifunctional composites. Journal of Applied Physics, 2011, 109, 07A310.	2.5	21
165	Electronic Surveillance and Security Applications of Magnetic Microwires. Chemosensors, 2021, 9, 100.	3.6	21
166	Hall effect in a martensitic transformation in Ni-Co-Mn-In Heusler alloys. JETP Letters, 2010, 92, 666-670.	1.4	20
167	Evaluation of the saturation magnetostriction in nearly zero magnetostrictive glass-coated amorphous microwires. Journal of Applied Physics, 2000, 87, 5950-5952.	2.5	19
168	Circular magnetic bistability in Co-rich amorphous microwires. Journal Physics D: Applied Physics, 2003, 36, 419-422.	2.8	19
169	Studies of magnetic properties and giant magnetoimpedance effect in ultrathin magnetically soft amorphous microwires. Journal of Applied Physics, 2008, 103, 07E714.	2.5	19
170	Kerr-effect based Sixtus-Tonks experiment for measuring the single domain wall dynamics. Journal of Applied Physics, 2008, 103, 07E707.	2.5	19
171	Manipulating the magnetoimpedance by dc bias current in amorphous microwire. Journal of Magnetism and Magnetic Materials, 2012, 324, 4078-4083.	2.3	19
172	Magneto-resistance, magneto-reactance, and magneto-impedance effects in single and multi-wire systems. Journal of Alloys and Compounds, 2013, 549, 295-302.	5.5	19
173	Magnetic properties of Ni-Mn-In-Co Heusler-type glass-coated microwires. Journal of Applied Physics, 2014, 115, .	2.5	19
174	Effect of nanocrystallization on giant magnetoimpedance effect of Fe-based microwires. Intermetallics, 2014, 51, 59-63.	3.9	19
175	Investigation of the magnetostriction coefficient of amorphous ferromagnetic glass coated microwires. Journal of Applied Physics, 2014, 116, .	2.5	19
176	Studies of structural and magnetic properties of glass-coated nanocrystalline Fe79Hf7B12Si2 microwires. Journal of Alloys and Compounds, 2006, 423, 116-119.	5.5	18
177	Domainâ€wall dynamics in bistable magnetic microwires. Physica Status Solidi (A) Applications and Materials Science, 2009, 206, 608-612.	1.8	18
178	Expanding the longitudinal magnetoimpedance sensor range by direct bias current. Journal of Applied Physics, 2013, 113, .	2.5	18
179	Correlation between thermal and magnetic properties of glass coated microwires. Journal of Alloys and Compounds, 2014, 615, S242-S246.	5.5	18
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