Manuel Vazquez

List of Publications by Year in descending order

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808 papers	20,042 citations	15466 65 h-index	35952 97 g-index
822 all docs	822 docs citations	822 times ranked	8146 citing authors

#	Article	IF	Citations
1	A soft magnetic wire for sensor applications. Journal Physics D: Applied Physics, 1996, 29, 939-949.	1.3	368
2	Magnetic Iron Oxide Nanoparticles in 10â˜'40 nm Range: Composition in Terms of Magnetite/Maghemite Ratio and Effect on the Magnetic Properties. Chemistry of Materials, 2011, 23, 1379-1386.	3.2	303
3	Photovoltaic module reliability model based on field degradation studies. Progress in Photovoltaics: Research and Applications, 2008, 16, 419-433.	4.4	240
4	Analysis of the dependence of spin-spin correlations on the thermal treatment of nanocrystalline materials. Physical Review B, 1995, 51, 3581-3586.	1.1	226
5	Magnetic properties of glass-coated amorphous and nanocrystalline microwires. Journal of Magnetism and Magnetic Materials, 1996, 160, 223-228.	1.0	223
6	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.	0.8	215
7	Soft magnetic wires. Physica B: Condensed Matter, 2001, 299, 302-313.	1.3	197
8	Preparation and properties of glass-coated microwires. Journal of Magnetism and Magnetic Materials, 2002, 249, 39-45.	1.0	194
9	Giant magnetoâ€impedance effect in nanostructured magnetic wires. Journal of Applied Physics, 1996, 79, 1646-1654.	1.1	191
10	Giant magnetoimpedance effect in soft magnetic wires for sensor applications. Sensors and Actuators A: Physical, 1997, 59, 20-29.	2.0	179
11	Giant Magnetoimpedance. Handbook of Magnetic Materials, 2003, 15, 497-563.	0.6	178
12	The magnetization reversal process in amorphous wires. IEEE Transactions on Magnetics, 1995, 31, 1229-1238.	1.2	169
13	Magnetoelastic anisotropy distribution in glass-coated microwires. Journal of Materials Research, 1996, 11, 2499-2505.	1.2	156
14	Temperature, stress, and structural-relaxation dependence of the magnetostriction in (Co0.94/BFe0.06)75/BSi15B10glasses. Physical Review B, 1987, 35, 5066-5071.	1.1	148
15	Giant magneto-impedance in soft magnetic â€œWiresâ€• Journal of Magnetism and Magnetic Materials, 2001, 226-230, 693-699.	1.0	147
16	Magnetoimpedance of metallic ferromagnetic wires. Physical Review B, 1998, 57, 10699-10704.	1.1	141
17	Size and surface effects on the magnetic properties of NiO nanoparticles. Physical Chemistry Chemical Physics, 2011, 13, 9561.	1.3	140
18	The remagnetization process in thin and ultra-thin Fe-rich amorphous wires. Journal of Magnetism and Magnetic Materials, 1995, 151, 132-138.	1.0	129

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19	Single-Domain Wall Propagation and Damping Mechanism during Magnetic Switching of Bistable Amorphous Microwires. Physical Review Letters, 2005, 94, 017201.	2.9	128
20	Magnetic anisotropy in CoNi nanowire arrays: Analytical calculations and experiments. Physical Review B, 2012, 85, .	1.1	127
21	Magnetic properties of densely packed arrays of Ni nanowires as a function of their diameter and lattice parameter. Journal of Applied Physics, 2004, 95, 6642-6644.	1.1	126
22	Magnetic reversal modes in cylindrical nanowires. Journal Physics D: Applied Physics, 2013, 46, 485001.	1.3	126
23	Induced magnetic anisotropy and change of the magnetostriction by current annealing in Co-based amorphous alloys. Journal of Magnetism and Magnetic Materials, 1986, 53, 323-329.	1.0	119
24	Critical exponents of the ferromagnetic-paramagnetic phase transition ofLa1âˆ'xSrxCoO3(0.20<~x<~0.30). Physical Review B, 1999, 59, 123-126.	1.1	119
25	Giant magnetoimpedance in nonmagnetostrictive amorphous wires. Physical Review B, 1994, 50, 16737-16740.	1.1	117
26	Magnetic behavior of an array of cobalt nanowires. Journal of Applied Physics, 1999, 85, 5480-5482.	1.1	116
27	Microwires coated by glass: A new family of soft and hard magnetic materials. Journal of Materials Research, 2000, 15, 2107-2113.	1.2	112
28	Soft to hard magnetic anisotropy in nanostructured magnets. Physical Review B, 1998, 58, 5193-5196.	1.1	109
29	Metallic glasses and sensing applications. Journal of Physics E: Scientific Instruments, 1988, 21, 1129-1139.	0.7	107
30	Magnetic microwires as macrospins in a long-range dipole-dipole interaction. Physical Review B, 2000, 61, 8976-8983.	1.1	103
31	Barium hexaferrite monodispersed nanoparticles prepared by the ceramic method. Journal of Magnetism and Magnetic Materials, 2001, 234, 65-72.	1.0	100
32	Distribution of the magnetic anisotropy in amorphous alloys ribbons. IEEE Transactions on Magnetics, 1989, 25, 3330-3332.	1.2	99
33	Modelling hysteresis of interacting nanowires arrays. Physica B: Condensed Matter, 2004, 343, 395-402.	1.3	98
34	Magnetostriction in glass-coated magnetic microwires. Journal of Magnetism and Magnetic Materials, 2003, 258-259, 151-157.	1.0	97
35	Thermal dependence of coercivity in soft magnetic nanocrystals. Physical Review B, 1998, 58, 366-370.	1.1	95
36	Magnetic interactions and reversal mechanisms in Co nanowire and nanotube arrays. Journal of Applied Physics, 2013, 113, .	1.1	95

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37	Influence of the sample length on the switching process of magnetostrictive amorphous wire. Journal of Magnetism and Magnetic Materials, 1992, 103, 117-125.	1.0	90
38	Round table discussion: Present and future applications of nanocrystalline magnetic materials. Journal of Magnetism and Magnetic Materials, 2005, 294, 252-266.	1.0	90
39	Magnetic behaviour of densely packed hexagonal arrays of Ni nanowires: Influence of geometric characteristics. Journal of Magnetism and Magnetic Materials, 2005, 294, 174-181.	1.0	89
40	Magneto-optical properties of nickel nanowire arrays. Applied Physics Letters, 2003, 83, 4547-4549.	1.5	88
41	Tunable magnetic nanowires for biomedical and harsh environment applications. Scientific Reports, 2016, 6, 24189.	1.6	88
42	Control of the chirality and polarity of magnetic vortices in triangular nanodots. Physical Review B, 2010, 81, .	1.1	87
43	Enhanced Magnetoâ€Optics and Size Effects in Ferromagnetic Nanowire Arrays. Advanced Materials, 2007, 19, 2643-2647.	11.1	86
44	Novel magnetic materials prepared by electrodeposition techniques: arrays of nanowires and multi-layered microwires. Journal of Alloys and Compounds, 2004, 369, 18-26.	2.8	84
45	Magnetic bistability of amorphous wires and sensor applications. IEEE Transactions on Magnetics, 1994, 30, 907-912.	1.2	82
46	Arrays of Ni nanowires in alumina membranes: magnetic properties and spatial ordering. European Physical Journal B, 2004, 40, 489-497.	0.6	81
47	Magnetic hardening of FeSiBCuNb ribbons and wires during the first stage of crystallization to a nanophase structure. Applied Physics Letters, 1994, 64, 3184-3186.	1.5	80
48	Propagating domain wall shape and dynamics in iron-rich amorphous wires. IEEE Transactions on Magnetics, 1995, 31, 781-790.	1.2	78
49	Magnetic anisotropy in ordered textured Co nanowires. Applied Physics Letters, 2012, 100, .	1.5	77
50	Very large magnetoimpedance effect in FeCoNi ferromagnetic tubes with high order magnetic anisotropy. Journal of Applied Physics, 2001, 90, 6280-6286.	1.1	76
51	Magnetic properties of Co nanopillar arrays prepared from alumina templates. Nanotechnology, 2013, 24, 105703.	1.3	76
52	Remanence of Ni nanowire arrays: Influence of size and labyrinth magnetic structure. Physical Review B, 2007, 75, .	1.1	74
53	The effect of tensile stresses on the magnetic properties of Co58Fe5Ni10Si11B16 amorphous alloys. Physica Status Solidi A, 1983, 80, 195-204.	1.7	72
54	Ni growth inside ordered arrays of alumina nanopores: Enhancing the deposition rate. Electrochimica Acta, 2012, 72, 215-221.	2.6	72

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55	Structural and magnetic properties of nanocrystallineFe73.5â^'xCoxSi13.5B9CuNb3alloys. Physical Review B, 2001, 65, .	1.1	71
56	Magnetization reversal in Coâ€base nanowire arrays. Physica Status Solidi (B): Basic Research, 2011, 248, 2368-2381.	0.7	71
57	Long-range magnetostatic interactions in arrays of nanowires. Journal of Magnetism and Magnetic Materials, 2000, 222, 227-232.	1.0	70
58	Modification of the saturation magnetostriction constant after thermal treatments for the Co 58 Fe 5 Ni 10 B 16 Si 11 amorphous ribbon. Journal of Magnetism and Magnetic Materials, 1983, 37, 161-166.	1.0	69
59	Stress dependence of the giant magneto-impedance effect in amorphous wires. Journal of Physics Condensed Matter, 1995, 7, L115-L120.	0.7	69
60	Tailoring of magnetic properties of glass-coated microwires by current annealing. Journal of Non-Crystalline Solids, 2001, 287, 31-36.	1.5	69
61	Method for continuous nondisturbing monitoring of blood pressure by magnetoelastic skin curvature sensor and ECG. IEEE Sensors Journal, 2006, 6, 819-828.	2.4	69
62	Magnetic properties of amorphous and devitrified FeSiBCuNb glass-coated microwires. Scripta Materialia, 1996, 7, 823-834.	0.5	67
63	Induced magnetic anisotropy in Coâ€"Mnâ€"Siâ€"B amorphous microwires. Journal of Applied Physics, 2000, 87, 1402-1409.	1.1	67
64	Multilayer Microwires: Tailoring Magnetic Behavior by Sputtering and Electroplating. Advanced Functional Materials, 2004, 14, 266-268.	7.8	67
65	Evaluation of the linear magnetostriction in amorphous wires using the giant magneto-impedance effect. Journal of Magnetism and Magnetic Materials, 1996, 160, 243-244.	1.0	66
66	Magnetoimpedance effect in amorphous and nanocrystalline ribbons. Journal of Applied Physics, 2001, 90, 4783-4790.	1.1	65
67	Microwave absorption of nanoscale CoNi powders. Journal of Applied Physics, 2006, 99, 104308.	1.1	65
68	Magneto-impedance in glass-coated CoMnSiB amorphous microwires. IEEE Transactions on Magnetics, 1998, 34, 724-728.	1.2	64
69	Magnetic properties of Fe-based glass-coated microwires. Journal of Magnetism and Magnetic Materials, 1997, 170, 323-330.	1.0	63
70	Giant magneto-impedance in heterogeneous microwires. Journal of Applied Physics, 2000, 88, 6501-6505.	1.1	63
71	Trapping and Injecting Single Domain Walls in Magnetic Wire by Local Fields. Physical Review Letters, 2012, 108, 037201.	2.9	63
72	Magnetization Ratchet in Cylindrical Nanowires. ACS Nano, 2018, 12, 5932-5939.	7.3	63

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73	Magnetic nanoparticles: synthesis, ordering and properties. Physica B: Condensed Matter, 2004, 354, 71-79.	1.3	62
74	Magnetic properties and GMI of soft melt-extracted magnetic amorphous fibers. Sensors and Actuators A: Physical, 2003, 106, 225-229.	2.0	61
75	Ferromagnetic resonance in microwires and nanowires. Physical Review B, 2011, 83, .	1.1	61
76	Frequency dependence of the magnetoimpedance in amorphous CoP electrodeposited layers. Journal of Applied Physics, 2000, 87, 4825-4827.	1.1	60
77	Structural relaxation and magnetic properties of Co-rich amorphous wire. Journal of Magnetism and Magnetic Materials, 1993, 118, 86-92.	1.0	59
78	Ordered Ni nanohole arrays with engineered geometrical aspects and magnetic anisotropy. Applied Physics Letters, 2007, 90, 192501.	1.5	58
79	Temperature influence on the anodic growth of self-aligned Titanium dioxide nanotube arrays. Journal of Magnetism and Magnetic Materials, 2007, 316, 110-113.	1.0	58
80	Frequency dependence of coercivity in rapidly quenched amorphous materials. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 1997, 226-228, 753-756.	2.6	57
81	The influence of field- and stress-induced magnetic anisotropy on the magnetoimpedance in nanocrystalline FeCuNbSiB alloys. Journal of Applied Physics, 1998, 83, 6581-6583.	1.1	55
82	Switching-field distribution in amorphous magnetic bistable microwires. Physical Review B, 2004, 70, .	1.1	55
83	Glass-coated amorphous ferromagnetic microwires at microwave frequencies. Journal of Magnetism and Magnetic Materials, 2009, 321, 2066-2073.	1.0	55
84	Quantitative Nanoscale Magnetic Study of Isolated Diameter-Modulated FeCoCu Nanowires. ACS Nano, 2016, 10, 9669-9678.	7.3	54
85	Torsion dependence of the magnetization process in magnetostrictive amorphous wire. Journal of Magnetism and Magnetic Materials, 1991, 96, 321-328.	1.0	53
86	Magnetoimpedance effect in zero magnetostriction nanocrystalline Fe73.5Cu1Nb3Si16.5B6 ribbons. Journal of Magnetism and Magnetic Materials, 1998, 185, 61-65.	1.0	53
87	Effects of surfactants on the particle morphology and self-organization of Co nanocrystals. Materials Science and Engineering C, 2003, 23, 1129-1132.	3.8	53
88	Multidomain to single-domain transition for uniform Co80Ni20nanoparticles. Nanotechnology, 2003, 14, 268-272.	1.3	53
89	Size effect and surface tension measurements in Ni and Co nanowires. Physical Review B, 2007, 76, .	1.1	53
90	Switching mechanism and domain structure of bistable amorphous wires. IEEE Transactions on Magnetics, 1992, 28, 3147-3149.	1.2	52

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91	Magneto-impedance effect in high permeability NiFeMo permalloy wires. Journal of Applied Physics, 1998, 83, 6578-6580.	1.1	52
92	Temperature dependence of the switching field and its distribution function in Fe-based bistable microwires. Applied Physics Letters, 2003, 83, 2620-2622.	1.5	52
93	Geometry-dependent magnetization reversal mechanism in ordered Py antidot arrays. Journal Physics D: Applied Physics, 2011, 44, 505001.	1.3	52
94	Magnetic and structural properties of fcc/hcp bi-crystalline multilayer Co nanowire arrays prepared by controlled electroplating. Journal of Applied Physics, 2011, 109, 083919.	1.1	52
95	Spin configuration of cylindrical bamboo-like magnetic nanowires. Journal of Materials Chemistry C, 2016, 4, 978-984.	2.7	52
96	Dynamic magnetostatic interaction between amorphous ferromagnetic wires. Physical Review B, 1996, 54, 9903-9911.	1.1	51
97	Low-field microwave magnetoimpedance in amorphous microwires. Journal of Applied Physics, 1999, 85, 4442-4444.	1.1	51
98	Influence of the sample length and profile of the magnetoimpedance effect in FeCrSiBCuNb ultrasoft magnetic wires. Journal of Applied Physics, 2002, 91, 6539.	1.1	51
99	Crystallographically driven magnetic behaviour of arrays of monocrystalline Co nanowires. Nanotechnology, 2014, 25, 475702.	1.3	51
100	Magnetization pinning in modulated nanowires: from topological protection to the â€œcorkscrewâ€• mechanism. Nanoscale, 2018, 10, 5923-5927.	2.8	51
101	The effect of transverse field on fast domain wall dynamics in magnetic microwires. Applied Physics Letters, 2010, 96, .	1.5	50
102	Electrochemical synthesis and magnetic characterization of periodically modulated Co nanowires. Nanotechnology, 2014, 25, 145301.	1.3	50
103	Tailoring the magnetic anisotropy of CoFeB/MgO stacks onto W with a Ta buffer layer. Applied Physics Letters, 2015, 106, .	1.5	50
104	Frequency dependence of giant magnetoimpedance effect in CuBe/CoFeNi plated wire with different types of magnetic anisotropy. Journal of Applied Physics, 2000, 87, 4822-4824.	1.1	49
105	Rotational giant magnetoimpedance in soft magnetic wires: Modelization through Fourier harmonic contribution. Applied Physics Letters, 2001, 78, 246-248.	1.5	49
106	Tailoring of magnetocaloric response in nanostructured materials: Role of anisotropy. Physical Review B, 2008, 77, .	1.1	49
107	Temperature accelerated life test on commercial concentrator IIIâ€“V tripleâ€junction solar cells and reliability analysis as a function of the operating temperature. Progress in Photovoltaics: Research and Applications, 2015, 23, 559-569.	4.4	49
108	Domain wall pinning in FeCoCu bamboo-like nanowires. Scientific Reports, 2016, 6, 29702.	1.6	49

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109	Nanoscale Topography: A Tool to Enhance Pore Order and Pore Size Distribution in Anodic Aluminum Oxide. Journal of Physical Chemistry C, 2011, 115, 8567-8572.	1.5	48
110	Multisegmented Nanowires: a Step towards the Control of the Domain Wall Configuration. Scientific Reports, 2017, 7, 11576.	1.6	48
111	Magnetoelastic anisotropy in amorphous wires due to quenching. Journal of Applied Physics, 1991, 70, 6525-6527.	1.1	47
112	Giant magnetic hardening of a Fe-Zr-B-Cu amorphous alloy during the first stages of nanocrystallization. Physical Review B, 1996, 53, 3392-3397.	1.1	47
113	A position sensor based on magnetoimpedance. Journal of Applied Physics, 1996, 79, 6549.	1.1	47
114	The stress dependence of the switching field in glass-coated amorphous microwires. Journal Physics D: Applied Physics, 1998, 31, 3040-3045.	1.3	47
115	Hysteretic Behavior and Anisotropy Fields in the Magneto-Impedance Effect. Materials Science Forum, 1999, 302-303, 209-218.	0.3	47
116	Influence of aspect ratio and anisotropy distribution in ordered CoNi nanowire arrays. Journal of Magnetism and Magnetic Materials, 2012, 324, 3679-3682.	1.0	47
117	Magnetic domain observation in amorphous wires. Journal of Applied Physics, 1993, 73, 5357-5359.	1.1	46
118	Reliability analysis of temperature step-stress tests on IIIâ€“V high concentrator solar cells. Microelectronics Reliability, 2009, 49, 673-680.	0.9	46
119	Co nanostructures in ordered templates: comparative FORC analysis. Nanotechnology, 2013, 24, 475703.	1.3	46
120	Correlation between structure and the magnetic properties of amorphous and nanocrystalline Fe73.5Cu1Nb3Si22.5â^'xBx alloys. Journal of Magnetism and Magnetic Materials, 1994, 133, 310-313.	1.0	45
121	Magnetic force microscopy study of dense stripe domains in Fe-B/Co-Si-B multilayers and the evolution under an external applied field. Physical Review B, 2000, 62, 6538-6544.	1.1	45
122	The influence of Cr addition on the corrosion resistance of Fe73.5Si13.5B9Nb3Cu1 metallic glass in marine environments. Corrosion Science, 2002, 44, 1193-1211.	3.0	45
123	Tuning the magnetization reversal process of FeCoCu nanowire arrays by thermal annealing. Journal of Applied Physics, 2013, 114, .	1.1	45
124	Magnetic structure of a single-crystal hcp electrodeposited cobalt nanowire. Europhysics Letters, 2013, 102, 17009.	0.7	45
125	Single crystalline cylindrical nanowires â€“ toward dense 3D arrays of magnetic vortices. Scientific Reports, 2016, 6, 23844.	1.6	45
126	Different kinds of magnetic anisotropies induced by current annealing in metallic glasses. Journal of Magnetism and Magnetic Materials, 1987, 68, 151-156.	1.0	44

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127	Giant magnetoimpedance modelling using Fourier analysis in soft magnetic amorphous wires. Physica B: Condensed Matter, 2001, 299, 322-328.	1.3	44
128	High-temperature magnetic behavior of FeCo-based nanocrystalline alloys. Physical Review B, 2002, 66, .	1.1	44
129	Synthesis and magnetic properties of Ni nanocylinders in self-aligned and randomly disordered grown titania nanotubes. Nanotechnology, 2005, 16, 2696-2702.	1.3	44
130	Exchange bias, training effect, and bimodal distribution of blocking temperatures in electrodeposited core-shell nanotubes. Physical Review B, 2013, 87, .	1.1	44
131	Temperature dependence of the magnetostriction constant of nearly zero magnetostriction amorphous alloys. Applied Physics Letters, 1984, 45, 802-804.	1.5	43
132	Co-Si-B and Fe-Co-B amorphous alloys: Induced anisotropy and various magnetic properties. Journal of Magnetism and Magnetic Materials, 1987, 66, 37-44.	1.0	43
133	Microwave magnetoabsorption in glass-coated amorphous microwires with radii close to skin depth. Journal of Applied Physics, 2002, 92, 2058-2063.	1.1	43
134	Giant magnetoimpedance effect and magnetoelastic properties in stress-annealed FeCuNbSiB nanocrystalline wire. IEEE Transactions on Magnetics, 2002, 38, 3096-3098.	1.2	43
135	Origin of asymmetrical magnetoimpedance in a Co-based amorphous microwire due to dc bias current. Applied Physics Letters, 2003, 83, 2871-2873.	1.5	43
136	Calibration of Coercive and Stray Fields of Commercial Magnetic Force Microscope Probes. IEEE Nanotechnology Magazine, 2008, 7, 245-250.	1.1	43
137	Electrolyte influence on the anodic synthesis of TiO2 nanotube arrays. Journal of Non-Crystalline Solids, 2008, 354, 5233-5235.	1.5	43
138	Interacting amorphous ferromagnetic wires: A complex system. Journal of Applied Physics, 1999, 85, 2768-2774.	1.1	42
139	Influence of Ni on the structural and magnetic properties of NixFe73.5â^'xSi13.5B9Nb3Cu1 (0â©½xâ©½25) alloys. Journal of Applied Physics, 2005, 97, 023901.	1.1	42
140	Coercivity of ordered arrays of magnetic Co nanowires with controlled variable lengths. Applied Physics Letters, 2011, 98, .	1.5	42
141	Giant magnetoimpedance in CoP electrodeposited microtubes. Journal of Materials Research, 2000, 15, 751-755.	1.2	41
142	Self-organized nanowires: evidence of dipolar interactions from ferromagnetic resonance measurements. Physica B: Condensed Matter, 2004, 354, 195-197.	1.3	41
143	III-V concentrator solar cell reliability prediction based on quantitative LED reliability data. Progress in Photovoltaics: Research and Applications, 2007, 15, 477-491.	4.4	41
144	Vortex domain wall propagation in periodically modulated diameter FeCoCu nanowire as determined by the magneto-optical Kerr effect. Nanotechnology, 2015, 26, 461001.	1.3	41

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145	Correlation between structure and magnetic properties in Co_xFe_{100â^'x}nanowires: the roles of composition and wire diameter. Journal Physics D: Applied Physics, 2015, 48, 145304.	1.3	41
146	An alternative approach to giant magnetoimpedance phenomena in amorphous ferromagnetic wires. Journal of Applied Physics, 1995, 78, 5189-5191.	1.1	40
147	Glass-coated Co-rich amorphous microwires with enhanced permeability. Sensors and Actuators A: Physical, 2000, 81, 227-231.	2.0	40
148	Fabrication of Well-Ordered High-Aspect-Ratio Nanopore Arrays in TiO2 Single Crystals. Nano Letters, 2006, 6, 1065-1068.	4.5	40
149	Degradation of AlInGaP red LEDs under drive current and temperature accelerated life tests. Microelectronics Reliability, 2010, 50, 1559-1562.	0.9	40
150	Approach to magnetic saturation in rapidly quenched amorphous alloys. Physica Status Solidi A, 1989, 115, 547-553.	1.7	39
151	Induced anisotropy, magnetic domain structure and magnetoimpedance effect in CoFeB amorphous thin films. Journal of Magnetism and Magnetic Materials, 1999, 191, 339-344.	1.0	39
152	Revised core-shell domain model for magnetostrictive amorphous wires. IEEE Transactions on Magnetics, 2001, 37, 994-1002.	1.2	39
153	Skin-effect and circumferential permeability in micro-wires utilized in GMI-sensors. Sensors and Actuators A: Physical, 2005, 119, 384-389.	2.0	39
154	Optimized giant magnetoimpedance effect in amorphous and nanocrystalline materials. Journal of Applied Physics, 2006, 99, 08C505.	1.1	39
155	Phenomenological study of the amorphousFe80B20ferromagnet with small random anisotropy. Physical Review B, 1990, 42, 898-905.	1.1	38
156	Influence of Anodic Conditions on Self-ordered Growth of Highly Aligned Titanium Oxide Nanopores. Nanoscale Research Letters, 2007, 2, 355-363.	3.1	38
157	Variable-field magnetic force microscopy. Ultramicroscopy, 2009, 109, 693-699.	0.8	38
158	Magnetization reversal dependence on effective magnetic anisotropy in electroplated Coâ€“Cu nanowire arrays. Journal of Materials Chemistry C, 2015, 3, 4688-4697.	2.7	38
159	Curie-temperature enhancement of ferromagnetic phases in nanoscale heterogeneous systems. Physical Review B, 1996, 53, 8223-8226.	1.1	37
160	Hysteretic giant magneto impedance. Journal of Applied Physics, 1998, 84, 5814-5816.	1.1	37
161	Magnetoimpedance effect in CoFeNi plated wire with ac field annealing destabilized domain structure. Journal of Applied Physics, 1999, 85, 5438-5440.	1.1	37
162	Effect of induced magnetic anisotropy and domain structure features on magnetoimpedance in stress annealed Co-rich amorphous ribbons. Journal of Magnetism and Magnetic Materials, 1999, 196-197, 259-261.	1.0	37

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163	A detailed analysis of dipolar interactions in arrays of bi-stable magnetic nanowires. Nanotechnology, 2007, 18, 415708.	1.3	37
164	Effects of the magnetoelastic anisotropy in Ni nanowire arrays. Journal of Applied Physics, 2008, 103, .	1.1	37
165	Distinguishing nanowire and nanotube formation by the deposition current transients. Nanoscale Research Letters, 2012, 7, 280.	3.1	37
166	Induced anisotropies in ferromagnetic amorphous ribbons locally annealed by laser. Physical Review B, 1990, 42, 8086-8090.	1.1	36
167	Grain boundary impedance of doped Mnâ€“Zn ferrites. Journal of Materials Research, 1999, 14, 861-865.	1.2	36
168	Field induced vortex dynamics in magnetic Ni nanotriangles. Nanotechnology, 2008, 19, 285717.	1.3	36
169	Evaluation of the reliability of high concentrator GaAs solar cells by means of temperature accelerated aging tests. Progress in Photovoltaics: Research and Applications, 2013, 21, 1104-1113.	4.4	36
170	Cylindrical micro and nanowires: Fabrication, properties and applications. Journal of Magnetism and Magnetic Materials, 2020, 513, 167074.	1.0	36
171	Effects of bias field and driving current on the equivalent circuit response of magnetoimpedance in amorphous wires. Journal Physics D: Applied Physics, 1995, 28, 2404-2410.	1.3	35
172	Exchange anisotropy in Co80Ni20/oxide nanoparticles. Nanotechnology, 2004, 15, S293-S297.	1.3	35
173	Magnetostriction of amorphous (Co1â^'xFex)75Si15B10 ribbons (0 â©½ x â©½ 0.12) and its temperature dependence. Solid State Communications, 1984, 52, 701-703.	0.9	34
174	The torsional dependence of the magneto-impedance effect in current-annealed Co-rich amorphous wires. Journal Physics D: Applied Physics, 1998, 31, 3331-3336.	1.3	34
175	Well-ordered nanopore arrays in rutile TiO2single crystals by swift heavy ion-beam lithography. Nanotechnology, 2007, 18, 305303.	1.3	34
176	Toward Rare-Earth-Free Permanent Magnets: A Combinatorial Approach Exploiting the Possibilities of Modeling, Shape Anisotropy in Elongated Nanoparticles, and Combinatorial Thin-Film Approach. Jom, 2015, 67, 1318-1328.	0.9	34
177	Chemical Homogeneity of Nanocrystalline Znâ€“Mn Spinel Ferrites Obtained by High-Energy Ball Milling. Journal of Solid State Chemistry, 1998, 141, 10-16.	1.4	33
178	Influence of geometrical parameters on the giant magnetoimpedance response in amorphous ribbons. Journal of Magnetism and Magnetic Materials, 2000, 215-216, 740-742.	1.0	33
179	Power absorption and ferromagnetic resonance in Co-rich metallic glasses. IEEE Transactions on Magnetics, 2001, 37, 561-564.	1.2	33
180	Ordered magnetic nanohole and antidot arrays prepared through replication from anodic alumina templates. Journal of Magnetism and Magnetic Materials, 2008, 320, 1978-1983.	1.0	33

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181	Magnetic behavior of the amorphous wires covered by glass. Journal of Applied Physics, 1994, 75, 6949-6951.	1.1	32
182	FMR characterization of hexagonal arrays of Ni nanowires. Journal of Magnetism and Magnetic Materials, 2004, 272-276, 1652-1653.	1.0	32
183	Magnetic nanowire arrays in anodic alumina membranes: Rutherford backscattering characterization. Applied Physics A: Materials Science and Processing, 2005, 80, 1701-1706.	1.1	32
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