Kiyonori Suzuki

List of Publications by Year
in descending order

190 papers	6,186 citations	94269 37 h-index	82410 72 g-index
191 all docs	191 docs citations	191 times ranked	4753 citing authors

#	Article	IF	Citations
1	Soft magnetic properties of nanocrystalline bcc Feâ€Zrâ€B and Feâ€Mâ€Bâ€Cu (M=transition metal) alloys with high saturation magnetization (invited). Journal of Applied Physics, 1991, 70, 6232-6237.	1.1	432
2	High Saturation Magnetization and Soft Magnetic Properties of bcc Fe–Zr–B Alloys with Ultrafine Grain Structure. Materials Transactions, JIM, 1990, 31, 743-746.	0.9	414
3	High Saturation Magnetization and Soft Magnetic Properties of bcc Fe–Zr–B and Fe–Zr–B–M (M=Transition Metal) Alloys with Nanoscale Grain Size. Materials Transactions, JIM, 1991, 32, 93-102.	0.9	364
4	Random magnetocrystalline anisotropy in two-phase nanocrystalline systems. Physical Review B, 1998, 58, 2730-2739.	1.1	243
5	Chemically Induced Permanent Magnetism in Au, Ag, and Cu Nanoparticles:â€‰ Localization of the Magnetism by Element Selective Techniques. Nano Letters, 2008, 8, 661-667.	4.5	220
6	Low core losses of nanocrystalline Feâ€“Mâ€“B (M=Zr, Hf, or Nb) alloys. Journal of Applied Physics, 1993, 74, 3316-3322.	1.1	208
7	Lead(<scp>ii</scp>) uptake by aluminium based magnetic framework composites (MFCs) in water. Journal of Materials Chemistry A, 2015, 3, 19822-19831.	5.2	141
8	The effect of coherent uniaxial anisotropies on the grain-size dependence of coercivity in nanocrystalline soft magnetic alloys. Journal of Magnetism and Magnetic Materials, 1998, 177-181, 949-950.	1.0	121
9	Comparative Study of the Magnetic Behavior of Spherical and Cubic Superparamagnetic Iron Oxide Nanoparticles. Journal of Physical Chemistry C, 2011, 115, 327-334.	1.5	119
10	Processing of Iron Oxide Nanoparticles by Supercritical Fluids. Industrial & Engineering Chemistry Research, 2008, 47, 599-614.	1.8	108
11	Magnetic Metalâ€“Organic Frameworks for Efficient Carbon Dioxide Capture and Remote Trigger Release. Advanced Materials, 2016, 28, 1839-1844.	11.1	107
12	A Gallium-Based Magnetocaloric Liquid Metal Ferrofluid. Nano Letters, 2017, 17, 7831-7838.	4.5	101
13	Defects engineering induced room temperature ferromagnetism in transition metal doped MoS 2. Materials and Design, 2017, 121, 77-84.	3.3	97
14	Cyclic crystallineâ€“amorphous transformations of mechanically alloyed Co75Ti25. Applied Physics Letters, 1997, 70, 1679-1681.	1.5	93
15	Magnetic-field-induced anisotropies and exchange softening in Fe-rich nanocrystalline soft magnetic alloys. Scripta Materialia, 2012, 67, 548-553.	2.6	92
16	Fast Deswelling of Nanocomposite Polymer Hydrogels via Magnetic Field-Induced Heating for Emerging FO Desalination. Environmental Science & Technology, 2013, 47, 6297-6305.	4.6	82
17	Low Core Loss of a bcc Fe₈₆Zr₇B₆Cu₁0.9 Alloy with Nanoscale Grain Size. Materials Transactions, JIM, 1991, 32, 551-556.		81
18	Copper-free nanocrystalline soft magnetic materials with high saturation magnetization comparable to that of Si steel. Applied Physics Letters, 2017, 110, .	1.5	81

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19	Inducing High Coercivity in MoS₂ Nanosheets by Transition Element Doping. Chemistry of Materials, 2017, 29, 9066-9074.	3.2	81
20	Effect of heating rate during primary crystallization on soft magnetic properties of melt-spun Fe-B alloys. Scripta Materialia, 2017, 132, 68-72.	2.6	75
21	Cyclic phase transformations of mechanically alloyed Co75Ti25 powders. Acta Materialia, 2002, 50, 1113-1123.	3.8	74
22	Magnetic, transport, and electron magnetic resonance properties ofLa0.82Ca0.18MnO3single crystals. Physical Review B, 2002, 65, .	1.1	67
23	Synthesis and electromagnetic interference shielding properties of iron oxide/polypyrrole nanocomposites. Polymer Engineering and Science, 2011, 51, 247-253.	1.5	67
24	Changes in Microstructure and Soft Magnetic Properties of an Fe₈₆Zr₇B₆Cu₁0.9 Amorphous Alloy upon Crystallization. Materials Transactions, JIM, 1991, 32, 961-968.		62
25	Magnetic properties and microstructure of nanocrystalline bcc Fe-M-B (M = Zr, Hf, Nb) alloys. Journal of Magnetism and Magnetic Materials, 1994, 133, 329-333.	1.0	59
26	Magnetic Induction Swing Adsorption: An Energy Efficient Route to Porous Adsorbent Regeneration. Chemistry of Materials, 2016, 28, 6219-6226.	3.2	59
27	Magnetic properties and core losses of nanocrystalline Feî—¸Mî—¸B (M î—¼ Zr, Hf or Nb) alloys. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 1994, 179-180, 127-131.	2.6	58
28	Low-temperature phase MnBi compound: A potential candidate for rare-earth free permanent magnets. Journal of Alloys and Compounds, 2014, 615, S285-S290.	2.8	57
29	Local random magnetocrystalline and macroscopic induced anisotropies in magnetic nanostructures. Journal of Non-Crystalline Solids, 2008, 354, 5089-5092.	1.5	55
30	Morphological and magnetic characteristics of monodispersed Co-cluster assemblies. Journal of Applied Physics, 1999, 86, 5726-5732.	1.1	53
31	Soft magnetic properties of rapidly-annealed nanocrystalline Fe-Nb-B-(Cu) alloys. Journal of Alloys and Compounds, 2017, 723, 408-417.	2.8	53
32	The role of boron in nanocrystalline Feî—¸Zrî—¸B soft magnetic alloys. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 1994, 179-180, 501-505.	2.6	48
33	Nanocrystalline soft magnetic materials with a saturation magnetization greater than 2â€¯T. Journal of Magnetism and Magnetic Materials, 2019, 485, 180-186.	1.0	47
34	MaLISA â€“ a cooperative method to release adsorbed gases from metalâ€“organic frameworks. Journal of Materials Chemistry A, 2016, 4, 18757-18762.	5.2	46
35	Nano-crystallization of amorphous alloys by ultra-rapid annealing: An effective approach to magnetic softening. Journal of Alloys and Compounds, 2018, 735, 613-618.	2.8	45
36	Soft Magnetic Nanostructures and Applications. , 2006, , 365-401.		42

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37	Soft Magnetic Properties of bcc Fe-M-B-Cu (M=Ti, Nb or Ta) Alloys with Nanoscale Grain Size. Japanese Journal of Applied Physics, 1991, 30, L1729-L1732.	0.8	39
38	The role of alloying elements in Cu-free nanocrystalline Fe-Nb-B soft magnetic alloys. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 1997, 226-228, 554-558.	2.6	38
39	High saturation magnetization and soft magnetic properties of nanocrystalline (Fe,Co)90Zr7B3 alloys annealed under a rotating magnetic field. Journal of Applied Physics, 2006, 99, 08F114.	1.1	38
40	Time-temperature-transformation study of a nanocrystalline Fe91Zr7B2 soft magnetic alloy. Journal of Applied Physics, 1996, 79, 5149.	1.1	37
41	Longitudinal polarization analysis in small-angle neutron scattering. European Physical Journal B, 2010, 76, 209-213.	0.6	37
42	Ferromagnetism and Crossover of Positive Magnetoresistance to Negative Magnetoresistance in Na-Doped ZnO. Chemistry of Materials, 2015, 27, 1285-1291.	3.2	37
43	Pressure effects on the magnetic and transport properties ofPr1â^'xSrxMnO3crystals near the percolation threshold. Physical Review B, 2005, 71, .	1.1	36
44	Phase reduction of coated maghemite (Î³-Fe₂O₃) nanoparticles under microwave-induced plasma heating for rapid heat treatment. Journal of Materials Chemistry, 2012, 22, 617-625.	6.7	36
45	Magnetoelastic coupling and competing entropy changes in substituted CoMnSi metamagnets. Physical Review B, 2013, 87, .	1.1	36
46	Nanocrystalline soft magnetic materials from binary alloy precursors with high saturation magnetization. AIP Advances, 2019, 9, .	0.6	36
47	Room temperature ferromagnetism in nanostructured ZnOâ€“Al system. Applied Physics Letters, 2009, 95, 172507.	1.5	35
48	Effect of Cr doping on crystallization behavior of Fe3B/Nd2Fe14B nanocomposite permanent magnets. Journal of Magnetism and Magnetic Materials, 1998, 177-181, 997-998.	1.0	34
49	Magnetic domains and annealing-induced magnetic anisotropy in nanocrystalline soft magnetic materials. Journal of Applied Physics, 2008, 103, .	1.1	34
50	Magnetic Induction Framework Synthesis: A General Route to the Controlled Growth of Metalâ€“Organic Frameworks. Chemistry of Materials, 2017, 29, 6186-6190.	3.2	34
51	Effect of Si on the field-induced anisotropy in Fe-rich nanocrystalline soft magnetic alloys. Journal of Alloys and Compounds, 2017, 695, 3156-3162.	2.8	33
52	Core loss of ultra-rapidly annealed Fe-rich nanocrystalline soft magnetic alloys. Journal of Magnetism and Magnetic Materials, 2019, 476, 142-148.	1.0	33
53	Particle size dependence of heating power in MgFe2O4 nanoparticles for hyperthermia therapy application. Journal of Applied Physics, 2014, 115, .	1.1	32
54	Effect of Co or Ge doping on the intergranular magnetic coupling in nanocrystalline Fe[sub 89]Zr[sub 7]B[sub 3]Cu[sub 1]. Journal of Applied Physics, 2002, 91, 8417.	1.1	30

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55	The effect of the spontaneous magnetization in the grain boundary region on the magnetic softness of nanocrystalline materials. Journal of Applied Physics, 1999, 85, 4400-4402.	1.1	29
56	Magnetization reversal in Nd-Fe-B based nanocomposites as seen by magnetic small-angle neutron scattering. Applied Physics Letters, 2013, 102, 022415.	1.5	29
57	Effect of substitutional elements on the hydrogen absorptionâ€“desorption properties of Ti3Al compounds. Journal of Alloys and Compounds, 2001, 314, 257-261.	2.8	28
58	Dipolar correlations in a nanocomposite: A neutron scattering study of NanopermFe89Zr7B3Cu. Physical Review B, 2006, 74, .	1.1	28
59	Soft Magnetic Properties of Electrodeposited Fe-Ni Films Prepared in Citric Acid Based Bath. IEEE Transactions on Magnetics, 2012, 48, 2907-2909.	1.2	28
60	Fe₃O₄@HKUST-1 and Pd/Fe₃O₄@HKUST-1 as magnetically recyclable catalysts prepared via conversion from a Cu-based ceramic. CrystEngComm, 2017, 19, 4201-4210.	1.3	28
61	Formation and decomposition of Fe3B/Nd2Fe14B nanocomposite structure in Feâ€“Ndâ€“Bâ€“Cr melt-spun ribbons under isothermal annealing. Journal of Applied Physics, 1999, 85, 5914-5916.	1.1	27
62	Effect of magnetic field annealing on the soft magnetic properties of nanocrystalline materials. Journal of Magnetism and Magnetic Materials, 2007, 316, 458-461.	1.0	27
63	Exchange Bias Effect in La_{0.2}Ca_{0.8}MnO₃ Antiferromagnetic Nanoparticles with Two Ferromagnetic-Like Contributions. Journal of Physical Chemistry C, 2011, 115, 1582-1591.	1.5	27
64	Continuous Flow Synthesis of a Zr Magnetic Framework Composite for Postâ€Combustion CO₂ Capture. Chemistry - A European Journal, 2019, 25, 13184-13188.	1.7	27
65	Soft Magnetic Properties of bcc Fe–Zr–B Sputtered Films with Nanoscale Grain Size. Materials Transactions, JIM, 1992, 33, 80-86.	0.9	26
66	Engineered Porous Nanocomposites That Deliver Remarkably Low Carbon Capture Energy Costs. Cell Reports Physical Science, 2020, 1, 100070.	2.8	26
67	Nanocrystalline Soft Magnetic Materials: A Decade of Alloy Development. Materials Science Forum, 1999, 312-314, 521-530.	0.3	25
68	Hydrogen absorption and desorption in the binary Tiâ€“Al system. Journal of Alloys and Compounds, 2002, 330-332, 547-550.	2.8	25
69	Intrinsic and spatially nonuniform ferromagnetism in Co-doped ZnO films. Physical Review B, 2017, 96, .	1.1	25
70	Towards energy efficient separations with metal organic frameworks. Chemical Communications, 2018, 54, 2825-2837.	2.2	25
71	Degradation of LaNi₅ and LaNi_{4.7}Al_{0.3} Hydrogen-Absorbing Alloys by Cycling. Materials Transactions, JIM, 2000, 41, 581-584.	0.9	23
72	Intrinsic or Interface Clustering-Induced Ferromagnetism in Fe-Doped In₂O₃-Diluted Magnetic Semiconductors. ACS Applied Materials & Interfaces, 2018, 10, 22372-22380.	4.0	23

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73	Magnetic properties of iron-base b.c.c. alloys produced by mechanical alloying. Journal of Materials Science, 1991, 26, 4621-4625.	1.7	22
74	Colossal Magnetization and Giant Coercivity in Ion-Implanted (Nb and Co) MoS₂ Crystals. ACS Applied Materials & Interfaces, 2020, 12, 58140-58148.	4.0	22
75	Twoâ€stage nanostructural formation process in Feâ€“Nbâ€“B soft magnetic alloys. Applied Physics Letters, 1995, 67, 1369-1371.	1.5	21
76	Nano-crystallisation and magnetic softening in Feâ€“B binary alloys induced by ultra-rapid heating. Journal Physics D: Applied Physics, 2018, 51, 415001.	1.3	21
77	Dramatic grain refinement and magnetic softening induced by Ni addition in Fe B based nanocrystalline soft magnetic alloys. Scripta Materialia, 2020, 181, 82-85.	2.6	21
78	Soft Magnetic Properties of Nanocrystalline Fe-Co-Zr-B Alloys. Journal of the Magnetics Society of Japan, 1994, 18, 800-804.	0.4	21
79	Effect of Fe-exchange-field penetration on the residual amorphous phase in nanocrystalline Fe92Zr8. Journal of Applied Physics, 2000, 87, 7097-7099.	1.1	19
80	Extraordinary induction heating effect near the first order Curie transition. Applied Physics Letters, 2014, 105, .	1.5	19
81	Bifunctional Fe3O4@AuNWs particle as wearable bending and strain sensor. Inorganic Chemistry Communication, 2019, 104, 98-104.	1.8	19
82	Nanocrystallization and glass transition in Cu-Free Fe-Nb-B soft magnetic alloys. Scripta Materialia, 2001, 44, 1417-1420.	2.6	18
83	Exchange-stiffness constant of a Nd-Fe-B based nanocomposite determined by magnetic neutron scattering. Applied Physics Letters, 2013, 103, .	1.5	17
84	Analysis of magnetic neutron-scattering data of two-phase ferromagnets. Physical Review B, 2013, 88, .	1.1	17
85	Magnetic Framework Composites for Low Concentration Methane Capture. Industrial & Engineering Chemistry Research, 2018, 57, 6040-6047.	1.8	17
86	Spin reorientation transition and hard magnetic properties of MnBi intermetallic compound. Journal of Applied Physics, 2012, 111, .	1.1	16
87	New ${m T}_{m c}$-Tuned Manganese Ferrite-Based Magnetic Implant for Hyperthermia Therapy Application. IEEE Transactions on Magnetics, 2013, 49, 3460-3463.	1.2	16
88	Prediction of density in amorphous and nanocrystalline soft magnetic alloys: A data mining approach. Journal of Alloys and Compounds, 2021, 859, 157845.	2.8	16
89	Effect of Cr content on decomposition behaviour of amorphous Nd5Fe74Cr3B18. Scripta Materialia, 2000, 42, 487-492.	2.6	15
90	Surface Charge Transfer Induced Ferromagnetism in Nanostructured ZnO/Al. Journal of Physical Chemistry C, 2012, 116, 8541-8547.	1.5	15

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91	Efficient delivery of oxygen via magnetic framework composites. Journal of Materials Chemistry A, 2019, 7, 3790-3796.	5.2	15
92	Thermal analysis of hydrogen-induced amorphization in C15 Laves RFe2 compounds. Journal of Alloys and Compounds, 2002, 330-332, 743-746.	2.8	14
93	Hydrogen-induced amorphization in off-stoichiometric Ti3Al. Scripta Materialia, 2001, 44, 2591-2595.	2.6	13
94	Dipole-fieldâ€“induced spin disorder in a nanocomposite soft magnet. Europhysics Letters, 2005, 72, 249-255.	0.7	13
95	Thiol-capped ferromagnetic Au nanoparticles investigated by Au L3 x-ray absorption spectroscopy. Journal of Applied Physics, 2009, 105, 07A907.	1.1	13
96	Magnetic and structural characterization of thiol capped ferromagnetic Ag nanoparticles. Journal of Applied Physics, 2010, 107, .	1.1	13
97	Electroplated Fe films prepared from a deep eutectic solvent. Journal of Applied Physics, 2014, 115, 17A344.	1.1	13
98	Fe-Pt thick-film magnets prepared by electroplating method. Journal of Applied Physics, 2015, 117, .	1.1	13
99	Effect of temperature on cementite formation by reaction of iron ore with H2-CH4-Ar gas. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2000, 31, 1139-1142.	1.0	12
100	Magnetic properties of electron-doped La0.23Ca0.77MnO3 nanoparticles. Journal of Nanoparticle Research, 2012, 14, 1.	0.8	12
101	Spin Structures of Textured and Isotropic Nd-Fe-B-Based Nanocomposites: Evidence for Correlated Crystallographic and Spin Textures. Physical Review Applied, 2017, 7, .	1.5	12
102	Soft Magnetic Properties of Fe-Hf-B Ternary Alloys with Nanoscale bcc Structure. Nippon Kinzoku Gakkaishi/Journal of the Japan Institute of Metals, 1993, 57, 964-971.	0.2	12
103	Magnetic force microscopy study of nanocrystalline Fe91Zr7B2 soft magnetic alloy. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 1997, 226-228, 586-589.	2.6	11
104	Effect of intergranular magnetic coupling on soft magnetic and magnetotransport properties in nanocrystalline materials. Scripta Materialia, 2003, 48, 875-880.	2.6	11
105	Improvement of magnetic softness in nanocrystalline soft magnetic materials by rotating magnetic field annealing. Journal of Applied Physics, 2005, 97, 10F503.	1.1	11
106	Observation of cross-shaped anisotropy in spin-resolved small-angle neutron scattering. Physical Review B, 2012, 85, .	1.1	11
107	Soft magnetic performance of ultra-rapidly annealed high-Bs Fe-(Co)-B nanocrystalline alloys at elevated temperatures. Journal of Alloys and Compounds, 2022, 911, 165033.	2.8	11
108	Neutron scattering and modeling of dipole-field-induced spin disorder in Nanoperm. Applied Physics Letters, 2005, 87, 202509.	1.5	10

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109	Effect of boron on the field-induced magnetic anisotropy in Fe-based soft magnetic nanostructures. Journal of Applied Physics, 2009, 105, .	1.1	10
110	Room temperature spontaneous magnetization in calcined trioctylphosphine-ZnO nanoparticles. Journal of Applied Physics, 2012, 111, .	1.1	10
111	Nonylphenol polyethoxylate coated body-center-cubic iron nanocrystals for ferrofluids with technical applications. Journal of Applied Physics, 2013, 113, .	1.1	10
112	Effect of current density on magnetic properties of electrodeposited Fe-Ni films prepared in a citric-acid-based-bath. Journal of Applied Physics, 2014, 115, 17A325.	1.1	10
113	Electroplated Feâ€“Ni Films Prepared From Deep Eutectic Solvents. IEEE Transactions on Magnetics, 2014, 50, 1-4.	1.2	10
114	Magnetic Fe-Co films electroplated in a deep-eutectic-solvent-based plating bath. Journal of Applied Physics, 2015, 117, 17A925.	1.1	10
115	Improvement in current efficiency of electroplated Fe-Ni films prepared in citric-acid-based baths. Journal of Applied Physics, 2015, 117, 17A326.	1.1	10
116	Soft magnetic properties of Ge-doped nanocrystalline Feâ€“Zrâ€“B alloys. Journal of Magnetism and Magnetic Materials, 2003, 254-255, 441-443.	1.0	9
117	Production of magnetic microspheres by ultrasonic atomisation. Journal of Magnetism and Magnetic Materials, 2007, 311, 97-100.	1.0	9
118	Role of the residual amorphous phase in the intergranular magnetic coupling in nanocrystalline magnetic alloys. Journal of Magnetism and Magnetic Materials, 1999, 203, 229-230.	1.0	8
119	Emergence of Hydrogen Absorption Ability in Metastable HCP, FCC and Amorphous Ti-Al Alloys Prepared by Mechanical Grinding. Materials Transactions, 2002, 43, 2734-2740.	0.4	8
120	The use of plasma treatment for simultaneous carbonization and reduction of iron oxide/polypyrrole core/shell nanoparticles. Journal of Nanoparticle Research, 2012, 14, 1.	0.8	8
121	Electrodeposited Fe-Co films prepared from a citric-acid-based plating bath. Journal of the Korean Physical Society, 2013, 62, 1966-1968.	0.3	8
122	Confinement-Induced Giant Spinâ€“Orbit-Coupled Magnetic Moment of Co Nanoclusters in TiO₂ Films. ACS Applied Materials & Interfaces, 2019, 11, 43781-43788.	4.0	8
123	Nanocrystalline (Fe,Co,Ni)86B14 soft magnetic alloys prepared by ultra-rapid annealing. Journal of Alloys and Compounds, 2022, 902, 162544.	2.8	8
124	Formation of amorphous and nanocrystalline alloys by hydrogenation of C15 laves RMn 2. Scripta Materialia, 2001, 44, 2019-2022.	2.6	7
125	Magnetoresistance of nanocrystallized amorphous Feâ€“Zrâ€“(Ru) alloys. Journal of Magnetism and Magnetic Materials, 2002, 242-245, 273-275.	1.0	7
126	Decomposition behaviour of amorphous Fe89ÂxZr7B3Cu1Gexalloys. Journal Physics D: Applied Physics, 2004, 37, 645-652.	1.3	7

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127	Exchange interactions in hydrogen-induced amorphous YFe2. Journal of Non-Crystalline Solids, 2007, 353, 748-752.	1.5	7
128	Small-angle Neutron Scattering with One-dimensional Polarization Analysis. Neutron News, 2011, 22, 15-19.	0.1	7
129	Induced magnetic anisotropy in Si-free nanocrystalline soft magnetic materials: A transmission x-ray diffraction study. Journal of Applied Physics, 2015, 117, 17A333.	1.1	7
130	Microstructural and magnetic properties of Nd-Fe-B alloys processed by equal-channel angular pressing. Journal of Applied Physics, 2015, 117, .	1.1	7
131	Estimation of volume-weighted average grain size in Fe-based nanocrystalline soft magnetic materials by autocorrelation function. Materials Characterization, 2018, 142, 577-583.	1.9	7
132	Performance evaluation of CuBTC composites for room temperature oxygen storage. RSC Advances, 2020, 10, 40960-40968.	1.7	7
133	Role of magnetostriction on power losses in nanocrystalline soft magnets. NPG Asia Materials, 2022, 14, .	3.8	7
134	On the Nanostructural Formation Process in Fe-M-B (M=Zr or Nb) Soft Magnetic Alloys. Materials Science Forum, 1997, 235-238, 765-770.	0.3	6
135	MÃ¶ssbauer Study of Amorphous and Nanocrytalline Fe-Nb-B Alloys. Materials Science Forum, 1996, 225-227, 707-712.	0.3	6
136	The Role of the M Element in Nanocrystalline Fe-M-B (M=Zr, Hf and Nb) Soft Magnetic Alloys. Materials Science Forum, 1996, 225-227, 665-670.	0.3	6
137	Hydrogen absorption properties of Ti3Al-based ternary alloys. Journal of Alloys and Compounds, 2002, 330-332, 543-546.	2.8	6
138	Magnetic properties of hydrogen-induced amorphous YFe2. Journal of Applied Physics, 2003, 93, 7658-7660.	1.1	6
139	Anin situneutron diffraction study of magnetic hardening in Fe3B/Nd2Fe14B nanocomposite magnets induced by rapid thermal annealing. Journal of Applied Physics, 2009, 105, 07A735.	1.1	6
140	Ferromagnetism of polythiophene-capped Au nanoparticles. Journal of Applied Physics, 2011, 109, .	1.1	6
141	Evidence of Oxygen Vacancy Mediated Room-Temperature-Ferromagnetism in Co-Doped ZnO Films Upon Hydrogen Treatment. Integrated Ferroelectrics, 2013, 144, 1-8.	0.3	6
142	Effect of direct-current magnetic field on the specific absorption rate of metamagnetic CoMnSi: A potential approach to switchable hyperthermia therapy. AIP Advances, 2020, 10, 015128.	0.6	6
143	Nanocrystalline soft magnetic materials produced by continuous ultra-rapid annealing (CURA). AIP Advances, 2022, 12, .	0.6	6
144	Critical behaviour in the temperature dependence of the coercivity for nanocrystalline soft-magnetic materials. Philosophical Magazine Letters, 1998, 77, 371-379.	0.5	5

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145	Effect of Annealing on the Hydrogen Permeation and Mechanical Behaviour of Nb-Ni-Zr Alloy Membranes. Materials Science Forum, 0, 654-656, 2839-2842.	0.3	5
146	Room-temperature spontaneous magnetization in a nanostructured TiO2â€“Al system prepared by ball-milling. Journal of Alloys and Compounds, 2012, 536, S287-S290.	2.8	5
147	Electrodeposited Fe-Ni films prepared from a tartaric-acid-based bath. Journal of the Korean Physical Society, 2013, 62, 1963-1965.	0.3	5
148	Electrodeposited Feâ€“Ni Films Prepared in a Citric-Acid-Based Bath with Different pH Values. IEEE Transactions on Magnetics, 2014, 50, 1-3.	1.2	5
149	Experimental observation of third-order effect in magnetic small-angle neutron scattering. Physical Review B, 2020, 101, .	1.1	5
150	Magnetic Guinier law. IUCrJ, 2020, 7, 136-142.	1.0	5
151	Unraveling the magnetic softness in Feâ€“Niâ€“B-based nanocrystalline material by magnetic small-angle neutron scattering. IUCrJ, 2022, 9, 65-72.	1.0	5
152	A STM study of the microstructure of amorphous and nanocrystalline Fe-Zr-B-Cu ribbons. Scripta Materialia, 1995, 5, 281-287.	0.5	4
153	MÃ¶ssbauer study of Nd5Fe77âˆ’xCrxB18 (x=0,3 and 5) nanocomposite magnets. Journal of Magnetism and Magnetic Materials, 2001, 226-230, 1481-1483.	1.0	4
154	Magnetic hardening in Fe3Bâˆ•Nd2Fe14B nanocomposite magnets induced by rapid thermal annealing. Journal of Applied Physics, 2006, 99, 08B505.	1.1	4
155	Thermal expansion of Fe-TM-B (TM=transition metal) bulk amorphous forming alloys. Journal of Applied Physics, 2008, 103, .	1.1	4
156	Fabrication, characterization and magnetic properties of Na-doped ZnO nanorods. Functional Materials Letters, 2016, 09, 1650039.	0.7	4
157	Effect of latent heat during primary crystallization on the nanostructural formation process in nanocrystalline soft magnetic materials. AIP Advances, 2020, 10, .	0.6	4
158	Hydrogen permeation behavior of multifilamentary Cuâ€“Nb superconducting composites. Scripta Materialia, 2010, 62, 582-585.	2.6	3
159	Nanometer Size Effect on Structural and Magnetic Properties of La0.2Ca0.8MnO3. Journal of Nanoscience and Nanotechnology, 2012, 12, 8607-8612.	0.9	3
160	A two-step process for preparation of dodecanethiol-capped Au nanoparticles with room-temperature spontaneous magnetization. New Journal of Chemistry, 2013, 37, 2628.	1.4	3
161	Nanostructural formation kinetics in an <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>Fe</mml:mi><mml:mn>86</mml:mn></mml:msub><mml:msub><mml:mi mathvariant="normal">B</mml:mi><mml:mn>14</mml:mn></mml:msub></mml:mrow></mml:math> soft magnetic alloy investigated by in situ transport measurements under isothermal conditions. Physical Review Materials, 2020, 4, .	0.9	3
162	Production of flaky amorphous powders in Fe-Zr-B system by a supercooled liquid quenching method, and their magnetic properties. Journal of Materials Science, 1994, 29, 1825-1832.	1.7	2

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163	Nanocrystalline Soft Magnetic Materials: A Decade of Alloy Development. Journal of Metastable and Nanocrystalline Materials, 1999, 2-6, 521-530.	0.1	2
164	Noncollinearity of the magnetic structure of TbFe10V2. Journal of Applied Physics, 2003, 93, 6972-6974.	1.1	2
165	Fe-M-B (M = IVa TO VIa Metal) Nanocrystalline Soft Magnetic Materials. , 2005, , 1-14.		2
166	Grain growth process of two-phase nanocrystalline soft magnetic materials. Journal of Magnetism and Magnetic Materials, 2006, 304, e693-e696.	1.0	2
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