

New Fe-based soft magnetic alloys composed of ultrafine

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Citation Report

#	ARTICLE	IF	CITATIONS
1	Effect of Additional Cu Element on Structure and Crystallization Behavior of Amorphous Fe-Nb-Si-B Alloys. Japanese Journal of Applied Physics, 1989, 28, L1820-L1823.	0.8	70
2	Metallurgical influences on the magnetic properties of rapidly quenched Fe base alloys. Journal of Materials Engineering, 1989, 11, 15-25.	0.3	0
3	Effects of magnetic field annealing on magnetic properties in ultrafine crystalline Fe-Cu-Nb-Si-B alloys. IEEE Transactions on Magnetics, 1989, 25, 3324-3326.	1.2	180
4	Grain structure and magnetism of nanocrystalline ferromagnets. IEEE Transactions on Magnetics, 1989, 25, 3327-3329.	1.2	1,176
5	Research and development opportunities for rapidly solidified soft magnetic materials. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 1989, 3, 457-466.	1.7	7
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7	Nanocrystalline materials. Progress in Materials Science, 1989, 33, 223-315.	16.0	3,586
8	Development of ultrafine crystalline soft magnetic materials "FINEMET".. Bulletin of the Japan Institute of Metals, 1989, 28, 301-303.	0.1	3
9	Soft Magnetic Properties of bcc Fe&dash;Au&dash;X&dash;Si&dash;B (X=Early Transition Metal) Alloys with Fine Grain Structure. Materials Transactions, JIM, 1989, 30, 947-950.	0.9	17
10	High Saturation Magnetization and Soft Magnetic Properties of bcc Fe&dash;Zr&dash;B Alloys with Ultrafine Grain Structure. Materials Transactions, JIM, 1990, 31, 743-746.	0.9	414
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16	Induced magnetic anisotropy and thickness dependence of magnetic properties in nanocrystalline alloy "finemet".. Journal of the Magnetics Society of Japan, 1990, 14, 193-196.	0.4	7
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32	Crystallization Behavior of Fe-M-C (M = Ti,Zr,Hf,V,Nb,Ta) Films. IEEE Translation Journal on Magnetism in Japan, 1991, 6, 120-126.	0.1	12
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57	Atom probe analysis of Fe <sub>73.5</sub> Si <sub>13.5</sub> B <sub>9</sub> Nb <sub>3</sub> Cu <sub>1</sub> nanocrystalline soft magnetic material. Applied Physics Letters, 1991, 58, 2180-2182.	1.5	120
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75	Mossbauer spectroscopy in nanocrystalline materials. IEEE Transactions on Magnetics, 1992, 28, 2424-2426.	1.2	29
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1687	Study of structural and magnetic properties of Co-substituted (Fe <sub>100-x</sub> Co <sub>x</sub> ) <sub>78</sub> Si <sub>9</sub> Nb <sub>3</sub> B <sub>9</sub> Cu <sub>1</sub> alloys. Journal of Physics: Conference Series, 2009, 144, 012078.	0.3	1
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1721	Nanocrystals and amorphous matrix phase studies of Finemet-like alloys containing Ge. <i>Journal of Magnetism and Magnetic Materials</i> , 2010, 322, 1784-1792.	1.0	18
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1840	Influence of Fabrication Process on Magnetic Properties of Co-Finemet Nanocrystalline Powder Core. Advanced Materials Research, 0, 399-401, 1008-1011.	0.3	0
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1880	Crystallization kinetics and magnetic properties of Fe <sub>63.5</sub> Co <sub>10</sub> Si <sub>13.5</sub> B <sub>9</sub> Cu <sub>1</sub> Nb <sub>3</sub> nanocrystalline powder cores. Journal of Non-Crystalline Solids, 2012, 358, 200-203.	1.5	10
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1883	Structure and magnetic properties of Ni <sub>5</sub> (Fe <sub>0.5</sub> Co <sub>0.5</sub> ) <sub>68.5</sub> Si <sub>13.5</sub> Nb <sub>3</sub> B <sub>9</sub> Cu alloy. Journal of Magnetism and Magnetic Materials, 2012, 324, 3981-3985.	1.0	11
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1930	Fabrication and characterization of nano/amorphous dual-phase FINEMET microwires. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2013, 178, 1483-1490.	1.7	15
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1932	Preparation of a bulk Fe <sub>83</sub> B <sub>17</sub> soft magnetic alloy by undercooling and copper-mold casting methods. <i>Journal of Magnetism and Magnetic Materials</i> , 2013, 346, 44-47.	1.0	5
1933	Current-Induced Fast-Ordering of L1 <sub>0</sub> FePt Films With Small Grain Size. <i>IEEE Transactions on Magnetics</i> , 2013, 49, 3660-3662.	1.2	5
1934	Design Parameters for Nanostructured Soft Magnetic Alloys. <i>IEEE Transactions on Magnetics</i> , 2013, 49, 4664-4667.	1.2	4
1935	Evolution of structural and magnetic properties of Co-Fe based metallic glass thin films with thermal annealing. <i>Surface and Coatings Technology</i> , 2013, 236, 246-251.	2.2	16
1936	The use of amorphous boron powder enhances mechanical alloying in soft magnetic FeNbB alloy: A magnetic study. <i>Journal of Applied Physics</i> , 2013, 113, .	1.1	4

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1938	Crystallization kinetics and magnetic properties of Fe <sub>73.5</sub> Si <sub>13.5</sub> B <sub>9</sub> Cu <sub>1</sub> Nb <sub>1</sub> V <sub>2</sub> nanocrystalline powder cores. <i>Journal Wuhan University of Technology, Materials Science Edition</i> , 2013, 28, 876-881.	0.4	0
1939	Phase precipitation and isothermal crystallization kinetics of FeZrB amorphous alloy. <i>Advances in Manufacturing</i> , 2013, 1, 251-257.	3.2	6
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1941	Effects of minor Cu addition on glass-forming ability and magnetic properties of FePCBCu alloys with high saturation magnetization. <i>Philosophical Magazine</i> , 2013, 93, 2182-2189.	0.7	32
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1946	Improvement of saturation property of iron powder core by flux homogenizing structure. <i>IEEE Transactions on Electrical and Electronic Engineering</i> , 2013, 8, 640-648.	0.8	8
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1948	The Contribution of <sup>57</sup> Fe Mössbauer Spectrometry to Investigate Magnetic Nanomaterials. , 2013, , 187-241.		19
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1950	Theoretical study of phase stability, magnetization and lattice vibrations of Fe <sub>23</sub> Cr <sub>6</sub> structure with Cr <sub>23</sub> Cr <sub>6</sub> prototype. <i>Journal of Solid State Chemistry</i> , 2013, 199, 27-33.	1.4	8
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2025	Microstructural and magnetic properties study of Fe-P rolled sheet alloys. <i>Journal of Magnetism and Magnetic Materials</i> , 2014, 358-359, 38-43.	1.0	16
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2188	Impact of annealing on magnetic and structural features of FeCoSiBMoP metallic glass. AIP Conference Proceedings, 2016, , .	0.3	2
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2192	The Latest Research and Development Trends of Super-Low Core-Loss and High Fe-Content Nanocrystalline Soft Magnetic Alloy &ldquo;NANOMET&lt;sup>reg&lt;/sup>&rdquo;. <i>Materia Japan</i> , 2016, 55, 89-96.	0.1	4
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2202	Influence of Al addition on structure and magnetic properties of nanocrystalline Fe <sub>65</sub> Co <sub>15</sub> Si <sub>5</sub> Nb <sub>3</sub> Cu <sub>1</sub> B <sub>11-x</sub> Al <sub>x</sub> alloys. <i>Journal of Non-Crystalline Solids</i> , 2016, 442, 29-33.	1.5	11
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2204	Depinning field of domain walls with a misaligned grain boundary in iron-based soft magnets. <i>Applied Physics Express</i> , 2016, 9, 053003.	1.1	0
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2206	Vacuum tube operation analysis under multi-harmonic driving and heavy beam loading effect in J-PARC RCS. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2016, 835, 119-135.	0.7	7
2207	Study of stress annealing effect on giant magneto-impedance of Fe-based ribbons. <i>Emerging Materials Research</i> , 2016, 5, 62-66.	0.4	1
2208	Effects of thickness on structure and magnetic property of Fe-Y-B thin films. <i>Thin Solid Films</i> , 2016, 616, 608-617.	0.8	11

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2228	Crystallization behavior of Fe <sub>84</sub> B <sub>10</sub> C <sub>6</sub> amorphous alloy under high magnetic field. <i>Journal of Non-Crystalline Solids</i> , 2016, 432, 200-207.	1.5	10
2229	Effect of Ge addition on structure and soft magnetic properties of Si-rich Fe-based nanocrystalline alloys. <i>Journal of Alloys and Compounds</i> , 2016, 672, 332-335.	2.8	11
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2233	Effect of Co content on structure and magnetic behaviors of high induction Fe-based amorphous alloys. <i>Journal of Magnetism and Magnetic Materials</i> , 2016, 418, 236-241.	1.0	40
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2236	Grain size refinement in nanocrystalline Hitperm-type glass-coated microwires. <i>Journal of Magnetism and Magnetic Materials</i> , 2016, 406, 15-21.	1.0	13
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2243	Effect of Si addition on the nano-structure and soft magnetic properties of bulk Fe-B-based alloys. <i>Journal of Magnetism and Magnetic Materials</i> , 2016, 403, 41-46.	1.0	3
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2252	Saturated magnetization and glass forming ability of soft magnetic Fe-based metallic glasses. <i>Intermetallics</i> , 2017, 84, 74-81.	1.8	48
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2257	Effect of ion irradiation on the nanocrystallization and magnetic properties of soft magnetic Fe <sub>72.5</sub> Cu <sub>1</sub> Nb <sub>2</sub> Mo <sub>1.5</sub> Si <sub>14</sub> B <sub>9</sub> alloy. <i>Physics of Metals and Metallography</i> , 2017, 118, 150-157.	0.3	12
2258	Effect of heating rate during primary crystallization on soft magnetic properties of melt-spun Fe-B alloys. <i>Scripta Materialia</i> , 2017, 132, 68-72.	2.6	75
2259	Effect of Co and Cu Content on Magnetic Properties of High Induction Fe-Based Amorphous Alloys. <i>Journal of Superconductivity and Novel Magnetism</i> , 2017, 30, 1877-1882.	0.8	4
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2355	The Influence of Annealing on the Structural and Soft Magnetic Properties of (Fe <sub>0.4</sub> Co <sub>0.6</sub> ) <sub>79</sub> Nb <sub>3</sub> B <sub>18</sub> Nanocrystalline Alloys. Materials, 2018, 11, 2171.	1.3	7
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2366	Interplay between magnetic anisotropies in CoAu and Co films and antidot arrays: effects on the spin configuration and hysteretic behavior. Physical Chemistry Chemical Physics, 2018, 20, 16835-16846.	1.3	2
2367	Influence of Fe/Co ratio on structural and magnetic properties of (Fe <sub>100-x</sub> Co <sub>x</sub> ) <sub>84.5</sub> Nb <sub>5</sub> B <sub>8.5</sub> P <sub>2</sub> alloy. AIP Conference Proceedings, 2018, , .	0.3	0
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2370	Fabrication and Properties of Under 10 $\mu\text{m}$ Sized Amorphous Powders of High $\mu_0$ Soft Magnetic Alloy for High-Frequency Applications. IEEE Transactions on Magnetics, 2018, 54, 1-5.	1.2	18



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2372	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
2373	Microstructure and magnetic properties of Fe <sub>81.3</sub> Si <sub>4</sub> B <sub>13</sub> Cu <sub>1.7</sub> nanocrystalline alloys with minor Nb addition. Journal of Iron and Steel Research International, 2018, 25, 614-618.	1.4	3
2374	Study on the embrittlement of flash annealed Fe <sub>85.2</sub> B <sub>9.5</sub> P <sub>4</sub> Cu <sub>0.8</sub> Si <sub>0.5</sub> metallic glass ribbons. Materials and Design, 2018, 156, 252-261.	3.3	33
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2385	Methods of <em>Ex Situ</em> and <em>In Situ</em> Investigations of Structural Transformations: The Case of Crystallization of Metallic Glasses. Journal of Visualized Experiments, 2018, , .	0.2	0
2387	Effect of Ti on structure and soft magnetic properties of Si-rich Finemet-type nanocrystalline Fe <sub>73.5</sub> Cu <sub>1</sub> Nb <sub>3-x</sub> Si <sub>17.5</sub> B <sub>5</sub> Ti <sub>x</sub> alloys. Materials Research Bulletin, 2018, 106, 296-300.	2.7	8
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2392	Effect of the partial substitution of FeCo by Ge on the magnetic properties of nanocrystalline (Fe <sub>0.8</sub> Co <sub>0.2</sub> ) <sub>72.7</sub> Al <sub>0.8</sub> Si <sub>17.5</sub> Nb <sub>3</sub> Cu <sub>1</sub> B <sub>5</sub> alloy. Journal of Non-Crystalline Solids, 2019, 522, 119555.	1.5	6
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2399	Influence of Ni on crystallization and magnetic properties of Fe <sub>72.5</sub> Ni <sub>1</sub> Cu <sub>1</sub> Nb <sub>2</sub> Mo <sub>1.5</sub> Si <sub>14</sub> B <sub>9</sub> alloys. Journal of Crystal Growth, 2019, 528, 125256.	0.7	3
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2401	Mechanical oscillation accelerating nucleation and nuclei growth in hard-sphere colloidal glass. Scientific Reports, 2019, 9, 12836.	1.6	4
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2409	Hysteresis losses in nanocrystalline alloys with magnetic-field-induced anisotropy. <i>Journal of Magnetism and Magnetic Materials</i> , 2019, 479, 19-26.	1.0	17
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2414	Improved magnetic softness of (Fe <sub>0.5</sub> Co <sub>0.5</sub> ) <sub>73.5</sub> Cu <sub>1</sub> Nb <sub>3</sub> -Mo Si <sub>13.5</sub> B <sub>9</sub> (x=1, 2, 3) nanocrystalline alloys by magnetic field annealing. <i>Materials Research Bulletin</i> , 2019, 118, 110511.	2.7	3
2415	Improving soft magnetic properties in FINEMET-like alloys with Ga addition. <i>Journal of Magnetism and Magnetic Materials</i> , 2019, 487, 165297.	1.0	9
2416	Direct observations of crystallization processes of amorphous GeSn during thermal annealing: A temperature window for suppressing Sn segregation. <i>Journal of Applied Physics</i> , 2019, 125, .	1.1	11
2417	The effect of the minor Al addition on microstructure and soft magnetic properties for (Fe <sub>0.5</sub> Co <sub>0.5</sub> ) <sub>73.5</sub> Si <sub>13.5</sub> Nb <sub>3</sub> Cu <sub>1</sub> B <sub>9</sub> nanocrystalline alloy. <i>Journal of Non-Crystalline Solids</i> , 2019, 517, 114-118.	1.5	9
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2419	Nanocrystalline soft magnetic materials with a saturation magnetization greater than 2T. <i>Journal of Magnetism and Magnetic Materials</i> , 2019, 485, 180-186.	1.0	47
2420	Field and Current Controlled Domain Wall Propagation in Twisted Glass-Coated Magnetic Microwires. <i>Scientific Reports</i> , 2019, 9, 5868.	1.6	14
2421	Real-Time Monitoring of Temperature Rises of Energized Transformer Cores With Distributed Optical Fiber Sensors. <i>IEEE Transactions on Power Delivery</i> , 2019, 34, 1588-1598.	2.9	40
2422	In-situ synthesis of nanocrystalline soft magnetic Fe-Ni-Si-B alloy. <i>Journal of Alloys and Compounds</i> , 2019, 790, 524-528.	2.8	19
2423	Microstructure and soft-magnetic properties of FeCoPCCu nanocrystalline alloys. <i>Journal of Materials Science and Technology</i> , 2019, 35, 1655-1661.	5.6	67
2424	Influence of Ni substitution for B on crystallization behavior, microstructure and magnetic properties of FeBCu alloys. <i>Journal of Magnetism and Magnetic Materials</i> , 2019, 480, 47-52.	1.0	14
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2427	Shifting from Ising model to Heisenberg model critical behavior and the departure from these models in Fe <sub>73.5</sub> Cr <sub>1</sub> Cu <sub>1</sub> Nb <sub>3</sub> Si <sub>13.5</sub> B <sub>9</sub> . Journal of Magnetism and Magnetic Materials, 2019, 482, 251-261.	1.0	3
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2430	Optimum circumstances for heat treatment mechanisms: soft magnetic properties and microstructural evaluation in nanocrystalline FeCuNbSiB alloys. Journal of Non-Crystalline Solids, 2019, 513, 97-104.	1.5	10
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2441	Amorphous—nanocrystalline alloys: fabrication, properties, and applications. Materials Today Advances, 2019, 4, 100027.	2.5	88
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2443	Synthesis and hysteresis properties of soft magnetic Fe-Nb-Cu-Si-B films with periodic nanoscale curvature. AIP Conference Proceedings, 2019, , .	0.3	0

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2446	Effect of stress on crystallization behavior in a Fe-based amorphous ribbon: An in situ synchrotron radiation X-ray diffraction study. Journal of Magnetism and Magnetic Materials, 2019, 469, 349-353.	1.0	16
2447	The effect of milling time on the evolution of nanostructure, thermal stability, and magnetocaloric properties of (Ni <sub>0.50</sub> Fe <sub>0.50</sub> ) <sub>70.5</sub> B <sub>17.7</sub> Si <sub>7.8</sub> Ti <sub>4</sub> . Journal of Alloys and Compounds, 2019, 772, 157-163.	2.8	5
2448	Dipolar interaction in multiple FINEMET ribbons. Journal of Magnetism and Magnetic Materials, 2019, 476, 297-301.	1.0	8
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2450	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
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2457	Compositional design and crystallization mechanism of High Bs nanocrystalline alloys. Materials Research Bulletin, 2019, 112, 323-330.	2.7	33
2458	Substrate heating effects on composition, structure and ferromagnetic resonance properties of CoFeB thin films. Journal of Magnetism and Magnetic Materials, 2019, 476, 516-523.	1.0	2
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2461	The role of Cu content on structure and magnetic properties of Fe-Si-B-P-Cu nanocrystalline alloys. Journal of Materials Science, 2019, 54, 4400-4408.	1.7	16

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2463	Formation mechanism of stress-induced anisotropy in stress-annealed Fe-based nanocrystalline ribbon alloys. <i>Journal of Alloys and Compounds</i> , 2019, 774, 1243-1249.	2.8	12
2464	Effects of applying tensile stress during annealing on the GMI and induced anisotropy of Fe-Cu-Nb-Si-B alloys. <i>Journal of Magnetism and Magnetic Materials</i> , 2019, 471, 544-548.	1.0	14
2465	Unique influence of heating rate on the magnetic softness of Fe <sub>81.5</sub> Si <sub>0.5</sub> B <sub>4.5</sub> P <sub>11</sub> Cu <sub>0.5</sub> C <sub>2</sub> nanocrystalline alloy. <i>Journal of Magnetism and Magnetic Materials</i> , 2019, 471, 148-152.	1.0	22
2466	Synthesis of novel FeSiBPCCu alloys with high amorphous forming ability and good soft magnetic properties. <i>Journal of Non-Crystalline Solids</i> , 2019, 503-504, 36-43.	1.5	49
2467	Formation and Structural Evolution of Fe <sub>72.5</sub> B <sub>15.6</sub> Si <sub>7.8</sub> Nb <sub>1.7</sub> Zr <sub>1.7</sub> Cu <sub>0.7</sub> Nanocrystalline Alloy. <i>Acta Metallurgica Sinica (English Letters)</i> , 2020, 33, 313-318.	1.5	4
2468	A comprehensive study of microstructures and soft magnetic properties of amorphous Co <sub>66</sub> Fe <sub>4</sub> Mo <sub>2</sub> Si <sub>16</sub> B <sub>12</sub> tape wound core. <i>Journal of Magnetism and Magnetic Materials</i> , 2020, 493, 165729.	1.0	7
2469	Effects of the substitution of Si by P on crystallization behavior, soft magnetic properties and bending ductility of FeSiBCuPC alloys. <i>Journal of Alloys and Compounds</i> , 2020, 816, 152534.	2.8	20
2470	Improvement of saturation magnetic flux density in Fe <sub>81</sub> -Si <sub>8</sub> -B <sub>8</sub> -Nb <sub>8</sub> -Cu nanocomposite alloys by magnetic field annealing. <i>Current Applied Physics</i> , 2020, 20, 37-42.	1.1	15
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2472	The glass formation ability and soft magnetic properties of the Fe <sub>79</sub> Si <sub>9</sub> B <sub>4.5</sub> P <sub>1.5</sub> CuNb nanocrystalline alloys. <i>Journal of Magnetism and Magnetic Materials</i> , 2020, 497, 165990.	1.0	4
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2474	Recent progress in Fe-based amorphous and nanocrystalline soft magnetic materials. <i>Journal of Magnetism and Magnetic Materials</i> , 2020, 501, 166373.	1.0	88
2475	Structural evolutionary process and interrelation for FeSiBNbCuMo nanocrystalline alloy. <i>Journal of Alloys and Compounds</i> , 2020, 821, 153487.	2.8	16
2476	Soft magnetic amorphous alloys in X-ray light: Insights from ultra-fast Joule heating experiments. <i>Journal of Magnetism and Magnetic Materials</i> , 2020, 499, 166282.	1.0	2
2477	High Bs of FePBCCu nanocrystalline alloys with excellent soft-magnetic properties. <i>Journal of Non-Crystalline Solids</i> , 2020, 530, 119800.	1.5	35
2478	Dimension effects of a magnetoelectric gyrator with FeCoSiB/Pb(Zr,Ti)O <sub>3</sub> layered composites core for efficient power conversion. <i>Sensors and Actuators A: Physical</i> , 2020, 302, 111815.	2.0	4
2479	Adsorption-enhanced reductive degradation of methyl orange by Fe <sub>73.3</sub> Co <sub>10</sub> Si <sub>4</sub> B <sub>8</sub> P <sub>4</sub> Cu <sub>0.7</sub> amorphous alloys. <i>Materials Chemistry and Physics</i> , 2020, 242, 122307.	2.0	18



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2482	Effect of compositional elements and processing routes on structural and thermal response in Fe-based metallic glasses. <i>Journal of Alloys and Compounds</i> , 2020, 821, 153279.	2.8	3
2483	On the glass forming ability (GFA), crystallization behavior and soft magnetic properties of nanomet-substituted alloys. <i>Journal of Non-Crystalline Solids</i> , 2020, 529, 119774.	1.5	9
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