Wei Zhang

List of Publications by Year
in descending order

62 papers	2,007 citations	304743 22 h-index	243625 44 g-index
62 all docs	62 docs citations	62 times ranked	1190 citing authors

#	Article	IF	Citations
1	Direct synthesis of Fe-Si-B-C Cu nanocrystalline alloys with superior soft magnetic properties and ductile by melt-spinning. Journal of Materials Science and Technology, 2022, 108, 186-195.	10.7	15
2	Effect of Y doping on surface crystallization and magnetic properties of a FeHfB nanocrystalline alloy. Journal of Magnetism and Magnetic Materials, 2022, 549, 169035.	2.3	7
3	A combined experimental and ab initio molecular dynamics study on a novel B-based B50Sm10Co40 amorphous alloy. Journal of Alloys and Compounds, 2022, 899, 163326.	5.5	2
4	Unveiling the role of Y content in glass-forming ability and soft magnetic properties of Co-Y-B metallic glasses by experiment and ab initio molecular dynamics simulations. Journal of Alloys and Compounds, 2022, 902, 163637.	5.5	8
5	Role of Fe substitution for Co on thermal stability and glass-forming ability of soft magnetic Co-based Co-Fe-B-P-C metallic glasses. Intermetallics, 2022, 147, 107598.	3.9	7
6	Improvement of soft magnetic properties of a Fe84Nb7B9 nanocrystalline alloy by synergistic substitution of P and Hf. Journal of Alloys and Compounds, 2022, 918, 165735.	5.5	3
7	C effect on the amorphous formation and soft magnetic properties of Fe84.3Si4B8P3-C Cu0.7 nanocrystalline alloys. Physica B: Condensed Matter, 2022, 642, 414105.	2.7	1
8	Unusual alloying effects of Co and Ni on structure and magnetic properties of Fe-Si-B-Cu nanocrystalline alloys with pre-existing Î±-Fe nanocrystals. Journal of Alloys and Compounds, 2022, 920, 166030.	5.5	4
9	Formation and crystallization behavior of Fe-based amorphous precursors with pre-existing Î±-Fe nanoparticlesâ€”Structure and magnetic properties of high-Cu-content Fe-Si-B-Cu-Nb nanocrystalline alloys. Journal of Materials Science and Technology, 2021, 65, 171-181.	10.7	49
10	Enhancement of glass-forming ability and thermal stability of a soft magnetic Co75B25 metallic glass by micro-alloying Y and Nb. Journal of Iron and Steel Research International, 2021, 28, 597-603.	2.8	5
11	Effects of Si content on structure and soft magnetic properties of Fe81.3SixB17-xCu1.7 nanocrystalline alloys with pre-existing Î±-Fe nanocrystals. Journal of Materials Science, 2021, 56, 2539-2548.	3.7	11
12	Effects of annealing temperature and heating rate on microstructure, magnetic, and mechanical properties of high-Bs Fe81.7â^'xSi4B13NbxCu1.3 nanocrystalline alloys. Journal of Materials Science, 2021, 56, 2572-2583.	3.7	9
13	Roles of Y and Fe contents on glass-forming ability, thermal stability, and magnetic properties of Co-based Coâ€“Feâ€“Yâ€“B bulk metallic glasses. Intermetallics, 2021, 132, 107135.	3.9	11
14	Structure and properties of nanoporous FePt fabricated by dealloying a melt-spun Fe60Pt20B20 alloy and subsequent annealing. Journal of Materials Science and Technology, 2020, 36, 128-133.	10.7	20
15	Preparation and electromagnetic properties of Fe80.7Si4B13Cu2.3 nanocrystalline alloy powders for electromagnetic wave absorbers in X-band. Journal of Magnetism and Magnetic Materials, 2020, 497, 165988.	2.3	9
16	Optimization of the structure and soft magnetic properties of a Fe87B13 nanocrystalline alloy by additions of Cu and Nb. Journal of Magnetism and Magnetic Materials, 2020, 497, 166001.	2.3	13
17	A study on the role of Ni content on structure and properties of Feâ€“Niâ€“Siâ€“Bâ€“Pâ€“Cu nanocrystalline alloys. Journal of Alloys and Compounds, 2020, 822, 152784.	5.5	20
18	Effects of Sm content on crystallized structure and magnetic properties of Co80â€‰â^'â€‰xSmxB20 amorphous alloys. Journal of Iron and Steel Research International, 2020, 27, 471-476.	2.8	4

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19	Soft magnetic Co-based Coâ€“Feâ€“Bâ€“Siâ€“P bulk metallic glasses with high saturation magnetic flux density of over 1.2ÂT. Journal of Alloys and Compounds, 2020, 843, 154862.	5.5	22
20	New FeNiCrMo(P, C, B) high-entropy bulk metallic glasses with unusual thermal stability and corrosion resistance. Journal of Materials Science and Technology, 2020, 43, 32-39.	10.7	45
21	Synthesis and electromagnetic wave absorption properties of FeCoNi(Si0.6Al0.2B0.2) high-entropy nanocrystalline alloy powders. AIP Advances, 2019, 9, .	1.3	10
22	The role of Cu content on structure and magnetic properties of Feâ€“Siâ€“Bâ€“Pâ€“Cu nanocrystalline alloys. Journal of Materials Science, 2019, 54, 4400-4408.	3.7	16
23	Structure and soft magnetic properties of Fe-Si-B-P-Cu nanocrystalline alloys with minor Mn addition. AIP Advances, 2018, 8, .	1.3	6
24	Role of Mo addition on structure and magnetic properties of the Fe85Si2B8P4Cu1 nanocrystalline alloy. Journal of Non-Crystalline Solids, 2018, 481, 590-593.	3.1	46
25	Formation and properties of Fe25Co25Ni25(P, C, B, Si)25 high-entropy bulk metallic glasses. Journal of Non-Crystalline Solids, 2018, 487, 60-64.	3.1	40
26	Microstructure and magnetic properties of Fe81.3Si4B13Cu1.7 nanocrystalline alloys with minor Nb addition. Journal of Iron and Steel Research International, 2018, 25, 614-618.	2.8	3
27	Fabrication and electrocatalytic properties of ferromagnetic nanoporous PtFe by dealloying an amorphous Fe 60 Pt 10 B 30 alloy. Journal of Alloys and Compounds, 2017, 706, 215-219.	5.5	16
28	Soft magnetic Fe-Si-B-Cu nanocrystalline alloys with high Cu concentrations. Journal of Alloys and Compounds, 2017, 722, 859-863.	5.5	53
29	Glass-forming ability, thermal properties, and corrosion resistance of Fe-based (Fe, Ni, Mo, Cr)-P-C-B metallic glasses. Journal of Non-Crystalline Solids, 2017, 476, 75-80.	3.1	14
30	Glass-forming ability and thermoplastic formability of ferromagnetic (Fe, Co, Ni) 75 P 10 C 10 B 5 metallic glasses. Journal of Alloys and Compounds, 2017, 707, 57-62.	5.5	23
31	New soft magnetic Fe25Co25Ni25(P, C, B)25 high entropy bulk metallic glasses with large supercooled liquid region. Journal of Alloys and Compounds, 2017, 693, 25-31.	5.5	67
32	Synthesis and properties of ferromagnetic Fe-based (Fe, Ni, Co)â€“Moâ€“Pâ€“Câ€“B bulk metallic glasses with large supercooled liquid region. Physica B: Condensed Matter, 2015, 470-471, 107-112.	2.7	5
33	Soft magnetic Fe25Co25Ni25(B, Si)25 high entropy bulk metallic glasses. Intermetallics, 2015, 66, 8-12.	3.9	83
34	Fabrication and properties of soft magnetic Feâ€“Coâ€“Niâ€“Pâ€“Câ€“B bulk metallic glasses with high glass-forming ability. Journal of Non-Crystalline Solids, 2015, 421, 24-29.	3.1	11
35	High-Entropy Alloys with a Hexagonal Close-Packed Structure Designed by Equi-Atomic Alloy Strategy and Binary Phase Diagrams. Jom, 2014, 66, 1984-1992.	1.9	275
36	Effects of Mo addition on thermal stability and magnetic properties of a ferromagnetic Fe75P10C10B5 metallic glass. Journal of Applied Physics, 2014, 115, 17A768.	2.5	9

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37	Effects of Alloying Elements on the Thermal Stability and Corrosion Resistance of an Fe-based Metallic Glass with Low Glass Transition Temperature. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2014, 45, 2393-2398.	2.2	12
38	Structure and magnetic properties of melt-spun Feâ€“Ptâ€“B alloys with high B concentrations. Journal of Alloys and Compounds, 2014, 615, S252-S255.	5.5	5
39	Effect of P addition on the structure and magnetic properties of melt-spun Feâ€“Ptâ€“B alloy. Journal of Alloys and Compounds, 2014, 586, S294-S297.	5.5	13
40	Correlation between the glass-forming ability and activation energy of crystallization for Zr75â^'x Ni25Al x metallic glasses. International Journal of Minerals, Metallurgy and Materials, 2013, 20, 445-449.	4.9	9
41	Ferromagnetic Fe-based bulk metallic glasses with high thermoplastic formability. Scripta Materialia, 2013, 69, 77-80.	5.2	42
42	Effects of Cu, Fe and Co addition on the glass-forming ability and mechanical properties of Zr-Al-Ni bulk metallic glasses. Science China: Physics, Mechanics and Astronomy, 2012, 55, 2367-2371.	5.1	14
43	Enhancement of glass-forming ability and corrosion resistance of Zr-based Zr-Ni-Al bulk metallic glasses with minor addition of Nb. Journal of Applied Physics, 2011, 110, 023513.	2.5	15
44	Effect of Nb Concentration on Thermal Stability and Glass-Forming Ability of Soft Magnetic (Fe,Co)-Gd-Nb-B Glassy Alloys. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2010, 41, 1685-1690.	2.2	3
45	Effect of Co concentration on thermal stability and magnetic properties of (Fe,Co)â€“Nbâ€“Gdâ€“B glassy alloys. Journal of Alloys and Compounds, 2010, 504, S129-S131.	5.5	6
46	Two-stage-like glass transition and the glass-forming ability of a soft magnetic Fe-based glassy alloy. Journal of Applied Physics, 2009, 105, 053518.	2.5	12
47	Glass-forming ability and differences in the crystallization behavior of ribbons and rods of Cu36Zr48Al8Ag8 bulk glass-forming alloy. Journal of Materials Research, 2009, 24, 1886-1895.	2.6	27
48	Preparation of Cu₃₆Zr₄₈Ag₈Al₈ Bulk Metallic Glass with a Diameter of 25 mm by Copper Mold Casting. Materials Transactions, 2007, 48, 629-631.	1.2	83
49	New type of Î³-FePt/FeB exchange-coupled spring magnet obtained from FePtB amorphous alloy. Scripta Materialia, 2006, 54, 431-435.	5.2	33
50	New Cuâ€“Zr-based bulk metallic glasses with large diameters of up to 1.5cm. Scripta Materialia, 2006, 55, 711-713.	5.2	124
51	Formation, Crystallized Structure and Magnetic Properties of Fe–Pt–B Amorphous Alloys. Materials Transactions, 2005, 46, 891-894.	1.2	9
52	Glass formation, corrosion behavior and mechanical properties of bulk glassy Cuâ€“Hfâ€“Tiâ€“Nb alloys. Acta Materialia, 2005, 53, 3903-3911.	7.9	62
53	Nanoscale precipitates and phase transformations in a rapidly-solidified Feâ€“Ptâ€“B amorphous alloy. Journal of Alloys and Compounds, 2005, 402, 78-83.	5.5	7
54	Synthesis and magnetic properties of Feâ€“Ptâ€“B nanocomposite permanent magnets with low Pt concentrations. Applied Physics Letters, 2004, 85, 4998-5000.	3.3	62

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55	Formation, Thermal Stability and Mechanical Properties of Cu-Zr-Al Bulk Glassy Alloys. Materials Transactions, 2002, 43, 2921-2925.	1.2	230
56	Bulk nanocomposite permanent magnets produced by crystallization of (Fe,Co)â€“(Nd,Dy)â€“B bulk glassy alloy. Applied Physics Letters, 2002, 80, 1610-1612.	3.3	81
57	Thermal and Mechanical Properties of Cu-Based Cu-Zr-Ti Bulk Glassy Alloys. Materials Transactions, 2001, 42, 1149-1151.	1.2	127
58	Hard Magnetic Properties and Nanocrystallized Structure of Fe_{66.5}Co₁₀Pr_{3.5}B₂₀ Glassy Alloy. Materials Transactions, 2001, 42, 1543-1546.	1.2	8
59	Formation and Magnetic Properties of Bulk Glassy Fe–Co–Nd–Dy–B Alloys with High Boron Concentrations. Materials Transactions, JIM, 2000, 41, 1679-1682.	0.9	27
60	Crystallization and hard magnetic properties of Feâ€“Coâ€“Ndâ€“Dyâ€“B amorphous alloys with glass transition. Journal of Applied Physics, 2000, 87, 6122-6124.	2.5	23
61	New Fe-based amorphous alloys with large magnetostriction and wide supercooled liquid region before crystallization. Journal of Applied Physics, 1999, 85, 4491-4493.	2.5	29
62	Effects of Ribbon Thickness on Structure and Soft Magnetic Properties of a High-Cu-Content FeBCuNb Nanocrystalline Alloy. Acta Metallurgica Sinica (English Letters), 0, , 1.	2.9	2