

# Haishun Liu

## List of Publications by Year in descending order

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66  
papers

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citations

448610

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488211

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docs citations

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times ranked

862  
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#	ARTICLE	IF	CITATIONS
1	Mechanical properties and structural features of novel Fe-based bulk metallic glasses with unprecedented plasticity. <i>Scientific Reports</i> , 2014, 4, 6233.	1.6	118
2	Case study on microseismic effect of coal and gas outburst process. <i>International Journal of Rock Mechanics and Minings Sciences</i> , 2012, 53, 101-110.	2.6	75
3	Microseismic low-frequency precursor effect of bursting failure of coal and rock. <i>Journal of Applied Geophysics</i> , 2012, 79, 55-63.	0.9	67
4	A novel thermal-tuning Fe-based amorphous alloy for automatically recycled methylene blue degradation. <i>Materials and Design</i> , 2019, 161, 136-146.	3.3	51
5	Soft magnetic properties and microstructure of Fe <sub>84</sub> Nb <sub>2</sub> B <sub>14</sub> Cu nanocrystalline alloys. <i>Materials &amp; Design</i> , 2014, 56, 227-231.	5.1	47
6	Effects of Cu substitution for Fe on the glass-forming ability and soft magnetic properties for Fe-based bulk metallic glasses. <i>Journal of Magnetism and Magnetic Materials</i> , 2014, 358-359, 23-26.	1.0	45
7	Magnetic properties of (Fe <sub>1-x</sub> Ni <sub>x</sub> ) <sub>72</sub> B <sub>20</sub> Si <sub>4</sub> Nb <sub>4</sub> (x=0.0~0.5) bulk metallic glasses. <i>Journal of Magnetism and Magnetic Materials</i> , 2013, 335, 172-176.	1.0	38
8	Enhanced glass forming ability of Fe-based amorphous alloys with minor Cu addition. <i>Journal of Non-Crystalline Solids</i> , 2015, 419, 65-68.	1.5	38
9	High Bs of FePBCCu nanocrystalline alloys with excellent soft-magnetic properties. <i>Journal of Non-Crystalline Solids</i> , 2020, 530, 119800.	1.5	35
10	Atomic-scale structural evolution in selective laser melting of Cu <sub>50</sub> Zr <sub>50</sub> metallic glass. <i>Computational Materials Science</i> , 2018, 150, 62-69.	1.4	34
11	Effect of Co addition on the magnetic properties and microstructure of FeNbBCu nanocrystalline alloys. <i>Journal of Magnetism and Magnetic Materials</i> , 2016, 419, 198-201.	1.0	33
12	Extraordinary magnetocaloric effect of Fe-based bulk glassy rods by combining fluxing treatment and J-quenching technique. <i>Journal of Alloys and Compounds</i> , 2016, 684, 29-33.	2.8	31
13	Soft magnetic properties and microstructure of novel Nb poor Finemet type alloys. <i>Materials Science and Technology</i> , 2008, 24, 45-48.	0.8	30
14	Ductile Co-Nb-B bulk metallic glass with ultrahigh strength. <i>Journal of Non-Crystalline Solids</i> , 2014, 386, 121-123.	1.5	27
15	Enhancement of plasticity in Co-Nb-B ternary bulk metallic glasses with ultrahigh strength. <i>Journal of Non-Crystalline Solids</i> , 2012, 358, 3060-3064.	1.5	25
16	Effects of Cu substitution for Nb on magnetic properties of Fe-based bulk metallic glasses. <i>Journal of Non-Crystalline Solids</i> , 2016, 443, 108-111.	1.5	22
17	Thermal-pressure effects on energy state of metallic glass Cu <sub>50</sub> Zr <sub>50</sub> . <i>Computational Materials Science</i> , 2018, 155, 493-498.	1.4	22
18	Effects of Ni substitution for Fe on magnetic properties of Fe <sub>80</sub> Ni <sub>13</sub> C <sub>7</sub> (x= 0~30) glassy ribbons. <i>Journal of Non-Crystalline Solids</i> , 2017, 463, 68-71.	1.5	21

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19	Brittle-to-ductile transition in monatomic Tantalum nanoporous metallic glass. Journal of Non-Crystalline Solids, 2019, 506, 6-13.	1.5	21
20	Crystallization in additive manufacturing of metallic glasses: A review. Additive Manufacturing, 2020, 36, 101568.	1.7	21
21	Non-repeatability of large plasticity for Fe-based bulk metallic glasses. Journal of Alloys and Compounds, 2016, 676, 209-214.	2.8	20
22	Fluxing induced boron alloying in Fe-based bulk metallic glasses. Materials and Design, 2017, 129, 63-68.	3.3	20
23	Atomic-level crystallization in selective laser melting fabricated Zr-based metallic glasses. Physical Chemistry Chemical Physics, 2019, 21, 12406-12413.	1.3	20
24	Effects of pressure on structure and mechanical property in monatomic metallic glass. Journal of Non-Crystalline Solids, 2017, 464, 1-4.	1.5	18
25	Nearly free electron model to glass-forming ability of multi-component metallic glasses. Journal of Non-Crystalline Solids, 2013, 361, 82-85.	1.5	17
26	Correlation of atomic packing with the boson peak in amorphous alloys. Journal of Applied Physics, 2014, 116, .	1.1	15
27	Thermal-pressure treatment for tuning the atomic structure of metallic glass Cu-Zr. Journal of Non-Crystalline Solids, 2020, 535, 119963.	1.5	15
28	Origin of abnormal glass transition behavior in metallic glasses. Intermetallics, 2014, 49, 52-56.	1.8	14
29	Oxygen-driven impurities scavenging before solidification of Fe-based metallic glasses. Journal of Alloys and Compounds, 2019, 773, 401-412.	2.8	13
30	Ductile Fe-based bulk metallic glasses at room temperature. Materials Science and Technology, 2018, 34, 751-756.	0.8	10
31	Low-Temperature Magnetic Properties and Magnetocaloric Effect of Fe <sup>1-x</sup> Zr <sup>x</sup> Cu Amorphous Alloys. Journal of Low Temperature Physics, 2020, 200, 51-61.	0.6	10
32	Atomic-level understanding of crystallization in the selective laser melting of Fe <sub>50</sub> Ni <sub>50</sub> amorphous alloy. Additive Manufacturing, 2020, 34, 101369.	1.7	10
33	Permeability spectra study of Fe <sub>73.5</sub> Si <sub>13.5</sub> B <sub>9</sub> Cu <sub>1</sub> Nb <sub>3</sub> xAl <sub>x</sub> (x=0, 0.1, 0.2, 0.4, 0.8 and 1.6). Journal of Alloys and Compounds, 2008, 466, 246-249.	2.8	9
34	Low Temperature Specific Heat of Amorphous Alloys. Journal of Low Temperature Physics, 2010, 160, 148-155.	0.6	9
35	Mechanical genesis of Henan (China) Yima thrust nappe structure. Journal of Central South University, 2014, 21, 2857-2865.	1.2	9
36	More accurate calculations of the magnetic entropy changes. Journal of Magnetism and Magnetic Materials, 2009, 321, 3221-3224.	1.0	8

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37	Electronic structure of Cu <sub>100-x</sub> Zr <sub>x</sub> (x=40,50,60) metallic glasses. <i>Materials and Design</i> , 2015, 82, 126-129.	3.3	8
38	Structural homology of the strength for metallic glasses. <i>Journal of Materials Science and Technology</i> , 2021, 81, 123-130.	5.6	8
39	Variation of permeability of Nb-poor Finemet under different field amplitudes. <i>Journal of Magnetism and Magnetic Materials</i> , 2008, 320, 1705-1711.	1.0	7
40	Theoretical analysis of magnetic sensor output voltage. <i>Journal of Magnetism and Magnetic Materials</i> , 2011, 323, 1667-1670.	1.0	7
41	Chiral metallic glass nanolattices with combined lower density and improved auxeticity. <i>Physical Chemistry Chemical Physics</i> , 2019, 21, 20588-20594.	1.3	7
42	Plastic Deformation Mechanism of Ductile Fe <sub>50</sub> Ni <sub>30</sub> P <sub>13</sub> C <sub>7</sub> Metallic Glass. <i>Metals and Materials International</i> , 2019, 25, 487-498.	1.8	6
43	Mechanism of low thermal conductivity for Fe <sub>76</sub> Si <sub>13</sub> B <sub>8</sub> Nb <sub>2</sub> Cu <sub>1</sub> amorphous and nanocrystalline alloys at room temperature. <i>Journal of Non-Crystalline Solids</i> , 2022, 576, 121264.	1.5	6
44	Atomic-level understanding of weakening crystallization in additive manufactured ternary Fe-based metallic glasses with Ni addition. <i>Journal of Non-Crystalline Solids</i> , 2022, 582, 121435.	1.5	6
45	Effect of a preload force on anchor system frequency. <i>International Journal of Mining Science and Technology</i> , 2013, 23, 135-138.	4.6	5
46	Atomic-scale structural heterogeneity and elastic modulus for metallic glasses. <i>Journal of Non-Crystalline Solids</i> , 2015, 426, 137-140.	1.5	5
47	Effects of Annealing on the Specific Heat and Boson Peak for Fe <sub>50</sub> Co <sub>50</sub> B <sub>20</sub> Si <sub>4</sub> Nb <sub>4</sub> Bulk Metallic Glass. <i>Journal of Low Temperature Physics</i> , 2015, 179, 343-349.	0.6	5
48	Fe-based bulk metallic glass with unprecedented plasticity at room temperature. <i>Intermetallics</i> , 2021, 139, 107377.	1.8	5
49	Determine optimal annealing temperature of Fe based nanocrystalline alloys from their melting point. <i>Materials Science and Technology</i> , 2012, 28, 1465-1469.	0.8	4
50	Variations of the permeability with annealing conditions for Fe-based nanocrystalline alloys. <i>Materials &amp; Design</i> , 2012, 36, 428-431.	5.1	4
51	Effects of Crystallization on Boson Peak of Zr <sub>52.5</sub> Cu <sub>17.9</sub> Ni <sub>14.6</sub> Al <sub>10</sub> Ti <sub>5</sub> Bulk Metallic Glass. <i>Journal of Low Temperature Physics</i> , 2015, 178, 11-17.	0.6	4
52	The effect of slit direction and distribution on mechanical properties of a monatomic Tantalum metallic glass. <i>Journal of Non-Crystalline Solids</i> , 2020, 529, 119770.	1.5	4
53	Tunable and attractive magnetic properties of FeBPSiCu alloys. <i>Journal of Alloys and Compounds</i> , 2021, 859, 157863.	2.8	4
54	Improvement of magnetic residual stress measurements based on Fourier transform. <i>Materials Science and Technology</i> , 2009, 25, 743-746.	0.8	2

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55	Variations of the Effective Magnetostriction with Annealing Conditions for Nanocrystalline Magnetic Alloys. Journal of Low Temperature Physics, 2011, 164, 272-278.	0.6	2
56	Effects of high Fe substitution for Mn on phase transition and magnetic properties of YFexMn <sub>12</sub> ^x compounds. Journal of Magnetism and Magnetic Materials, 2012, 324, 1230-1233.	1.0	2
57	Correlation between fractal dimension and strength of brittle bulk metallic glasses. Materials Science and Technology, 2014, 30, 447-450.	0.8	2
58	Effects of annealing condition and Al content on novel Fe <sub>73.5</sub> Si <sub>13.5</sub> B <sub>9</sub> Cu <sub>1</sub> Nb <sub>3-x</sub> Al <sub>x</sub> alloys. Rare Metals, 2008, 27, 545-549.	3.6	1
59	Investigation on the magnetic and magnetocaloric properties of PrNi <sub>2</sub> . Wuli Xuebao/Acta Physica Sinica, 2014, 63, 227501.	0.2	1
60	Thermally tunable microring resonator for self-collimated beams in photonic crystals. , 2008, , .		0
61	Variation in Permeability of Nb-Poor Finemet Under Heating Annealing. Journal of Computational and Theoretical Nanoscience, 2008, 5, 1661-1664.	0.4	0
62	A Study on Step-Like Magnetization Curves in Tb <sub>3</sub> Ga <sub>5</sub> O <sub>12</sub> at Low Temperature. Advanced Materials Research, 2011, 415-417, 1315-1318.	0.3	0
63	Effects of three relativity effects on K <sub>inf</sub> X-Ray. , 2011, , .		0
64	Electronic specific heats for amorphous and crystallized alloys. SpringerPlus, 2016, 5, 699.	1.2	0
65	Estimation of the glass-forming ability of metallic glasses with monolayer two-dimensional model. Computational Materials Science, 2020, 172, 109353.	1.4	0
66	Low-Frequency Dynamics and Its Correlation of Nanoscale Structures in Amorphous Solids. Journal of Low Temperature Physics, 2020, 198, 158-166.	0.6	0