

Yuan Wu

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106
papers

6,613
citations

36
h-index

80
g-index

108
ext. papers

8,379
ext. citations

7.9
avg, IF

5.95
L-index

#	Paper	IF	Citations
106	A precipitation-hardened high-entropy alloy with outstanding tensile properties. <i>Acta Materialia</i> , 2016 , 102, 187-196	8.4	1020
105	Effects of Al addition on structural evolution and tensile properties of the FeCoNiCrMn high-entropy alloy system. <i>Acta Materialia</i> , 2014 , 62, 105-113	8.4	687
104	Enhanced strength and ductility in a high-entropy alloy via ordered oxygen complexes. <i>Nature</i> , 2018 , 563, 546-550	50.4	516
103	Grain growth and the Hall-Petch relationship in a high-entropy FeCrNiCoMn alloy. <i>Scripta Materialia</i> , 2013 , 68, 526-529	5.6	472
102	Bulk metallic glass composites with transformation-mediated work-hardening and ductility. <i>Advanced Materials</i> , 2010 , 22, 2770-3	24	369
101	Phase-Transformation Ductilization of Brittle High-Entropy Alloys via Metastability Engineering. <i>Advanced Materials</i> , 2017 , 29, 1701678	24	280
100	Formation of CuZrAl bulk metallic glass composites with improved tensile properties. <i>Acta Materialia</i> , 2011 , 59, 2928-2936	8.4	257
99	Stacking fault energy of face-centered-cubic high entropy alloys. <i>Intermetallics</i> , 2018 , 93, 269-273	3.5	174
98	Fe-based bulk metallic glasses: Glass formation, fabrication, properties and applications. <i>Progress in Materials Science</i> , 2019 , 103, 235-318	42.2	157
97	Polymorphism in a high-entropy alloy. <i>Nature Communications</i> , 2017 , 8, 15687	17.4	151
96	Precipitation behavior and its effects on tensile properties of FeCoNiCr high-entropy alloys. <i>Intermetallics</i> , 2016 , 79, 41-52	3.5	145
95	In-situ neutron diffraction study of deformation behavior of a multi-component high-entropy alloy. <i>Applied Physics Letters</i> , 2014 , 104, 051910	3.4	107
94	Microstructure and mechanical properties of equimolar FeCoCrNi high entropy alloy prepared via powder extrusion. <i>Intermetallics</i> , 2016 , 75, 25-30	3.5	80
93	Effects of alloying elements on glass formation, mechanical and soft-magnetic properties of Fe-based metallic glasses. <i>Intermetallics</i> , 2011 , 19, 1502-1508	3.5	79
92	Cooperative deformation in high-entropy alloys at ultralow temperatures. <i>Science Advances</i> , 2020 , 6, eaax4002	14.3	77
91	Ductilizing bulk metallic glass composite by tailoring stacking fault energy. <i>Physical Review Letters</i> , 2012 , 109, 245506	7.4	73
90	Transformation-induced plasticity in bulk metallic glass composites evidenced by in-situ neutron diffraction. <i>Acta Materialia</i> , 2017 , 124, 478-488	8.4	72

89	Formation, structure and properties of biocompatible TiZrHfNbTa high-entropy alloys. <i>Materials Research Letters</i> , 2019 , 7, 225-231	7.4	65
88	Strong work-hardening behavior in a Ti-based bulk metallic glass composite. <i>Scripta Materialia</i> , 2013 , 69, 73-76	5.6	57
87	Large magnetocaloric effect in Gd ₃₆ Y ₂₀ Al ₂₄ Co ₂₀ bulk metallic glass. <i>Journal of Alloys and Compounds</i> , 2008 , 457, 541-544	5.7	56
86	Transformation-reinforced high-entropy alloys with superior mechanical properties via tailoring stacking fault energy. <i>Journal of Alloys and Compounds</i> , 2019 , 792, 444-455	5.7	53
85	Nanoporous silver with tunable pore characteristics and superior surface enhanced Raman scattering. <i>Corrosion Science</i> , 2014 , 84, 159-164	6.8	49
84	Glass-forming ability enhanced by proper additions of oxygen in a Fe-based bulk metallic glass. <i>Applied Physics Letters</i> , 2009 , 95, 161905	3.4	49
83	The Phase Competition and Stability of High-Entropy Alloys. <i>Jom</i> , 2014 , 66, 1973-1983	2.1	47
82	High-temperature plastic flow of a precipitation-hardened FeCoNiCr high entropy alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2017 , 686, 34-40	5.3	46
81	Microstructural Control via Copious Nucleation Manipulated by In Situ Formed Nucleants: Large-Sized and Ductile Metallic Glass Composites. <i>Advanced Materials</i> , 2016 , 28, 8156-8161	24	46
80	Flexible Honeycombed Nanoporous/Glassy Hybrid for Efficient Electrocatalytic Hydrogen Generation. <i>Advanced Materials</i> , 2019 , 31, e1904989	24	44
79	Effects of nanocrystal formation on the soft magnetic properties of Fe-based bulk metallic glasses. <i>Applied Physics Letters</i> , 2011 , 99, 052504	3.4	44
78	Formation mechanism and characterization of nanoporous silver with tunable porosity and promising capacitive performance by chemical dealloying of glassy precursor. <i>Acta Materialia</i> , 2016 , 105, 367-377	8.4	43
77	Strengthening of a CrMnFeCoNi high-entropy alloy by carbide precipitation. <i>Journal of Alloys and Compounds</i> , 2019 , 792, 1028-1035	5.7	42
76	Aluminum-rich bulk metallic glasses. <i>Scripta Materialia</i> , 2008 , 59, 1159-1162	5.6	42
75	Deformation-induced spatiotemporal fluctuation, evolution and localization of strain fields in a bulk metallic glass. <i>International Journal of Plasticity</i> , 2015 , 71, 136-145	7.6	40
74	Designing Bulk Metallic Glass Composites with Enhanced Formability and Plasticity. <i>Journal of Materials Science and Technology</i> , 2014 , 30, 566-575	9.1	40
73	Improving plasticity of the Zr ₄₆ Cu ₄₆ Al ₈ bulk metallic glass via thermal rejuvenation. <i>Science Bulletin</i> , 2018 , 63, 840-844	10.6	40
72	Oxygen effects on plastic deformation of a Zr-based bulk metallic glass. <i>Applied Physics Letters</i> , 2008 , 92, 011915	3.4	39

71	Interpreting size effects of bulk metallic glasses based on a size-independent critical energy density. <i>Intermetallics</i> , 2010 , 18, 157-160	3.5	36
70	Glass formation and magnetic properties of Fe ₄₀ Si ₁₀ B ₁₀ (CrAlCo) bulk metallic glasses fabricated using industrial raw materials. <i>Journal of Magnetism and Magnetic Materials</i> , 2009 , 321, 2833-2837	2.8	36
69	Effects of metalloid elements on the glass-forming ability of Fe-based alloys. <i>Journal of Alloys and Compounds</i> , 2009 , 467, 187-190	5.7	34
68	Effects of Sn addition on phase formation and mechanical properties of TiCu-based bulk metallic glass composites. <i>Intermetallics</i> , 2013 , 42, 68-76	3.5	33
67	Development of electrochemical supercapacitors with uniform nanoporous silver network. <i>Electrochimica Acta</i> , 2015 , 182, 224-229	6.7	32
66	Nonlinear tensile deformation behavior of small-sized metallic glasses. <i>Scripta Materialia</i> , 2009 , 61, 564-567	5.67	32
65	Effects of drawing on the tensile fracture strength and its reliability of small-sized metallic glasses. <i>Acta Materialia</i> , 2010 , 58, 2564-2576	8.4	32
64	Impacts of atomic scale lattice distortion on dislocation activity in high-entropy alloys. <i>Extreme Mechanics Letters</i> , 2017 , 17, 38-42	3.9	31
63	Hot corrosion behaviour and its mechanism of a new alumina-forming austenitic stainless steel in molten sodium sulphate. <i>Corrosion Science</i> , 2013 , 77, 202-209	6.8	30
62	Effects of cooling rates on the mechanical properties of a Ti-based bulk metallic glass. <i>Science China: Physics, Mechanics and Astronomy</i> , 2010 , 53, 394-398	3.6	30
61	Evaluation of pitting corrosion in duplex stainless steel Fe ₂₀ Cr ₉ Ni for nuclear power application. <i>Acta Materialia</i> , 2020 , 197, 172-183	8.4	29
60	Extremely high dislocation density and deformation pathway of CrMnFeCoNi high entropy alloy at ultralow temperature. <i>Scripta Materialia</i> , 2020 , 188, 21-25	5.6	27
59	Bendable nanoporous copper thin films with tunable thickness and pore features. <i>Corrosion Science</i> , 2016 , 104, 227-235	6.8	26
58	Enhancing glass-forming ability via frustration of nano-clustering in alloys with a high solvent content. <i>Scientific Reports</i> , 2013 , 3, 1983	4.9	26
57	Effects of Mo additions on the glass-forming ability and magnetic properties of bulk amorphous Fe-C-Si-B-P-Mo alloys. <i>Science China: Physics, Mechanics and Astronomy</i> , 2010 , 53, 430-434	3.6	25
56	Ultrahigh cyclability of a large elastocaloric effect in multiferroic phase-transforming materials. <i>Materials Research Letters</i> , 2019 , 7, 137-144	7.4	24
55	Snoek-type damping performance in strong and ductile high-entropy alloys. <i>Science Advances</i> , 2020 , 6, eaba7802	14.3	23
54	Size effects on the compressive deformation behaviour of a brittle Fe-based bulk metallic glass. <i>Philosophical Magazine Letters</i> , 2010 , 90, 403-412	1	23

53	Designing novel bulk metallic glass composites with a high aluminum content. <i>Scientific Reports</i> , 2013 , 3, 3353	4.9	22
52	Facile route to bulk ultrafine-grain steels for high strength and ductility. <i>Nature</i> , 2021 , 590, 262-267	50.4	22
51	Microstructure and mechanical properties of FeCoNiCr high-entropy alloy strengthened by nano-Y2O3 dispersion. <i>Science China Technological Sciences</i> , 2018 , 61, 179-183	3.5	21
50	Fe-based bulk metallic glass composites without any metalloid elements. <i>Acta Materialia</i> , 2013 , 61, 3214-3223	8.2	19
49	Relationship between composite structures and compressive properties in CuZr-based bulk metallic glass system. <i>Science Bulletin</i> , 2011 , 56, 3960-3964		19
48	Interpretable machine-learning strategy for soft-magnetic property and thermal stability in Fe-based metallic glasses. <i>Npj Computational Materials</i> , 2020 , 6,	10.9	19
47	Enhancement of glass-forming ability and plasticity via alloying the elements having positive heat of mixing with Cu in Cu48Zr48Al4 bulk metallic glass. <i>Journal of Alloys and Compounds</i> , 2019 , 777, 382-391	5.7	19
46	Inherent structure length in metallic glasses: simplicity behind complexity. <i>Scientific Reports</i> , 2015 , 5, 12137	4.9	18
45	Tailoring grain growth and solid solution strengthening of single-phase CrCoNi medium-entropy alloys by solute selection. <i>Journal of Materials Science and Technology</i> , 2020 , 54, 196-205	9.1	18
44	Stacking Fault Driven Phase Transformation in CrCoNi Medium Entropy Alloy. <i>Nano Letters</i> , 2021 , 21, 1419-1426	11.5	18
43	Beneficial effects of oxygen addition on glass formation in a high-entropy bulk metallic glass. <i>Intermetallics</i> , 2018 , 99, 44-50	3.5	18
42	Micro-alloying Effects of Yttrium on Recrystallization Behavior of an Alumina-forming Austenitic Stainless Steel. <i>Journal of Iron and Steel Research International</i> , 2016 , 23, 553-558	1.2	17
41	Nano-network mediated high strength and large plasticity in an Al-based alloy. <i>Materials Letters</i> , 2012 , 84, 59-62	3.3	17
40	Deformation-Induced Martensitic Transformation in Cu-Zr-Zn Bulk Metallic Glass Composites. <i>Metals</i> , 2015 , 5, 2134-2147	2.3	16
39	Plasticity improvement in a bulk metallic glass composed of an open-cell Cu foam as the skeleton. <i>Composites Science and Technology</i> , 2013 , 75, 49-54	8.6	15
38	Deformation-enhanced hierarchical multiscale structure heterogeneity in a Pd-Si bulk metallic glass. <i>Acta Materialia</i> , 2020 , 200, 42-55	8.4	14
37	Role of rare-earth elements in glass formation of AlCuNi amorphous alloys. <i>Journal of Alloys and Compounds</i> , 2012 , 513, 387-392	5.7	13
36	Alloying effects on mechanical properties of the CuZrAl bulk metallic glass composites. <i>Computational Materials Science</i> , 2013 , 79, 187-192	3.2	12

35	Effect of mechanical tension on corrosive and thermal properties of Cu ₅₀ Zr ₄₀ Ti ₁₀ metallic glass. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2013 , 588, 49-58	5.3	12
34	Composition effects on glass-forming ability and its indicator χ <i>Intermetallics</i> , 2008 , 16, 410-417	3.5	12
33	Effects of non-hydrostaticity and grain size on the pressure-induced phase transition of the CoCrFeMnNi high-entropy alloy. <i>Journal of Applied Physics</i> , 2018 , 124, 115901	2.5	12
32	Effects of Nitrogen on the Glass Formation and Mechanical Properties of a Ti-Based Metallic Glass. <i>Acta Metallurgica Sinica (English Letters)</i> , 2016 , 29, 173-180	2.5	11
31	A quantitative link between microplastic instability and macroscopic deformation behaviors in metallic glasses. <i>Journal of Applied Physics</i> , 2009 , 106, 083512	2.5	11
30	Ordered nitrogen complexes overcoming strength-ductility trade-off in an additively manufactured high-entropy alloy. <i>Virtual and Physical Prototyping</i> , 2020 , 15, 532-542	10.1	11
29	Nanocrystallization in a Cu-doped Fe-based metallic glass. <i>Journal of Alloys and Compounds</i> , 2016 , 688, 822-827	5.7	11
28	Compressive ductility and fracture resistance in CuZr-based shape-memory metallic-glass composites. <i>International Journal of Plasticity</i> , 2020 , 128, 102687	7.6	10
27	Simultaneously enhancing the strength and plasticity of Ti-based bulk metallic glass composites via microalloying with Ta. <i>Materials Research Letters</i> , 2020 , 8, 23-30	7.4	10
26	Formation mechanism and characterization of immiscible nanoporous binary CuAg alloys with excellent surface-enhanced Raman scattering performance by chemical dealloying of glassy precursors. <i>Inorganic Chemistry Frontiers</i> , 2020 , 7, 1127-1139	6.8	10
25	An electronic criterion for assessing intrinsic brittleness of metallic glasses. <i>Journal of Chemical Physics</i> , 2014 , 141, 024503	3.9	8
24	Magnetocaloric effect in Er-Al-Co bulk metallic glasses. <i>Science Bulletin</i> , 2011 , 56, 3978-3983		8
23	Prediction of Structural Type for City-Scale Seismic Damage Simulation Based on Machine Learning. <i>Applied Sciences (Switzerland)</i> , 2020 , 10, 1795	2.6	7
22	Chemical short-range ordering and its strengthening effect in refractory high-entropy alloys. <i>Physical Review B</i> , 2021 , 103,	3.3	6
21	Experimental and theoretical studies on site preference of Ti in Nd ₂ (Fe,Ti) ₁₄ B. <i>Journal of Magnetism and Magnetic Materials</i> , 2015 , 379, 108-111	2.8	5
20	Work-hardenable Zr-based bulk metallic glass composites reinforced with ex-situ TiNi fibers. <i>Journal of Alloys and Compounds</i> , 2019 , 806, 1497-1508	5.7	5
19	Direct synchrotron x-ray measurements of local strain fields in elastically and plastically bent metallic glasses. <i>Intermetallics</i> , 2015 , 67, 132-137	3.5	5
18	Alloying effects of iridium on glass formation and glass-forming ability of the Zr-Cu-Al system. <i>Journal of Materials Research</i> , 2009 , 24, 1619-1623	2.5	5

17	Substantially enhanced plasticity of bulk metallic glasses by densifying local atomic packing. <i>Nature Communications</i> , 2021 , 12, 6582	17.4	5
16	Interface-driven unusual anomalous Hall effect in MnxGa/Pt bilayers. <i>Physical Review B</i> , 2019 , 100,	3.3	5
15	Improving high-temperature mechanical properties of cast CrFeCoNi high-entropy alloy by highly thermostable in-situ precipitated carbides. <i>Journal of Materials Science and Technology</i> , 2021 , 72, 29-38	9.1	5
14	Influences of Au ion radiation on microstructure and surface-enhanced Raman scattering of nanoporous copper. <i>Nanotechnology</i> , 2018 , 29, 184001	3.4	4
13	Alloying effects of the elements with a positive heat of mixing on the glass forming ability of Al-La-Ni amorphous alloys. <i>Science China: Physics, Mechanics and Astronomy</i> , 2014 , 57, 122-127	3.6	4
12	Alkali-deficiency driven charged out-of-phase boundaries for giant electromechanical response. <i>Nature Communications</i> , 2021 , 12, 2841	17.4	4
11	Strain hardening mediated by coherent nanoprecipitates in ultrahigh-strength steels. <i>Acta Materialia</i> , 2021 , 213, 116984	8.4	4
10	Ultrasonic Assisted Sintering Using Heat Converted from Mechanical Energy. <i>Metals</i> , 2020 , 10, 971	2.3	3
9	Enhanced crystallization resistance and thermal stability via suppressing the metastable superlattice phase in Ni-(Pd)-P metallic glasses. <i>Journal of Materials Science and Technology</i> , 2020 , 42, 203-211	9.1	2
8	Self-Assembled Hexagonal Lu _{1-x} In _x FeO ₃ Nanopillars Embedded in Orthorhombic Lu _{1-x} In _x FeO ₃ Nanoparticle Matrixes as Room-Temperature Multiferroic Thin Films for Memory Devices and Spintronic Applications. <i>ACS Applied Nano Materials</i> , 2020 , 3, 7516-7523	5.6	2
7	Enhanced Corrosion Resistance of an Alumina-forming Austenitic Steel Against Molten Al. <i>Oxidation of Metals</i> , 2020 , 94, 465-475	1.6	2
6	Unraveling magneto-structural coupling of Ni ₂ MnGa alloy under the application of stress and magnetic field using in situ polarized neutron diffraction. <i>Applied Physics Letters</i> , 2020 , 117, 081905	3.4	2
5	Effects of density difference of constituent elements on glass formation in TiCu-based bulk metallic glasses. <i>Progress in Natural Science: Materials International</i> , 2013 , 23, 469-474	3.6	1
4	Local chemical fluctuation mediated ultra-sluggish martensitic transformation in high-entropy intermetallics.. <i>Materials Horizons</i> , 2021 ,	14.4	1
3	Corrosion and irradiation behavior of Fe-based amorphous coating in lead-bismuth eutectic liquids. <i>Science China Technological Sciences</i> , 2022 , 65, 440-449	3.5	1
2	Unravel unusual hardening behavior of a Pd ₄₀ Ni ₆₀ metallic glass in its supercooled liquid region. <i>Applied Physics Letters</i> , 2021 , 118, 121902	3.4	0
1	Revealing the role of local shear strain partition of transformable particles in a TRIP-reinforced bulk metallic glass composite via digital image correlation. <i>International Journal of Minerals, Metallurgy and Materials</i> , 2022 , 29, 807-813	3.1	