Yuan Wu

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

106 6,613 80 36 h-index g-index citations papers 108 8,379 7.9 5.95 L-index avg, IF ext. citations ext. papers

#	Paper	IF	Citations
106	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	
105	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
104	Local chemical fluctuation mediated ultra-sluggish martensitic transformation in high-entropy intermetallics <i>Materials Horizons</i> , 2021 ,	14.4	1
103	Substantially enhanced plasticity of bulk metallic glasses by densifying local atomic packing. <i>Nature Communications</i> , 2021 , 12, 6582	17.4	5
102	Unravel unusual hardening behavior of a PdNiP metallic glass in its supercooled liquid region. Applied Physics Letters, 2021 , 118, 121902	3.4	O
101	Chemical short-range ordering and its strengthening effect in refractory high-entropy alloys. <i>Physical Review B</i> , 2021 , 103,	3.3	6
100	Alkali-deficiency driven charged out-of-phase boundaries for giant electromechanical response. <i>Nature Communications</i> , 2021 , 12, 2841	17.4	4
99	Strain hardening mediated by coherent nanoprecipitates in ultrahigh-strength steels. <i>Acta Materialia</i> , 2021 , 213, 116984	8.4	4
98	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
97	Stacking Fault Driven Phase Transformation in CrCoNi Medium Entropy Alloy. <i>Nano Letters</i> , 2021 , 21, 1419-1426	11.5	18
96	Facile route to bulk ultrafine-grain steels for high strength and ductility. <i>Nature</i> , 2021 , 590, 262-267	50.4	22
95	Snoek-type damping performance in strong and ductile high-entropy alloys. <i>Science Advances</i> , 2020 , 6, eaba7802	14.3	23
94	Cooperative deformation in high-entropy alloys at ultralow temperatures. <i>Science Advances</i> , 2020 , 6, eaax4002	14.3	77
93	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
92	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
91	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
90	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

(2019-2020)

89	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
88	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
87	Deformation-enhanced hierarchical multiscale structure heterogeneity in a Pd-Si bulk metallic glass. <i>Acta Materialia</i> , 2020 , 200, 42-55	8.4	14
86	Evaluation of pitting corrosion in duplex stainless steel Fe20Cr9Ni for nuclear power application. <i>Acta Materialia</i> , 2020 , 197, 172-183	8.4	29
85	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
84	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
83	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
82	Ultrasonic Assisted Sintering Using Heat Converted from Mechanical Energy. <i>Metals</i> , 2020 , 10, 971	2.3	3
81	Self-Assembled Hexagonal Lu1\(\text{\text{MInxFeO3}}\) Nanopillars Embedded in Orthorhombic Lu1\(\text{\text{MInxFeO3}}\) Nanoparticle Matrixes as Room-Temperature Multiferroic Thin Films for Memory Devices and Spintronic Applications. ACS Applied Nano Materials, 2020 , 3, 7516-7523	5.6	2
80	Enhanced Corrosion Resistance of an Alumina-forming Austenitic Steel Against Molten Al. <i>Oxidation of Metals</i> , 2020 , 94, 465-475	1.6	2
79	Unraveling magneto-structural coupling of Ni2MnGa 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
78	Flexible Honeycombed Nanoporous/Glassy Hybrid for Efficient Electrocatalytic Hydrogen Generation. <i>Advanced Materials</i> , 2019 , 31, e1904989	24	44
77	Fe-based bulk metallic glasses: Glass formation, fabrication, properties and applications. <i>Progress in Materials Science</i> , 2019 , 103, 235-318	42.2	157
76	Formation, structure and properties of biocompatible TiZrHfNbTa high-entropy alloys. <i>Materials Research Letters</i> , 2019 , 7, 225-231	7.4	65
75	Ultrahigh cyclability of a large elastocaloric effect in multiferroic phase-transforming materials. <i>Materials Research Letters</i> , 2019 , 7, 137-144	7.4	24
74	Strengthening of a CrMnFeCoNi high-entropy alloy by carbide precipitation. <i>Journal of Alloys and Compounds</i> , 2019 , 792, 1028-1035	5.7	42
73	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
7 2	Work-hardenable Zr-based bulk metallic glass composites reinforced with ex-situ TiNi fibers. Journal of Alloys and Compounds, 2019 , 806, 1497-1508	5.7	5

71	Interface-driven unusual anomalous Hall effect in MnxGa/Pt bilayers. <i>Physical Review B</i> , 2019 , 100,	3.3	5
70	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-	3 <i>5</i> 17	19
69	Influences of Au ion radiation on microstructure and surface-enhanced Raman scattering of nanoporous copper. <i>Nanotechnology</i> , 2018 , 29, 184001	3.4	4
68	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
67	Stacking fault energy of face-centered-cubic high entropy alloys. <i>Intermetallics</i> , 2018 , 93, 269-273	3.5	174
66	Enhanced strength and ductility in a high-entropy alloy via ordered oxygen complexes. <i>Nature</i> , 2018 , 563, 546-550	50.4	516
65	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
64	Improving plasticity of the Zr46Cu46Al8 bulk metallic glass via thermal rejuvenation. <i>Science Bulletin</i> , 2018 , 63, 840-844	10.6	40
63	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
62	High-temperature plastic flow of a precipitation-hardened FeCoNiCr high entropy alloy. <i>Materials Science & Microstructure and Processing</i> , 2017 , 686, 34-40	5.3	46
61	Phase-Transformation Ductilization of Brittle High-Entropy Alloys via Metastability Engineering. <i>Advanced Materials</i> , 2017 , 29, 1701678	24	280
60	Polymorphism in a high-entropy alloy. <i>Nature Communications</i> , 2017 , 8, 15687	17.4	151
59	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
58	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
57	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
56	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
55	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
54	Microstructure and mechanical properties of equimolar FeCoCrNi high entropy alloy prepared via powder extrusion. <i>Intermetallics</i> , 2016 , 75, 25-30	3.5	80

(2014-2016)

53	promising capacitive performance by chemical dealloying of glassy precursor. <i>Acta Materialia</i> , 2016 , 105, 367-377	8.4	43
52	Bendable nanoporous copper thin films with tunable thickness and pore features. <i>Corrosion Science</i> , 2016 , 104, 227-235	6.8	26
51	A precipitation-hardened high-entropy alloy with outstanding tensile properties. <i>Acta Materialia</i> , 2016 , 102, 187-196	8.4	1020
50	Precipitation behavior and its effects on tensile properties of FeCoNiCr high-entropy alloys. <i>Intermetallics</i> , 2016 , 79, 41-52	3.5	145
49	Nanocrystallization in a Cu-doped Fe-based metallic glass. <i>Journal of Alloys and Compounds</i> , 2016 , 688, 822-827	5.7	11
48	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	4 ⁰
47	Development of electrochemical supercapacitors with uniform nanoporous silver network. <i>Electrochimica Acta</i> , 2015 , 182, 224-229	6.7	32
46	Experimental and theoretical studies on site preference of Ti in Nd2(Fe,Ti)14B. <i>Journal of Magnetism and Magnetic Materials</i> , 2015 , 379, 108-111	2.8	5
45	Inherent structure length in metallic glasses: simplicity behind complexity. <i>Scientific Reports</i> , 2015 , 5, 12137	4.9	18
44	Deformation-Induced Martensitic Transformation in Cu-Zr-Zn Bulk Metallic Glass Composites. <i>Metals</i> , 2015 , 5, 2134-2147	2.3	16
43	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
42	Nanoporous silver with tunable pore characteristics and superior surface enhanced Raman scattering. <i>Corrosion Science</i> , 2014 , 84, 159-164	6.8	49
41	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
40	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
39	An electronic criterion for assessing intrinsic brittleness of metallic glasses. <i>Journal of Chemical Physics</i> , 2014 , 141, 024503	3.9	8
38	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
37	The Phase Competition and Stability of High-Entropy Alloys. <i>Jom</i> , 2014 , 66, 1973-1983	2.1	47
36	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

Formation of CuarAl bulk metallic glass composites with improved tensile properties. Acta

Magnetocaloric effect in Er-Al-Co bulk metallic glasses. Science Bulletin, 2011, 56, 3978-3983

Relationship between composite structures and compressive properties in CuZr-based bulk

metallic glass system. Science Bulletin, 2011, 56, 3960-3964

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Materialia, 2011, 59, 2928-2936

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LIST OF PUBLICATIONS

17	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
16	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
15	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
14	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
13	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
12	Bulk metallic glass composites with transformation-mediated work-hardening and ductility. <i>Advanced Materials</i> , 2010 , 22, 2770-3	24	369
11	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
10	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
9	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
8	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
7	Nonlinear tensile deformation behavior of small-sized metallic glasses. <i>Scripta Materialia</i> , 2009 , 61, 564	-567	32
6	Glass formation and magnetic properties of FettBiBP(CrAlto) bulk metallic glasses fabricated using industrial raw materials. <i>Journal of Magnetism and Magnetic Materials</i> , 2009 , 321, 2833	- 2 837	36
5	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
4	Aluminum-rich bulk metallic glasses. <i>Scripta Materialia</i> , 2008 , 59, 1159-1162	5.6	42
3	Large magnetocaloric effect in Gd36Y20Al24Co20 bulk metallic glass. <i>Journal of Alloys and Compounds</i> , 2008 , 457, 541-544	5.7	56
2	Composition effects on glass-forming ability and its indicator []Intermetallics, 2008, 16, 410-417	3.5	12
1	Oxygen effects on plastic deformation of a Zr-based bulk metallic glass. <i>Applied Physics Letters</i> , 2008 , 92, 011915	3.4	39