Jun-Wei Qiao

List of Publications by Year
in descending order

112 papers	3,428 citations	159585 30 h-index	155660 55 g-index
115 all docs	115 docs citations	115 times ranked	2110 citing authors

#	Article	IF	Citations
1	Tuning Cr-rich nanoprecipitation and heterogeneous structure in equiatomic CrFeNi medium-entropy stainless alloys. Journal of Iron and Steel Research International, 2022, 29, 529-536.	2.8	10
2	Enhanced strength and toughness in 40CrNiMo steels by austempering below martensite start temperature. Journal of Iron and Steel Research International, 2022, 29, 810-818.	2.8	7
3	Effect of sulfuric acid concentration on corrosion behavior of Al0.1CoCrFeNi high-entropy alloy. Journal of Physics and Chemistry of Solids, 2022, 161, 110397.	4.0	5
4	Optimize the Mechanical Properties of Al0.6CoCrFeNi High-Entropy Alloys by Thermo-Mechanical Processing. Metals, 2022, 12, 178.	2.3	5
5	Work hardening in Ti48Zr29Ni6Ta1Be16 metallic glass matrix composites at cryogenic temperature. Journal of Applied Physics, 2022, 131, .	2.5	3
6	Exceptional Phase-Transformation Strengthening of Fe50Mn20Cr20Ni10 Medium-Entropy Alloys at Cryogenic Temperature. Metals, 2022, 12, 643.	2.3	0
7	Strain rate effects on the yielding strength and maximum temperature at shear bands in a Zr-based bulk metallic glass. Journal of Applied Physics, 2022, 131, 175101.	2.5	1
8	Entropy versus enthalpy in hexagonal-close-packed high-entropy alloys. Rare Metals, 2022, 41, 2906-2920.	7.1	4
9	Probing into the Yield Plateau Phenomenon in Commercially Pure Titanium During Tensile Tests. Acta Metallurgica Sinica (English Letters), 2021, 34, 701-709.	2.9	5
10	Comparison of electrochemical behaviour between La-free and La-containing CrMnFeNi HEA by Mottâ€“Schottky analysis and EIS measurements. Corrosion Engineering Science and Technology, 2021, 56, 171-178.	1.4	12
11	Spatialâ€“Temporal evolution of shear banding in bulk metallic glasses. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2021, 800, 140286.	5.6	8
12	Triple-Phase Eutectic High-Entropy Alloy: Al10Co18Cr18Fe18Nb10Ni26. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2021, 52, 1314-1320.	2.2	9
13	Revealing the relationship between microstructures, textures, and mechanical behaviors of cold-rolled Al0.1CoCrFeNi high-entropy alloys. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2021, 804, 140752.	5.6	24
14	Hardening overwhelming softening in Ti-based metallic glass composites upon cold rolling. Intermetallics, 2021, 130, 107066.	3.9	6
15	Corrosion Behavior of Al0.1CoCrFeNi High Entropy Alloy in Various Chloride-Containing Solutions. Frontiers in Materials, 2021, 7, .	2.4	7
16	Twinning induced remarkable strain hardening in a novel Fe50Mn20Cr20Ni10 medium entropy alloy. Journal of Iron and Steel Research International, 2021, 28, 1463-1470.	2.8	5
17	A universal criterion for the failure threshold in slowly sheared bulk metallic glasses. Journal of Applied Physics, 2021, 129, .	2.5	7
18	Effect of deep cryogenic cycling treatment on shear transformation zone volume and size of Zr-based metallic glass. Journal of Materials Research, 2021, 36, 2047-2055.	2.6	6

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19	Deformation mechanisms in hexagonal close-packed high-entropy alloys. Journal of Applied Physics, 2021, 129, .	2.5	6
20	Successive strain hardening mechanisms induced by transformation induced plasticity in Fe60Mn20Co10Cr10 high entropy alloys. Journal of Applied Physics, 2021, 129, .	2.5	18
21	Structure prediction in high-entropy alloys with machine learning. Applied Physics Letters, 2021, 118, .	3.3	24
22	Influence of lanthanum on passivity behavior of CrMnFeNi high entropy alloys. Materials Chemistry and Physics, 2021, 265, 124509.	4.0	26
23	Flow serrations of rejuvenation behaviour through cryogenic thermal cycling for Zr-based bulk metallic glass. Philosophical Magazine, 2021, 101, 2261-2272.	1.6	2
24	Multiple structural factors to influence the dynamics of icosahedral clusters in the Al90Sm10 super-cooled metallic liquid. Journal of Non-Crystalline Solids, 2021, 565, 120848.	3.1	5
25	Tribological Behavior of Boronized Fe40Mn20Cr20Ni20 High-Entropy Alloys. Metals, 2021, 11, 1561.	2.3	22
26	Quasi-Static Tensile Behaviors, Mechanisms, and Constitutive Descriptions of Commercially Pure Titanium at Diverse Strain Rates in Ambient Air and Liquid Nitrogen. Journal of Materials Engineering and Performance, 2021, 30, 944-954.	2.5	1
27	Dynamic tensile mechanisms and constitutive relationship in CrFeNi medium entropy alloys at room and cryogenic temperatures. Physical Review Materials, 2021, 5, .	2.4	10
28	Formation and deformation mechanisms in gradient nanostructured NiCoCrFe high entropy alloys upon supersonic impacts. Applied Physics Letters, 2021, 119, .	3.3	8
29	Failure of a Ti-Based Metallic Glass Matrix Composite Upon High-Temperature Annealing. Metals and Materials International, 2020, 26, 285-291.	3.4	5
30	Complexity analysis of serrated flows in a bulk metallic glass under constrained and unconstrained conditions. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2020, 771, 138585.	5.6	26
31	Tensile strength prediction of dual-phase Al0.6CoCrFeNi high-entropy alloys. International Journal of Minerals, Metallurgy and Materials, 2020, 27, 1341-1346.	4.9	14
32	Deformation behavior and plastic instability of boronized Al0.25CoCrFeNi high-entropy alloys. International Journal of Minerals, Metallurgy and Materials, 2020, 27, 1363-1370.	4.9	19
33	Surface modification of plasma nitriding on Al CoCrFeNi high-entropy alloys. Journal of Materials Science and Technology, 2020, 48, 140-145.	10.7	33
34	FCC-to-HCP Phase Transformation in CoCrNix Medium-Entropy Alloys. Acta Metallurgica Sinica (English Letters), 2020, 33, 1151-1158.	2.9	12
35	Strengthening of an Al0.45CoCrFeNi high-entropy alloy via in situ fabricated duplex-structured composites. Journal of Materials Science, 2020, 55, 7894-7909.	3.7	19
36	Relation Between the Defect Interactions and the Serration Dynamics in a Zr-Based Bulk Metallic Glass. Applied Sciences (Switzerland), 2020, 10, 3892.	2.5	8

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37	Preternatural Hexagonal High-Entropy Alloys: A Review. Acta Metallurgica Sinica (English Letters), 2020, 33, 1033-1045.	2.9	32
38	Achieving work hardening by forming boundaries on the nanoscale in a Ti-based metallic glass matrix composite. Journal of Materials Science and Technology, 2020, 50, 192-203.	10.7	11
39	Texture Evolution Behavior and Its Triggered Mechanical Anisotropy of CP Ti During Severe Cold Rolling and Subsequent Annealing. Acta Metallurgica Sinica (English Letters), 2020, 33, 1271-1282.	2.9	2
40	Isothermal Compression and Concomitant Dynamic Recrystallization Behavior of Ti-6.5Al-3.5Mo-1.5Zr-0.3Si Alloy with Initial Martensitic Microstructure. Journal of Materials Engineering and Performance, 2020, 29, 3361-3372.	2.5	2
41	Investigation of Mode I Notch Toughness of Zr41.2Ti13.8Cu10Ni12.5Be22.5 Metallic Glass under Dynamic Loading Conditions. Journal of Materials Engineering and Performance, 2019, 28, 6025-6032.	2.5	3
42	Ultrafine-grained dual phase Al0.45CoCrFeNi high-entropy alloys. Materials and Design, 2019, 180, 107910.	7.0	64
43	Prediction of Strength and Ductility in Partially Recrystallized CoCrFeNiTi0.2 High-Entropy Alloy. Entropy, 2019, 21, 389.	2.2	11
44	The tribological properties of Al0.6CoCrFeNi high-entropy alloy with the Ïƒ phase precipitation at elevated temperature. Journal of Alloys and Compounds, 2019, 777, 180-189.	5.5	130
45	Origin of serrated flow in bulk metallic glasses. Journal of the Mechanics and Physics of Solids, 2019, 124, 634-642.	4.8	33
46	Surface strengthening in Al0.25CoCrFeNi high-entropy alloy by boronizing. Materials Letters, 2019, 238, 258-260.	2.6	65
47	Nanoscale serration and creep characteristics of Al0.5CoCrCuFeNi high-entropy alloys. Journal of Alloys and Compounds, 2018, 752, 464-475.	5.5	69
48	Preface: Metastable alloys. Journal of Iron and Steel Research International, 2018, 25, 253-253.	2.8	0
49	Microstructure and wear properties of nitrided AlCoCrFeNi high-entropy alloy. Materials Chemistry and Physics, 2018, 210, 233-239.	4.0	160
50	Rare-earth high entropy alloys with hexagonal close-packed structure. Journal of Applied Physics, 2018, 124, .	2.5	52
51	Local Deformation and Texture of Cold-Rolled AA6061 Aluminum Alloy. Materials, 2018, 11, 1866.	2.9	7
52	Wear behavior of Al_{0.6}CoCrFeNi high-entropy alloys: Effect of environments. Journal of Materials Research, 2018, 33, 3310-3320.	2.6	80
53	High-Entropy Alloys (HEAs). Metals, 2018, 8, 108.	2.3	19
54	The Corrosion Behavior of Ti-Based Metallic Glass Matrix Composites in the H2SO4 Solution. Metals, 2018, 8, 52.	2.3	10

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55	Fracture Morphology and Local Deformation Characteristics in the Metallic Glass Matrix Composite Under Tension. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2017, 48, 1545-1550.	2.2	3
56	Non-linear behavior in advanced materials. Journal of Iron and Steel Research International, 2017, 24, 357-357.	2.8	0
57	Correlation between initial structure and athermal quasi-static compressive deformation in a metallic glass. Journal of Alloys and Compounds, 2017, 699, 274-277.	5.5	10
58	Strengthening in Al0.25CoCrFeNi high-entropy alloys by cold rolling. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2017, 707, 593-601.	5.6	99
59	Effect of nitriding on the tribological properties of Al1.3CoCuFeNi2 high-entropy alloy. Journal of Alloys and Compounds, 2017, 725, 365-372.	5.5	62
60	Universality of slip avalanches in a ductile Fe-based bulk metallic glass. Journal of Iron and Steel Research International, 2017, 24, 366-371.	2.8	7
61	Statistical analysis on strain-rate effects during serrations in a Zr-based bulk metallic glass. Journal of Iron and Steel Research International, 2017, 24, 455-461.	2.8	8
62	Twinning-induced plasticity (TWIP) and work hardening in Ti-based metallic glass matrix composites. Scientific Reports, 2017, 7, 1877.	3.3	22
63	Deformation Behavior of Al0.25CoCrFeNi High-Entropy Alloy after Recrystallization. Metals, 2017, 7, 111.	2.3	31
64	Serration and Noise Behavior in Advanced Materials. Journal of Iron and Steel Research International, 2016, 23, 1-1.	2.8	8
65	Effect of strain rates on deformation behaviors of an in situ Ti-based metallic glass matrix composite. Applied Physics A: Materials Science and Processing, 2016, 122, 1.	2.3	5
66	Superior Mechanical Properties of AlCoCrFeNiTi x High-Entropy Alloys upon Dynamic Loading. Journal of Materials Engineering and Performance, 2016, 25, 451-456.	2.5	31
67	Self-organized Criticality Behavior in Bulk Metallic Glasses. Journal of Iron and Steel Research International, 2016, 23, 7-13.	2.8	16
68	Effect of Strain Rate on Deformation Behavior of AlCoCrFeNi High-Entropy Alloy by Nanoindentation. Journal of Materials Engineering and Performance, 2016, 25, 2255-2260.	2.5	21
69	Strain rate sensitivity of nanoindentation creep in an AlCoCrFeNi high-entropy alloy. Applied Physics A: Materials Science and Processing, 2016, 122, 1.	2.3	20
70	Structural disorder in metallic glass-forming liquids. Scientific Reports, 2016, 6, 27708.	3.3	11
71	Tensile deformation mechanisms of an in-situ Ti-based metallic glass matrix composite at cryogenic temperature. Scientific Reports, 2016, 6, 32287.	3.3	18
72	Dynamic Deformation Behaviors of an In Situ Ti-Based Metallic Glass Matrix Composite. Journal of Materials Engineering and Performance, 2016, 25, 4729-4734.	2.5	2

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73	Serration Behavior in Zr-Cu-Al Glass-forming Systems. Journal of Iron and Steel Research International, 2016, 23, 42-47.	2.8	11
74	Tribological Properties of AlCrCuFeNi2 High-Entropy Alloy in Different Conditions. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2016, 47, 3312-3321.	2.2	80
75	Tribological Properties of a Dendrite-reinforced Ti-based Metallic Glass Matrix Composite under Different Conditions. Journal of Iron and Steel Research International, 2016, 23, 57-63.	2.8	9
76	Metallic glass matrix composites. Materials Science and Engineering Reports, 2016, 100, 1-69.	31.8	424
77	A Brief Review of High Entropy Alloys and Serration Behavior and Flow Units. Journal of Iron and Steel Research International, 2016, 23, 2-6.	2.8	47
78	High-Entropy Alloys in Hexagonal Close-Packed Structure. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2016, 47, 3322-3332.	2.2	158
79	Evolution of hardness and modulus within a cold-rolled in situ dendrite-reinforced metallic glass matrix composites. Materials Research Innovations, 2015, 19, S170-S174.	2.3	1
80	Crystallization pathways of liquid-bcc transition for a model iron by fast quenching. Scientific Reports, 2015, 5, 16956.	3.3	29
81	An improved tensile deformation model for in-situ dendrite/metallic glass matrix composites. Scientific Reports, 2015, 5, 13964.	3.3	20
82	Composition mediated serration dynamics in Zr-based bulk metallic glasses. Applied Physics Letters, 2015, 107, .	3.3	30
83	The Self-Organized Critical Behavior in Pd-based Bulk Metallic Glass. Metals, 2015, 5, 1188-1196.	2.3	3
84	Serration Dynamics in a Zr-Based Bulk Metallic Glass. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2015, 46, 2404-2414.	2.2	19
85	Corrosion Behavior of Ti-Based In Situ Dendrite-Reinforced Metallic Glass Matrix Composites in Various Solutions. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2015, 46, 2399-2403.	2.2	7
86	Nanoindentation characterised plastic deformation of a Al_{0.5}CoCrFeNi high entropy alloy. Materials Science and Technology, 2015, 31, 1244-1249.	1.6	34
87	Plastic Deformation of Al0.3CoCrFeNi and AlCoCrFeNi High-Entropy Alloys Under Nanoindentation. Journal of Materials Engineering and Performance, 2015, 24, 3077-3083.	2.5	53
88	Microyielding of Core-Shell Crystal Dendrites in a Bulk-metallic-glass Matrix Composite. Scientific Reports, 2015, 4, 4394.	3.3	16
89	Insights from the Lattice-Strain Evolution on Deformation Mechanisms in Metallic-Glass-Matrix Composites. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2015, 46, 2431-2442.	2.2	23
90	Corrosion behavior of in situ dendrite-reinforced Zr-based metallic glass matrix composites in NaCl solutions of varied concentrations. Materials Chemistry and Physics, 2015, 162, 326-331.	4.0	9

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91	Effects of Temperature on Serrated Flows of Al0.5CoCrCuFeNi High-Entropy Alloy. Jom, 2015, 67, 2314-2320.	1.9	47
92	Serrated flow behaviors of a Zr-based bulk metallic glass by nanoindentation. Journal of Applied Physics, 2014, 115, .	2.5	36
93	Scattering mechanical performances for brittle bulk metallic glasses. AIP Advances, 2014, 4, .	1.3	2
94	The role of the interface in a Tiâ€based metallic glass matrix composite with in situ dendrite reinforcement. Surface and Interface Analysis, 2014, 46, 293-296.	1.8	16
95	Dry Sliding Tribological Properties of a Dendrite-reinforced Zr-based Bulk Metallic Glass Matrix Composite. Journal of Materials Science and Technology, 2014, 30, 576-583.	10.7	33
96	Fabrication and Mechanical Characterization of Ti-Based Metallic Glass Matrix Composites by the Bridgman Solidification. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2014, 45, 2357-2362.	2.2	9
97	Tensile Mechanical Behaviors of In Situ Metallic Glass Matrix Composites at Ambient Temperature and in Supercooled Liquid Region. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2014, 45, 2382-2388.	2.2	5
98	Nanoindentation deformation of a bi-phase AlCrCuFeNi2 alloy. Journal of Alloys and Compounds, 2014, 608, 49-53.	5.5	25
99	In-situ Tension of Dendrite-Reinforced Zr-based Metallic-Glass-Matrix Composites. Acta Metallurgica Sinica (English Letters), 2014, 27, 621-626.	2.9	5
100	Improved plasticity of bulk metallic glasses by electrodeposition. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2014, 615, 240-246.	5.6	15
101	Temperature Effects on Deformation and Serration Behavior of High-Entropy Alloys (HEAs). Jom, 2014, 66, 2002-2008.	1.9	72
102	Tuned Critical Avalanche Scaling in Bulk Metallic Glasses. Scientific Reports, 2014, 4, 4382.	3.3	121
103	In-situ Dendrite/Metallic Glass Matrix Composites: A Review. Journal of Materials Science and Technology, 2013, 29, 685-701.	10.7	87
104	Dendritic and spherical crystal reinforced metallic glass matrix composites. International Journal of Minerals, Metallurgy and Materials, 2013, 20, 386-392.	4.9	12
105	Optimizing mechanical properties of AlCoCrFeNiTi x high-entropy alloys by tailoring microstructures. Acta Metallurgica Sinica (English Letters), 2013, 26, 277-284.	2.9	67
106	Exponential decay of shearing stress during jerky flows in a Zr-based bulk metallic glass. AIP Advances, 2013, 3, .	1.3	12
107	A Tensile Deformation Model for In-situ Dendrite/Metallic Glass Matrix Composites. Scientific Reports, 2013, 3, 2816.	3.3	79
108	Tensile softening of metallic-glass-matrix composites in the supercooled liquid region. Applied Physics Letters, 2012, 100, .	3.3	42

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109	Morphology Transition from Dendrites to Equiaxed Grains for AlCoCrFeNi High-Entropy Alloys by Copper Mold Casting and Bridgman Solidification. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2012, 43, 2625-2630.	2.2	89
110	Tension-Tension-Fatigue Behaviors of a Zr-Based Bulk-Metallic-Glass-Matrix Composite. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2011, 42, 2530-2534.	2.2	15
111	Quasi-static and dynamic deformation behaviors of in situ Zr-based bulk-metallic-glass-matrix composites. Journal of Materials Research, 2010, 25, 2264-2270.	2.6	25
112	Large plasticity and tensile necking of Zr-based bulk-metallic-glass-matrix composites synthesized by the Bridgman solidification. Applied Physics Letters, 2009, 94, 151905.	3.3	124