

Zhu Xiao

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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.

88
papers

1,467
citations

23
h-index

35
g-index

90
ext. papers

2,020
ext. citations

4.6
avg, IF

4.86
L-index

#	Paper	IF	Citations
88	Phase transformation behaviors and properties of a high strength Cu-Ni-Si alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2017 , 697, 37-47	5.3	92
87	A new ultrahigh strength CuNiSi alloy. <i>Intermetallics</i> , 2013 , 42, 77-84	3.5	84
86	Effects of Zr and (Ni, Si) additions on properties and microstructure of CuCr alloy. <i>Journal of Alloys and Compounds</i> , 2014 , 582, 786-792	5.7	80
85	The evolution of microstructure in Cu _{8.0} Ni _{1.8} Si _{0.15} Mg alloy during aging. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2010 , 527, 6728-6733	5.3	56
84	Microstructure and properties of Cu-Cr-Nb alloy with high strength, high electrical conductivity and good softening resistance performance at elevated temperature. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2019 , 749, 281-290	5.3	53
83	Microstructure and Properties of a Novel CuNiCoSiMg Alloy with Super-high Strength and Conductivity. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2019 , 744, 754-763	5.3	52
82	Phase transformations behavior in a Cu _{8.0} Ni _{1.8} Si alloy. <i>Journal of Alloys and Compounds</i> , 2011 , 509, 3617-3622	5.7	50
81	Microstructure and properties of high-conductivity, super-high-strength Cu _{8.0} Ni _{1.8} Si _{0.6} Sn _{0.15} Mg alloy. <i>Journal of Materials Research</i> , 2009 , 24, 2123-2129	2.5	50
80	Effect of magnesium on microstructure and properties of Cu-Cr alloy. <i>Journal of Alloys and Compounds</i> , 2018 , 752, 191-197	5.7	46
79	Microstructure and properties of a CuNiSiCoCr alloy with high strength and high conductivity. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2019 , 759, 396-403	5.3	42
78	Microstructure and tensile properties of large-size 7055 aluminum billets fabricated by spray forming rapid solidification technology. <i>Journal of Alloys and Compounds</i> , 2013 , 578, 208-214	5.7	42
77	Precipitation behavior of Cu-3.0Ni-0.72Si alloy. <i>Acta Materialia</i> , 2019 , 166, 261-270	8.4	40
76	Dynamics of phase transformation of Cu-Ni-Si alloy with super-high strength and high conductivity during aging. <i>Transactions of Nonferrous Metals Society of China</i> , 2010 , 20, 1006-1011	3.3	39
75	High strength and large ductility in spray-deposited AlZnMgCu alloys. <i>Journal of Alloys and Compounds</i> , 2014 , 601, 120-125	5.7	38
74	Effect of processing of mechanical alloying and powder metallurgy on microstructure and properties of CuAlNiMn alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2008 , 488, 266-272	5.3	38
73	Effect of thermo-mechanical treatments on corrosion behavior of Cu-15Ni-8Sn alloy in 3.5 wt% NaCl solution. <i>Materials Chemistry and Physics</i> , 2017 , 199, 54-66	4.4	37
72	Microstructure evolution and properties of Cu-Cr alloy during continuous extrusion process. <i>Journal of Alloys and Compounds</i> , 2017 , 703, 454-460	5.7	34

71	Surface characterization and corrosion behavior of a novel gold-imitation copper alloy with high tarnish resistance in salt spray environment. <i>Corrosion Science</i> , 2013 , 76, 42-51	6.8	32
70	Microstructure and properties of a novel Cu-Mg-Ca alloy with high strength and high electrical conductivity. <i>Journal of Alloys and Compounds</i> , 2017 , 723, 1162-1170	5.7	31
69	Temperature-independent piezoresistive sensors based on carbon nanotube/polymer nanocomposite. <i>Carbon</i> , 2018 , 137, 188-195	10.4	31
68	Microstructural evolution, phase transition, and physics properties of a high strength Cu ₉₀ Ni ₅ Al alloy. <i>Materials Characterization</i> , 2019 , 147, 315-323	3.9	29
67	Effects of silicon and thermo-mechanical process on microstructure and properties of Cu ₉₀ Ni ₅ Al _{0.8} Si alloy. <i>Materials & Design</i> , 2014 , 62, 265-270		25
66	Heat transfer coefficient of porous copper with homogeneous and hybrid structures in active cooling. <i>Journal of Materials Research</i> , 2013 , 28, 2545-2553	2.5	24
65	Effect of temperature on the electrical property of epoxy composites with carbon nanotube. <i>Composites Science and Technology</i> , 2017 , 149, 48-54	8.6	23
64	Effects of minor rare earths on the microstructure and properties of Cu-Cr-Zr alloy. <i>Journal of Alloys and Compounds</i> , 2020 , 847, 155762	5.7	22
63	Microstructure and properties of Cu-10 wt%Fe alloy produced by double melt mixed casting and multi-stage thermomechanical treatment. <i>Journal of Alloys and Compounds</i> , 2020 , 820, 153323	5.7	21
62	A percolation network model to predict the electrical property of flexible CNT/PDMS composite films fabricated by spin coating technique. <i>Composites Part B: Engineering</i> , 2019 , 174, 107034	10	18
61	Structure and properties of ductile CuAlMn shape memory alloy synthesized by mechanical alloying and powder metallurgy. <i>Materials & Design</i> , 2014 , 58, 451-456		18
60	Microstructure evolution and quench sensitivity of Cu ₉₀ Ni ₅ Al _{0.8} Si alloy during isothermal treatment. <i>Journal of Materials Research</i> , 2015 , 30, 736-744	2.5	15
59	High temperature mechanical behavior of alumina dispersion strengthened copper alloy with high content of alumina. <i>Transactions of Nonferrous Metals Society of China</i> , 2015 , 25, 444-450	3.3	15
58	Microstructure and properties of CuMg-Ca alloy processed by equal channel angular pressing. <i>Journal of Alloys and Compounds</i> , 2019 , 788, 50-60	5.7	14
57	High temperature response capability in carbon nanotube/polymer nanocomposites. <i>Composites Science and Technology</i> , 2018 , 167, 563-570	8.6	13
56	Microstructure and property of the composite laminate clad by explosive welding of CuAlMn shape memory alloy and QBe2 alloy. <i>Materials & Design</i> , 2009 , 30, 1404-1408		12
55	Microstructure and texture evolution of novel Cu ₉₀ Ni ₅ Al _{0.8} Si alloy during hot deformation. <i>Journal of Materials Research</i> , 2016 , 31, 1113-1123	2.5	12
54	Dry wear behavior of ultra-high strength Cu ₉₀ Ni ₅ Al _{0.8} Si alloy. <i>Tribology International</i> , 2015 , 92, 544-552	4.9	11

53	Adiabatic shear deformation behaviors of cold-rolled copper under different impact loading directions. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2019 , 754, 330-338	5.3	10
52	Microstructure evolution of Cu _{0.2} Mg alloy during continuous extrusion process. <i>Journal of Materials Research</i> , 2015 , 30, 2783-2791	2.5	10
51	Structure evolution of Cu-based shape memory powder during mechanical alloying. <i>Transactions of Nonferrous Metals Society of China</i> , 2007 , 17, 1422-1427	3.3	10
50	Development of homogeneity in a Cu-Mg-Ca alloy processed by equal channel angular pressing. <i>Journal of Alloys and Compounds</i> , 2020 , 820, 153112	5.7	10
49	Effects of thermal treatments on the residual stress and micro-yield strength of Al ₂ O ₃ dispersion strengthened copper alloy. <i>Journal of Alloys and Compounds</i> , 2019 , 781, 490-495	5.7	10
48	Effects of grain size on the microstructure and texture of cold-rolled Ta-2.5W alloy. <i>International Journal of Refractory Metals and Hard Materials</i> , 2016 , 58, 125-136	4.1	9
47	Microstructure and Properties of a Cu-Ni-Sn Alloy Treated by Two-Stage Thermomechanical Processing. <i>Jom</i> , 2019 , 71, 2734-2741	2.1	9
46	Characterization of Dispersion Strengthened Copper Alloy Prepared by Internal Oxidation Combined with Mechanical Alloying. <i>Journal of Materials Engineering and Performance</i> , 2017 , 26, 5641-5647	1.6	9
45	Surface modification with SiO ₂ coating on biomedical TiNi shape memory alloy by sol-gel method. <i>Transactions of Nonferrous Metals Society of China</i> , 2015 , 25, 3723-3728	3.3	9
44	Microstructure and properties of a novel Cu-Cr-Yb alloy with high strength, high electrical conductivity and good softening resistance. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2020 , 795, 140001	5.3	9
43	Microstructure evolution and deformation behaviour of Cu-10wt%Fe alloy during cold rolling. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2021 , 801, 140379	5.3	9
42	Effect of Aging Time on the Corrosion Behavior of a Cu-Ni-Si Alloy in 3.5 wt% NaCl Solution. <i>Corrosion</i> , 2016 , 72, 615-627	1.8	8
41	Precipitation Behavior and Quenching Sensitivity of a Spray Deposited Al-Zn-Mg-Cu-Zr Alloy. <i>Materials</i> , 2017 , 10,	3.5	8
40	Tuning the interfacial spin-orbit coupling with ferroelectricity. <i>Nature Communications</i> , 2020 , 11, 2627	17.4	8
39	Quench Sensitivity of AA7N01 Alloy Used for High-Speed Train Body Structure. <i>Jom</i> , 2019 , 71, 1681-1686	6.1	7
38	Hot Deformation Behavior of a Spray-Deposited Al-8.31Zn-2.07Mg-2.46Cu-0.12Zr Alloy. <i>Metals</i> , 2017 , 7, 299	2.3	6
37	Hot deformation behavior of a CuAlMn shape memory alloy. <i>Journal of Alloys and Compounds</i> , 2020 , 845, 156161	5.7	6
36	Electrical characterization of flexible CNT/polydimethylsiloxane composite films with finite thickness. <i>Carbon</i> , 2019 , 154, 439-447	10.4	5

35	Effect of accumulative roll-bonding process on phase transformation and magnetic properties of polycrystalline cobalt. <i>Materials Characterization</i> , 2020 , 163, 110290	3.9	5
34	Effect of Equal Channel Angular Pressing on Microstructure and Mechanical Properties of a Cu-Mg Alloy. <i>Crystals</i> , 2020 , 10, 426	2.3	5
33	Investigations on Voids Formation in CuMg Alloy During Continuous Extrusion. <i>Jom</i> , 2017 , 69, 1696-1700.	2.1	5
32	Corrosion behavior of CuAlMnZr shape memory alloy in NaCl solution. <i>Transactions of Nonferrous Metals Society of China</i> , 2021 , 31, 1012-1022	3.3	5
31	A Novel Cu-10Zn-1.5Ni-0.34Si Alloy with Excellent Mechanical Property Through Precipitation Hardening. <i>Journal of Materials Engineering and Performance</i> , 2016 , 25, 4624-4630	1.6	5
30	The evolution of microstructure and properties of a CuTiCrMgSi alloy with high strength during the multi-stage thermomechanical treatment. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2021 , 803, 140510	5.3	5
29	Atom exchange of martensite in Cu-13Zn-15Al alloy during non-isothermal aging. <i>Transactions of Nonferrous Metals Society of China</i> , 2006 , 16, 1064-1068	3.3	4
28	Microstructural evolution and properties of Cu20 wt% Ag alloy wire by multi-pass continuous drawing. <i>Nanotechnology Reviews</i> , 2020 , 9, 1359-1367	6.3	4
27	Effects of microelements on the microstructure evolution and properties of ultrahigh strength CuTi alloys. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2021 , 823, 141581	5.3	4
26	Microstructure and properties of high strength, high conductivity and magnetic Cu10Fe-0.4Si alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2021 , 826, 142012	5.3	4
25	Sphericizing tungsten particles by means of localized preferential oxidation and alkaline washing. <i>Powder Technology</i> , 2012 , 228, 187-192	5.2	3
24	Fabrication of a Cu/TiNi Composite with High Air-Tightness and Low Thermal Expansion. <i>Jom</i> , 2020 , 72, 883-888	2.1	3
23	Microstructure and properties of Cu-Ag alloy prepared by continuously directional solidification. <i>Journal of Alloys and Compounds</i> , 2021 , 883, 160769	5.7	3
22	Mechanical property and corrosion behavior of aged Cu-20Ni-20Mn alloy with ultra-high strength. <i>Journal of Central South University</i> , 2020 , 27, 1158-1167	2.1	2
21	Microstructure, and Physical and Mechanical Properties of CopperGraphite Composites Obtained by In Situ Reaction Method. <i>Journal of Materials Engineering and Performance</i> , 2020 , 29, 1696-1705	1.6	2
20	Microstructure evolution and hot deformation behavior of CuBTi0.1Zr alloy with ultra-high strength. <i>Transactions of Nonferrous Metals Society of China</i> , 2020 , 30, 2737-2748	3.3	2
19	Effect of creep annealing on the dimensional stability of dispersion strengthened copper alloy. <i>Journal of Alloys and Compounds</i> , 2021 , 887, 161321	5.7	2
18	Cu/SiCP Composites Prepared by In-Situ Carbonization Synthesis. <i>Jom</i> , 2019 , 71, 2513-2521	2.1	1

17	Microstructure evolution of alumina dispersion strengthened copper alloy deformed under different conditions. <i>Transactions of Nonferrous Metals Society of China</i> , 2015 , 25, 3953-3958	3.3	1
16	Porous CuAlMn Shape-Memory Alloys with Controlling Porosity and Pores Structural Parameter Produced by Sintering-Evaporation Process. <i>Advanced Materials Research</i> , 2010 , 123-125, 1011-1014	0.5	1
15	Effect of trace silicon addition on microstructure and properties of a Cu _{0.26} Cr _{0.14} Mg alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2022 , 833, 142511	5.3	1
14	Effects of Fe content on microstructure and properties of CuFe alloy. <i>Transactions of Nonferrous Metals Society of China</i> , 2021 , 31, 3039-3049	3.3	1
13	Effects of trace calcium and strontium on microstructure and properties of Cu-Cr alloys. <i>Journal of Materials Science and Technology</i> , 2021 ,	9.1	1
12	A multiphase strengthened Cu-Nb-Si alloy with high strength and high conductivity. <i>Materials Characterization</i> , 2021 , 182, 111565	3.9	1
11	Microstructure Evolution and Hot Deformation Behavior of a CuNiSn Alloy. <i>Processes</i> , 2021 , 9, 451	2.9	1
10	Dynamic Recrystallization of Cu-Cr-Ni-Si-Co Alloy During Hot Deformation. <i>Jom</i> , 2021 , 73, 2274-2284	2.1	1
9	Effect of Al on Corrosion Behavior of Imitation-Gold Cu-Zn-Ni-Sn Alloys in 3.5 wt.% NaCl solution. <i>Jom</i> , 2021 , 73, 589-599	2.1	1
8	Recrystallization behavior and phase transformation in a hot-rolled pure cobalt during annealing at the elevated temperature. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2022 , 845, 143178	5.3	1
7	Uncovering Microstructure Evolution and Dynamic Softening Mechanism of Spray-Deposited AlZnMgCu Alloy Under Thermal Deformation. <i>Metals and Materials International</i> , 1	2.4	0
6	Microstructure and properties of Cu-TiNi composites prepared by vacuum hot pressing. <i>Journal of Alloys and Compounds</i> , 2021 , 162729	5.7	0
5	Effect of equal channel angular pressing on microstructure evolution and properties variations of a CuCrZrY alloy. <i>Journal of Alloys and Compounds</i> , 2022 , 894, 162284	5.7	0
4	Interface Microstructure and Tribological Behaviors of Copper Matrix Composites with High Graphite Content Prepared by Short-Process Reduction and Vacuum Hot Pressing. <i>Jom</i> , 2022 , 74, 2094	2.1	0
3	Cr-based second phases in a high conductivity Cu-Cr-Nb alloy with high high-temperature strength. <i>Materials and Design</i> , 2022 , 219, 110784	8.1	0
2	Effects of enhanced nucleation on the growth and thermal performance of diamond films deposited on BeO by hot filament CVD technique. <i>Frontiers of Materials Science in China</i> , 2008 , 2, 369-374		
1	Effects of thermal-mechanical treatment on microstructure and properties of Cu-Zn-Fe alloy. <i>IOP Conference Series: Earth and Environmental Science</i> , 2018 , 199, 032011	0.3	