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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.

108 papers	1,722 citations	25 h-index	36 g-index
110 ext. papers	2,459 ext. citations	4.6 avg, IF	5.14 L-index

#	Paper	IF	Citations
108	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
107	Effects of Zr and (Ni, Si) additions on properties and microstructure of Cu-Cr alloy. <i>Journal of Alloys and Compounds</i> , 2014 , 582, 786-792	5.7	80
106	Microstructure and mechanical properties of high product of strength and elongation Al-Zn-Mg-Cu-Zr alloys fabricated by spray deposition. <i>Materials and Design</i> , 2016 , 96, 217-223	8.1	63
105	Microstructure and mechanical properties of a high strength Cu-Ni-Si alloy treated by combined aging processes. <i>Journal of Alloys and Compounds</i> , 2017 , 695, 2413-2423	5.7	59
104	The microstructure evolution and properties of a Cu-Cr-Al alloy during thermal-mechanical treatment. <i>Journal of Materials Research</i> , 2017 , 32, 1324-1332	2.5	54
103	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
102	Microstructure and Properties of a Novel Cu-Ni-Co-Si-Mg 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
101	Orientation and diffraction patterns of Ni_2Si precipitates in Cu-Ni-Si alloy. <i>Journal of Alloys and Compounds</i> , 2013 , 557, 147-151	5.7	47
100	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
99	Hybrids of PtRu Nanoclusters and Black Phosphorus Nanosheets for Highly Efficient Alkaline Hydrogen Evolution Reaction. <i>ACS Catalysis</i> , 2019 , 9, 10870-10875	13.1	45
98	Microstructure and properties of a Cu-Ni-Si-Co-Cr 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
97	The transformation behavior of Cu-8.0Ni-1.8Si-0.6Sn-0.15Mg alloy during isothermal heat treatment. <i>Materials Characterization</i> , 2011 , 62, 904-911	3.9	41
96	Precipitation behavior of Cu-3.0Ni-0.72Si alloy. <i>Acta Materialia</i> , 2019 , 166, 261-270	8.4	40
95	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
94	Effect of processing of mechanical alloying and powder metallurgy on microstructure and properties of Cu-Al-Ni-Mn alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2008 , 488, 266-272	5.3	38
93	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
92	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

91	Microstructure, mechanical properties and electrical conductivity of Cu _{0.3} Mg _{0.05} Ce alloy processed by equal channel angular pressing and subsequent annealing. <i>Journal of Alloys and Compounds</i> , 2015 , 640, 347-354	5.7	33
90	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
89	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
88	Temperature-independent piezoresistive sensors based on carbon nanotube/polymer nanocomposite. <i>Carbon</i> , 2018 , 137, 188-195	10.4	31
87	Age-hardening behavior and microstructure of Cu-15Ni-8Sn-0.3Nb alloy prepared by powder metallurgy and hot extrusion. <i>Transactions of Nonferrous Metals Society of China</i> , 2017 , 27, 1947-1955	3.3	30
86	Microstructural evolution, phase transition, and physics properties of a high strength Cu ₉₀ Ni ₈ Si ₂ Al alloy. <i>Materials Characterization</i> , 2019 , 147, 315-323	3.9	29
85	Ultrafast fabrication of Cu oxide micro/nano-structures via laser ablation to promote oxygen evolution reaction. <i>Chemical Engineering Journal</i> , 2020 , 383, 123086	14.7	26
84	Effects of silicon and thermo-mechanical process on microstructure and properties of Cu ₉₀ Ni ₈ Al ₂ Si alloy. <i>Materials & Design</i> , 2014 , 62, 265-270		25
83	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
82	Investigation of electrical conductivity and electromagnetic interference shielding performance of Au@CNT/sodium alginate/polydimethylsiloxane flexible composite. <i>Composites Part A: Applied Science and Manufacturing</i> , 2020 , 130, 105762	8.4	23
81	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
80	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
79	Effect of heat treatment on microstructure and mechanical properties of a selective laser melted Cu ₉₅ Ni ₅ Sn alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2019 , 763, 138132	5.3	18
78	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
77	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
76	Hot deformation behavior of novel imitation-gold copper alloy. <i>Transactions of Nonferrous Metals Society of China</i> , 2013 , 23, 1349-1355	3.3	18
75	High-temperature deformation behavior of Cu ₉₀ Ni ₅ Si ₂ Al ₃ Mg _{0.1} Cr alloy. <i>Journal of Materials Science</i> , 2012 , 47, 6034-6042	4.3	16
74	Effects of aging mechanisms on the exfoliation corrosion behavior of a spray deposited Al ₇₀ Mg ₂₀ Cu ₁₀ Zr aluminum alloy. <i>Journal of Materials Research</i> , 2017 , 32, 1105-1117	2.5	15

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| 73 | Microstructure and properties of Cu _{0.3} Fe _{0.03} P alloy during thermomechanical treatments. <i>Transactions of Nonferrous Metals Society of China</i> , 2015 , 25, 1551-1558 | 3.3 | 15 |
| 72 | Diffraction analysis of Fe precipitates in a polycrystalline CuBe alloy. <i>Materials Characterization</i> , 2015 , 105, 129-135 | 3.9 | 15 |
| 71 | Microstructure evolution and quench sensitivity of Cu _{0.10} Ni _{0.8} Al _{0.8} Si alloy during isothermal treatment. <i>Journal of Materials Research</i> , 2015 , 30, 736-744 | 2.5 | 15 |
| 70 | 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 |
| 69 | Microstructure and properties of Cu _{0.1} Mg-Ca alloy processed by equal channel angular pressing. <i>Journal of Alloys and Compounds</i> , 2019 , 788, 50-60 | 5.7 | 14 |
| 68 | Processing map and hot deformation mechanism of novel nickel-free white copper alloy. <i>Transactions of Nonferrous Metals Society of China</i> , 2014 , 24, 3492-3499 | 3.3 | 14 |
| 67 | High temperature response capability in carbon nanotube/polymer nanocomposites. <i>Composites Science and Technology</i> , 2018 , 167, 563-570 | 8.6 | 13 |
| 66 | Improving the strength and retaining the ductility of microstructural graded coarse-grained materials with low stacking fault energy. <i>Materials and Design</i> , 2018 , 160, 21-33 | 8.1 | 13 |
| 65 | Microstructure and texture evolution of novel Cu _{0.10} Ni _{0.8} Al _{0.8} Si alloy during hot deformation. <i>Journal of Materials Research</i> , 2016 , 31, 1113-1123 | 2.5 | 12 |
| 64 | Dry wear behavior of ultra-high strength Cu _{0.10} Ni _{0.8} Al _{0.8} Si alloy. <i>Tribology International</i> , 2015 , 92, 544-552 | 4.9 | 11 |
| 63 | Nanoindentation creep of ultrafine-grained Al ₂ O ₃ particle reinforced copper composites. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2013 , 560, 80-85 | 5.3 | 11 |
| 62 | 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 |
| 61 | Effect of applied load on transition behavior of wear mechanism in Cu _{0.15} Ni _{0.8} Sn alloy under oil lubrication. <i>Journal of Central South University</i> , 2017 , 24, 1754-1761 | 2.1 | 10 |
| 60 | 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 |
| 59 | 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 |
| 58 | Phase transformation behavior of Cu _{0.10} Ni _{0.8} Al _{0.8} Si alloy. <i>Materials Chemistry and Physics</i> , 2016 , 173, 421-428 | 4.4 | 9 |
| 57 | 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 |
| 56 | 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 |

55	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
54	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
53	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
52	Co(OH) Nanosheets Supported on Laser Ablated Cu Foam: An Efficient Oxygen Evolution Reaction Electrocatalyst. <i>Frontiers in Chemistry</i> , 2019 , 7, 900	5	8
51	Tuning the interfacial spin-orbit coupling with ferroelectricity. <i>Nature Communications</i> , 2020 , 11, 2627	17.4	8
50	Microstructure and mechanical properties of a Cu-Fe-Nb alloy with a high product of the strength times the elongation. <i>Materials Today Communications</i> , 2020 , 25, 101353	2.5	8
49	Quench Sensitivity of AA7N01 Alloy Used for High-Speed Train Body Structure. <i>Jom</i> , 2019 , 71, 1681-1686	6.1	7
48	Hierarchical CoFe oxyhydroxides nanosheets and Co2P nanoparticles grown on Ni foam for overall water splitting. <i>Electrochimica Acta</i> , 2020 , 360, 136994	6.7	7
47	Grain refinement and mechanical properties improvements in a high strength CuNiSi alloy during multidirectional forging. <i>Fusion Engineering and Design</i> , 2020 , 159, 111766	1.7	6
46	Microstructure and mechanical properties of a CuNiTi alloy with a large product of strength and elongation. <i>Journal of Materials Research and Technology</i> , 2020 , 9, 2299-2307	5.5	6
45	Arc Erosion Behavior of Cu0.23Be0.84Co Alloy after Heat Treatment: An Experimental Study. <i>Acta Metallurgica Sinica (English Letters)</i> , 2016 , 29, 399-408	2.5	6
44	Corrosion behavior of novel CuNiAlSi alloy with super-high strength in 3.5% NaCl solution. <i>Transactions of Nonferrous Metals Society of China</i> , 2017 , 27, 1096-1104	3.3	6
43	Effect of Magnesium on Microstructure Refinements and Properties Enhancements in High-Strength CuNiSi Alloys. <i>Acta Metallurgica Sinica (English Letters)</i> , 2020 , 33, 375-384	2.5	6
42	Effect of nano-scale Cu particles on the electrical property of CNT/polymer nanocomposites. <i>Composites Part A: Applied Science and Manufacturing</i> , 2021 , 143, 106325	8.4	6
41	Wear Regime and Wear Mechanism Map for Spark-Plasma-Sintered Cu-15Ni-8Sn-0.2Nb Alloy under Oil Lubrication. <i>Journal of Materials Engineering and Performance</i> , 2019 , 28, 4187-4196	1.6	5
40	Effects of pre-aging treatment on subsequent artificial aging characteristics of Al-3.95Cu-(1.32Mg)-0.52Mn-0.11Zr alloys. <i>Journal of Central South University</i> , 2015 , 22, 1-7	2.1	5
39	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
38	Tribological Behaviors of an Ultrahigh Strength Cu5Ni8Sn0.2Y Alloy Sliding Against TC6 Titanium Alloy in Deionized Water and Seawater. <i>Tribology Letters</i> , 2020 , 68, 1	2.8	5

37	Investigations on Voids Formation in CuMg Alloy During Continuous Extrusion. <i>Jom</i> , 2017 , 69, 1696-1700.	2.1	5
36	Hot deformation behavior and cold workability of Cu-2Mn-3Zn-1Sn-0.1Si-0.1Ce alloy with white chromaticity. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2012 , 553, 67-73	5.3	5
35	Corrosion behavior of Cu-Al-Mn-Zr shape memory alloy in NaCl solution. <i>Transactions of Nonferrous Metals Society of China</i> , 2021 , 31, 1012-1022	3.3	5
34	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
33	Wear map for sliding wear behavior of Cu-15Ni-8Sn alloy against bearing steel under oil-lubricated condition. <i>Journal of Central South University</i> , 2020 , 27, 311-324	2.1	5
32	The evolution of microstructure and properties of a Cu-10Cr-10Mg-5Si 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
31	Microstructures, mechanical properties, and grease-lubricated sliding wear behavior of Cu-15Ni-8Sn-0.8Nb alloy with high strength and toughness. <i>Friction</i> , 2021 , 9, 1061-1076	5.6	5
30	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
29	Single-Atom and Bimetallic Nanoalloy Supported on Nanotubes as a Bifunctional Electrocatalyst for Ultrahigh-Current-Density Overall Water Splitting. <i>ACS Catalysis</i> , 2022 , 12, 1167-1179	13.1	4
28	Corrosion and corrosive-wear behaviors of a high strength and toughness Cu-5Ni-8Sn alloy in seawater. <i>Materials and Corrosion - Werkstoffe Und Korrosion</i> , 2020 , 71, 593-607	1.6	4
27	Effects of microelements on the microstructure evolution and properties of ultrahigh strength Cu-Ti 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 Cu-0Fe-0.4Si alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2021 , 826, 142012	5.3	4
25	High-strength, ductility and corrosion-resistant in a novel Cu ₂₀ Ni ₂₀ Mn _{0.3} Cr _{0.3} Al alloy. <i>Materials Chemistry and Physics</i> , 2020 , 252, 123177	4.4	3
24	Effects of Al addition on corrosion behavior and mechanical property of high-strength and high-elasticity Cu-20Ni-20Mn-0.3Nb-0.3Cr-0.3Zr alloy. <i>Materials Characterization</i> , 2020 , 167, 110476	3.9	3
23	Evolution of microstructure and mechanical properties in Zn-Cu-Ti alloy during severe hot rolling at 300 °C. <i>Journal of Materials Research</i> , 2017 , 32, 3146-3155	2.5	3
22	The Corrosion Behavior of Cu-Ni-Si Alloy in Sea Water with Deep-Sea Bacteria. <i>Advanced Materials Research</i> , 2014 , 936, 1102-1105	0.5	3
21	Microstructure and properties of a novel ultra-high strength, high elasticity and high plasticity Cu ₂₀ Ni ₂₀ Mn-0.3Nb-0.3Cr-0.1Zr alloy. <i>Journal of Alloys and Compounds</i> , 2021 , 853, 157402	5.7	3
20	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

19	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
18	Microstructure, and Physical and Mechanical Properties of Copper-Graphite Composites Obtained by In Situ Reaction Method. <i>Journal of Materials Engineering and Performance</i> , 2020 , 29, 1696-1705	1.6	2
17	Microstructure evolution and hot deformation behavior of Cu ₃ Ti _{0.1} Zr alloy with ultra-high strength. <i>Transactions of Nonferrous Metals Society of China</i> , 2020 , 30, 2737-2748	3.3	2
16	Mechanical Properties and Fracture Behavior of Cu-Co-Be Alloy after Plastic Deformation and Heat Treatment. <i>Journal of Iron and Steel Research International</i> , 2016 , 23, 933-939	1.2	2
15	Microstructure and properties of high-strength Cu ₄₀ Ni ₅₀ (Ti) alloys. <i>Rare Metals</i> , 2021 , 40, 3251	5.5	2
14	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
13	Influence of Zinc on Coarsening of ENi ₂ Si Particles, Aging Behavior and Hardness in a Cu-Ni-Si Alloy. <i>Journal of Materials Engineering and Performance</i> , 2017 , 26, 2459-2464	1.6	1
12	Cu/SiCP Composites Prepared by In-Situ Carbonization Synthesis. <i>Jom</i> , 2019 , 71, 2513-2521	2.1	1
11	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
10	Effects of Fe content on microstructure and properties of CuBe alloy. <i>Transactions of Nonferrous Metals Society of China</i> , 2021 , 31, 3039-3049	3.3	1
9	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
8	A multiphase strengthened Cu-Nb-Si alloy with high strength and high conductivity. <i>Materials Characterization</i> , 2021 , 182, 111565	3.9	1
7	Microstructure Evolution and Hot Deformation Behavior of a CuNiSn Alloy. <i>Processes</i> , 2021 , 9, 451	2.9	1
6	Dynamic Recrystallization of Cu-Cr-Ni-Si-Co Alloy During Hot Deformation. <i>Jom</i> , 2021 , 73, 2274-2284	2.1	1
5	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
4	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
3	Microstructure, properties and strengthening mechanism of Cu-TiB ₂ -Al ₂ O ₃ composite prepared by liquid phase in-situ reaction casting. <i>Journal of Alloys and Compounds</i> , 2022 , 912, 165170	5.7	0
2	A free-cutting and ductile CuAlMnZnTiB shape memory alloy. <i>Journal of Central South University</i> , 2015 , 22, 416-421	2.1	

- 1 Thermal stability of marks gold nanoparticles: A molecular dynamics simulation. *International Journal of Modern Physics B*, **2017**, 31, 1741001 1.1