

Yanlin Jia

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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.

80
papers

1,355
citations

21
h-index

33
g-index

83
ext. papers

1,768
ext. citations

4.4
avg, IF

4.95
L-index

#	Paper	IF	Citations
80	Effects of Zr and (Ni, Si) additions on properties and microstructure of Cu ₈₀ Zr ₂₀ alloy. <i>Journal of Alloys and Compounds</i> , 2014 , 582, 786-792	5.7	80
79	Study of deformation and aging behaviors of a hot rolled-quenched Cu ₈₀ Zr ₂₀ Mg ₅ Si alloy during thermomechanical treatments. <i>Materials & Design</i> , 2012 , 39, 404-409		65
78	High strength and high electrical conductivity Cu ₈₀ Zr ₂₀ system alloys manufactured by hot rolling-quenching process and thermomechanical treatments. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2012 , 538, 295-301	5.3	59
77	The evolution of microstructure in Cu ₈₀ Ni ₁₀ Si ₁₀ Mg alloy during aging. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2010 , 527, 6728-6733	5.3	56
76	First-principles investigation of phonon dynamics and electrochemical performance of TiO ₂ -x oxides lithium-ion batteries. <i>International Journal of Hydrogen Energy</i> , 2020 , 45, 6207-6216	6.7	55
75	Unique Cu@CuPt Core-Shell Concave Octahedron with Enhanced Methanol Oxidation Activity. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 36817-36827	9.5	52
74	Electron microscopy studies of the age-hardening behaviors in 6005A alloy and microstructural characterizations of precipitates. <i>Journal of Alloys and Compounds</i> , 2012 , 514, 220-233	5.7	48
73	Orientation and diffraction patterns of Ni ₂ Si precipitates in Cu ₈₀ Ni ₁₀ Si alloy. <i>Journal of Alloys and Compounds</i> , 2013 , 557, 147-151	5.7	47
72	Structure evolution and solid solubility extension of copper-bismuth powders during mechanical alloying. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2011 , 528, 4475-4481	5.3	46
71	Adjusting the correlation between the oxidation resistance and mechanical properties of Pt-based thermal barrier coating. <i>Vacuum</i> , 2020 , 172, 109067	3.7	46
70	Reduced graphene oxide and zirconium carbide co-modified melamine sponge/paraffin wax composites as new form-stable phase change materials for photothermal energy conversion and storage. <i>Applied Thermal Engineering</i> , 2019 , 163, 114412	5.8	45
69	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
68	Precipitation behavior of Cu-3.0Ni-0.72Si alloy. <i>Acta Materialia</i> , 2019 , 166, 261-270	8.4	40
67	High strength and large ductility in spray-deposited Al ₇₀ Zn ₂₀ Mg ₁₀ Cu alloys. <i>Journal of Alloys and Compounds</i> , 2014 , 601, 120-125	5.7	38
66	Co effects on Cu-Ni-Si alloys microstructure and physical properties. <i>Journal of Alloys and Compounds</i> , 2019 , 797, 1327-1337	5.7	37
65	Review of nano-phase effects in high strength and conductivity copper alloys. <i>Nanotechnology Reviews</i> , 2019 , 8, 383-395	6.3	29
64	Effect of Thermomechanical Processing on the Microstructure and Properties of a Cu-Fe-P Alloy. <i>Journal of Materials Engineering and Performance</i> , 2015 , 24, 1531-1539	1.6	26

63	Photothermal efficiency enhancement of a nanofluid-based direct absorption solar collector utilizing magnetic nano-rotor. <i>Energy Conversion and Management</i> , 2019 , 199, 111996	10.6	24
62	Effect of Ti addition on microstructure evolution and precipitation in Cu _{0.5} CoSi alloy during hot deformation. <i>Journal of Alloys and Compounds</i> , 2020 , 821, 153518	5.7	24
61	Synthesis of Cu ₂ O Nanotubes with Efficient Photocatalytic Activity by Electrochemical Corrosion Method. <i>Journal of Physical Chemistry C</i> , 2015 , 119, 22066-22071	3.8	23
60	Effects of Cr addition on the constitutive equation and precipitated phases of copper alloy during hot deformation. <i>Materials and Design</i> , 2020 , 191, 108613	8.1	23
59	Evolution of deformation microstructures of cold-rolled Ta _{0.5} W alloy with coarse grains at low to medium strains. <i>International Journal of Refractory Metals and Hard Materials</i> , 2016 , 54, 104-115	4.1	19
58	Sn accommodation in tunable-void and porous graphene bumper for high-performance Li- and Na-ion storage. <i>Journal of Alloys and Compounds</i> , 2019 , 790, 1043-1050	5.7	18
57	Effect of Ce addition on microstructure evolution and precipitation in Cu-Co-Si-Ti alloy during hot deformation. <i>Journal of Alloys and Compounds</i> , 2020 , 842, 155666	5.7	18
56	A review of microstructure and texture evolution with nanoscale precipitates for copper alloys. <i>Journal of Materials Research and Technology</i> , 2020 , 9, 11918-11934	5.5	18
55	Effect of AlY gradient coating on hot corrosion resistance of TiAl alloy at different temperatures. <i>Applied Surface Science</i> , 2019 , 487, 868-875	6.7	17
54	Studies of Orientations of θ Precipitates in Al-Mg-Si-(Cu) Alloys by Electron Diffraction and Transition Matrix Analysis. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2011 , 42, 2917-2929	2.3	17
53	EBSA analysis of hot deformation behavior of Cu-Ni-Co-Si-Cr alloy. <i>Materials Characterization</i> , 2020 , 169, 110656	3.9	16
52	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
51	Diffraction analysis of θ Fe precipitates in a polycrystalline CuBe alloy. <i>Materials Characterization</i> , 2015 , 105, 129-135	3.9	15
50	Microstructure and Properties of a Hot Rolled-Quenched Cu-Cr-Zr-Mg-Si Alloy. <i>Journal of Materials Engineering and Performance</i> , 2012 , 21, 1800-1805	1.6	15
49	Enhanced photothermal conversion properties of magnetic nanofluids through rotating magnetic field for direct absorption solar collector. <i>Journal of Colloid and Interface Science</i> , 2019 , 557, 266-275	9.3	14
48	Facet-Dependent Interfacial Charge Transfer in TiO ₂ /Nitrogen-Doped Graphene Quantum Dots Heterojunctions for Visible-Light Driven Photocatalysis. <i>Catalysts</i> , 2019 , 9, 345	4	14
47	Thermal deformation behavior of the Al ₂ O ₃ -Cu/(W, Cr) electrical contacts. <i>Vacuum</i> , 2019 , 164, 361-366	3.7	14
46	Orientation dependence of the dislocation microstructure in compressed body-centered cubic molybdenum. <i>Materials Characterization</i> , 2014 , 91, 10-18	3.9	13

45	Cr effects on the electrical contact properties of the Al ₂ O ₃ -Cu/15W composites. <i>Nanotechnology Reviews</i> , 2019 , 8, 128-135	6.3	13
44	The microstructure and texture of Mo-Ta ₂ O ₃ alloys with high transverse ductility. <i>Journal of Alloys and Compounds</i> , 2014 , 589, 531-538	5.7	12
43	The evolution of cold-rolled deformation microstructure of {001}<110> grains in Ta-2.5wt%W alloy foils. <i>Journal of Alloys and Compounds</i> , 2012 , 513, 208-212	5.7	12
42	The orientation spreading in fiber of electron beam melted Ta-2.5W alloy during cold rolling. <i>Journal of Alloys and Compounds</i> , 2017 , 699, 57-67	5.7	11
41	First-principles study of structure and mechanical properties of TMB ₁₂ (TM = W and Ti) superhard material under pressure. <i>Journal of Materials Research</i> , 2019 , 34, 3554-3562	2.5	11
40	Synthesis of Marks-Decahedral Pd Nanoparticles in Aqueous Solutions. <i>Particle and Particle Systems Characterization</i> , 2014 , 31, 851-856	3.1	11
39	Graphene oxide effects on the properties of Al ₂ O ₃ -Cu/35W5Cr composite. <i>Journal of Materials Science and Technology</i> , 2020 , 37, 185-199	9.1	11
38	Microstructure evolution of Cu-1.0Co-0.65Si-0.1Ti alloy during hot deformation. <i>Vacuum</i> , 2020 , 177, 109376	3.76	10
37	Microstructure, Mechanical Properties, and Texture Evolution of Aluminum Alloy 7005 by Accumulative Roll Bonding. <i>Journal of Materials Engineering and Performance</i> , 2016 , 25, 1199-1210	1.6	10
36	Effect of addition of Ni and Si on the microstructure and mechanical properties of Cu-Zn alloys. <i>Journal of Materials Research</i> , 2017 , 32, 3137-3145	2.5	9
35	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
34	The effect of texture and microstructure on the properties of Mo bars. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2014 , 601, 131-138	5.3	8
33	A twin orientation relationship between {001}<210> and {111}<110> obtained in Ta-2.5W alloy during heavily cold rolling. <i>Materials Characterization</i> , 2017 , 125, 108-113	3.9	7
32	Evolution of texture and deformation microstructure in Ta-2.5W alloy during cold rolling. <i>Journal of Materials Research</i> , 2015 , 30, 2792-2803	2.5	6
31	The evolution of dislocation microstructure in electron beam melted Ta-2.5W alloy during cold rolling. <i>International Journal of Refractory Metals and Hard Materials</i> , 2016 , 61, 136-146	4.1	6
30	Electrochemical performances of NiO/Ni ₂ N nanocomposite thin film as anode material for lithium ion batteries. <i>Frontiers of Materials Science</i> , 2019 , 13, 367-374	2.5	6
29	Properties and precipitates of the high strength and electrical conductivity Cu-Ni-Co-Si-Cr alloy. <i>Journal of Materials Science and Technology</i> , 2021 , 93, 1-6	9.1	6
28	A novel laminate combined with elasticity and damping. <i>Journal of Materials Processing Technology</i> , 2007 , 182, 1-5	5.3	5

27	The influence of high pressure on the structural stability, Vickers hardness and mechanical properties of Re and Ru dodecaborides. <i>International Journal of Quantum Chemistry</i> , 2020 , 120, e26130	2.1	5
26	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
25	Enhancing the Vickers hardness, melting point and thermodynamic properties of hafnium dodecaboride.. <i>RSC Advances</i> , 2019 , 9, 33625-33632	3.7	5
24	Excellent mechanical properties and high electrical conductivity of Cu-Co-Si-Ti alloy due to multiple strengthening. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2021 , 821, 141639	5.3	5
23	Effect of in situ graphene-doped nano-CeO ₂ on microstructure and electrical contact properties of Cu ₃₀ Cr ₁₀ W contacts. <i>Nanotechnology Reviews</i> , 2021 , 10, 385-400	6.3	5
22	The orientation dependence of hot deformation behaviors of Mo with elongated grains. <i>International Journal of Refractory Metals and Hard Materials</i> , 2013 , 41, 603-608	4.1	4
21	Microstructure and Properties of Cu-Cr Alloys Prepared by a Shortened Process and a Conventional Process. <i>Advanced Materials Research</i> , 2011 , 199-200, 1890-1895	0.5	4
20	Nanoscale precipitates evolution and strengthening mechanism of the aged Cu-Mg-Fe-Sn-P-Y electrical contact wire. <i>Journal of Materials Research and Technology</i> , 2020 , 9, 6352-6359	5.5	3
19	Large Marks-decahedral Pd nanoparticles synthesized by a modified hydrothermal method using a homogeneous reactor. <i>Journal of Nanoparticle Research</i> , 2017 , 19, 1	2.3	3
18	Preparation and properties of graphene reinforced Cu/0.5CeO ₂ /30Cr electrical contact materials. <i>Vacuum</i> , 2021 , 110687	3.7	3
17	Microstructure evolution of graphene reinforced Cu/CeO ₂ /Cr electrical contact materials under thermal deformation behavior. <i>Journal of Materials Research and Technology</i> , 2022 , 18, 1412-1423	5.5	3
16	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
15	The evolution of deformation microstructure in electron beam melted Ta-2.5W alloy during cold rolling. <i>Fusion Engineering and Design</i> , 2017 , 125, 510-514	1.7	2
14	Effect of Y addition on microstructure evolution and precipitation of Cu-Co-Si alloy during hot deformation. <i>Materials Characterization</i> , 2021 , 181, 111502	3.9	2
13	Microstructure Evolution in Cu-Ni-Co-Si-Cr Alloy During Hot Compression by Ce Addition. <i>Materials</i> , 2020 , 13,	3.5	2
12	Facile fabrication of versatile superhydrophobic coating for efficient oil/water separation. <i>Journal of Dispersion Science and Technology</i> , 2021 , 42, 363-372	1.5	2
11	Influence of Zinc on Coarsening of Ni 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
10	The Banded Structure and Its Effects on the Transverse Elongation and Textures of Mo Bars. <i>Advanced Engineering Materials</i> , 2014 , 16, 1119-1126	3.5	1

9	Transmission electron microscopy study of multilayer p-n hetero-junction La _{0.9} Sr _{0.1} MnO ₃ /SrNb _{0.05} Ti _{0.95} O ₃ thin films. <i>Thin Solid Films</i> , 2011 , 519, 2079-2082	2.2	1
8	Thermal deformation behavior of GO/CeO ₂ in-situ reinforced Cu ₃₀ Cr ₁₀ W electrical contact material. <i>Journal of Alloys and Compounds</i> , 2022 , 899, 163266	5.7	1
7	Defect dipoles inducing the larger piezoelectric properties in BaBi ₄ Ti ₄ (Cu _{0.5} W _{0.5}) _x O ₁₅ ceramics. <i>Journal of Materials Science: Materials in Electronics</i> , 2020 , 31, 15258-15266	2.1	1
6	Effect of annealing on microstructure and properties of Pt wires used for standard Pt resistance thermometer. <i>Materials Characterization</i> , 2020 , 165, 110388	3.9	0
5	The Evolution of Defects in Deformed Cu-Ni-Si Alloys during Isochronal Annealing Studied by Positron Annihilation. <i>Chinese Physics Letters</i> , 2012 , 29, 127803	1.8	0
4	Microstructure and hot deformation behavior of the Cu-1Ni-0.9Sn-0.5Ti-0.3Cr alloy. <i>Materials Today Communications</i> , 2022 , 103771	2.5	0
3	Ordered structures in Al-3Cu-(1.78Mg) alloys aged at 190 °C for 2 minutes. <i>Metals and Materials International</i> , 2016 , 22, 642-648	2.4	
2	The reciprocal relationship of orientation dependence of the dislocation boundaries in body-centered cubic metals and face-centered cubic metals. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2014 , 619, 107-111	5.3	
1	Thermal stability of marks gold nanoparticles: A molecular dynamics simulation. <i>International Journal of Modern Physics B</i> , 2017 , 31, 1741001	1.1	