

# Yanlin Jia

## 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.

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	Thermal deformation behavior of GO/CeO <sub>2</sub> in-situ reinforced Cu <sub>30</sub> Cr <sub>10</sub> W electrical contact material. <i>Journal of Alloys and Compounds</i> , <b>2022</b> , 899, 163266	5.7	1
79	Microstructure evolution of graphene reinforced Cu/CeO <sub>2</sub> /Cr electrical contact materials under thermal deformation behavior. <i>Journal of Materials Research and Technology</i> , <b>2022</b> , 18, 1412-1423	5.5	3
78	Microstructure and hot deformation behavior of the Cu-1Ni-0.9Sn-0.5Ti-0.3Cr alloy. <i>Materials Today Communications</i> , <b>2022</b> , 103771	2.5	0
77	Preparation and properties of graphene reinforced Cu/0.5CeO <sub>2</sub> 30Cr electrical contact materials. <i>Vacuum</i> , <b>2021</b> , 110687	3.7	3
76	Effect of Y addition on microstructure evolution and precipitation of Cu-Co-Si alloy during hot deformation. <i>Materials Characterization</i> , <b>2021</b> , 181, 111502	3.9	2
75	Facile fabrication of versatile superhydrophobic coating for efficient oil/water separation. <i>Journal of Dispersion Science and Technology</i> , <b>2021</b> , 42, 363-372	1.5	2
74	Excellent mechanical properties and high electrical conductivity of Cu-Co-Si-Ti alloy due to multiple strengthening. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2021</b> , 821, 141639	5.3	5
73	Properties and precipitates of the high strength and electrical conductivity Cu-Ni-Co-Si-Cr alloy. <i>Journal of Materials Science and Technology</i> , <b>2021</b> , 93, 1-6	9.1	6
72	Effect of in situ graphene-doped nano-CeO <sub>2</sub> on microstructure and electrical contact properties of Cu <sub>30</sub> Cr <sub>10</sub> W contacts. <i>Nanotechnology Reviews</i> , <b>2021</b> , 10, 385-400	6.3	5
71	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> , <b>2020</b> , 842, 155666	5.7	18
70	Effect of annealing on microstructure and properties of Pt wires used for standard Pt resistance thermometer. <i>Materials Characterization</i> , <b>2020</b> , 165, 110388	3.9	0
69	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> , <b>2020</b> , 9, 6352-6359	5.5	3
68	Microstructure evolution of Cu-1.0Co-0.65Si-0.1Ti alloy during hot deformation. <i>Vacuum</i> , <b>2020</b> , 177, 109376	3.76	10
67	Microstructure, and Physical and Mechanical Properties of Copper Graphite Composites Obtained by In Situ Reaction Method. <i>Journal of Materials Engineering and Performance</i> , <b>2020</b> , 29, 1696-1705	1.6	2
66	Effects of Cr addition on the constitutive equation and precipitated phases of copper alloy during hot deformation. <i>Materials and Design</i> , <b>2020</b> , 191, 108613	8.1	23
65	First-principles investigation of phonon dynamics and electrochemical performance of TiO <sub>2</sub> -x oxides lithium-ion batteries. <i>International Journal of Hydrogen Energy</i> , <b>2020</b> , 45, 6207-6216	6.7	55
64	Effect of Ti addition on microstructure evolution and precipitation in Cu <sub>30</sub> Co <sub>3</sub> Bi alloy during hot deformation. <i>Journal of Alloys and Compounds</i> , <b>2020</b> , 821, 153518	5.7	24

63	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> , <b>2020</b> , 120, e26130	2.1	5
62	Adjusting the correlation between the oxidation resistance and mechanical properties of Pt-based thermal barrier coating. <i>Vacuum</i> , <b>2020</b> , 172, 109067	3.7	46
61	A review of microstructure and texture evolution with nanoscale precipitates for copper alloys. <i>Journal of Materials Research and Technology</i> , <b>2020</b> , 9, 11918-11934	5.5	18
60	EBSDB analysis of hot deformation behavior of Cu-Ni-Co-Si-Cr alloy. <i>Materials Characterization</i> , <b>2020</b> , 169, 110656	3.9	16
59	Microstructure Evolution in Cu-Ni-Co-Si-Cr Alloy During Hot Compression by Ce Addition. <i>Materials</i> , <b>2020</b> , 13,	3.5	2
58	Defect dipoles inducing the larger piezoelectric properties in BaBi <sub>4</sub> Ti <sub>4</sub> (Cu <sub>0.5</sub> W <sub>0.5</sub> ) <sub>x</sub> O <sub>15</sub> ceramics. <i>Journal of Materials Science: Materials in Electronics</i> , <b>2020</b> , 31, 15258-15266	2.1	1
57	Graphene oxide effects on the properties of Al <sub>2</sub> O <sub>3</sub> -Cu/35W5Cr composite. <i>Journal of Materials Science and Technology</i> , <b>2020</b> , 37, 185-199	9.1	11
56	Enhanced photothermal conversion properties of magnetic nanofluids through rotating magnetic field for direct absorption solar collector. <i>Journal of Colloid and Interface Science</i> , <b>2019</b> , 557, 266-275	9.3	14
55	First-principles study of structure and mechanical properties of TMB <sub>12</sub> (TM = W and Ti) superhard material under pressure. <i>Journal of Materials Research</i> , <b>2019</b> , 34, 3554-3562	2.5	11
54	Photothermal efficiency enhancement of a nanofluid-based direct absorption solar collector utilizing magnetic nano-rotor. <i>Energy Conversion and Management</i> , <b>2019</b> , 199, 111996	10.6	24
53	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> , <b>2019</b> , 163, 114412	5.8	45
52	Co effects on Cu-Ni-Si alloys microstructure and physical properties. <i>Journal of Alloys and Compounds</i> , <b>2019</b> , 797, 1327-1337	5.7	37
51	Effect of AlY gradient coating on hot corrosion resistance of TiAl alloy at different temperatures. <i>Applied Surface Science</i> , <b>2019</b> , 487, 868-875	6.7	17
50	Sn accommodation in tunable-void and porous graphene bumper for high-performance Li- and Na-ion storage. <i>Journal of Alloys and Compounds</i> , <b>2019</b> , 790, 1043-1050	5.7	18
49	Facet-Dependent Interfacial Charge Transfer in TiO <sub>2</sub> /Nitrogen-Doped Graphene Quantum Dots Heterojunctions for Visible-Light Driven Photocatalysis. <i>Catalysts</i> , <b>2019</b> , 9, 345	4	14
48	Thermal deformation behavior of the Al <sub>2</sub> O <sub>3</sub> -Cu/(W, Cr) electrical contacts. <i>Vacuum</i> , <b>2019</b> , 164, 361-366	3.7	14
47	Cr effects on the electrical contact properties of the Al <sub>2</sub> O <sub>3</sub> -Cu/15W composites. <i>Nanotechnology Reviews</i> , <b>2019</b> , 8, 128-135	6.3	13
46	Electrochemical performances of NiO/Ni <sub>2</sub> N nanocomposite thin film as anode material for lithium ion batteries. <i>Frontiers of Materials Science</i> , <b>2019</b> , 13, 367-374	2.5	6

45	Review of nano-phase effects in high strength and conductivity copper alloys. <i>Nanotechnology Reviews</i> , <b>2019</b> , 8, 383-395	6.3	29
44	Enhancing the Vickers hardness, melting point and thermodynamic properties of hafnium dodecaboride.. <i>RSC Advances</i> , <b>2019</b> , 9, 33625-33632	3.7	5
43	Precipitation behavior of Cu-3.0Ni-0.72Si alloy. <i>Acta Materialia</i> , <b>2019</b> , 166, 261-270	8.4	40
42	The orientation spreading in Fiber of electron beam melted Ta-2.5W alloy during cold rolling. <i>Journal of Alloys and Compounds</i> , <b>2017</b> , 699, 57-67	5.7	11
41	A twin orientation relationship between {001}<210> and {111}<110> obtained in Ta-2.5W alloy during heavily cold rolling. <i>Materials Characterization</i> , <b>2017</b> , 125, 108-113	3.9	7
40	Effect of addition of Ni and Si on the microstructure and mechanical properties of CuZn alloys. <i>Journal of Materials Research</i> , <b>2017</b> , 32, 3137-3145	2.5	9
39	Influence of Zinc on Coarsening of Ni <sub>2</sub> Si Particles, Aging Behavior and Hardness in a Cu-Ni-Si Alloy. <i>Journal of Materials Engineering and Performance</i> , <b>2017</b> , 26, 2459-2464	1.6	1
38	Unique Cu@CuPt Core-Shell Concave Octahedron with Enhanced Methanol Oxidation Activity. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2017</b> , 9, 36817-36827	9.5	52
37	The evolution of deformation microstructure in electron beam melted Ta-2.5W alloy during cold rolling. <i>Fusion Engineering and Design</i> , <b>2017</b> , 125, 510-514	1.7	2
36	Large Marks-decahedral Pd nanoparticles synthesized by a modified hydrothermal method using a homogeneous reactor. <i>Journal of Nanoparticle Research</i> , <b>2017</b> , 19, 1	2.3	3
35	Thermal stability of marks gold nanoparticles: A molecular dynamics simulation. <i>International Journal of Modern Physics B</i> , <b>2017</b> , 31, 1741001	1.1	
34	Evolution of deformation microstructures of cold-rolled Ta <sub>2</sub> .5W alloy with coarse grains at low to medium strains. <i>International Journal of Refractory Metals and Hard Materials</i> , <b>2016</b> , 54, 104-115	4.1	19
33	Ordered structures in Al-3Cu-(1.78Mg) alloys aged at 190 °C for 2 minutes. <i>Metals and Materials International</i> , <b>2016</b> , 22, 642-648	2.4	
32	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> , <b>2016</b> , 58, 125-136	4.1	9
31	Microstructure, Mechanical Properties, and Texture Evolution of Aluminum Alloy 7005 by Accumulative Roll Bonding. <i>Journal of Materials Engineering and Performance</i> , <b>2016</b> , 25, 1199-1210	1.6	10
30	A Novel Cu-10Zn-1.5Ni-0.34Si Alloy with Excellent Mechanical Property Through Precipitation Hardening. <i>Journal of Materials Engineering and Performance</i> , <b>2016</b> , 25, 4624-4630	1.6	5
29	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> , <b>2016</b> , 61, 136-146	4.1	6
28	Microstructure and properties of Cu <sub>2</sub> .3Fe <sub>0</sub> .03P alloy during thermomechanical treatments. <i>Transactions of Nonferrous Metals Society of China</i> , <b>2015</b> , 25, 1551-1558	3.3	15

27	Diffraction analysis of $\delta$ Fe precipitates in a polycrystalline CuBe alloy. <i>Materials Characterization</i> , <b>2015</b> , 105, 129-135	3.9	15
26	Effect of Thermomechanical Processing on the Microstructure and Properties of a Cu-Fe-P Alloy. <i>Journal of Materials Engineering and Performance</i> , <b>2015</b> , 24, 1531-1539	1.6	26
25	Synthesis of Cu <sub>2</sub> O Nanotubes with Efficient Photocatalytic Activity by Electrochemical Corrosion Method. <i>Journal of Physical Chemistry C</i> , <b>2015</b> , 119, 22066-22071	3.8	23
24	Evolution of texture and deformation microstructure in Ta <sub>0.5</sub> W alloy during cold rolling. <i>Journal of Materials Research</i> , <b>2015</b> , 30, 2792-2803	2.5	6
23	The Banded Structure and Its Effects on the Transverse Elongation and Textures of Mo Bars. <i>Advanced Engineering Materials</i> , <b>2014</b> , 16, 1119-1126	3.5	1
22	The reciprocal relationship of orientation dependence of the dislocation boundaries in body-centered cubic metals and face-centered cubic metals. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2014</b> , 619, 107-111	5.3	
21	The effect of texture and microstructure on the properties of Mo bars. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2014</b> , 601, 131-138	5.3	8
20	Effects of Zr and (Ni, Si) additions on properties and microstructure of CuCr alloy. <i>Journal of Alloys and Compounds</i> , <b>2014</b> , 582, 786-792	5.7	80
19	The microstructure and texture of MoTa <sub>2</sub> O <sub>3</sub> alloys with high transverse ductility. <i>Journal of Alloys and Compounds</i> , <b>2014</b> , 589, 531-538	5.7	12
18	Synthesis of Marks-Decahedral Pd Nanoparticles in Aqueous Solutions. <i>Particle and Particle Systems Characterization</i> , <b>2014</b> , 31, 851-856	3.1	11
17	High strength and large ductility in spray-deposited AlZnMgCu alloys. <i>Journal of Alloys and Compounds</i> , <b>2014</b> , 601, 120-125	5.7	38
16	Orientation dependence of the dislocation microstructure in compressed body-centered cubic molybdenum. <i>Materials Characterization</i> , <b>2014</b> , 91, 10-18	3.9	13
15	Orientation and diffraction patterns of $\delta$ Ni <sub>2</sub> Si precipitates in CuNi <sub>3</sub> Si alloy. <i>Journal of Alloys and Compounds</i> , <b>2013</b> , 557, 147-151	5.7	47
14	Microstructure and tensile properties of large-size 7055 aluminum billets fabricated by spray forming rapid solidification technology. <i>Journal of Alloys and Compounds</i> , <b>2013</b> , 578, 208-214	5.7	42
13	The orientation dependence of hot deformation behaviors of Mo with elongated grains. <i>International Journal of Refractory Metals and Hard Materials</i> , <b>2013</b> , 41, 603-608	4.1	4
12	Study of deformation and aging behaviors of a hot rolledquenched CuCrZrMgBi alloy during thermomechanical treatments. <i>Materials &amp; Design</i> , <b>2012</b> , 39, 404-409		65
11	High strength and high electrical conductivity CuCr system alloys manufactured by hot rollingquenching process and thermomechanical treatments. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2012</b> , 538, 295-301	5.3	59
10	The evolution of cold-rolled deformation microstructure of {001}<110> grains in Ta <sub>0.5</sub> wt%W alloy foils. <i>Journal of Alloys and Compounds</i> , <b>2012</b> , 513, 208-212	5.7	12

9	Electron microscopy studies of the age-hardening behaviors in 6005A alloy and microstructural characterizations of precipitates. <i>Journal of Alloys and Compounds</i> , <b>2012</b> , 514, 220-233	5.7	48
8	Microstructure and Properties of a Hot Rolled-Quenched Cu-Cr-Zr-Mg-Si Alloy. <i>Journal of Materials Engineering and Performance</i> , <b>2012</b> , 21, 1800-1805	1.6	15
7	The Evolution of Defects in Deformed Cu-Ni-Si Alloys during Isochronal Annealing Studied by Positron Annihilation. <i>Chinese Physics Letters</i> , <b>2012</b> , 29, 127803	1.8	0
6	Studies of Orientations of $\eta$ 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> , <b>2011</b> , 42, 2917-2929	2.3	17
5	Structure evolution and solid solubility extension of copper-bismuth powders during mechanical alloying. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2011</b> , 528, 4475-4481	5.3	46
4	Transmission electron microscopy study of multilayer p-n hetero-junction La <sub>0.9</sub> Sr <sub>0.1</sub> MnO <sub>3</sub> /SrNb <sub>0.05</sub> Ti <sub>0.95</sub> O <sub>3</sub> thin films. <i>Thin Solid Films</i> , <b>2011</b> , 519, 2079-2082	2.2	1
3	Microstructure and Properties of Cu-Cr Alloys Prepared by a Shortened Process and a Conventional Process. <i>Advanced Materials Research</i> , <b>2011</b> , 199-200, 1890-1895	0.5	4
2	The evolution of microstructure in Cu <sub>80</sub> Ni <sub>10</sub> Si <sub>10</sub> Mg alloy during aging. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2010</b> , 527, 6728-6733	5.3	56
1	A novel laminate combined with elasticity and damping. <i>Journal of Materials Processing Technology</i> , <b>2007</b> , 182, 1-5	5.3	5