## Tong-Min Wang

List of Publications by Year in descending order

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217 papers

9,643 citations

44069 48 h-index 49909 87 g-index

224 all docs

224 docs citations

times ranked

224

5028 citing authors

#	Article	IF	CITATIONS
1	A Promising New Class of High-Temperature Alloys: Eutectic High-Entropy Alloys. Scientific Reports, 2014, 4, 6200.	3.3	998
2	Directly cast bulk eutectic and near-eutectic high entropy alloys with balanced strength and ductility in a wide temperature range. Acta Materialia, 2017, 124, 143-150.	7.9	747
3	Promising properties and future trend of eutectic high entropy alloys. Scripta Materialia, 2020, 187, 202-209.	5.2	308
4	A promising new class of irradiation tolerant materials: Ti2ZrHfV0.5Mo0.2 high-entropy alloy. Journal of Materials Science and Technology, 2019, 35, 369-373.	10.7	266
5	Effect of vanadium addition on the microstructure and properties of AlCoCrFeNi high entropy alloy. Materials & Design, 2014, 57, 67-72.	5.1	222
6	A new strategy to design eutectic high-entropy alloys using mixing enthalpy. Intermetallics, 2017, 91, 124-128.	3.9	203
7	A novel bulk eutectic high-entropy alloy with outstanding as-cast specific yield strengths at elevated temperatures. Scripta Materialia, 2021, 204, 114132.	5 <b>.</b> 2	192
8	Phase composition and solid solution strengthening effect in TiZrNbMoV high-entropy alloys. Materials and Design, 2015, 83, 651-660.	7.0	186
9	A regulatory gene induces trichome formation and embryo lethality in tomato. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 11836-11841.	7.1	181
10	Effect of Niobium on Microstructure and Properties of the CoCrFeNb x Ni High Entropy Alloys. Journal of Materials Science and Technology, 2017, 33, 712-717.	10.7	180
11	Record high thermoelectric performance in bulk SrTiO3 via nano-scale modulation doping. Nano Energy, 2017, 35, 387-395.	16.0	153
12	A multi-component AlCrFe2Ni2 alloy with excellent mechanical properties. Materials Letters, 2016, 169, 62-64.	2.6	150
13	Grain refinement of hypoeutectic Al-Si alloys with B. Acta Materialia, 2016, 120, 168-178.	7.9	141
14	A high strength and high electrical conductivity Cu-Cr-Zr alloy fabricated by cryorolling and intermediate aging treatment. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2017, 680, 108-114.	5 <b>.</b> 6	134
15	Microstructures and mechanical properties of Co2MoxNi2VWx eutectic high entropy alloys. Materials and Design, 2016, 109, 539-546.	7.0	132
16	Effects of Cr and Zr additions on microstructure and properties of Cu-Ni-Si alloys. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2016, 673, 378-390.	5.6	125
17	Effect of Eu addition on the microstructures and mechanical properties of A356 aluminum alloys. Journal of Alloys and Compounds, 2015, 650, 896-906.	5.5	106
18	Direct solidification of bulk ultrafine-microstructure eutectic high-entropy alloys with outstanding thermal stability. Scripta Materialia, 2019, 165, 145-149.	5.2	104

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19	Effects of Nb addition on structural evolution and properties of the CoFeNi2V0.5 high-entropy alloy. Applied Physics A: Materials Science and Processing, 2015, 119, 291-297.	2.3	93
20	The role of nickel in mechanical performance and corrosion behaviour of nickel-aluminium bronze in 3.5â€wt.% NaCl solution. Corrosion Science, 2018, 139, 333-345.	6.6	90
21	Development of TiB2 reinforced aluminum foundry alloy based in situ composites – Part II: Enhancing the practical aluminum foundry alloys using the improved Al–5 wt%TiB2 master composite upon dilution. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2014, 605, 22-32.	<b>5.</b> 6	87
22	In-situ observation of grain refinement dynamics of hypoeutectic Al-Si alloy inoculated by Al-Ti-Nb-B alloy. Scripta Materialia, 2020, 187, 142-147.	5.2	82
23	Development of TiB2 reinforced aluminum foundry alloy based in situ composites – Part I: An improved halide salt route to fabricate Al–5 wt%TiB2 master composite. Materials Science & Degree & Structural Materials: Properties, Microstructure and Processing, 2014, 605, 301-309.	5.6	78
24	A Criterion for Topological Close-Packed Phase Formation in High Entropy Alloys. Entropy, 2015, 17, 2355-2366.	2.2	77
25	Grain refining potency of Al–B master alloy on pure aluminum. Scripta Materialia, 2011, 64, 1121-1124.	5.2	76
26	Phase Evolution and Properties of Al2CrFeNiMo x High-Entropy Alloys Coatings by Laser Cladding. Journal of Thermal Spray Technology, 2015, 24, 1333-1340.	3.1	76
27	Evolution of dendrite morphology of a binary alloy under an applied electric current: An <i>in situ</i> observation. Physical Review E, 2010, 81, 042601.	2.1	75
28	Hydrometallurgical purification of metallurgical grade silicon. Rare Metals, 2009, 28, 221-225.	7.1	68
29	A novel fading-resistant Al–3Ti–3B grain refiner for Al–Si alloys. Journal of Alloys and Compounds, 2012, 511, 45-49.	5.5	68
30	Effects of annealing treatment on microstructure and hardness of bulk AlCrFeNiMo0.2 eutectic high-entropy alloy. Materials and Design, 2015, 82, 91-97.	7.0	66
31	Effect of La addition on the particle characteristics, mechanical and electrical properties of in situ Cu-TiB2 composites. Journal of Alloys and Compounds, 2016, 687, 312-319.	5 <b>.</b> 5	66
32	In situ synthesis of TiB2 particulate reinforced copper matrix composite with a rotating magnetic field. Materials & Design, 2015, 65, 280-288.	5.1	65
33	Microwave absorption performance of FeCoNiAlCr0.9 alloy powders by adjusting the amount of process control agent. Journal of Materials Science and Technology, 2021, 77, 209-216.	10.7	64
34	Effects of Sr on the microstructure and mechanical properties of in situ TiB2 reinforced A356 composite. Materials & Design, 2014, 64, 185-193.	5.1	61
35	Improving electromagnetic properties of FeCoNiSi0.4Al0.4 high entropy alloy powders via their tunable aspect ratio and elemental uniformity. Materials and Design, 2018, 149, 173-183.	7.0	61
36	A novel ZrNbMoTaW refractory high-entropy alloy with in-situ forming heterogeneous structure. Materials Science & Description A: Structural Materials: Properties, Microstructure and Processing, 2021, 827, 142061.	5 <b>.</b> 6	59

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37	Mechanical Properties Improvement of AlCrFeNi2Ti0.5 High Entropy Alloy through Annealing Design and its Relationship with its Particle-reinforced Microstructures. Journal of Materials Science and Technology, 2015, 31, 397-402.	10.7	58
38	Study on diffusion behavior and microstructural evolution of Al/Cu bimetal interface by synchrotron X-ray radiography. Journal of Alloys and Compounds, 2014, 616, 550-555.	<b>5.</b> 5	57
39	Optimization of the balance between high strength and high electrical conductivity in CuCrZr alloys through two-step cryorolling and aging. Journal of Alloys and Compounds, 2019, 771, 1044-1051.	5.5	57
40	Ductile and ultrahigh-strength eutectic high-entropy alloys by large-volume 3D printing. Journal of Materials Science and Technology, 2022, 126, 15-21.	10.7	57
41	Effect of V addition on microstructures and mechanical properties of Cu-15Ni-8Sn alloy. Materials Science & Science & Properties, Microstructure and Processing, 2019, 748, 85-94.	5.6	56
42	First-principles calculations of graphene-based polyaniline nano-hybrids for insight of electromagnetic properties and electronic structures. RSC Advances, 2016, 6, 73915-73923.	3.6	54
43	Microstructure and tribological properties of AlCrFe2Ni2W0.2Mo0.75 high-entropy alloy coating prepared by laser cladding in seawater, NaCl solution and deionized water. Surface and Coatings Technology, 2020, 400, 126214.	4.8	54
44	Enhancement of magnetic properties in FeCoNiCr0.4CuX high entropy alloys through the cocktail effect for megahertz electromagnetic wave absorption. Journal of Alloys and Compounds, 2021, 872, 159602.	5 <b>.</b> 5	54
45	Effects of Nb addition on the microstructures and mechanical properties of a precipitation hardening Cu-9Ni-6Sn alloy. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2018, 715, 340-347.	5.6	53
46	Constructing three-dimensional reticulated carbonyl iron/carbon foam composites to achieve temperature-stable broadband microwave absorption performance. Carbon, 2022, 188, 376-384.	10.3	52
47	The microstructure and property of Al–Si alloy and Al–Mn alloy bimetal prepared by continuous casting. Materials Letters, 2012, 67, 21-23.	2.6	51
48	Preparing bulk ultrafine-microstructure high-entropy alloys <i>via</i> direct solidification. Nanoscale, 2018, 10, 1912-1919.	5.6	51
49	A promising structure for fabricating high strength and high electrical conductivity copper alloys. Scientific Reports, 2016, 6, 20799.	3.3	50
50	Effect of direct current pulses on mechanical and electrical properties of aged Cu–Cr–Zr alloys. Materials and Design, 2016, 92, 135-142.	7.0	48
51	Not all folds and thrusts in the Yangtze foreland thrust belt are related to the Dabie Orogen: Insights from Mesozoic deformation south of the Yangtze River. Geological Journal, 2010, 45, 650-663.	1.3	47
52	Study of enhanced dry sliding wear behavior and mechanical properties of Cu-TiB 2 composites fabricated by in situ casting process. Wear, 2017, 392-393, 118-125.	3.1	47
53	Distribution pattern and mass budget of sedimentary polycyclic aromatic hydrocarbons in shelf areas of the Eastern China Marginal Seas. Journal of Geophysical Research: Oceans, 2017, 122, 4990-5004.	2.6	47
54	Responses of hemocyanin and energy metabolism to acute nitrite stress in juveniles of the shrimp Litopenaeus vannamei. Ecotoxicology and Environmental Safety, 2019, 186, 109753.	6.0	47

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55	The roles of Hf element in optimizing strength, ductility and electrical conductivity of copper alloys. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2019, 758, 130-138.	5.6	47
56	Effect of minor B addition on microstructure and properties of AlCoCrFeNi multi-compenent alloy. Transactions of Nonferrous Metals Society of China, 2015, 25, 2958-2964.	4.2	46
57	Effects of Tungsten on Microstructure and Mechanical Properties of CrFeNiV0.5W x and CrFeNi2V0.5W x High-Entropy Alloys. Journal of Materials Engineering and Performance, 2015, 24, 4594-4600.	2.5	46
58	Microstructure, mechanical properties and wear behaviour of Zn–Al–Cu–TiB2 in situ composites. Transactions of Nonferrous Metals Society of China, 2015, 25, 103-111.	4.2	46
59	Improving the tensile ductility of metal matrix composites by laminated structure: A coupled X-ray tomography and digital image correlation study. Scripta Materialia, 2017, 135, 63-67.	5.2	46
60	Optimizing the electromagnetic properties of the FeCoNiAlCrx high entropy alloy powders by composition adjustment and annealing treatment. Journal of Magnetism and Magnetic Materials, 2020, 497, 165947.	2.3	45
61	Corrosion behavior of as-cast Mg–5Sn based alloys with In additions in 3.5†wt% NaCl solution. Corrosion Science, 2020, 164, 108318.	6.6	45
62	Grain refinement and tensile properties improvement of aluminum foundry alloys by inoculation with Alâ€"B master alloy. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2012, 553, 32-36.	5.6	44
63	Real time observation of equiaxed growth of Sn–Pb alloy under an applied direct current by synchrotron microradiography. Materials Letters, 2012, 89, 137-139.	2.6	41
64	Direct preparation of La-doped SrTiO3 thermoelectric materials by mechanical alloying with carbon burial sintering. Journal of the European Ceramic Society, 2018, 38, 807-811.	5.7	41
65	Correlation between microstructures and mechanical properties of cryorolled CuNiSi alloys with Cr and Zr alloying. Materials Characterization, 2018, 144, 532-546.	4.4	41
66	Effects of Co and Si additions and cryogenic rolling on structure and properties of Cu–Cr alloys. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2019, 740-741, 165-173.	5.6	41
67	Effect of Ti content on microstructure and properties of TixZrVNb refractory high-entropy alloys. International Journal of Minerals, Metallurgy and Materials, 2020, 27, 1318-1325.	4.9	41
68	First-principles calculations and high thermoelectric performance of La–Nb doped SrTiO <sub>3</sub> ceramics. Journal of Materials Chemistry A, 2019, 7, 236-247.	10.3	40
69	FeCoNiSi Al0.4 high entropy alloy powders with dual-phase microstructure: Improving microwave absorbing properties via controlling phase transition. Journal of Alloys and Compounds, 2019, 790, 179-188.	5.5	36
70	Effect of reinforcement content and aging treatment on microstructure and mechanical behavior of B4Cp/6061Al composites. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2019, 744, 682-690.	5.6	36
71	Grain refinement mechanism of pure aluminum by inoculation with Al–B master alloys. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2012, 549, 136-143.	5.6	35
72	A discrete structure: FeSiAl/carbon black composite absorption coatings. Materials Research Bulletin, 2017, 88, 41-48.	5.2	34

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73	CD51 correlates with the TGF-beta pathway and is a functional marker for colorectal cancer stem cells. Oncogene, 2017, 36, 1351-1363.	5.9	34
74	Surface modification for AlCoCrFeNi2.1 eutectic high-entropy alloy via laser remelting technology and subsequent aging heat treatment. Journal of Alloys and Compounds, 2022, 894, 162380.	<b>5.</b> 5	34
75	A new mechanism for improving electromagnetic properties based on tunable crystallographic structures of FeCoNiSi <sub>x</sub> Al <sub>0.4</sub> high entropy alloy powders. RSC Advances, 2018, 8, 14936-14946.	3.6	33
76	Enhanced antibacterial behavior of a novel Cu-bearing high-entropy alloy. Journal of Materials Science and Technology, 2022, 117, 158-166.	10.7	33
77	Preparation and properties of TiB 2 particles reinforced Cu–Cr matrix composite. Materials Science & 2015, 642, 398-405.	5.6	32
78	The bimodal effect of La on the microstructures and mechanical properties of in-situ A356–TiB2 composites. Materials and Design, 2015, 85, 724-732.	7.0	31
79	Microstructures and Wear Resistance of AlCrFeNi2W0.2Nbx High-Entropy Alloy Coatings Prepared by Laser Cladding. Journal of Thermal Spray Technology, 2019, 28, 1318-1329.	3.1	31
80	Microstructural characteristics and mechanical behavior of B4Cp/6061Al composites synthesized at different hot-pressing temperatures. Journal of Materials Science and Technology, 2019, 35, 1523-1531.	10.7	31
81	Deformation behavior and damage in B4Cp/6061Al composites: An actual 3D microstructure-based modeling. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2020, 781, 139169.	5.6	31
82	Enhancing mechanical properties and corrosion resistance of nickel-aluminum bronze via hot rolling process. Journal of Materials Science and Technology, 2021, 61, 186-196.	10.7	31
83	Growth behavior of Cu6Sn5 in Sn–6.5 Cu solders under DC considering trace Al: In situ observation. Intermetallics, 2015, 58, 84-90.	3.9	30
84	Application of synchrotron radiation X-ray computed tomography to investigate the agglomerating behavior of TiB2 particles in aluminum. Journal of Alloys and Compounds, 2015, 622, 831-836.	5.5	29
85	Bio-Inspired Microwave Modulator for High-Temperature Electromagnetic Protection, Infrared Stealth and Operating Temperature Monitoring. Nano-Micro Letters, 2022, 14, 28.	27.0	29
86	Microstructure and mechanical properties of Mg–8Li–(0–3)Ce alloys. Journal of Materials Science, 2009, 44, 1237-1240.	3.7	28
87	Promoting defect formation and microwave loss properties in Î-MnO2 via Co doping: A first-principles study. Computational Materials Science, 2017, 138, 288-294.	3.0	28
88	Composition, Microstructure, Phase Constitution and Fundamental Physicochemical Properties of Low-Melting-Point Multi-Component Eutectic Alloys. Journal of Materials Science and Technology, 2017, 33, 131-154.	10.7	28
89	FeCoNiCuAl high entropy alloys microwave absorbing materials: Exploring the effects of different Cu contents and annealing temperatures on electromagnetic properties. Journal of Alloys and Compounds, 2020, 848, 156491.	5 <b>.</b> 5	28
90	Novel (CoFe2NiV0.5Mo0.2)100â^'xNbx Eutectic High-Entropy Alloys with Excellent Combination of Mechanical and Corrosion Properties. Acta Metallurgica Sinica (English Letters), 2020, 33, 1046-1056.	2.9	28

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91	The role of Ga in the microstructure, corrosion behavior and mechanical properties of as-extruded Mg–5Sn–xGa alloys. Journal of Alloys and Compounds, 2021, 863, 158762.	5.5	27
92	FeCoNiCr <sub>0.4</sub> Cu <sub><i>X</i></sub> High-Entropy Alloys with Strong Intergranular Magnetic Coupling for Stable Megahertz Electromagnetic Absorption in a Wide Temperature Spectrum. ACS Applied Materials & Diverge 14, 7012-7021.	8.0	27
93	Influence of cold deformation and Ti element on the microstructure and properties of Cu–Cr system alloys. Journal of Materials Research, 2015, 30, 2073-2080.	2.6	26
94	Optimizing the thermoelectric transport properties of BiCuSeO via doping with the rare-earth variable-valence element Yb. Journal of Materials Chemistry C, 2018, 6, 8479-8487.	5.5	26
95	The influence of Sc addition on microstructure and tensile mechanical properties of Mg–4.5Sn–5Zn alloys. Journal of Magnesium and Alloys, 2019, 7, 456-465.	11.9	26
96	Effect of Sc and Y addition on the microstructure and properties of HCP-structured high-entropy alloys. Applied Physics A: Materials Science and Processing, 2019, 125, 1.	2.3	26
97	Tungsten-containing high-entropy alloys: a focused review of manufacturing routes, phase selection, mechanical properties, and irradiation resistance properties. Tungsten, 2021, 3, 181-196.	4.8	26
98	Anomalous microstructure and tribological evaluation of AlCrFeNiW0.2Ti0.5 high-entropy alloy coating manufactured by laser cladding in seawater. Journal of Materials Science and Technology, 2021, 85, 224-234.	10.7	26
99	Microstructure Design of High-Entropy Alloys Through a Multistage Mechanical Alloying Strategy for Temperature-Stable Megahertz Electromagnetic Absorption. Nano-Micro Letters, 2022, 14, .	27.0	26
100	Surface modification of ultra high modulus polyethylene fibers by an atmospheric pressure plasma jet. Journal of Applied Polymer Science, 2008, 108, 25-33.	2.6	25
101	Effect of Sn addition on the separation and purification of primary Si from solidification of Al-30Si melt under electromagnetic stirring. Journal of Alloys and Compounds, 2017, 725, 1264-1271.	5.5	25
102	Enhanced Thermoelectric Performance of Zr <sub>1–<i>x</i></sub> Ta <sub><i>x</i></sub> NiSn Half-Heusler Alloys by Diagonal-Rule Doping. ACS Applied Materials & Diagonal	8.0	25
103	Identification of the Intrinsic Atomic Disorder in ZrNiSn-based Alloys and Their Effects on Thermoelectric Properties. Nano Energy, 2020, 78, 105372.	16.0	24
104	Microstructure and enhanced mechanical properties of hybrid-sized B4C particle-reinforced 6061Al matrix composites. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2021, 802, 140453.	5.6	24
105	Electrochemical corrosion mechanisms of nickel-aluminium bronze with different nickel contents using the rotating disc electrode. Corrosion Science, 2019, 157, 438-449.	6.6	23
106	Activation energy of self-heating process Studied by DSC. Magyar Apróvad Közlemények, 2002, 70, 507-519.	1.4	22
107	Development of an 8090/3003 bimetal slab using a modified direct-chill casting process. Journal of Materials Processing Technology, 2014, 214, 1806-1811.	6.3	22
108	Combining effects of TiB2 and La on the aging behavior of A356 alloy. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2015, 644, 425-430.	5.6	22

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109	Nestin regulates proliferation and invasion of gastrointestinal stromal tumor cells by altering mitochondrial dynamics. Oncogene, 2016, 35, 3139-3150.	5.9	22
110	Effect of La addition on microstructures and properties of TiB2(-TiB)/Cu hybrid composites prepared by in situ reaction. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2020, 789, 139605.	5.6	22
111	Effects of Ta Addition on the Microstructure and Mechanical Properties of CoCu0.5FeNi High-Entropy Alloy. Journal of Materials Engineering and Performance, 2019, 28, 7642-7648.	2.5	21
112	Effect of two-step cryorolling and aging on mechanical and electrical properties of a Cu–Cr–Ni–Si alloy for lead frames applications. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2021, 809, 140521.	5.6	21
113	Morphology-controlled synthesis and microwave absorption properties of $\hat{l}^2$ -MnO 2 microncube with rectangular pyramid. Materials Characterization, 2016, 112, 206-212.	4.4	20
114	Microstructures, mechanical properties, and aging behavior of hybrid-sized TiB2 particulate-reinforced 2219 aluminum matrix composites. Materials Science & Digineering A: Structural Materials: Properties, Microstructure and Processing, 2022, 829, 142180.	5.6	20
115	Ultrasound-assisted dispersion of TiB2 nanoparticles in 7075 matrix hybrid composites. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2022, 840, 142958.	5.6	20
116	Real-Time Observation on Evolution of Droplets Morphology Affected by Electric Current Pulse in Al-Bi Immiscible Alloy. Journal of Materials Engineering and Performance, 2013, 22, 1319-1323.	2.5	19
117	Real time investigation of the grain refinement dynamics in zinc alloy by synchrotron microradiography. Journal of Alloys and Compounds, 2015, 630, 60-67.	5.5	19
118	Effect of traveling magnetic field on solute distribution and dendritic growth in unidirectionally solidifying Sn–50 wt%Pb alloy: An in situ observation. Journal of Crystal Growth, 2016, 450, 91-95.	1.5	19
119	Heterogeneous nucleation of Al on AlB 2 in Al-7Si alloy. Materials Characterization, 2017, 128, 7-13.	4.4	19
120	A nano-micro dual-scale particulate-reinforced copper matrix composite with high strength, high electrical conductivity and superior wear resistance. RSC Advances, 2018, 8, 30777-30782.	3.6	19
121	Enhanced strength-ductility synergy in a boron carbide reinforced aluminum matrix composite at 77ÂK. Journal of Alloys and Compounds, 2020, 818, 153310.	5.5	19
122	Effects of stress states and strain rates on mechanical behavior and texture evolution of the CoCrFeNi high-entropy alloy: Experiment and simulation. Journal of Alloys and Compounds, 2021, 851, 156779.	5.5	19
123	Faceted–nonfaceted growth transition and 3-D morphological evolution of primary Al <sub>6</sub> Mn microcrystals in directionally solidified Al–3 at.% Mn alloy. Journal of Materials Research, 2014, 29, 1256-1263.	2.6	18
124	Effect of strontium addition on silicon phase and mechanical properties of Zn–27Al–3Si alloy. Journal of Alloys and Compounds, 2015, 622, 871-879.	5.5	17
125	Broadband superior electromagnetic absorption of a discrete-structure microwave coating. Journal of Magnetism and Magnetic Materials, 2016, 416, 155-163.	2.3	17
126	In situ observation on the solidification of Sn-10Cu hyperperitectic alloy under direct current field by synchrotron microradiography. Journal of Alloys and Compounds, 2017, 721, 126-133.	5.5	17

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127	Microstructure and texture evolution in the cryorolled CuZr alloy. Journal of Alloys and Compounds, 2017, 693, 592-600.	5.5	17
128	Effect of B <sub>4</sub> C particle size on the mechanical properties of B <sub>4</sub> C reinforced aluminum matrix layered composite. Science and Engineering of Composite Materials, 2019, 26, 53-61.	1.4	17
129	Magnetic transformation of Mn from anti-ferromagnetism to ferromagnetism in FeCoNiZMn ( $Z = Si$ ,) Tj ETQq1 $\Sigma$	l 0.784314 10.7	rgBT /Overlo
130	Preparing bulk Cu-Ni-Mn based thermoelectric alloys and synergistically improving their thermoelectric and mechanical properties using nanotwins and nanoprecipitates. Materials Today Physics, 2021, 17, 100332.	6.0	17
131	FeCoNiMnAl high-entropy alloy: Improving electromagnetic wave absorption properties. Journal of Materials Research, 2021, 36, 2107-2117.	2.6	17
132	Grain refining performance of Al-B master alloys with different microstructures on Al-7Si alloy. Metals and Materials International, 2013, 19, 367-370.	3 <b>.</b> 4	16
133	In situ study on growth behavior of Cu6Sn5 during solidification with an applied DC in RE-doped Sn–Cu solder alloys. Journal of Materials Science: Materials in Electronics, 2014, 25, 4538-4546.	2.2	16
134	In situ synchrotron X-ray imaging on morphological evolution of dendrites in Sn–Bi hypoeutectic alloy under electric currents. Applied Physics A: Materials Science and Processing, 2014, 117, 1059-1066.	2.3	16
135	Horizontal continuous casting process under electromagnetic field for preparing AA3003/AA4045 clad composite hollow billets. Transactions of Nonferrous Metals Society of China, 2015, 25, 2675-2685.	4.2	16
136	Effect of rotating magnetic field on the microstructure and properties of Cu–Ag–Zr alloy. Materials Science & Science & and Processing, 2015, 624, 140-147.	5.6	16
137	Microstructure and mechanical properties of Ti3V2NbAl Ni low-density refractory multielement alloys. Intermetallics, 2021, 133, 107187.	3.9	16
138	In situ study on dendrite growth of metallic alloy by a synchrotron radiation imaging technology. Science China Technological Sciences, 2010, 53, 1278-1284.	4.0	14
139	Three dimensional microstructures and wear resistance of Al-Bi immiscible alloys with different grain refiners. Science China Technological Sciences, 2015, 58, 870-875.	4.0	14
140	Grain nucleation and growth behavior of a Sn-Pb alloy affected by direct current: An in situ investigation. Journal of Materials Science and Technology, 2017, 33, 1134-1140.	10.7	14
141	Microstructure evolution, electrical conductivity and mechanical properties of dual-scale Cu5Zr/ZrB2 particulate reinforced copper matrix composites. Materials Science & Diple Engineering A: Structural Materials: Properties, Microstructure and Processing, 2019, 762, 138108.	<b>5.</b> 6	14
142	Novel as-cast AlCrFe2Ni2Ti05 high-entropy alloy with excellent mechanical properties. International Journal of Minerals, Metallurgy and Materials, 2020, 27, 1312-1317.	4.9	14
143	Effect of different rare earths on microstructures and tensile strength of in situ hybrid reinforced (TiB2pÂ+ÂTiBw)/Cu composites. Materials Characterization, 2022, 184, 111624.	4.4	14
144	Microstructure and properties of TiB2 particles reinforced Cuâ€"Cr matrix composite. Journal of Materials Science, 2015, 50, 3320-3328.	3.7	13

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145	The interaction between Eu and P in high purity Al-7Si alloys. Materials Characterization, 2016, 120, 129-142.	4.4	13
146	Evaluation of promoting effect of a novel Cu-bearing metal stent on endothelialization process from in vitro and in vivo studies. Scientific Reports, 2017, 7, 17394.	3.3	13
147	A promising new class of plasticine: Metallic plasticine. Journal of Materials Science and Technology, 2018, 34, 344-348.	10.7	13
148	<i>In vitro</i> study of stimulation effect on endothelialization by a copper bearing cobalt alloy. Journal of Biomedical Materials Research - Part A, 2018, 106, 561-569.	4.0	13
149	Tuning magnetic properties based on FeCoNiSi0.4Al0.4 with dual-phase nano-crystal and nano-amorphous microstructure. Intermetallics, 2020, 117, 106678.	3.9	13
150	Enhanced thermoelectric performance of variable-valence element Sm-doped BiCuSeO oxyselenides. Materials Research Bulletin, 2020, 126, 110841.	5.2	13
151	Grouping strategy <i>via</i> d-orbit energy level to design eutectic high-entropy alloys. Applied Physics Letters, 2021, 119, .	3.3	13
152	Enhancement in thermoelectric properties of ZrNiSn-based alloys by Ta doping and Hf substitution. Acta Materialia, 2022, 233, 117976.	7.9	13
153	Real time observation on the solidification of strontium-modified zinc–aluminum–silicon alloys by synchrotron microradiography. Journal of Alloys and Compounds, 2014, 608, 343-351.	5.5	12
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