Tongmin Wang

List of Articles by Year
in descending order

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374 peer-reviewed articles	17,575 peer-reviewed citations	24772 59 peer-reviewed h-index	908259 3.20 score
390 documents	18188 doc citations	29075 61 h-index	18328 citing authors

#	Article	IF	Citations
1	Mechanical behavior of SiC reinforced ZA63 Mg matrix composites: Experiments and 3D finite element modelling. Journal of Magnesium and Alloys, 2025, 13, 1294-1309.	10.0	10
2	Achieving excellent mechanical properties in Mg-5Bi-3Al alloy via ultra-fine grain and high-density precipitates. Journal of Magnesium and Alloys, 2025, 13, 810-822.	10.0	14
3	The precipitation behavior of natural aging for Al-Cu-Li alloy after homogenization. Vacuum, 2025, 232, 113878.	3.1	7
4	Construction of nano-lamellar expressways and multidimensional defects to realize the decoupling of carrier–phonon transport in BiSbSe1.25Te1.75. Inorganic Chemistry Frontiers, 2025, 12, 1371-1382.	4.5	5
5	In Vitro Corrosion Behavior and Mechanical Property of Novel Mg–Sn–In–Ga Alloys for Orthopedic Applications. Acta Metallurgica Sinica (English Letters), 2025, 38, 353-366.	2.7	4
6	Synergistic improvement of corrosion-strength of Al-Mg alloy by trace Sc/Zr and TiB2 particles. Corrosion Science, 2025, 246, 112760.	7.2	11
7	Synergetic effects of trace Sc/Zr/TiB 2 on recrystallization and strengthening behavior of Al–Mg alloys. Rare Metals, 2025, 44, 3514-3530.	8.5	16
8	Modulating Electromagnetic Genes Through Bi-Phase High-Entropy Engineering Toward Temperature-Stable Ultra-Broadband Megahertz Electromagnetic Wave Absorption. Nano-Micro Letters, 2025, 17, .	26.3	56
9	Exceptional strength-ductility synergy in hyper-eutectic Al19Fe20Co20Ni37.5Mo3Ta0.5 high entropy alloy with heterogeneous structure. Journal of Alloys and Compounds, 2025, 1022, 179751.	4.9	8
10	Boosting the Thermoelectric Properties of Textured BiSbSe 3 via Versatile CuI Compositing. Chemistry of Materials, 2025, 37, 2629-2641.	4.6	6
11	Enhanced Thermoelectric and Mechanical Properties of ZrNiSn Half-Heusler Compounds by Excess Ag Doping at Ni Sites. Acta Metallurgica Sinica (English Letters), 2025, 38, 763-771.	2.7	3
12	The investigation of microstructure evolution and strength-ductility mechanism of Mg-5Bi-xAl alloys. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2025, 934, 148273.	5.4	9
13	Mechanical behavior of BCC-superalloys. Scripta Materialia, 2025, 267, 116748.	4.3	9
14	Achieving high strength via significantly enhanced precipitation strengthening in Mg-5Bi-3Al-xSn alloys. Journal of Alloys and Compounds, 2025, 1033, 181269.	4.9	7
15	Grain refinement and mechanical property enhancement of AM60B magnesium alloy via TiB2 particle regulation. Materials Today Communications, 2025, 47, 112999.	1.5	2
16	Tailoring Zr-vacancy induces superior thermoelectric performance of Hf-free ZrCoSb-based half-Heusler compounds. Nano Energy, 2025, 142, 111213.	11.9	14
17	New strategy to achieve synergistic strength-ductility optimization in Mg-Bi-Al alloy via Zn alloying. Journal of Alloys and Compounds, 2025, 1036, 181868.	4.9	0
18	Direct elimination of Fe-oxides assists the preparation of Cu/1010 steel bimetal laminated composites with oxides-free interface. Materials Characterization, 2025, 228, 115386.	4.2	2

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19	Effect of Nb content on microstructure and tribological properties of AlCrMoNbxNi high-entropy alloy coatings. Surface and Coatings Technology, 2025, 513, 132477.	4.8	7
20	Constructing harmonic grain distribution in graphene-reinforced Cu matrix composites for enhanced strength and electrical conductivity. Composites Part A: Applied Science and Manufacturing, 2025, 199, 109200.	6.0	8
21	Effect of mix-rolling process on microstructure and mechanical properties of Mg-14Li-3Al alloy. Materials Characterization, 2025, 228, 115418.	4.2	3
22	A novel strategy of dual in-situ synthesis for graphene/Cu composites with high strength and high electrical conductivity. Carbon, 2025, 244, 120645.	8.6	6
23	Superhydrophobic and corrosion-resistant coating on magnesium-lithium alloys. Journal of the Taiwan Institute of Chemical Engineers, 2025, 176, 106319.	5.1	10
24	Microstructure evolution and strengthening behavior of hybrid rolled Mg-8Li-5Al Alloy. Journal of Alloys and Compounds, 2025, 1039, 182914.	4.9	2
25	Maximizing the scattering of multiwavelength phonons in novel biphasic high-entropy ZrCoSb-based half-Heusler alloys. Journal of Materiomics, 2024, 10, 45-56.	6.6	17
26	ZrNiSn-based compounds with high thermoelectric performance and ultralow lattice thermal conductivity via introduction of multiscale scattering centers. Journal of Materiomics, 2024, 10, 200-209.	6.6	16
27	Thermoelectric properties of half-Heusler alloys. International Materials Reviews, 2024, 69, 83-106.	11.1	49
28	Agglomerating behavior of in-situ TiB2 particles and strength-ductility synergetic improvement of in-situ TiB2p/7075Al composites through ultrasound vibration. Materials Characterization, 2024, 208, 113652.	4.2	20
29	The role of TiB2 nanoparticles in reducing the microstructural sensitivity of as-cast Al-Mg-Mn alloy to cooling rate. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2024, 894, 146157.	5.4	19
30	Achieving optimal infiltration behavior of carbon fiber/Al-2219 composites by chemical modification of carbon fiber. Results in Engineering, 2024, 21, 101843.	5.8	7
31	Cavitation-induced particle engulfment via enhancing particle-interface interaction in solidification. Ultrasonics Sonochemistry, 2024, 103, 106801.	7.0	9
32	Improving the corrosion resistance of 7055 alloy by manipulating passivation film through trace addition of TiB2 nanoparticles. Applied Surface Science, 2024, 656, 159722.	5.1	22
33	Tailoring the Microstructure and Mechanical Property of Mg-Zn Matrix Composite via the Addition of Al Element. Acta Metallurgica Sinica (English Letters), 2024, 37, 438-452.	2.7	3
34	Development of magnesium alloys: Advanced characterization using synchrotron radiation techniques. Journal of Materials Science and Technology, 2024, 195, 93-110.	12.3	25
35	Substitutional and interstitial atoms co-doping overcomes the strength–ductility trade-off in lightweight refractory medium-entropy alloys. Materials Characterization, 2024, 210, 113844.	4.2	12
36	Strengthening of duplex Mg–9Li–3Al–2Zn–1Sn alloy by solid solution and mixed rolling-induced second phase transition. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2024, 900, 146491.	5.4	13

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37	Effect of ultrasonic vibration treatment on microstructure evolution and mechanical properties of Cu-TiB2 composites. Materials Characterization, 2024, 211, 113912.	4.2	14
38	Microstructure Evolution and Mechanical Properties at Ambient and Elevated Temperatures of in-situ TiB2/2219Al Matrix Composites During Cold Rolling. Metals and Materials International, 2024, 30, 2791-2807.	2.5	6
39	Microstructure and texture evolution of Cu–Cr–Co–Ti alloys during the two-stage cryorolling. Rare Metals, 2024, 43, 4535-4547.	8.5	12
40	Achieving Superior Strength–Ductility–Conductivity Combination in TiB2p/6201 Composites via Particle Rotation and Subgrain Refinement. Advanced Engineering Materials, 2024, 26, .	2.2	1
41	The investigation of strength-ductility mechanism of bimodal size SiCp/Mg–Zn matrix composite. Ceramics International, 2024, 50, 32383-32397.	4.3	12
42	Achieving n- and p-type thermoelectric materials with the identical chemical composition BiSbTe1.5Se1.5 by defect structure engineering. Chemical Engineering Journal, 2024, 494, 152954.	8.6	21
43	Synergistic optimization of the thermoelectric performance of BiSbSe3 using doping and multi-scale defect engineering. Journal of Materials Chemistry A, 2024, 12, 18104-18116.	6.7	10
44	Microstructure and mechanical properties of Cu–Cr–Zr–ZrB2 composites by novel fabrication process of ultrasonic vibration treatment. Journal of Materials Research and Technology, 2024, 31, 1461-1471.	4.9	11
45	Effects of Reinforcement Content and Homogenization Treatment on the Microstructure and Mechanical Properties of in-situ TiB2/2219Al Composites. Acta Metallurgica Sinica (English Letters), 2024, 37, 1421-1437.	2.7	10
46	Simultaneous Optimization of Electrical and Thermal Transport Properties of BiSbSe1.50Te1.50 Thermoelectrics by Hot Deformation. Wuji Cailiao Xuebao/Journal of Inorganic Materials, 2024, 39, 1316.	1.2	2
47	Achieving excellent uniform tensile ductility and strength in dislocation-cell-structured high-entropy alloys. International Journal of Plasticity, 2024, 181, 104079.	10.9	77
48	Comprehensive regulation of mechanical properties and thermal conductivity of Al-Si-Fe alloys through the mixed-additive (Sr and TiB2) strategy. Journal of Alloys and Compounds, 2024, 1005, 175850.	4.9	16
49	Regulating the mechanical properties of (μm B4C+nm SiC)/7075Al composites via nano-SiC content. Vacuum, 2024, 228, 113535.	3.1	7
50	Enhanced thermoelectric properties for eco-friendly CaTiO3 by band sharpening and atomic-scale defect phonon scattering. Materials Today Energy, 2024, 44, 101655.	3.1	9
51	Partially recrystallized heterostructure via Mo-doping endows CoCrNi medium-entropy alloy with exceptional strength and ductility. Scripta Materialia, 2024, 253, 116297.	4.3	30
52	Mao-based solid-like slippery composite coating with superior corrosion resistance and robust machinery performance upon magnesium-lithium alloy LA81. Chemical Engineering Journal, 2024, 497, 154801.	8.6	6
53	Enhanced Thermoelectric Performance of ZrCoSb Half-Heusler Compounds by Sn–Bi Codoping. ACS Applied Energy Materials, 2024, 7, 8025-8034.	3.9	13
54	A novel Co-free high-entropy alloy with excellent antimicrobial and mechanical properties. Rare Metals, 2024, 44, 581-590.	8.5	29

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55	Entropy engineering promotes thermoelectric performance while realizing P–N switchable conduction in BiSbSe1.5Te1.5. Materials Today Chemistry, 2024, 40, 102285.	2.4	2
56	Recent progress in protective coatings against corrosion upon magnesium–lithium alloys: A critical review. Journal of Magnesium and Alloys, 2024, 12, 3967-3995.	10.0	79
57	Janus-like Structure and Resonance Level Actualized Ultralow Lattice Thermal Conductivity and Enhanced ZTave in Mg3(Sb, Bi)2-Based Zintls. ACS Applied Materials & Interfaces, 2024, 16, 60197-60207.	5.5	15
58	Ultrasonic field-assisted metal additive manufacturing (U-FAAM): Mechanisms, research and future directions. Ultrasonics Sonochemistry, 2024, 111, 107070.	7.0	32
59	Boosting corrosion resistance of Mg-Li alloy: Implanting bioinspired superhydrophobic surfaces into MAO matrix for enhanced protection. Ceramics International, 2024, 50, 48425-48439.	4.3	27
60	Microstructure and properties of Cu-3Ti-0.3Cr-0.15Mg alloy designed via machine learning. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2024, 916, 147344.	5.4	35
61	A Cubic CuInTe2-Based Material Modulated by Entropy Engineering. ACS Applied Electronic Materials, 2024, 6, 8116-8123.	3.3	2
62	Thermo-driven oleogel-based self-healing slippery surface behaving superior corrosion inhibition to Mg-Li alloy. Journal of Magnesium and Alloys, 2023, 11, 4710-4723.	10.0	56
63	Emerging homogeneous superlattices in CaTiO3bulk thermoelectric materials. Materials Horizons, 2023, 10, 454-465.	8.5	15
64	Enhancing thermoelectric properties of MCoSb-based alloys by entropy-driven energy-filtering effects and band engineering. Materials Today Physics, 2023, 30, 100957.	4.1	13
65	Entropy-driven multiscale defects enhance the thermoelectric properties of ZrCoSb-based half-Heusler alloys. Chemical Engineering Journal, 2023, 455, 140676.	8.6	35
66	Revealing the role of micropore defects in tensile deformation of a B4Cp/Al composite using an actual three-dimensional model. Journal of Materials Research and Technology, 2023, 22, 3146-3155.	4.9	18
67	Microstructures and mechanical behavior of non-equiatomic Co29Cr29Fe29Ni13-V high-entropy alloys at room and cryogenic temperatures. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2023, 865, 144611.	5.4	13
68	Microstructure and properties of Cu-Cr-Zr (Mg) alloys subjected to cryorolling and aging treatment. Journal of Alloys and Compounds, 2023, 938, 168656.	4.9	62
69	In-situ synthesis of TiB2 particulate reinforced copper matrix composites with ultrasonic vibration treatment. Materials Letters, 2023, 335, 133823.	1.8	10
70	Enhancement in the thermoelectric performance of ZrNiSn-based alloys through extra Zr-rich nanoprecipitates with superstructures. Chemical Engineering Journal, 2023, 464, 142531.	8.6	17
71	Effect of temperature on mechanical behavior of Cu–Cr–Co–Ti alloys. Materials Characterization, 2023, 200, 112904.	4.2	18
72	Microstructures, mechanical properties, and irradiation tolerance of the Ti–Zr–Nb–V–Mo refractory high-entropy alloys. Intermetallics, 2023, 157, 107873.	3.8	48

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73	CALPHAD-aided design for superior thermal stability and mechanical behavior in a TiZrHfNb refractory high-entropy alloy. Acta Materialia, 2023, 246, 118728.	7.6	257
74	The effect of Gd on the microstructure evolution and mechanical properties of Mg-4Zn-0.6Ca alloy. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2023, 868, 144756.	5.4	39
75	Lightweight, ultrastrong and high thermal-stable eutectic high-entropy alloys for elevated-temperature applications. Acta Materialia, 2023, 248, 118806.	7.6	298
76	Enhanced Thermoelectric Properties of Zr0.85−xHfxNb0.15−yTayCoSb Medium-Entropy Alloys: Tradeoff between “What to Alloy” and “How Much to Alloy”. Chemistry of Materials, 2023, 35, 2202-2212.	4.6	21
77	In situ construction of complex spinel ferrimagnet in multi-elemental alloy for modulating natural resonance and highly efficient electromagnetic absorption. Chemical Engineering Journal, 2023, 462, 142200.	8.6	29
78	Effects of Cr Addition on the Precipitation and Properties of Cryo-Rolled CuNiSi Alloys. Metals, 2023, 13, 758.	1.8	16
79	Improving the stress corrosion resistance of 7075 matrix composites through combination of nanoparticle incorporation and retrogression re-aging treatment. Materials Today Communications, 2023, 36, 106639.	1.5	1
80	Processing defect, microstructure evolution and mechanical properties of laser powder bed fusion Al-12Si alloys. Journal of Materials Research and Technology, 2023, 26, 681-696.	4.9	23
81	Controlling Precipitation and Dopant Effects To Achieve Promising Thermoelectric Performance in CaTiO3. ACS Applied Energy Materials, 2023, 6, 8053-8062.	3.9	13
82	Biomimetic superhydrophobic matrix constructed on a buffer aluminum layer: A compositing coating for Mg-Li alloy corrosion inhibition. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2023, 676, 132268.	4.2	13
83	Effect of Extrusion Temperature on the Mechanical Properties and Corrosion Behavior of LZ91 Alloys. Acta Metallurgica Sinica (English Letters), 2023, 36, 1822-1832.	2.7	9
84	Microstructural stability and mechanical properties of BCC-based Fe3.5Cr1.5NiAl0.8 multicomponent alloy. Transactions of Nonferrous Metals Society of China, 2023, 33, 2461-2470.	3.5	6
85	Enhancing the Thermoelectric and Mechanical Properties of CuNiMn Alloys by Introducing Si Impurity Atoms and Twins. ACS Applied Electronic Materials, 2023, 5, 5668-5676.	3.3	3
86	Tailoring the enhanced mechanical behavior of 6061Al composites via nano SiCp and micron B4Cp addition. Journal of Materials Research and Technology, 2023, 27, 1550-1562.	4.9	15
87	Effect of Composition Regulation on Thermoelectric Properties of Fe3Al2Si3-Based Compounds. Journal of Electronic Materials, 2023, 53, 171-176.	1.9	3
88	Fabrication of carbon fiber reinforced aluminum matrix composites by inorganic binders. Journal of Alloys and Compounds, 2023, 968, 172213.	4.9	11
89	Enhancing Thermoelectric Performance of CuInTe2 via Trace Ag Doping at Indium Sites. ACS Applied Materials & Interfaces, 2023, 15, 49370-49378.	5.5	14
90	Microstructure and mechanical properties of C Hf0.25NbTaW0.5 refractory high-entropy alloys at room and high temperatures. Journal of Materials Science and Technology, 2022, 97, 229-238.	12.3	136

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91	Processing bulk insulating CaTiO3 into a high-performance thermoelectric material. Chemical Engineering Journal, 2022, 428, 131121.	8.6	25
92	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.	4.9	83
93	Corrosion process of Mg–Sn alloys revealed via in situ synchrotron X-ray radiography. Materials Letters, 2022, 308, 131139.	1.8	10
94	Microstructures, mechanical properties, and aging behavior of hybrid-sized TiB2 particulate-reinforced 2219 aluminum matrix composites. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2022, 829, 142180.	5.4	55
95	Effect of different rare earths on microstructures and tensile strength of in situ hybrid reinforced (TiB2p + TiBw)/Cu composites. Materials Characterization, 2022, 184, 111624.	4.2	24
96	Inhibition of Lattice Thermal Conductivity of ZrNiSn-based Half-Heusler Thermoelectric Materials by Entropy Adjustment. Wuji Cailiao Xuebao/Journal of Inorganic Materials, 2022, 37, 717.	1.2	9
97	Thermoelectric Property of In2O3/InNbO4 Composites. Wuji Cailiao Xuebao/Journal of Inorganic Materials, 2022, 37, 724.	1.2	3
98	Effect of Zr on the as-cast microstructure and mechanical properties of lightweight Ti2VNbMoZrx refractory high-entropy alloys. International Journal of Refractory Metals and Hard Materials, 2022, 103, 105762.	3.4	80
99	A research on the electrical sliding behavior wear of dual-scale particulate reinforced copper matrix composites. Materials Characterization, 2022, 184, 111708.	4.2	16
100	Constructing three-dimensional reticulated carbonyl iron/carbon foam composites to achieve temperature-stable broadband microwave absorption performance. Carbon, 2022, 188, 376-384.	8.6	95
101	FeCoNiCr0.4CuX High-Entropy Alloys with Strong Intergranular Magnetic Coupling for Stable Megahertz Electromagnetic Absorption in a Wide Temperature Spectrum. ACS Applied Materials & Interfaces, 2022, 14, 7012-7021.	5.5	53
102	Enhanced antibacterial behavior of a novel Cu-bearing high-entropy alloy. Journal of Materials Science and Technology, 2022, 117, 158-166.	12.3	96
103	A Novel Series of Fe8.25CoCrNiMnNb0.1Mox Multi-Component Alloys with Excellent Combined Strength and Ductility. Journal of Materials Engineering and Performance, 2022, 31, 5374-5381.	1.1	5
104	Seasonal variation and health risk assessment of organophosphate esters in surface and drinking water in Nanjing, China. International Journal of Environmental Science and Technology, 2022, 20, 411-422.	2.0	16
105	Ultrasound-assisted dispersion of TiB2 nanoparticles in 7075 matrix hybrid composites. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2022, 840, 142958.	5.4	54
106	Ductile and ultrahigh-strength eutectic high-entropy alloys by large-volume 3D printing. Journal of Materials Science and Technology, 2022, 126, 15-21.	12.3	119
107	Improving the mechanical properties of duplex Mg-Li-Zn alloy by mixed rolling processing. Materials Today Communications, 2022, 31, 103538.	1.5	9
108	Microstructures and Properties of In Situ (TiB2p+TiBw)/Cu Composites with Different Ce Content. Advanced Engineering Materials, 2022, 24, .	2.2	3

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109	The formation and growth of intermetallic compounds during interdiffusion of Al/Cu bimetals. Materials Research Express, 2022, 9, 056503.	1.5	30
110	Entropy engineering induced low thermal conductivity in medium-entropy (Zr, Ti, Hf)CoSb triple half-Heusler compounds. Materialia, 2022, 23, 101453.	1.9	19
111	Enhancement in thermoelectric properties of ZrNiSn-based alloys by Ta doping and Hf substitution. Acta Materialia, 2022, 233, 117976.	7.6	41
112	Hot deformation behavior and microstructure evolution of non-equimolar Ti2ZrHfV0.5Ta0.2 refractory high-entropy alloy. Intermetallics, 2022, 146, 107586.	3.8	76
113	Bioinspired superhydrophobic surface via one-step electrodeposition and its corrosion inhibition for Mg-Li alloy. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2022, 648, 129145.	4.2	57
114	Formation mechanism of TiB2 nanoparticles and development of TiB2p/6201 nanocomposites as a neoteric conducting material. Journal of Alloys and Compounds, 2022, 916, 165461.	4.9	14
115	Microstructure Design of High-Entropy Alloys Through a Multistage Mechanical Alloying Strategy for Temperature-Stable Megahertz Electromagnetic Absorption. Nano-Micro Letters, 2022, 14, .	26.3	80
116	Ultrasound-Assisted Solidification of a Cu–Cr Alloy. Acta Metallurgica Sinica (English Letters), 2022, 35, 2082-2088.	2.7	5
117	Significantly improved thermoelectric properties of Nb-doped ZrNiSn half-Heusler compounds. Chemical Engineering Journal, 2022, 449, 137898.	8.6	35
118	In Situ Investigation of Microstructural Evolution and Intermetallic Compounds Formation at Liquid Al/Solid Cu Interface by Synchrotron X-ray Radiography. Materials, 2022, 15, 5647.	2.1	4
119	A novel high-entropy alloy with an exceptional combination of soft magnetic properties and corrosion resistance. Science China Materials, 2022, 66, 772-779.	5.1	66
120	Eutectic high entropy alloys containing B and Si with excellent mechanical properties in annealing. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2022, 856, 143994.	5.4	34
121	Effects of He-ion irradiation on the microstructures and mechanical properties of the novel Co-free V CrFeMnNi high-entropy alloys. Journal of Nuclear Materials, 2022, 572, 154074.	2.5	22
122	Influence of deformation on the corrosion behavior of LZ91 Mg—Li alloy. International Journal of Minerals, Metallurgy and Materials, 2022, 30, 72-81.	5.6	21
123	Magnetic transformation of Mn from anti-ferromagnetism to ferromagnetism in FeCoNiZMn (Z = Si, Al, Sn, Ge) high entropy alloys. Journal of Materials Science and Technology, 2021, 68, 124-131.	12.3	41
124	Enhancing mechanical properties and corrosion resistance of nickel-aluminum bronze via hot rolling process. Journal of Materials Science and Technology, 2021, 61, 186-196.	12.3	67
125	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.	4.9	38
126	In situ infiltration behavior and interfacial microstructure evolution between Al and carbon fibers. Journal of Alloys and Compounds, 2021, 853, 157120.	4.9	12

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127	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.	12.3	109
128	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.	4.1	25
129	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.	5.4	72
130	Effects of deformation and annealing on the microstructures and properties of a nonequiatomic Co29Cr29Fe29Ni12.5W0.5 high-entropy alloy. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2021, 805, 140548.	5.4	12
131	Microstructure and properties of dual-scale particulate reinforced copper matrix composites with superior comprehensive properties. Journal of Alloys and Compounds, 2021, 860, 157888.	4.9	24
132	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.	5.4	57
133	Effect of Crystal Orientation on Seebeck Coefficient and Electrical Conductivity of SrTiO3 Single Crystals. Crystal Growth and Design, 2021, 21, 1791-1799.	2.4	8
134	Evolution of Microstructure and Mechanical Properties of As-Cast AlxCrFe2Ni2 High-Entropy Alloys with Al Content. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2021, 52, 1850-1860.	1.7	15
135	Effect of Ti and Nb Contents on Microstructure and Mechanical Properties of HfZrVTaMoWTixNby Refractory High-Entropy Alloys. Advanced Engineering Materials, 2021, 23, .	2.2	27
136	Facile morphology controllable synthesis of zinc oxide decorated carbon nanotubes with enhanced microwave absorption. Journal of Materials Science: Materials in Electronics, 2021, 32, 12208-12222.	1.8	16
137	Tungsten-containing high-entropy alloys: a focused review of manufacturing routes, phase selection, mechanical properties, and irradiation resistance properties. Tungsten, 2021, 3, 181-196.	6.4	63
138	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.	4.9	55
139	FeCoNiMnAl high-entropy alloy: Improving electromagnetic wave absorption properties. Journal of Materials Research, 2021, 36, 2107-2117.	1.9	37
140	Effects of Ni on the nucleation and growth behavior of Cu6Sn5 in Sn–8.5Cu alloy: An in situ observation. Journal of Alloys and Compounds, 2021, 862, 158603.	4.9	29
141	Microstructure and mechanical properties of Ti3V2NbAl Ni low-density refractory multielement alloys. Intermetallics, 2021, 133, 107187.	3.8	37
142	Remarkable strength of a non-equiatomic Co29Cr29Fe29Ni12.5W0.5 high-entropy alloy at cryogenic temperatures. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2021, 818, 141446.	5.4	25
143	Grouping strategy via d-orbit energy level to design eutectic high-entropy alloys. Applied Physics Letters, 2021, 119, .	2.3	22
144	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.	4.9	122

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145	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.	12.3	74
146	Pencil painting like preparation for flexible thermoelectric material of high-performance p-type Na1.4Co2O4 and novel n-type NaxCo2O4. Journal of Materiomics, 2021, 7, 1153-1160.	6.6	15
147	In vitro investigation on microstructure, bio-corrosion properties and cytotoxicity of as-extruded Mg–5Sn–xIn alloys. Journal of Alloys and Compounds, 2021, 877, 160294.	4.9	22
148	A novel ZrNbMoTaW refractory high-entropy alloy with in-situ forming heterogeneous structure. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2021, 827, 142061.	5.4	147
149	Top-down method to fabricate TiNi1+Sn half-Heusler alloy with high thermoelectric performance. Journal of Materials Science and Technology, 2021, 87, 39-45.	12.3	20
150	Microstructure evolution and mechanical properties of CrFeNixV0.64Ta0.36 eutectic high-entropy alloys. Materials Characterization, 2021, 181, 111449.	4.2	30
151	A novel bulk eutectic high-entropy alloy with outstanding as-cast specific yield strengths at elevated temperatures. Scripta Materialia, 2021, 204, 114132.	4.3	317
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