Junyang He

List of Publications by Year in Descending Order

48 papers	4,805 citations	23 h-index	49 g-index
49 ext. papers	6,263 ext. citations	6.2 avg, IF	5.78 L-index

#	Paper	IF	Citations
48	Strengthening and dynamic recrystallization mediated by Si-alloying in a refractory high entropy alloy. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2022**, 832, 142480	5.3	0
47	Segregation enabled outstanding combination of mechanical and corrosion properties in a FeCrNi medium entropy alloy manufactured by selective laser melting. *Journal of Materials Science and Technology*, **2022**, 99, 207-214	9.1	1
46	Effects of Ni and Al on precipitation behavior and mechanical properties of precipitation-hardened CoCrFeNi high-entropy alloys. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2022**, 839, 142879	5.3	0
45	Investigations on microstructure and properties of Ti-Nb-Zr medium-entropy alloys for metallic biomaterials. *Intermetallics*, **2022**, 145, 107568	3.5	1
44	Dual heterogeneous structure facilitating an excellent strength-ductility combination in an additively manufactured multi-principal-element alloy. *Materials Research Letters*, **2022**, 10, 575-584	7.4	0
43	On the dual-stage partial recrystallization and the corresponding mechanical response of the Cantor alloy. *Journal of Alloys and Compounds*, **2022**, 165651	5.7	0
42	Microstructure and mechanical properties of ultra-hard spherical refractory high-entropy alloy powders fabricated by plasma spheroidization. *Powder Technology*, **2021**, 382, 550-555	5.2	5
41	Tribological behavior of an AlCoCrFeNi2.1 eutectic high entropy alloy sliding against different counterfaces. *Tribology International*, **2021**, 153, 106599	4.9	35
40	Effects of nanosized precipitates on irradiation behavior of CoCrFeNi high entropy alloys. *Journal of Alloys and Compounds*, **2021**, 859, 158291	5.7	10
39	The evolution of compositional and microstructural heterogeneities in a TaMo0.5ZrTi1.5Al0.1Si0.2 high entropy alloy. *Materials Characterization*, **2021**, 172, 110836	3.9	12
38	On the compositional and structural redistribution during partial recrystallisation: a case of □phase precipitation in a Mo-doped NiCoCr medium-entropy alloy. *Scripta Materialia*, **2021**, 194, 113662	5.6	5
37	Effect of interface dislocations on mass flow during high temperature and low stress creep of single crystal Ni-base superalloys. *Scripta Materialia*, **2021**, 191, 23-28	5.6	4
36	The mechanical and oxidation properties of novel B2-ordered Ti2ZrHf0.5VNb0.5Alx refractory high-entropy alloys. *Materials Characterization*, **2021**, 178, 111287	3.9	8
35	Dynamic deformation behavior and microstructure evolution of CoCrNiMox medium entropy alloys. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing* , **2021**, 827, 142048	5.3	2
34	On the reversibility of the □/□ phase transformation in a high Nb containing TiAl alloy during high temperature deformation. *Journal of Materials Science and Technology*, **2021**, 93, 96-102	9.1	1
33	On the rhenium segregation at the low angle grain boundary in a single crystal Ni-base superalloy. *Scripta Materialia*, **2020**, 185, 88-93	5.6	14
32	Novel (CoFe2NiV0.5Mo0.2)100−xNbx Eutectic High-Entropy Alloys with Excellent Combination of Mechanical and Corrosion Properties. *Acta Metallurgica Sinica (English Letters)*, **2020**, 33, 1046-1056	2.5	12

31	Snoek-type damping performance in strong and ductile high-entropy alloys. *Science Advances*, **2020**, 6, eaba7802	14.3	23
30	New insights into high-temperature deformation and phase transformation mechanisms of lamellar structures in high Nb-containing TiAl alloys. *Acta Materialia*, **2020**, 186, 575-586	8.4	22
29	Unveiling the mechanism of abnormal magnetic behavior of FeNiCoMnCu high-entropy alloys through a joint experimental-theoretical study. *Physical Review Materials*, **2020**, 4,	3.2	11
28	Tuning microstructures and improving oxidation resistance of Nb-Si based alloys via electron beam surface melting. *Corrosion Science*, **2020**, 163, 108281	6.8	8
27	On the atomic solute diffusional mechanisms during compressive creep deformation of a Co-Al-W-Ta single crystal superalloy. *Acta Materialia*, **2020**, 184, 86-99	8.4	23
26	Surface microstructure modification of hypereutectic Nb-Si based alloys to improve oxidation resistance without damaging fracture toughness. *Materials Characterization*, **2020**, 159, 110051	3.9	7
25	Formation mechanism of κ-carbides and deformation behavior in Si-alloyed FeMnAlC lightweight steels. *Acta Materialia*, **2020**, 198, 258-270	8.4	20
24	On the formation of hierarchical microstructure in a Mo-doped NiCoCr medium-entropy alloy with enhanced strength-ductility synergy. *Scripta Materialia*, **2020**, 175, 1-6	5.6	37
23	Additive manufacturing of CMSX-4 Ni-base superalloy by selective laser melting: Influence of processing parameters and heat treatment. *Additive Manufacturing*, **2019**, 30, 100874	6.1	13
22	Atomic-scale grain boundary engineering to overcome hot-cracking in additively-manufactured superalloys. *Acta Materialia*, **2019**, 177, 209-221	8.4	83
21	Nano-graining a particle-strengthened high-entropy alloy. *Scripta Materialia*, **2019**, 163, 24-28	5.6	23
20	Solving the strength-ductility tradeoff in the medium-entropy NiCoCr alloy via interstitial strengthening of carbon. *Intermetallics*, **2019**, 106, 77-87	3.5	44
19	Dynamic deformation behavior of a face-centered cubic FeCoNiCrMn high-entropy alloy. *Science Bulletin*, **2018**, 63, 362-368	10.6	43
18	Stacking fault energy of face-centered-cubic high entropy alloys. *Intermetallics*, **2018**, 93, 269-273	3.5	174
17	Interfaces and defect composition at the near-atomic scale through atom probe tomography investigations. *Journal of Materials Research*, **2018**, 33, 4018-4030	2.5	25
16	Evidence for superplasticity in a CoCrFeNiMn high-entropy alloy processed by high-pressure torsion. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2017**, 685, 342-348	5.3	67
15	High-temperature plastic flow of a precipitation-hardened FeCoNiCr high entropy alloy. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2017**, 686, 34-40	5.3	46
14	Phase-Transformation Ductilization of Brittle High-Entropy Alloys via Metastability Engineering. *Advanced Materials*, **2017**, 29, 1701678	24	280

13	Microstructure and properties of a CoCrFeNiMn high-entropy alloy processed by equal-channel angular pressing. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2017**, 705, 411-419	5.3	80
12	Effect of annealing on mechanical properties of a nanocrystalline CoCrFeNiMn high-entropy alloy processed by high-pressure torsion. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2016**, 676, 294-303	5.3	167
11	Shock compression response of high entropy alloys. *Materials Research Letters*, **2016**, 4, 226-232	7.4	54
10	Spherical nanoindentation creep behavior of nanocrystalline and coarse-grained CoCrFeMnNi high-entropy alloys. *Acta Materialia*, **2016**, 109, 314-322	8.4	122
9	A precipitation-hardened high-entropy alloy with outstanding tensile properties. *Acta Materialia*, **2016**, 102, 187-196	8.4	1020
8	Ductile CoCrFeNiMox high entropy alloys strengthened by hard intermetallic phases. *Acta Materialia*, **2016**, 116, 332-342	8.4	432
7	Precipitation behavior and its effects on tensile properties of FeCoNiCr high-entropy alloys. *Intermetallics*, **2016**, 79, 41-52	3.5	145
6	Nanomechanical behavior and structural stability of a nanocrystalline CoCrFeNiMn high-entropy alloy processed by high-pressure torsion. *Journal of Materials Research*, **2015**, 30, 2804-2815	2.5	87
5	Effects of Nb additions on the microstructure and mechanical property of CoCrFeNi high-entropy alloys. *Intermetallics*, **2015**, 60, 1-8	3.5	213
4	Effects of Al addition on structural evolution and tensile properties of the FeCoNiCrMn high-entropy alloy system. *Acta Materialia*, **2014**, 62, 105-113	8.4	687
3	Steady state flow of the FeCoNiCrMn high entropy alloy at elevated temperatures. *Intermetallics*, **2014**, 55, 9-14	3.5	220
2	The Phase Competition and Stability of High-Entropy Alloys. *Jom*, **2014**, 66, 1973-1983	2.1	47
1	Grain growth and the HallPetch relationship in a high-entropy FeCrNiCoMn alloy. *Scripta Materialia* , **2013**, 68, 526-529	5.6	472