

Junyang He

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48
papers

4,805
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h-index

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49
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6,263
ext. citations

6.2
avg. IF

5.78
L-index

#	Paper	IF	Citations
48	A precipitation-hardened high-entropy alloy with outstanding tensile properties. <i>Acta Materialia</i> , 2016 , 102, 187-196	8.4	1020
47	Effects of Al addition on structural evolution and tensile properties of the FeCoNiCrMn high-entropy alloy system. <i>Acta Materialia</i> , 2014 , 62, 105-113	8.4	687
46	Grain growth and the HallPetch relationship in a high-entropy FeCrNiCoMn alloy. <i>Scripta Materialia</i> , 2013 , 68, 526-529	5.6	472
45	Ductile CoCrFeNiMox high entropy alloys strengthened by hard intermetallic phases. <i>Acta Materialia</i> , 2016 , 116, 332-342	8.4	432
44	Phase-Transformation Ductilization of Brittle High-Entropy Alloys via Metastability Engineering. <i>Advanced Materials</i> , 2017 , 29, 1701678	24	280
43	Steady state flow of the FeCoNiCrMn high entropy alloy at elevated temperatures. <i>Intermetallics</i> , 2014 , 55, 9-14	3.5	220
42	Effects of Nb additions on the microstructure and mechanical property of CoCrFeNi high-entropy alloys. <i>Intermetallics</i> , 2015 , 60, 1-8	3.5	213
41	Stacking fault energy of face-centered-cubic high entropy alloys. <i>Intermetallics</i> , 2018 , 93, 269-273	3.5	174
40	Effect of annealing on mechanical properties of a nanocrystalline CoCrFeNiMn high-entropy alloy processed by high-pressure torsion. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2016 , 676, 294-303	5.3	167
39	Precipitation behavior and its effects on tensile properties of FeCoNiCr high-entropy alloys. <i>Intermetallics</i> , 2016 , 79, 41-52	3.5	145
38	Spherical nanoindentation creep behavior of nanocrystalline and coarse-grained CoCrFeMnNi high-entropy alloys. <i>Acta Materialia</i> , 2016 , 109, 314-322	8.4	122
37	Nanomechanical behavior and structural stability of a nanocrystalline CoCrFeNiMn high-entropy alloy processed by high-pressure torsion. <i>Journal of Materials Research</i> , 2015 , 30, 2804-2815	2.5	87
36	Atomic-scale grain boundary engineering to overcome hot-cracking in additively-manufactured superalloys. <i>Acta Materialia</i> , 2019 , 177, 209-221	8.4	83
35	Microstructure and properties of a CoCrFeNiMn high-entropy alloy processed by equal-channel angular pressing. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2017 , 705, 411-419	5.3	80
34	Evidence for superplasticity in a CoCrFeNiMn high-entropy alloy processed by high-pressure torsion. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2017 , 685, 342-348	5.3	67
33	Shock compression response of high entropy alloys. <i>Materials Research Letters</i> , 2016 , 4, 226-232	7.4	54
32	The Phase Competition and Stability of High-Entropy Alloys. <i>Jom</i> , 2014 , 66, 1973-1983	2.1	47

31	High-temperature plastic flow of a precipitation-hardened FeCoNiCr high entropy alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2017 , 686, 34-40	5.3	46
30	Solving the strength-ductility tradeoff in the medium-entropy NiCoCr alloy via interstitial strengthening of carbon. <i>Intermetallics</i> , 2019 , 106, 77-87	3.5	44
29	Dynamic deformation behavior of a face-centered cubic FeCoNiCrMn high-entropy alloy. <i>Science Bulletin</i> , 2018 , 63, 362-368	10.6	43
28	On the formation of hierarchical microstructure in a Mo-doped NiCoCr medium-entropy alloy with enhanced strength-ductility synergy. <i>Scripta Materialia</i> , 2020 , 175, 1-6	5.6	37
27	Tribological behavior of an AlCoCrFeNi _{2.1} eutectic high entropy alloy sliding against different counterfaces. <i>Tribology International</i> , 2021 , 153, 106599	4.9	35
26	Interfaces and defect composition at the near-atomic scale through atom probe tomography investigations. <i>Journal of Materials Research</i> , 2018 , 33, 4018-4030	2.5	25
25	Snoek-type damping performance in strong and ductile high-entropy alloys. <i>Science Advances</i> , 2020 , 6, eaba7802	14.3	23
24	On the atomic solute diffusional mechanisms during compressive creep deformation of a Co-Al-W-Ta single crystal superalloy. <i>Acta Materialia</i> , 2020 , 184, 86-99	8.4	23
23	Nano-graining a particle-strengthened high-entropy alloy. <i>Scripta Materialia</i> , 2019 , 163, 24-28	5.6	23
22	New insights into high-temperature deformation and phase transformation mechanisms of lamellar structures in high Nb-containing TiAl alloys. <i>Acta Materialia</i> , 2020 , 186, 575-586	8.4	22
21	Formation mechanism of ϵ -carbides and deformation behavior in Si-alloyed FeMnAlC lightweight steels. <i>Acta Materialia</i> , 2020 , 198, 258-270	8.4	20
20	On the rhenium segregation at the low angle grain boundary in a single crystal Ni-base superalloy. <i>Scripta Materialia</i> , 2020 , 185, 88-93	5.6	14
19	Additive manufacturing of CMSX-4 Ni-base superalloy by selective laser melting: Influence of processing parameters and heat treatment. <i>Additive Manufacturing</i> , 2019 , 30, 100874	6.1	13
18	Novel (CoFe ₂ NiV _{0.5} Mo _{0.2}) _{100-x} Nb _x Eutectic High-Entropy Alloys with Excellent Combination of Mechanical and Corrosion Properties. <i>Acta Metallurgica Sinica (English Letters)</i> , 2020 , 33, 1046-1056	2.5	12
17	The evolution of compositional and microstructural heterogeneities in a TaMo _{0.5} ZrTi _{1.5} Al _{0.1} Si _{0.2} high entropy alloy. <i>Materials Characterization</i> , 2021 , 172, 110836	3.9	12
16	Unveiling the mechanism of abnormal magnetic behavior of FeNiCoMnCu high-entropy alloys through a joint experimental-theoretical study. <i>Physical Review Materials</i> , 2020 , 4,	3.2	11
15	Effects of nanosized precipitates on irradiation behavior of CoCrFeNi high entropy alloys. <i>Journal of Alloys and Compounds</i> , 2021 , 859, 158291	5.7	10
14	Tuning microstructures and improving oxidation resistance of Nb-Si based alloys via electron beam surface melting. <i>Corrosion Science</i> , 2020 , 163, 108281	6.8	8

13	The mechanical and oxidation properties of novel B2-ordered Ti ₂ ZrHf _{0.5} VNb _{0.5} Al _x refractory high-entropy alloys. <i>Materials Characterization</i> , 2021 , 178, 111287	3.9	8
12	Surface microstructure modification of hypereutectic Nb-Si based alloys to improve oxidation resistance without damaging fracture toughness. <i>Materials Characterization</i> , 2020 , 159, 110051	3.9	7
11	Microstructure and mechanical properties of ultra-hard spherical refractory high-entropy alloy powders fabricated by plasma spheroidization. <i>Powder Technology</i> , 2021 , 382, 550-555	5.2	5
10	On the compositional and structural redistribution during partial recrystallisation: a case of ϵ phase precipitation in a Mo-doped NiCoCr medium-entropy alloy. <i>Scripta Materialia</i> , 2021 , 194, 113662	5.6	5
9	Effect of interface dislocations on mass flow during high temperature and low stress creep of single crystal Ni-base superalloys. <i>Scripta Materialia</i> , 2021 , 191, 23-28	5.6	4
8	Dynamic deformation behavior and microstructure evolution of CoCrNiMox medium entropy alloys. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2021 , 827, 142048	5.3	2
7	On the reversibility of the α/β phase transformation in a high Nb containing TiAl alloy during high temperature deformation. <i>Journal of Materials Science and Technology</i> , 2021 , 93, 96-102	9.1	1
6	Segregation enabled outstanding combination of mechanical and corrosion properties in a FeCrNi medium entropy alloy manufactured by selective laser melting. <i>Journal of Materials Science and Technology</i> , 2022 , 99, 207-214	9.1	1
5	Investigations on microstructure and properties of Ti-Nb-Zr medium-entropy alloys for metallic biomaterials. <i>Intermetallics</i> , 2022 , 145, 107568	3.5	1
4	Strengthening and dynamic recrystallization mediated by Si-alloying in a refractory high entropy alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2022 , 832, 142480	5.3	0
3	Effects of Ni and Al on precipitation behavior and mechanical properties of precipitation-hardened CoCrFeNi high-entropy alloys. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2022 , 839, 142879	5.3	0
2	Dual heterogeneous structure facilitating an excellent strength-ductility combination in an additively manufactured multi-principal-element alloy. <i>Materials Research Letters</i> , 2022 , 10, 575-584	7.4	0
1	On the dual-stage partial recrystallization and the corresponding mechanical response of the Cantor alloy. <i>Journal of Alloys and Compounds</i> , 2022 , 165651	5.7	0