

Feng He

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44
papers

1,394
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h-index

37
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55
ext. papers

1,961
ext. citations

5
avg, IF

4.9
L-index

#	Paper	IF	Citations
44	Designing eutectic high entropy alloys of CoCrFeNiNb x. <i>Journal of Alloys and Compounds</i> , 2016 , 656, 284-289	5.7	222
43	Phase separation of metastable CoCrFeNi high entropy alloy at intermediate temperatures. <i>Scripta Materialia</i> , 2017 , 126, 15-19	5.6	165
42	Stability of lamellar structures in CoCrFeNiNb _x eutectic high entropy alloys at elevated temperatures. <i>Materials and Design</i> , 2016 , 104, 259-264	8.1	88
41	Strengthening the CoCrFeNiNb _{0.25} high entropy alloy by FCC precipitate. <i>Journal of Alloys and Compounds</i> , 2016 , 667, 53-57	5.7	80
40	Novel Co-rich high entropy alloys with superior tensile properties. <i>Materials Research Letters</i> , 2019 , 7, 82-88	7.4	80
39	Design of D022 superlattice with superior strengthening effect in high entropy alloys. <i>Acta Materialia</i> , 2019 , 167, 275-286	8.4	75
38	Effects of temperature and microstructure on the tribological properties of CoCrFeNiNb _x eutectic high entropy alloys. <i>Journal of Alloys and Compounds</i> , 2019 , 775, 1376-1385	5.7	74
37	Solid solution island of the Co-Cr-Fe-Ni high entropy alloy system. <i>Scripta Materialia</i> , 2017 , 131, 42-46	5.6	59
36	Alloy design, micromechanical and macromechanical properties of CoCrFeNiTax eutectic high entropy alloys. <i>Journal of Alloys and Compounds</i> , 2018 , 735, 2653-2662	5.7	57
35	Uncovering the eutectics design by machine learning in the AlCoCrFeNi high entropy system. <i>Acta Materialia</i> , 2020 , 182, 278-286	8.4	55
34	Metastability in high-entropy alloys: A review. <i>Journal of Materials Research</i> , 2018 , 33, 2924-2937	2.5	48
33	Composition evolution of gamma prime nanoparticles in the Ti-doped CoFeCrNi high entropy alloy. <i>Scripta Materialia</i> , 2018 , 148, 42-46	5.6	34
32	Synergistic effect of Ti and Al on L12-phase design in CoCrFeNi-based high entropy alloys. <i>Intermetallics</i> , 2019 , 110, 106476	3.5	32
31	Tuning the defects in face centered cubic high entropy alloy via temperature-dependent stacking fault energy. <i>Scripta Materialia</i> , 2018 , 155, 134-138	5.6	29
30	Solid solubility, precipitates, and stacking fault energy of micro-alloyed CoCrFeNi high entropy alloys. <i>Journal of Alloys and Compounds</i> , 2018 , 769, 490-502	5.7	28
29	The phase stability of Ni ₂ CrFeMox multi-principal-component alloys with medium configurational entropy. <i>Materials and Design</i> , 2015 , 85, 1-6	8.1	24
28	Kinetic ways of tailoring phases in high entropy alloys. <i>Scientific Reports</i> , 2016 , 6, 34628	4.9	24

27	The intrinsic mechanism of corrosion resistance for FCC high entropy alloys. <i>Science China Technological Sciences</i> , 2018 , 61, 189-196	3.5	24
26	Abnormal β - β' phase transformation in the CoCrFeNiNb _{0.25} high entropy alloy. <i>Scripta Materialia</i> , 2018 , 146, 281-285	5.6	23
25	Quantitative determination of the lattice constant in high entropy alloys. <i>Scripta Materialia</i> , 2019 , 162, 468-471	5.6	23
24	Grouping strategy in eutectic multi-principal-component alloys. <i>Materials Chemistry and Physics</i> , 2019 , 221, 138-143	4.4	19
23	Revealing the Selection of β and β' Phases in CoCrFeNiMox High Entropy Alloys by CALPHAD. <i>Journal of Phase Equilibria and Diffusion</i> , 2018 , 39, 446-453	1	17
22	Tailoring nanoprecipitates for ultra-strong high-entropy alloys via machine learning and prestrain aging. <i>Journal of Materials Science and Technology</i> , 2021 , 69, 156-167	9.1	16
21	Effect of silicon addition on the microstructures, mechanical properties and helium irradiation resistance of NiCoCr-based medium-entropy alloys. <i>Journal of Alloys and Compounds</i> , 2020 , 844, 156162	5.7	12
20	High Entropy Alloys: From Bulk Metallic Materials to Nanoparticles. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2018 , 49, 4986-4990	2.3	12
19	Strain partitioning enables excellent tensile ductility in precipitated heterogeneous high-entropy alloys with gigapascal yield strength. <i>International Journal of Plasticity</i> , 2021 , 144, 103022	7.6	12
18	Effect of Ta addition on solidification characteristics of CoCrFeNiTax eutectic high entropy alloys. <i>Intermetallics</i> , 2020 , 120, 106769	3.5	10
17	A precipitation-strengthened high-entropy alloy for additive manufacturing. <i>Additive Manufacturing</i> , 2020 , 35, 101410	6.1	8
16	Effects of surfactant on capillary evaporation process with thick films. <i>International Journal of Heat and Mass Transfer</i> , 2015 , 88, 406-410	4.9	6
15	Anomalous effect of lattice misfit on the coarsening behavior of multicomponent L12 phase. <i>Scripta Materialia</i> , 2020 , 183, 111-116	5.6	6
14	Elemental partitioning as a route to design precipitation-hardened high entropy alloys. <i>Journal of Materials Science and Technology</i> , 2021 , 72, 52-60	9.1	5
13	Elemental Phase Partitioning in the β -NiCoFeCrNb High Entropy Alloy. <i>Entropy</i> , 2018 , 20,	2.8	5
12	Origins of the mechanical property heterogeneity in a hybrid additive manufactured Hastelloy X. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2021 , 823, 141716	5.3	5
11	Superior Slurry Erosion Behavior of a Casting NiCoCrFeNb _{0.45} Eutectic High Entropy Alloy. <i>Acta Metallurgica Sinica (English Letters)</i> , 2020 , 33, 1111-1116	2.5	3
10	Composition-dependent slip planarity in mechanically-stable face centered cubic complex concentrated alloys and its mechanical effects. <i>Acta Materialia</i> , 2021 , 220, 117314	8.4	3

9	Design Fe-based Eutectic Medium-Entropy Alloys Fe ₂ NiCrNbx. <i>Acta Metallurgica Sinica (English Letters)</i> , 2021 , 34, 1103-1108	2.5	2
8	Effect of Re and Ru on the phase stability and coarsening kinetics of L12 phase in a Ni ₂₉ Co ₂₇ Fe ₂₇ Cr ₃ Al ₇ Ti ₇ high entropy alloy. <i>Journal of Alloys and Compounds</i> , 2021 , 866, 158904	5.7	2
7	Distinct Recrystallization Kinetics in NiCoCrFe-Based Single-Phase High-Entropy Alloys. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2021 , 52, 3799-3810	7.3	1
6	Heterogeneous microstructure of the bonding zone and its dependence on preheating in hybrid manufactured Ti-6Al-4V. <i>Materials Research Letters</i> , 2021 , 9, 422-428	7.4	1
5	Effects of temperature on helium cavity evolution in single-phase concentrated solid-solution alloys. <i>Journal of Nuclear Materials</i> , 2021 , 557, 153261	3.3	1
4	Tailoring microstructures of CoCrFeNiNb _{0.25} hypoeutectic high-entropy alloy by hot deformation. <i>Rare Metals</i> , 2022 , 41, 2028	5.5	1
3	Temperature-dependent helium induced microstructural evolution in equiatomic NiCo and NiFe concentrated solid solution alloys. <i>Journal of Nuclear Materials</i> , 2021 , 545, 152715	3.3	0
2	Non-monotonous effect of pre-strain on the precipitates and strengthening mechanisms of high-entropy alloys. <i>Journal of Alloys and Compounds</i> , 2022 , 906, 164338	5.7	0
1	Deformation faulting and dislocation-cell refinement in a selective laser melted 316L stainless steel. <i>International Journal of Plasticity</i> , 2022 , 103346	7.6	0