

# Feng He

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

44  
papers

1,394  
citations

20  
h-index

37  
g-index

55  
ext. papers

1,961  
ext. citations

5  
avg, IF

4.9  
L-index

#	Paper	IF	Citations
44	Tailoring microstructures of CoCrFeNiNb <sub>0.25</sub> hypoeutectic high-entropy alloy by hot deformation. <i>Rare Metals</i> , <b>2022</b> , 41, 2028	5.5	1
43	Non-monotonous effect of pre-strain on the precipitates and strengthening mechanisms of high-entropy alloys. <i>Journal of Alloys and Compounds</i> , <b>2022</b> , 906, 164338	5.7	0
42	Deformation faulting and dislocation-cell refinement in a selective laser melted 316L stainless steel. <i>International Journal of Plasticity</i> , <b>2022</b> , 103346	7.6	0
41	Design Fe-based Eutectic Medium-Entropy Alloys Fe <sub>2</sub> NiCrNbx. <i>Acta Metallurgica Sinica (English Letters)</i> , <b>2021</b> , 34, 1103-1108	2.5	2
40	Distinct Recrystallization Kinetics in NiCoCrFe-Based Single-Phase High-Entropy Alloys. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , <b>2021</b> , 52, 3799-3810	2.3	1
39	Effect of Re and Ru on the phase stability and coarsening kinetics of L12 phase in a Ni <sub>29</sub> Co <sub>27</sub> Fe <sub>27</sub> Cr <sub>3</sub> Al <sub>7</sub> Ti <sub>7</sub> high entropy alloy. <i>Journal of Alloys and Compounds</i> , <b>2021</b> , 866, 158904	5.7	2
38	Elemental partitioning as a route to design precipitation-hardened high entropy alloys. <i>Journal of Materials Science and Technology</i> , <b>2021</b> , 72, 52-60	9.1	5
37	Tailoring nanoprecipitates for ultra-strong high-entropy alloys via machine learning and prestrain aging. <i>Journal of Materials Science and Technology</i> , <b>2021</b> , 69, 156-167	9.1	16
36	Temperature-dependent helium induced microstructural evolution in equiatomic NiCo and NiFe concentrated solid solution alloys. <i>Journal of Nuclear Materials</i> , <b>2021</b> , 545, 152715	3.3	0
35	Heterogeneous microstructure of the bonding zone and its dependence on preheating in hybrid manufactured Ti-6Al-4V. <i>Materials Research Letters</i> , <b>2021</b> , 9, 422-428	7.4	1
34	Origins of the mechanical property heterogeneity in a hybrid additive manufactured Hastelloy X. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2021</b> , 823, 141716	5.3	5
33	Strain partitioning enables excellent tensile ductility in precipitated heterogeneous high-entropy alloys with gigapascal yield strength. <i>International Journal of Plasticity</i> , <b>2021</b> , 144, 103022	7.6	12
32	Composition-dependent slip planarity in mechanically-stable face centered cubic complex concentrated alloys and its mechanical effects. <i>Acta Materialia</i> , <b>2021</b> , 220, 117314	8.4	3
31	Effects of temperature on helium cavity evolution in single-phase concentrated solid-solution alloys. <i>Journal of Nuclear Materials</i> , <b>2021</b> , 557, 153261	3.3	1
30	Superior Slurry Erosion Behavior of a Casting NiCoCrFeNb <sub>0.45</sub> Eutectic High Entropy Alloy. <i>Acta Metallurgica Sinica (English Letters)</i> , <b>2020</b> , 33, 1111-1116	2.5	3
29	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> , <b>2020</b> , 844, 156162	5.7	12
28	A precipitation-strengthened high-entropy alloy for additive manufacturing. <i>Additive Manufacturing</i> , <b>2020</b> , 35, 101410	6.1	8

27	Anomalous effect of lattice misfit on the coarsening behavior of multicomponent L12 phase. <i>Scripta Materialia</i> , <b>2020</b> , 183, 111-116	5.6	6
26	Uncovering the eutectics design by machine learning in the AlCoCrFeNi high entropy system. <i>Acta Materialia</i> , <b>2020</b> , 182, 278-286	8.4	55
25	Effect of Ta addition on solidification characteristics of CoCrFeNiTax eutectic high entropy alloys. <i>Intermetallics</i> , <b>2020</b> , 120, 106769	3.5	10
24	Design of D022 superlattice with superior strengthening effect in high entropy alloys. <i>Acta Materialia</i> , <b>2019</b> , 167, 275-286	8.4	75
23	Synergistic effect of Ti and Al on L12-phase design in CoCrFeNi-based high entropy alloys. <i>Intermetallics</i> , <b>2019</b> , 110, 106476	3.5	32
22	Grouping strategy in eutectic multi-principal-component alloys. <i>Materials Chemistry and Physics</i> , <b>2019</b> , 221, 138-143	4.4	19
21	Quantitative determination of the lattice constant in high entropy alloys. <i>Scripta Materialia</i> , <b>2019</b> , 162, 468-471	5.6	23
20	Novel Co-rich high entropy alloys with superior tensile properties. <i>Materials Research Letters</i> , <b>2019</b> , 7, 82-88	7.4	80
19	Effects of temperature and microstructure on the tribological properties of CoCrFeNiNbx eutectic high entropy alloys. <i>Journal of Alloys and Compounds</i> , <b>2019</b> , 775, 1376-1385	5.7	74
18	Composition evolution of gamma prime nanoparticles in the Ti-doped CoFeCrNi high entropy alloy. <i>Scripta Materialia</i> , <b>2018</b> , 148, 42-46	5.6	34
17	Abnormal $\beta$ - $\beta'$ phase transformation in the CoCrFeNiNb <sub>0.25</sub> high entropy alloy. <i>Scripta Materialia</i> , <b>2018</b> , 146, 281-285	5.6	23
16	Revealing the Selection of $\beta$ and $\beta'$ Phases in CoCrFeNiMox High Entropy Alloys by CALPHAD. <i>Journal of Phase Equilibria and Diffusion</i> , <b>2018</b> , 39, 446-453	1	17
15	Solid solubility, precipitates, and stacking fault energy of micro-alloyed CoCrFeNi high entropy alloys. <i>Journal of Alloys and Compounds</i> , <b>2018</b> , 769, 490-502	5.7	28
14	High Entropy Alloys: From Bulk Metallic Materials to Nanoparticles. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , <b>2018</b> , 49, 4986-4990	2.3	12
13	Alloy design, micromechanical and macromechanical properties of CoCrFeNiTax eutectic high entropy alloys. <i>Journal of Alloys and Compounds</i> , <b>2018</b> , 735, 2653-2662	5.7	57
12	The intrinsic mechanism of corrosion resistance for FCC high entropy alloys. <i>Science China Technological Sciences</i> , <b>2018</b> , 61, 189-196	3.5	24
11	Elemental Phase Partitioning in the $\beta$ -NiCoFeCrNb High Entropy Alloy. <i>Entropy</i> , <b>2018</b> , 20,	2.8	5
10	Metastability in high-entropy alloys: A review. <i>Journal of Materials Research</i> , <b>2018</b> , 33, 2924-2937	2.5	48

9	Tuning the defects in face centered cubic high entropy alloy via temperature-dependent stacking fault energy. <i>Scripta Materialia</i> , <b>2018</b> , 155, 134-138	5.6	29
8	Solid solution island of the Co-Cr-Fe-Ni high entropy alloy system. <i>Scripta Materialia</i> , <b>2017</b> , 131, 42-46	5.6	59
7	Phase separation of metastable CoCrFeNi high entropy alloy at intermediate temperatures. <i>Scripta Materialia</i> , <b>2017</b> , 126, 15-19	5.6	165
6	Designing eutectic high entropy alloys of CoCrFeNiNb x. <i>Journal of Alloys and Compounds</i> , <b>2016</b> , 656, 284-289	5.7	222
5	Strengthening the CoCrFeNiNb0.25 high entropy alloy by FCC precipitate. <i>Journal of Alloys and Compounds</i> , <b>2016</b> , 667, 53-57	5.7	80
4	Kinetic ways of tailoring phases in high entropy alloys. <i>Scientific Reports</i> , <b>2016</b> , 6, 34628	4.9	24
3	Stability of lamellar structures in CoCrFeNiNbx eutectic high entropy alloys at elevated temperatures. <i>Materials and Design</i> , <b>2016</b> , 104, 259-264	8.1	88
2	Effects of surfactant on capillary evaporation process with thick films. <i>International Journal of Heat and Mass Transfer</i> , <b>2015</b> , 88, 406-410	4.9	6
1	The phase stability of Ni <sub>2</sub> CrFeMox multi-principal-component alloys with medium configurational entropy. <i>Materials and Design</i> , <b>2015</b> , 85, 1-6	8.1	24