# Feng He

List of Publications by Year
in descending order



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|---|---|---|---|
| 54 papers | 2,539 citations | 257450 24 h-index | 197818 49 g-index |
| 55 all docs | 55 docs citations | 55 times ranked | 1332 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Effect of Ti/Al Ratio on the Elemental Partitioning in the Face-Centered Cubic-Based Î³-Î³â€² Dual-Phase High Entropy Alloy Studied by Atom Probe Tomography. Frontiers in Materials, 2022, 9, . | 2.4 | 0 |
| 2 | Tailoring microstructures of CoCrFeNiNb0.25 hypoeutectic high-entropy alloy by hot deformation. Rare Metals, 2022, 41, 2028-2037. | 7.1 | 9 |
| 3 | Non-monotonous effect of pre-strain on the precipitates and strengthening mechanisms of high-entropy alloys. Journal of Alloys and Compounds, 2022, 906, 164338. | 5.5 | 5 |
| 4 | Concurrent Recrystallization and Precipitation for Combination of Superior Precipitation and Grain Boundary Hardening in Co37Cr20Ni37Ti3Al3 High-Entropy Alloy. Metals and Materials International, 2022, 28, 2863-2873. | 3.4 | 12 |
| 5 | Endless recrystallization of high-entropy alloys at high temperature. Journal of Materials Science and Technology, 2022, 128, 71-81. | 10.7 | 9 |
| 6 | Deformation faulting and dislocation-cell refinement in a selective laser melted 316L stainless steel. International Journal of Plasticity, 2022, 156, 103346. | 8.8 | 17 |
| 7 | Rapid alloy design from superior eutectic high-entropy alloys. Scripta Materialia, 2022, 219, 114875. | 5.2 | 20 |
| 8 | The dual effect of grain size on the strain hardening behaviors of Ni-Co-Cr-Fe high entropy alloys. Journal of Materials Science and Technology, 2022, 131, 177-184. | 10.7 | 15 |
| 9 | Elemental partitioning as a route to design precipitation-hardened high entropy alloys. Journal of Materials Science and Technology, 2021, 72, 52-60. | 10.7 | 20 |
| 10 | Tailoring nanoprecipitates for ultra-strong high-entropy alloys via machine learning and prestrain aging. Journal of Materials Science and Technology, 2021, 69, 156-167. | 10.7 | 48 |
| 11 | Temperature-dependent helium induced microstructural evolution in equiatomic NiCo and NiFe concentrated solid solution alloys. Journal of Nuclear Materials, 2021, 545, 152715. | 2.7 | 4 |
| 12 | Design Fe-based Eutectic Medium-Entropy Alloys Fe2NiCrNbx. Acta Metallurgica Sinica (English) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 30 | 2.9 | 17 |
| 13 | Distinct Recrystallization Kinetics in Niâ€“Coâ€“Crâ€“Fe-Based Single-Phase High-Entropy Alloys. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2021, 52, 3799-3810. | 2.2 | 5 |
| 14 | Effect of Re and Ru on the phase stability and coarsening kinetics of L12 phase in a Ni29Co27Fe27Cr3Al7Ti7 high entropy alloy. Journal of Alloys and Compounds, 2021, 866, 158904. | 5.5 | 14 |
| 15 | Heterogeneous microstructure of the bonding zone and its dependence on preheating in hybrid manufactured Ti-6Al-4V. Materials Research Letters, 2021, 9, 422-428. | 8.7 | 10 |
| 16 | Origins of the mechanical property heterogeneity in a hybrid additive manufactured Hastelloy X. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2021, 823, 141716. | 5.6 | 19 |
| 17 | Strain partitioning enables excellent tensile ductility in precipitated heterogeneous high-entropy alloys with gigapascal yield strength. International Journal of Plasticity, 2021, 144, 103022. | 8.8 | 51 |
| 18 | Composition-dependent slip planarity in mechanically-stable face centered cubic complex concentrated alloys and its mechanical effects. Acta Materialia, 2021, 220, 117314. | 7.9 | 24 |

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|---|---|---|---|
| 19 | Effects of temperature on helium cavity evolution in single-phase concentrated solid-solution alloys. Journal of Nuclear Materials, 2021, 557, 153261. | 2.7 | 8 |
| 20 | Uncovering the eutectics design by machine learning in the Alâ€“Coâ€“Crâ€“Feâ€“Ni high entropy system. Acta Materialia, 2020, 182, 278-286. | 7.9 | 143 |
| 21 | Superior Slurry Erosion Behavior of a Casting NiCoCrFeNb0.45 Eutectic High Entropy Alloy. Acta Metallurgica Sinica (English Letters), 2020, 33, 1111-1116. | 2.9 | 11 |
| 22 | Effect of silicon addition on the microstructures, mechanical properties and helium irradiation resistance of NiCoCr-based medium-entropy alloys. Journal of Alloys and Compounds, 2020, 844, 156162. | 5.5 | 30 |
| 23 | A precipitation-strengthened high-entropy alloy for additive manufacturing. Additive Manufacturing, 2020, 35, 101410. | 3.0 | 15 |
| 24 | Effect of Ta addition on solidification characteristics of CoCrFeNiTax eutectic high entropy alloys. Intermetallics, 2020, 120, 106769. | 3.9 | 24 |
| 25 | Anomalous effect of lattice misfit on the coarsening behavior of multicomponent L12 phase. Scripta Materialia, 2020, 183, 111-116. | 5.2 | 22 |
| 26 | Design of D022 superlattice with superior strengthening effect in high entropy alloys. Acta Materialia, 2019, 167, 275-286. | 7.9 | 172 |
| 27 | Synergistic effect of Ti and Al on L12-phase design in CoCrFeNi-based high entropy alloys. Intermetallics, 2019, 110, 106476. | 3.9 | 76 |
| 28 | Grouping strategy in eutectic multi-principal-component alloys. Materials Chemistry and Physics, 2019, 221, 138-143. | 4.0 | 27 |
| 29 | Quantitative determination of the lattice constant in high entropy alloys. Scripta Materialia, 2019, 162, 468-471. | 5.2 | 40 |
| 30 | Novel Co-rich high entropy alloys with superior tensile properties. Materials Research Letters, 2019, 7, 82-88. | 8.7 | 139 |
| 31 | Effects of temperature and microstructure on the triblogical properties of CoCrFeNiNbx eutectic high entropy alloys. Journal of Alloys and Compounds, 2019, 775, 1376-1385. | 5.5 | 129 |
| 32 | Composition evolution of gamma prime nanoparticles in the Ti-doped CoFeCrNi high entropy alloy. Scripta Materialia, 2018, 148, 42-46. | 5.2 | 54 |
| 33 | Abnormal Î³â€³ - Îµ phase transformation in the CoCrFeNiNb0.25 high entropy alloy. Scripta Materialia, 2018, 146, 281-285. | 5.2 | 43 |
| 34 | The intrinsic mechanism of corrosion resistance for FCC high entropy alloys. Science China Technological Sciences, 2018, 61, 189-196. | 4.0 | 48 |
| 35 | Elemental Phase Partitioning in the Î³-Î³â€³ Ni2CoFeCrNb0.15 High Entropy Alloy. Entropy, 2018, 20, 910. | 2.2 | 10 |
| 36 | Metastability in high-entropy alloys: A review. Journal of Materials Research, 2018, 33, 2924-2937. | 2.6 | 85 |

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|---|---|---|---|
| 37 | Tuning the defects in face centered cubic high entropy alloy via temperature-dependent stacking fault energy. Scripta Materialia, 2018, 155, 134-138. | 5.2 | 41 |
| 38 | Revealing the Selection of Ïƒ and Î¼ Phases in CoCrFeNiMox High Entropy Alloys by CALPHAD. Journal of Phase Equilibria and Diffusion, 2018, 39, 446-453. | 1.4 | 25 |
| 39 | Solid solubility, precipitates, and stacking fault energy of micro-alloyed CoCrFeNi high entropy alloys. Journal of Alloys and Compounds, 2018, 769, 490-502. | 5.5 | 46 |
| 40 | High Entropy Alloys: From Bulk Metallic Materials to Nanoparticles. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2018, 49, 4986-4990. | 2.2 | 23 |
| 41 | Alloy design, micromechanical and macromechanical properties of CoCrFeNiTax eutectic high entropy alloys. Journal of Alloys and Compounds, 2018, 735, 2653-2662. | 5.5 | 93 |
| 42 | Solid solution island of the Co-Cr-Fe-Ni high entropy alloy system. Scripta Materialia, 2017, 131, 42-46. | 5.2 | 81 |
| 43 | Phase separation of metastable CoCrFeNi high entropy alloy at intermediate temperatures. Scripta Materialia, 2017, 126, 15-19. | 5.2 | 212 |
| 44 | Kinetic ways of tailoring phases in high entropy alloys. Scientific Reports, 2016, 6, 34628. | 3.3 | 29 |
| 45 | Stability of lamellar structures in CoCrFeNiNbx eutectic high entropy alloys at elevated temperatures. Materials and Design, 2016, 104, 259-264. | 7.0 | 128 |
| 46 | Strengthening the CoCrFeNiNb0.25 high entropy alloy by FCC precipitate. Journal of Alloys and Compounds, 2016, 667, 53-57. | 5.5 | 106 |
| 47 | Designing eutectic high entropy alloys of CoCrFeNiNb x. Journal of Alloys and Compounds, 2016, 656, 284-289. | 5.5 | 340 |
| 48 | Effects of surfactant on capillary evaporation process with thick films. International Journal of Heat and Mass Transfer, 2015, 88, 406-410. | 4.8 | 8 |
| 49 | The phase stability of Ni2CrFeMox multi-principal-component alloys with medium configurational entropy. Materials and Design, 2015, 85, 1-6. | 7.0 | 29 |
| 50 | Investigation on the capillary evaporation process based on the existence of liquid film. Wuli Xuebao/Acta Physica Sinica, 2013, 62, 246401. | 0.5 | 1 |
| 51 | Design of D0 <sub>22</sub> Superlattice with Superior Strengthening Effect in High Entropy Alloys. SSRN Electronic Journal, 0, , . | 0.4 | 0 |
| 52 | Uncovering the Eutectics Design by Machine Learning in the Al-Co-Cr-Fe-Ni High Entropy System. SSRN Electronic Journal, 0, , . | 0.4 | 0 |
| 53 | Anomalous Effect of Lattice Misfit on the Coarsening Behavior of Multicomponent L12 Phase. SSRN Electronic Journal, 0, , . | 0.4 | 0 |
| 54 | Elemental Partitioning as a Route to Design Precipitation-Hardened High Entropy Alloys. SSRN Electronic Journal, 0, , . | 0.4 | 0 |