Junyang He

List of Publications by Year
in descending order

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48 papers	7,735 citations	172207 29 h-index	197535 49 g-index
49 all docs	49 docs citations	49 times ranked	3319 citing authors

#	Article	IF	Citations
1	A precipitation-hardened high-entropy alloy with outstanding tensile properties. Acta Materialia, 2016, 102, 187-196.	3.8	1,665
2	Effects of Al addition on structural evolution and tensile properties of the FeCoNiCrMn high-entropy alloy system. Acta Materialia, 2014, 62, 105-113.	3.8	1,036
3	Ductile CoCrFeNiMox high entropy alloys strengthened by hard intermetallic phases. Acta Materialia, 2016, 116, 332-342.	3.8	670
4	Grain growth and the Hallâ€“Petch relationship in a high-entropy FeCrNiCoMn alloy. Scripta Materialia, 2013, 68, 526-529.	2.6	650
5	Phaseâ€Transformation Ductilization of Brittle Highâ€Entropy Alloys via Metastability Engineering. Advanced Materials, 2017, 29, 1701678.	11.1	421
6	Effects of Nb additions on the microstructure and mechanical property of CoCrFeNi high-entropy alloys. Intermetallics, 2015, 60, 1-8.	1.8	326
7	Stacking fault energy of face-centered-cubic high entropy alloys. Intermetallics, 2018, 93, 269-273.	1.8	312
8	Steady state flow of the FeCoNiCrMn high entropy alloy at elevated temperatures. Intermetallics, 2014, 55, 9-14.	1.8	284
9	Precipitation behavior and its effects on tensile properties of FeCoNiCr high-entropy alloys. Intermetallics, 2016, 79, 41-52.	1.8	225
10	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.	2.6	225
11	Atomic-scale grain boundary engineering to overcome hot-cracking in additively-manufactured superalloys. Acta Materialia, 2019, 177, 209-221.	3.8	165
12	Spherical nanoindentation creep behavior of nanocrystalline and coarse-grained CoCrFeMnNi high-entropy alloys. Acta Materialia, 2016, 109, 314-322.	3.8	156
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.	2.6	137
14	Tribological behavior of an AlCoCrFeNi2.1 eutectic high entropy alloy sliding against different counterfaces. Tribology International, 2021, 153, 106599.	3.0	112
15	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.	1.2	101
16	Shock compression response of high entropy alloys. Materials Research Letters, 2016, 4, 226-232.	4.1	100
17	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.	2.6	91
18	Dynamic deformation behavior of a face-centered cubic FeCoNiCrMn high-entropy alloy. Science Bulletin, 2018, 63, 362-368.	4.3	86

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19	Solving the strength-ductility tradeoff in the medium-entropy NiCoCr alloy via interstitial strengthening of carbon. Intermetallics, 2019, 106, 77-87.	1.8	77
20	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.	2.6	75
21	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.	2.6	69
22	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.	3.8	65
23	The Phase Competition and Stability of High-Entropy Alloys. Jom, 2014, 66, 1973-1983.	0.9	60
24	Snoek-type damping performance in strong and ductile high-entropy alloys. Science Advances, 2020, 6, eaba7802.	4.7	56
25	Formation mechanism of <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si1.svg"><mml:mi>Î²</mml:mi></mml:math>-carbides and deformation behavior in Si-alloyed FeMnAlC lightweight steels. Acta Materialia, 2020, 198, 258-270.	3.8	54
26	The mechanical and oxidation properties of novel B2-ordered Ti2ZrHf0.5VNb0.5Alx refractory high-entropy alloys. Materials Characterization, 2021, 178, 111287.	1.9	51
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.	3.8	45
28	Nano-graining a particle-strengthened high-entropy alloy. Scripta Materialia, 2019, 163, 24-28.	2.6	38
29	Interfaces and defect composition at the near-atomic scale through atom probe tomography investigations. Journal of Materials Research, 2018, 33, 4018-4030.	1.2	35
30	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.	5.6	32
31	On the rhenium segregation at the low angle grain boundary in a single crystal Ni-base superalloy. Scripta Materialia, 2020, 185, 88-93.	2.6	29
32	Novel (CoFe2NiV0.5Mo0.2)100â^'xNbx Eutectic High-Entropy Alloys with Excellent Combination of Mechanical and Corrosion Properties. Acta Metallurgica Sinica (English Letters), 2020, 33, 1046-1056.	1.5	28
33	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.	2.6	28
34	Additive manufacturing of CMSX-4 Ni-base superalloy by selective laser melting: Influence of processing parameters and heat treatment. Additive Manufacturing, 2019, 30, 100874.	1.7	26
35	Dual heterogeneous structure facilitating an excellent strength-ductility combination in an additively manufactured multi-principal-element alloy. Materials Research Letters, 2022, 10, 575-584.	4.1	23
36	The evolution of compositional and microstructural heterogeneities in a TaMo0.5ZrTi1.5Al0.1Si0.2 high entropy alloy. Materials Characterization, 2021, 172, 110836.	1.9	21

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37	Dynamic deformation behavior and microstructure evolution of CoCrNiMox medium entropy alloys. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2021, 827, 142048.	2.6	20
38	Tuning microstructures and improving oxidation resistance of Nb-Si based alloys via electron beam surface melting. Corrosion Science, 2020, 163, 108281.	3.0	19
39	Unveiling the mechanism of abnormal magnetic behavior of FeNiCoMnCu high-entropy alloys through a joint experimental-theoretical study. Physical Review Materials, 2020, 4, .	0.9	18
40	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.	2.6	16
41	Surface microstructure modification of hypereutectic Nb-Si based alloys to improve oxidation resistance without damaging fracture toughness. Materials Characterization, 2020, 159, 110051.	1.9	15
42	Effects of nanosized precipitates on irradiation behavior of CoCrFeNi high entropy alloys. Journal of Alloys and Compounds, 2021, 859, 158291.	2.8	15
43	Microstructure and mechanical properties of ultra-hard spherical refractory high-entropy alloy powders fabricated by plasma spheroidization. Powder Technology, 2021, 382, 550-555.	2.1	14
44	On the compositional and structural redistribution during partial recrystallisation: a case of Ïƒ-phase precipitation in a Mo-doped NiCoCr medium-entropy alloy. Scripta Materialia, 2021, 194, 113662.	2.6	11
45	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.	2.6	11
46	Investigations on microstructure and properties of Ti-Nb-Zr medium-entropy alloys for metallic biomaterials. Intermetallics, 2022, 145, 107568.	1.8	11
47	On the reversibility of the Î±2/Ï‰o phase transformation in a high Nb containing TiAl alloy during high temperature deformation. Journal of Materials Science and Technology, 2021, 93, 96-102.	5.6	6
48	On the dual-stage partial recrystallization and the corresponding mechanical response of the Cantor alloy. Journal of Alloys and Compounds, 2022, 918, 165651.	2.8	4