

Pengfei Yu

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.

33 papers	1,272 citations	14 h-index	33 g-index
33 ext. papers	1,562 ext. citations	4.3 avg, IF	4.41 L-index

#	Paper	IF	Citations
33	Synergistic strengthening of heterogeneous structures and dual-morphology nano-precipitates in Co _{1.5} CrNi _{1.5} Al _{0.2} Ti _{0.1} V _{0.1} medium-entropy alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2022 , 832, 142492	5.3	1
32	Synthesis and characterization of a ultrafine grained (CoCrFeNi) ₈₀ Mn ₁₀ Ti ₁₀ multi-principal element alloy nanocomposite. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2022 , 833, 142569	5.3	0
31	Effect of defects on the phase transition of Al _{0.1} CoCrFeNi high-entropy alloy under high pressure. <i>Intermetallics</i> , 2022 , 140, 107388	3.5	2
30	A self-sacrifice template strategy to synthesize Co-LDH/MXene for lithium-ion batteries. <i>Chemical Communications</i> , 2021 , 57, 11378-11381	5.8	3
29	Cobalt-element-free eutectic medium-entropy alloys with superior mechanical performance and processability. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2021 , 801, 140421	5.3	5
28	Ni ₃ S ₂ Nanoparticles Anchored on d-Ti ₃ C ₂ Nanosheets with Enhanced Sodium Storage. <i>ACS Applied Energy Materials</i> , 2021 , 4, 2593-2599	6.1	7
27	High pressure induced the polymorphism phase transition in the Fe ₄₀ Mn ₄₀ Co ₁₀ Cr ₁₀ multi-principal element alloy. <i>Intermetallics</i> , 2021 , 136, 107268	3.5	1
26	Interstitial carbide synergistically strengthening high-entropy alloy CoCrFeNiV _{0.5} C. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2020 , 792, 139802	5.3	11
25	Enhanced Structural Stability of Sb ₂ Se ₃ via Pressure-Induced Alloying and Amorphization. <i>Journal of Physical Chemistry C</i> , 2020 , 124, 3421-3428	3.8	4
24	Investigating the micro and nanomechanical properties of CoCrFeNi-C high-entropy alloys containing eutectic carbides. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2020 , 796, 140065	5.3	13
23	Phase evolution, microstructure, and mechanical behaviors of the CrFeNiAl _x Ti _y medium-entropy alloys. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2020 , 771, 138566	5.3	32
22	Applications of High-Pressure Technology for High-Entropy Alloys: A Review. <i>Metals</i> , 2019 , 9, 867	2.3	8
21	Anomalous microstructure and excellent mechanical behaviors of (CoCrFeNi) Cr Al high-entropy alloy induced by Cr and Al addition. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2019 , 752, 63-74	5.3	13
20	Formation, reverse transformation, and properties of ϵ martensite phase in the CoCrFeMnNi high-entropy alloy under high-pressure. <i>Journal of Alloys and Compounds</i> , 2019 , 779, 1-6	5.7	13
19	The microstructural evolution and hardness of the equiatomic CoCrCuFeNi high-entropy alloy in the semi-solid state. <i>Journal of Alloys and Compounds</i> , 2018 , 745, 75-83	5.7	34
18	High-temperature high-entropy alloys Al _x Co ₁₅ Cr ₁₅ Ni _{70-x} based on the Al-Ni binary system. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2018 , 724, 283-288	5.3	32
17	Gravity influence on solidification and segregation of CoCrFeNiCu/Y high entropy alloy. <i>Materials Chemistry and Physics</i> , 2018 , 210, 315-319	4.4	4

16	Effect of solid carburization on the surface microstructure and mechanical properties of the equiatomic CoCrFeNi high-entropy alloy. <i>Journal of Alloys and Compounds</i> , 2018 , 769, 27-36	5.7	26
15	Facile synthesis of a ZnO-BiOI p-n nano-heterojunction with excellent visible-light photocatalytic activity. <i>Beilstein Journal of Nanotechnology</i> , 2018 , 9, 789-800	3	16
14	Improved the microstructure and mechanical properties of AlFeCoNi high-entropy alloy by carbon addition. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2018 , 728, 30-39	5.3	38
13	Microstructure and mechanical behaviors of CoFeNiMnTi _x Al _{1-x} high entropy alloys. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2018 , 731, 124-130	5.3	17
12	Pressure-induced ordering phase transition in high-entropy alloy. <i>Intermetallics</i> , 2018 , 103, 63-66	3.5	7
11	Effect of Ti on microstructures and mechanical properties of high entropy alloys based on CoFeMnNi system. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2018 , 737, 198-204	5.3	34
10	Pressure-induced phase transitions in HoDyYGd Tb high-entropy alloy. <i>Materials Letters</i> , 2017 , 196, 137-140	3.5	31
9	Atomic clusters triggering nucleation and solidification of the metallic glass melt. <i>Journal of Applied Physics</i> , 2017 , 121, 115902	2.5	
8	Microstructure and mechanical behaviors of GdxCoCrCuFeNi high-entropy alloys. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2017 , 707, 708-716	5.3	28
7	The high-entropy alloys with high hardness and soft magnetic property prepared by mechanical alloying and high-pressure sintering. <i>Intermetallics</i> , 2016 , 70, 82-87	3.5	127
6	Effects of high pressure torsion on microstructures and properties of an Al _{0.1} CoCrFeNi high-entropy alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2016 , 655, 283-291	5.3	77
5	Nanoindentation Creep Behavior of an Al _{0.3} CoCrFeNi High-Entropy Alloy. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2016 , 47, 5871-5875	2.3	41
4	Special Orientation Relationships of CuZr ₂ in the Annealed Zr _{64.5} Cu _{35.5} Metallic Glass. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2015 , 46, 1855-1859 ^{2,3}	2.3	
3	Equation of State of an AlCoCrCuFeNi High-Entropy Alloy. <i>Jom</i> , 2015 , 67, 2310-2313	2.1	11
2	Effects of Aspect Ratio on the Shear Band Arrangements of Zr-Based Metallic Glasses. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2015 , 46, 1119-1124	2.3	12
1	Effect of aspect ratio and surface defects on the photocatalytic activity of ZnO nanorods. <i>Scientific Reports</i> , 2014 , 4, 4596	4.9	624