

Da Chen

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29
papers

1,536
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g-index

29
ext. papers

2,348
ext. citations

7
avg, IF

4.7
L-index

#	Paper	IF	Citations
29	Multicomponent intermetallic nanoparticles and superb mechanical behaviors of complex alloys. <i>Science</i> , 2018 , 362, 933-937	33.3	513
28	Heterogeneous precipitation behavior and stacking-fault-mediated deformation in a CoCrNi-based medium-entropy alloy. <i>Acta Materialia</i> , 2017 , 138, 72-82	8.4	286
27	Outstanding tensile properties of a precipitation-strengthened FeCoNiCrTi0.2 high-entropy alloy at room and cryogenic temperatures. <i>Acta Materialia</i> , 2019 , 165, 228-240	8.4	178
26	Development of high-strength Co-free high-entropy alloys hardened by nanosized precipitates. <i>Scripta Materialia</i> , 2018 , 148, 51-55	5.6	84
25	Design of D022 superlattice with superior strengthening effect in high entropy alloys. <i>Acta Materialia</i> , 2019 , 167, 275-286	8.4	75
24	Superior high-temperature properties and deformation-induced planar faults in a novel L12-strengthened high-entropy alloy. <i>Acta Materialia</i> , 2020 , 188, 517-527	8.4	50
23	Helium accumulation and bubble formation in FeCoNiCr alloy under high fluence He ⁺ implantation. <i>Journal of Nuclear Materials</i> , 2018 , 501, 208-216	3.3	42
22	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
21	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
20	Exceptional nanostructure stability and its origins in the CoCrNi-based precipitation-strengthened medium-entropy alloy. <i>Materials Research Letters</i> , 2019 , 7, 152-158	7.4	29
19	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
18	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
17	Abnormal β - β' phase transformation in the CoCrFeNiNb0.25 high entropy alloy. <i>Scripta Materialia</i> , 2018 , 146, 281-285	5.6	23
16	Diffusion controlled helium bubble formation resistance of FeCoNiCr high-entropy alloy in the half-melting temperature regime. <i>Journal of Nuclear Materials</i> , 2019 , 526, 151747	3.3	19
15	Microstructural response of He ⁺ irradiated FeCoNiCrTi0.2 high-entropy alloy. <i>Journal of Nuclear Materials</i> , 2018 , 510, 187-192	3.3	17
14	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
13	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

12	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
11	First-principles study of He behavior in a NiCoFeCr concentrated solid solution alloy. <i>Materials Research Letters</i> , 2019 , 7, 188-193	7.4	11
10	Highly pressurized helium nanobubbles promote stacking-fault-mediated deformation in FeNiCoCr high-entropy alloy. <i>Acta Materialia</i> , 2021 , 210, 116843	8.4	9
9	Anomalous precipitate-size-dependent ductility in multicomponent high-entropy alloys with dense nanoscale precipitates. <i>Acta Materialia</i> , 2022 , 223, 117480	8.4	8
8	Effects of minor alloying addition on He bubble formation in the irradiated FeCoNiCr-based high-entropy alloys. <i>Journal of Nuclear Materials</i> , 2020 , 542, 152458	3.3	6
7	Origin of increased helium density inside bubbles in Ni(1%)Fe alloys. <i>Scripta Materialia</i> , 2021 , 191, 1-6	5.6	6
6	The stability of γ precipitates in a multi-component FeCoNiCrTi0.2 alloy under elevated-temperature irradiation. <i>Journal of Nuclear Materials</i> , 2020 , 540, 152364	3.3	5
5	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
4	Elemental Phase Partitioning in the γ -NiCoFeCrNb High Entropy Alloy. <i>Entropy</i> , 2018 , 20,	2.8	5
3	Effect of oxygen pressure on the oxidation behavior of NiCoCr medium-entropy alloy at 800 °C. <i>Corrosion Science</i> , 2021 , 185, 109411	6.8	2
2	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
1	3D Upconversion Barcodes for Combinatory Wireless Neuromodulation in Behaving Animals.. <i>Advanced Healthcare Materials</i> , 2022 , e2200304	10.1	0