

Metastable high-entropy dual-phase alloys overcome th

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Citation Report

#	ARTICLE	IF	CITATIONS
1	Lattice Distortions in the FeCoNiCrMn High Entropy Alloy Studied by Theory and Experiment. <i>Entropy</i> , 2016, 18, 321.	1.1	151
2	Mixed-up metals make for stronger, tougher, stretchier alloys. <i>Nature</i> , 2016, 533, 306-307.	13.7	82
3	Superstrength of nanograined steel with nanoscale intermetallic precipitates transformed from shock-compressed martensitic steel. <i>Scientific Reports</i> , 2016, 6, 36810.	1.6	12
4	<i>In situ</i> mechanical characterization of CoCrCuFeNi high-entropy alloy micro/nano-pillars for their size-dependent mechanical behavior. <i>Materials Research Express</i> , 2016, 3, 094002.	0.8	47
5	Enhancing radiation tolerance by controlling defect mobility and migration pathways in multicomponent single-phase alloys. <i>Nature Communications</i> , 2016, 7, 13564.	5.8	533
6	The configurational entropy of mixing of metastable random solid solution in complex multicomponent alloys. <i>Journal of Applied Physics</i> , 2016, 120, .	1.1	36
7	Atomic displacement in the CrMnFeCoNi high-entropy alloy “ A scaling factor to predict solid solution strengthening. <i>AIP Advances</i> , 2016, 6, .	0.6	183
8	Alloy design for intrinsically ductile refractory high-entropy alloys. <i>Journal of Applied Physics</i> , 2016, 120, .	1.1	271
9	Kinetic ways of tailoring phases in high entropy alloys. <i>Scientific Reports</i> , 2016, 6, 34628.	1.6	29
10	Decomposition of the single-phase high-entropy alloy CrMnFeCoNi after prolonged anneals at intermediate temperatures. <i>Acta Materialia</i> , 2016, 112, 40-52.	3.8	653
11	The effect of interstitial carbon on the mechanical properties and dislocation substructure evolution in Fe _{40.4} Ni _{11.3} Mn _{34.8} Al _{7.5} Cr ₆ high entropy alloys. <i>Acta Materialia</i> , 2016, 120, 228-239.	3.8	373
12	Structural characterization of island $\hat{\mu}$ -martensitic plate in cobalt. <i>Materials Characterization</i> , 2016, 119, 34-39.	1.9	12
13	The thermodynamic scale of inorganic crystalline metastability. <i>Science Advances</i> , 2016, 2, e1600225.	4.7	565
14	Interstitial atoms enable joint twinning and transformation induced plasticity in strong and ductile high-entropy alloys. <i>Scientific Reports</i> , 2017, 7, 40704.	1.6	279
15	Pressure-induced fcc to hcp phase transition in Ni-based high entropy solid solution alloys. <i>Applied Physics Letters</i> , 2017, 110, .	1.5	62
16	High-temperature plastic flow of a precipitation-hardened FeCoNiCr high entropy alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2017, 686, 34-40.	2.6	69
17	Effect of Ti additions on mechanical properties of NbMoTaW and VNbMoTaW refractory high entropy alloys. <i>Intermetallics</i> , 2017, 84, 153-157.	1.8	289
18	Solid solution island of the Co-Cr-Fe-Ni high entropy alloy system. <i>Scripta Materialia</i> , 2017, 131, 42-46.	2.6	81

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19	Parametric Study of Amorphous High-Entropy Alloys formation from two New Perspectives: Atomic Radius Modification and Crystalline Structure of Alloying Elements. <i>Scientific Reports</i> , 2017, 7, 39917.	1.6	27
20	Modified embedded-atom method interatomic potentials for the Co-Cr, Co-Fe, Co-Mn, Cr-Mn and Mn-Ni binary systems. <i>Computational Materials Science</i> , 2017, 130, 121-129.	1.4	70
21	Room temperature nanoindentation creep behavior of TiZrHfBeCu(Ni) high entropy bulk metallic glasses. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2017, 688, 174-179.	2.6	56
22	Nanocrystalline High-Entropy Alloys: A New Paradigm in High-Temperature Strength and Stability. <i>Nano Letters</i> , 2017, 17, 1569-1574.	4.5	151
23	Deformation mechanisms of Mo alloyed FeCoCrNi high entropy alloy: In situ neutron diffraction. <i>Acta Materialia</i> , 2017, 127, 471-480.	3.8	153
24	Novel Fe ₃₆ Mn ₂₁ Cr ₁₈ Ni ₁₅ Al ₁₀ high entropy alloy with bcc/B2 dual-phase structure. <i>Journal of Alloys and Compounds</i> , 2017, 705, 756-763.	2.8	114
25	Dislocation mechanisms and 3D twin architectures generate exceptional strength-ductility-toughness combination in CrCoNi medium-entropy alloy. <i>Nature Communications</i> , 2017, 8, 14390.	5.8	344
26	Corrosion of Al CoCrFeNi high-entropy alloys: Al-content and potential scan-rate dependent pitting behavior. <i>Corrosion Science</i> , 2017, 119, 33-45.	3.0	535
27	Reasons for the superior mechanical properties of medium-entropy CrCoNi compared to high-entropy CrMnFeCoNi. <i>Acta Materialia</i> , 2017, 128, 292-303.	3.8	803
28	The tensile properties and serrated flow behavior of a thermomechanically treated CoCrFeNiMn high-entropy alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2017, 690, 418-426.	2.6	70
29	High-velocity deformation of Al _{0.3} CoCrFeNi high-entropy alloy: Remarkable resistance to shear failure. <i>Scientific Reports</i> , 2017, 7, 42742.	1.6	116
30	Atomic-scale dynamics of edge dislocations in Ni and concentrated solid solution NiFe alloys. <i>Journal of Alloys and Compounds</i> , 2017, 701, 1003-1008.	2.8	59
31	Reversible deformation-induced martensitic transformation in Al _{0.6} CoCrFeNi high-entropy alloy investigated by in situ synchrotron-based high-energy X-ray diffraction. <i>Acta Materialia</i> , 2017, 128, 12-21.	3.8	93
32	Seaweed eutectic-dendritic solidification pattern in a CoCrFeNiMnPd eutectic high-entropy alloy. <i>Intermetallics</i> , 2017, 85, 74-79.	1.8	55
33	Ultrastrong steel via minimal lattice misfit and high-density nanoprecipitation. <i>Nature</i> , 2017, 544, 460-464.	13.7	843
34	Size effects on the mechanical properties of nanocrystalline NbMoTaW refractory high entropy alloy thin films. <i>International Journal of Plasticity</i> , 2017, 95, 264-277.	4.1	126
35	Interpreting radiation-induced segregation and enhanced radiation tolerance of single-phase concentrated solid-solution alloys from first principles. <i>Materials Letters</i> , 2017, 202, 120-122.	1.3	6
36	The evolution of the deformation substructure in a Ni-Co-Cr equiatomic solid solution alloy. <i>Acta Materialia</i> , 2017, 132, 35-48.	3.8	357

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37	Deformation-induced phase transformation of Co ₂₀ Cr ₂₆ Fe ₂₀ Mn ₂₀ Ni ₁₄ high-entropy alloy during high-pressure torsion at 77 K. <i>Materials Letters</i> , 2017, 202, 86-88.	1.3	55
38	Grain refinement and phase transition of commercial pure zirconium processed by cold rolling. <i>Materials Characterization</i> , 2017, 129, 149-155.	1.9	36
39	Structure of the high-entropy alloy Al CrFeCoNi: fcc versus bcc. <i>Journal of Alloys and Compounds</i> , 2017, 715, 454-459.	2.8	87
40	Effect of coherent L12 nanoprecipitates on the tensile behavior of a fcc-based high-entropy alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2017, 696, 503-510.	2.6	122
41	Hydrogen effects on microstructural evolution and passive film characteristics of a duplex stainless steel. <i>Electrochemistry Communications</i> , 2017, 79, 28-32.	2.3	62
42	Mapping the world of complex concentrated alloys. <i>Acta Materialia</i> , 2017, 135, 177-187.	3.8	271
43	Thermal expansion in FeCrCoNiGa high-entropy alloy from theory and experiment. <i>Applied Physics Letters</i> , 2017, 110, .	1.5	23
44	Revealing the Microstates of Body-Centered-Cubic (BCC) Equiatomic High Entropy Alloys. <i>Journal of Phase Equilibria and Diffusion</i> , 2017, 38, 404-415.	0.5	21
45	Precipitation strengthening of ductile Cr 15 Fe 20 Co 35 Ni 20 Mo 10 alloys. <i>Scripta Materialia</i> , 2017, 137, 88-93.	2.6	157
46	Predicting solid solubility in CoCrFeNiMx (M = 4d transition metal) high-entropy alloys. <i>Journal of Applied Physics</i> , 2017, 121, .	1.1	38
47	Combinatorial exploration of the High Entropy Alloy System Co-Cr-Fe-Mn-Ni. <i>Surface and Coatings Technology</i> , 2017, 325, 174-180.	2.2	43
48	Phase Transformation Ductilization of Brittle High Entropy Alloys via Metastability Engineering. <i>Advanced Materials</i> , 2017, 29, 1701678.	11.1	421
49	High pressure synthesis of a hexagonal close-packed phase of the high-entropy alloy CrMnFeCoNi. <i>Nature Communications</i> , 2017, 8, 15634.	5.8	241
50	Nano-sized precipitation arising from partial substitution of Mo for Cr in FeCo-2V-0.5Cr alloy and its role in creep resistance. <i>Materials Characterization</i> , 2017, 130, 74-80.	1.9	1
51	Polymorphism in a high-entropy alloy. <i>Nature Communications</i> , 2017, 8, 15687.	5.8	192
52	Liquid-phase separation in undercooled CoCrCuFeNi high entropy alloy. <i>Intermetallics</i> , 2017, 86, 110-115.	1.8	30
53	100 years public-private partnership in metallurgical and materials science research. <i>Materials Today</i> , 2017, 20, 335-337.	8.3	0
54	Investigation into nanoscratching mechanical response of AlCrCuFeNi high-entropy alloys using atomic simulations. <i>Applied Surface Science</i> , 2017, 416, 470-481.	3.1	81

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56	In situ synchrotron high-energy X-ray diffraction study of microscopic deformation behavior of a hard-soft dual phase composite containing phase transforming matrix. <i>Acta Materialia</i> , 2017, 130, 297-309.	3.8	49
57	Secondary phases in Al _x CoCrFeNi high-entropy alloys: An in-situ TEM heating study and thermodynamic appraisal. <i>Acta Materialia</i> , 2017, 131, 206-220.	3.8	292
58	A TRIP-assisted dual-phase high-entropy alloy: Grain size and phase fraction effects on deformation behavior. <i>Acta Materialia</i> , 2017, 131, 323-335.	3.8	474
59	CoCrFeMnNi high entropy alloy matrix nanocomposite with addition of Al ₂ O ₃ . <i>Intermetallics</i> , 2017, 86, 104-109.	1.8	100
60	Core-shell nanoparticle arrays double the strength of steel. <i>Scientific Reports</i> , 2017, 7, 42547.	1.6	60
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63	The FCC to BCC phase transformation kinetics in an Al _{0.5} CoCrFeNi high entropy alloy. <i>Journal of Alloys and Compounds</i> , 2017, 710, 144-150.	2.8	59
64	Microstructural Modification of Laser-Deposited High-Entropy CrFeCoNiMoWC Alloy by Friction Stir Processing: Nanograin Formation and Deformation Mechanism. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2017, 48, 841-854.	1.1	28
65	Characterizing microstructural evolution in cobalt by ausforming and subsequent annealing treatments. <i>Materials Characterization</i> , 2017, 124, 145-153.	1.9	2
66	Mechanisms of radiation-induced segregation in CrFeCoNi-based single-phase concentrated solid solution alloys. <i>Acta Materialia</i> , 2017, 126, 182-193.	3.8	133
67	Deformation mechanisms in nanotwinned copper by molecular dynamics simulation. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2017, 687, 343-351.	2.6	51
68	Harnessing mechanical instabilities at the nanoscale to achieve ultra-low stiffness metals. <i>Nature Communications</i> , 2017, 8, 1137.	5.8	11
69	Strengthening in Al _{0.25} CoCrFeNi high-entropy alloys by cold rolling. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2017, 707, 593-601.	2.6	99
70	Radioactive isotopes reveal a non sluggish kinetics of grain boundary diffusion in high entropy alloys. <i>Scientific Reports</i> , 2017, 7, 12293.	1.6	100
71	TEM observation on phase separation and interfaces of laser surface alloyed high-entropy alloy coating. <i>Micron</i> , 2017, 103, 84-89.	1.1	14
72	Grain boundary mediated hydriding phase transformations in individual polycrystalline metal nanoparticles. <i>Nature Communications</i> , 2017, 8, 1084.	5.8	49

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74	High dislocation density-induced large ductility in deformed and partitioned steels. <i>Science</i> , 2017, 357, 1029-1032.	6.0	729
75	Strong and Ductile Non-equiatomic High-Entropy Alloys: Design, Processing, Microstructure, and Mechanical Properties. <i>Jom</i> , 2017, 69, 2099-2106.	0.9	222
76	Thermal Expansion, Elastic and Magnetic Properties of FeCoNiCu-Based High-Entropy Alloys Using First-Principle Theory. <i>Jom</i> , 2017, 69, 2107-2112.	0.9	36
77	Atomic-scale analysis of early-stage precipitation in Ti(Al,Si) ₃ alloy. <i>Materials and Design</i> , 2017, 134, 244-249.	3.3	14
78	Severe plastic deformation driven nanostructure and phase evolution in a Al 0.5 CoCrFeMnNi dual phase high entropy alloy. <i>Intermetallics</i> , 2017, 91, 150-157.	1.8	63
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80	Hydrogen enhances strength and ductility of an equiatomic high-entropy alloy. <i>Scientific Reports</i> , 2017, 7, 9892.	1.6	132
81	Fundamental deformation behavior in high-entropy alloys: An overview. <i>Current Opinion in Solid State and Materials Science</i> , 2017, 21, 252-266.	5.6	258
82	Microstructural origins of high strength and high ductility in an AlCoCrFeNi _{2.1} eutectic high-entropy alloy. <i>Acta Materialia</i> , 2017, 141, 59-66.	3.8	501
83	Heterogeneous precipitation behavior and stacking-fault-mediated deformation in a CoCrNi-based medium-entropy alloy. <i>Acta Materialia</i> , 2017, 138, 72-82.	3.8	553
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88	Phase stability, physical properties and strengthening mechanisms of concentrated solid solution alloys. <i>Current Opinion in Solid State and Materials Science</i> , 2017, 21, 267-284.	5.6	66
89	Nanocrystalline high-entropy alloy (CoCrFeNiAl _{0.3}) thin-film coating by magnetron sputtering. <i>Thin Solid Films</i> , 2017, 638, 383-388.	0.8	128
90	Microstructure and mechanical properties of graphene reinforced Fe ₅₀ Mn ₃₀ Co ₁₀ Cr ₁₀ high-entropy alloy composites synthesized by MA and SPS. <i>Applied Physics A: Materials Science and Processing</i> , 2017, 123, 1.	1.1	41

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93	Effects of nanotwins on the mechanical properties of Al x CoCrFeNi high entropy alloy thin films. <i>Scripta Materialia</i> , 2017, 139, 71-76.	2.6	88
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95	Ab initio assisted design of quinary dual-phase high-entropy alloys with transformation-induced plasticity. <i>Acta Materialia</i> , 2017, 136, 262-270.	3.8	275
96	Stiff, light, strong and ductile: nano-structured High Modulus Steel. <i>Scientific Reports</i> , 2017, 7, 2757.	1.6	40
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98	Cooling rate effect on microstructure and mechanical properties of Al x CoCrFeNi high entropy alloys. <i>Materials and Design</i> , 2017, 132, 392-399.	3.3	74
99	Atomic and electronic basis for the serrations of refractory high-entropy alloys. <i>Npj Computational Materials</i> , 2017, 3, .	3.5	64
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103	Local Structure and Short-Range Order in a NiCoCr Solid Solution Alloy. <i>Physical Review Letters</i> , 2017, 118, 205501.	2.9	283
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110	Cooling rate-dependent microstructure and mechanical properties of Al _{0.2} Si _{0.2} CrFeCoNiCu ₁ high entropy alloys. <i>Journal of Alloys and Compounds</i> , 2017, 694, 61-67.	2.8	42
111	Preparation and microstructure of AlCoCrFeNi high-entropy alloy complex curve coatings. <i>Materials Science and Technology</i> , 2017, 33, 559-566.	0.8	5
112	On strain hardening mechanism in gradient nanostructures. <i>International Journal of Plasticity</i> , 2017, 88, 89-107.	4.1	205
113	Annealing effect on the phase stability and mechanical properties of (FeNiCrMn) ₁₀₀ Co high entropy alloys. <i>Journal of Alloys and Compounds</i> , 2017, 695, 2945-2950.	2.8	65
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115	Design and tensile properties of a bcc Ti-rich high-entropy alloy with transformation-induced plasticity. <i>Materials Research Letters</i> , 2017, 5, 110-116.	4.1	153
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117	First-principles prediction of high-entropy-alloy stability. <i>Npj Computational Materials</i> , 2017, 3, .	3.5	87
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119	Investigation of the Microstructure Evolution in a Fe-17Mn-1.5Al-0.3C Steel via In Situ Synchrotron X-ray Diffraction during a Tensile Test. <i>Materials</i> , 2017, 10, 1129.	1.3	32
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121	Corrosion-Resistant High-Entropy Alloys: A Review. <i>Metals</i> , 2017, 7, 43.	1.0	569
122	Effects of Different Levels of Boron on Microstructure and Hardness of CoCrFeNiAl _x Cu _{0.7} Si _{0.1} High-Entropy Alloy Coatings by Laser Cladding. <i>Coatings</i> , 2017, 7, 7.	1.2	25
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124	Complex Concentrated Alloys Including High Entropy Alloys. , 2017, , 385-405.		2
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128	Tensile and shear loading of four fcc high-entropy alloys: A first-principles study. <i>Physical Review B</i> , 2018, 97, .	1.1	18
129	Corrosion behavior of an equiatomic CoCrFeMnNi high-entropy alloy compared with 304 stainless steel in sulfuric acid solution. <i>Corrosion Science</i> , 2018, 134, 131-139.	3.0	465
130	Cryogenic-deformation-induced phase transformation in an FeCoCrNi high-entropy alloy. <i>Materials Research Letters</i> , 2018, 6, 236-243.	4.1	164
131	Microstructures and mechanical properties of a welded CoCrFeMnNi high-entropy alloy. <i>Science and Technology of Welding and Joining</i> , 2018, 23, 585-595.	1.5	70
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134	Comparison of the structure and properties of equiatomic and non-equiatomic multicomponent alloys. <i>Materials Science and Technology</i> , 2018, 34, 988-991.	0.8	18
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138	Efficient exploration of the High Entropy Alloy composition-phase space. <i>Acta Materialia</i> , 2018, 152, 41-57.	3.8	62
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140	Effects of milling time, sintering temperature, Al content on the chemical nature, microhardness and microstructure of mechanochemically synthesized FeCoNiCrMn high entropy alloy. <i>Journal of Alloys and Compounds</i> , 2018, 749, 834-843.	2.8	31
141	A new type of (TiZrNbTaHf)N/MoN nanocomposite coating: Microstructure and properties depending on energy of incident ions. <i>Composites Part B: Engineering</i> , 2018, 146, 132-144.	5.9	60
142	Boron doped ultrastrong and ductile high-entropy alloys. <i>Acta Materialia</i> , 2018, 151, 366-376.	3.8	230
143	Simultaneously enhanced strength and ductility for 3D-printed stainless steel 316L by selective laser melting. <i>NPG Asia Materials</i> , 2018, 10, 127-136.	3.8	385
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147	Strengthening of Fe ₄₀ Mn ₄₀ Co ₁₀ Cr ₁₀ high entropy alloy via Mo/C alloying. <i>Materials Letters</i> , 2018, 219, 85-88.	1.3	40
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149	Homogenization of Al CoCrFeNi high-entropy alloys with improved corrosion resistance. <i>Corrosion Science</i> , 2018, 133, 120-131.	3.0	283
150	Heavy carbon alloyed FCC-structured high entropy alloy with excellent combination of strength and ductility. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2018, 716, 150-156.	2.6	144
151	Deformation mechanisms and slip-twin interactions in nanotwinned body-centered cubic iron by molecular dynamics simulations. <i>Computational Materials Science</i> , 2018, 147, 34-48.	1.4	14
152	Microstructural evolution and mechanical performance of carbon-containing CoCrFeMnNi-C high entropy alloys. <i>Journal of Alloys and Compounds</i> , 2018, 743, 115-125.	2.8	107
153	Transformation induced softening and plasticity in high entropy alloys. <i>Acta Materialia</i> , 2018, 147, 35-41.	3.8	163
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201	Equilibrium high entropy alloy phase stability from experiments and thermodynamic modeling. <i>Scripta Materialia</i> , 2018, 146, 5-8.	2.6	83
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446	CoCrFeMnNi high-entropy alloys reinforced with Laves phase by adding Nb and Ti elements. <i>Journal of Materials Research</i> , 2019, 34, 1011-1020.	1.2	46
447	Optimizing mechanical properties of Fe _{26.7} Co _{26.7} Ni _{26.7} Si _{8.9} B ₁₁ high entropy alloy by inducing hypoeutectic to quasi-duplex microstructural transition. <i>Scientific Reports</i> , 2019, 9, 360.	1.6	9
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453	Fine-structured CoCrFeNiMn high-entropy alloy matrix composite with 12 wt% TiN particle reinforcements via selective laser melting assisted additive manufacturing. <i>Materials Letters</i> , 2019, 252, 88-91.	1.3	73
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598	Abundant polymorphic transitions in the Al _{0.6} CoCrFeNi high-entropy alloy. <i>Materials Today Physics</i> , 2019, 8, 1-9.	2.9	27
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1861	A perspective on investigating transition metal high-entropy alloys for high-temperature applications. <i>Acta Materialia</i> , 2022, 240, 118313.	3.8	14
1862	Chemical ordering effect on the radiation resistance of a CoNiCrFeMn high-entropy alloy. <i>Computational Materials Science</i> , 2022, 214, 111764.	1.4	7
1863	High corrosion resistance duplex fcc+hcp cobalt based entropic alloys: An experimental and theoretical investigation. <i>Materials and Design</i> , 2022, 223, 111166.	3.3	7
1864	Microstructure and corrosion investigation of FeCoCrNiMo _{0.5} (MnAl) _{0.3} high entropy alloy produced by 316L stainless steel scrap. <i>Materials Today Communications</i> , 2022, 33, 104360.	0.9	4
1865	Effect of short-range ordering and grain boundary segregation on shear deformation of CoCrFeNi high-entropy alloys with Al addition. <i>Computational Materials Science</i> , 2022, 215, 111762.	1.4	20
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1867	Hydrogen-induced phase boundary Cr-segregation in high-entropy alloy AlCoCrFeNi _{2.1} . <i>Materialia</i> , 2022, 26, 101556.	1.3	3
1868	Development of a non-equimolar AlCrCuFeNi high-entropy alloy and its corrosive response to marine environment under different temperatures and chloride concentrations. <i>Journal of Alloys and Compounds</i> , 2022, 928, 167112.	2.8	15
1869	Accelerated emergence of CoNi-based medium-entropy alloys with emphasis on their mechanical properties. <i>Current Opinion in Solid State and Materials Science</i> , 2022, 26, 101032.	5.6	17
1870	Segregation kinetics of immiscible alloying elements for understanding phase separation in multicomponent alloys. <i>Scripta Materialia</i> , 2023, 222, 115060.	2.6	1
1871	Manipulation of precipitation and mechanical properties of precipitation-strengthened medium-entropy alloy. <i>Scripta Materialia</i> , 2023, 222, 115057.	2.6	15
1872	Phase reversion-induced heterogeneous structure in a ferrous medium-entropy alloy via cryorolling and annealing. <i>Scripta Materialia</i> , 2023, 222, 115004.	2.6	19
1873	Machine learning for high-entropy alloys: Progress, challenges and opportunities. <i>Progress in Materials Science</i> , 2023, 131, 101018.	16.0	54
1874	Heterostructured materials. <i>Progress in Materials Science</i> , 2023, 131, 101019.	16.0	264
1875	Cooperative effect of Cr and Al elements on passivation enhancement of eutectic high-entropy alloy AlCoCrFeNi _{2.1} with precipitates. <i>Journal of Materials Science and Technology</i> , 2023, 136, 97-108.	5.6	37
1876	Multi-Objective Learning. <i>Synthesis Lectures on Materials and Optics</i> , 2020, , 117-134.	0.2	0
1877	The Status of Bulk Metallic Glass and High Entropy Alloys Research. , 2022, , 233-278.		0

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1879	In-Situ Synchrotron X-Ray Diffraction Study on Stress-Induced Martensite Transformation in Maraging Steel with High Strength and Good Ductility. SSRN Electronic Journal, 0, , .	0.4	0
1880	Mechanical Properties of Complex Concentrated Alloys: Implications for Structural Integrity. , 2023, , 209-239.		2
1881	Enhanced Strength and Ductility by a Core-Shell-Like Distributed Laves Phase in Cr ₁₅ Ti ₂₅ Zr ₂₅ Hf ₂₅ Sc ₁₀ High-Entropy Alloy. SSRN Electronic Journal, 0, , .	0.4	0
1882	Critical Review of Limitations of Equiatomic Composition Alloying Strategy of Complex Concentrated Alloys. , 2023, , 122-135.		2
1883	Enhancement in Impact Toughness of CoCrFeMnNi High-Entropy Alloy Via Nitrogen Addition. SSRN Electronic Journal, 0, , .	0.4	0
1884	A Perspective on Investigating Transition Metal High-Entropy Alloys for High-Temperature Applications. SSRN Electronic Journal, 0, , .	0.4	0
1885	Role of Strain Rate in Phase Stability and Deformation Mechanism of Non-Equiatomic Fe ₃₈ Xmn ₃₀ Co ₁₅ Cr ₁₅ Ni ₂ Gdx High-Entropy Alloy. SSRN Electronic Journal, 0, , .	0.4	0
1886	The Short-Term Splitting and Long-Term Stability of Cuboidal Nano-Particles in Ni ₄₄ Co ₂₂ Cr ₂₂ Al ₆ Nb ₆ Multi-Principal Element Alloy. SSRN Electronic Journal, 0, , .	0.4	0
1887	Face-Centered Cubic High-Entropy Alloys. Materials Horizons, 2022, , 35-52.	0.3	0
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1889	Critical Review of Factors Hindering Scalability of Complex Concentrated Alloys. , 2023, , 103-121.		2
1890	In-Situ Synchrotron X-Ray Diffraction Study on Stress-Induced Martensite Transformation in Maraging Steel with High Strength and Good Ductility. SSRN Electronic Journal, 0, , .	0.4	0
1891	Influence of Electron Beam Treatment on the Defect Substructure of a High-Entropy Co-Cr-Fe-Mn-Ni Alloy. Steel in Translation, 2022, 52, 375-379.	0.1	2
1892	High entropy alloy coatings for biomedical applications: A review. , 2023, 1, 100009.		4
1893	Effect of Weldability on Metallurgical, Mechanical, and Corrosion Behaviour of High Entropy Alloy_A Review. Lecture Notes in Mechanical Engineering, 2023, , 151-161.	0.3	0
1894	A Nanomechanical Testing Framework Yielding Front&Rear-Sided, High-Resolution, Microstructure-Correlated SEM-DIC Strain Fields. Experimental Mechanics, 2022, 62, 1625-1646.	1.1	9
1895	Improved Plasticity of Fe ₂₅ Co ₂₅ Ni ₂₅ (Si _{0.3} B _{0.7}) ₂₅ High Entropy Bulk Metallic Glass through the Addition of Cu. Acta Metallurgica Sinica (English Letters), 2023, 36, 417-425.	1.5	2

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1897	Research on the dielectric energy storage characteristics of the [(Bi _{0.5} Na _{0.5}) _{0.2} Ba _{0.2} Sr _{0.2} Ca _{0.2} Mg _{0.2}]TiO ₃ equal ratio high-entropy ceramics. <i>Journal of Materials Science: Materials in Electronics</i> , 2022, 33, 23792-23805.	1.1	6
1898	Grain size-dependent phase-specific deformation mechanisms of the Fe ₅₀ Mn ₃₀ Co ₁₀ Cr ₁₀ high entropy alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2022, 854, 143867.	2.6	4
1899	Remarkable Enhanced Mechanical Properties of TiAlCrNbV Medium-Entropy Alloy with Zr Additions. <i>Materials</i> , 2022, 15, 6324.	1.3	1
1900	A nanodispersion-in-nanograins strategy for ultra-strong, ductile and stable metal nanocomposites. <i>Nature Communications</i> , 2022, 13, .	5.8	22
1901	Pressure Engineering Promising Transparent Oxides with Large Conductivity Enhancement and Strong Thermal Stability. <i>Advanced Science</i> , 0, , 2202973.	5.6	1
1902	A cluster-plus-glue-atom composition design approach designated for multi-principal element alloys. <i>Rare Metals</i> , 2022, 41, 3839-3849.	3.6	0
1903	Non-Hookean large elastic deformation in bulk crystalline metals. <i>Nature Communications</i> , 2022, 13, .	5.8	8
1904	Medium-Entropy Nitride ZrNbMo-W-N Nanofilm-Based Substrate-Independent Selective Solar Absorber by a Cosputtering Method. <i>ACS Applied Energy Materials</i> , 2022, 5, 11517-11525.	2.5	3
1905	Work hardening behavior of hot-rolled metastable Fe ₅₀ Co ₂₅ Ni ₁₀ Al ₅ Ti ₅ Mo ₅ medium-entropy alloy: in situ neutron diffraction analysis. <i>Science and Technology of Advanced Materials</i> , 2022, 23, 579-586.	2.8	6
1906	Effect of Nitrogen Doping on the Structure and Mechanical Properties of the Fe ₄₀ Mn ₄₀ Cr ₁₀ Co ₁₀ High-Entropy Alloy. <i>Metals</i> , 2022, 12, 1599.	1.0	6
1907	Phase transformation mediated anomalous plasticity of titanium under severe loading conditions. <i>International Journal of Mechanical Sciences</i> , 2023, 237, 107799.	3.6	3
1908	Review on magnetocaloric high-entropy alloys: Design and analysis methods. <i>Journal of Materials Research</i> , 2023, 38, 37-51.	1.2	22
1909	Deformation Behavior of Two-Phase Gradient Nanograined Fe ₉₅ Ni ₅ Alloys under Different Types of Loading. <i>Metals</i> , 2022, 12, 1492.	1.0	1
1910	Design metastability in high-entropy alloys by tailoring unstable fault energies. <i>Science Advances</i> , 2022, 8, .	4.7	14
1911	Integrating machine learning with mechanistic models for predicting the yield strength of high entropy alloys. <i>Journal of Applied Physics</i> , 2022, 132, .	1.1	12
1912	Solid Solution Strengthening in High-Entropy Alloys. , 0, , .		2
1913	Robust spin glass state with exceptional thermal stability in a chemically complex alloy. <i>Physical Review Materials</i> , 2022, 6, .	0.9	1

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1915	Mechanical properties of a two-phase high-entropy Fe ₅₀ Mn ₃₀ Co ₁₀ Cr ₁₀ alloy down to ultralow temperatures. Low Temperature Physics, 2022, 48, 845-852.	0.2	2
1916	Mn content optimum on microstructures and mechanical behavior of Fe-based medium entropy alloys. Materials and Design, 2022, 223, 111241.	3.3	5
1917	Temperature dependence of the tensile and thermal fatigue cracking properties of laser-deposited cobalt-based coatings for brake disc application. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2022, 858, 144135.	2.6	3
1918	Design of oxygen-doped TiZrHfNbTa refractory high entropy alloys with enhanced strength and ductility. Materials and Design, 2022, 223, 111239.	3.3	10
1919	A Hall-Petch study of the high toughness Cr ₄₀ Co ₃₀ Ni ₃₀ multi-principal element alloy. Journal of Materials Research, 2023, 38, 215-227.	1.2	2
1920	Synergism between coherent precipitation strengthening and FCC-HCP type transformation-induced plasticity. Materials and Design, 2022, 223, 111212.	3.3	3
1921	The grain size effect on corrosion property of Al	3.0	22
1922	Effect of carbon upon mechanical properties and deformation mechanisms of TWIP and TRIP-assisted high entropy alloys. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2022, 857, 144126.	2.6	7
1923	Role of strain rate in phase stability and deformation mechanism of non-equiatomic Fe _{38-x} Mn ₃₀ Co ₁₅ Cr ₁₅ Ni ₂ Gdx high-entropy alloy. Materials Characterization, 2022, 194, 112356.	1.9	3
1924	Determination of peak ordering in the CrCoNi medium-entropy alloy via nanoindentation. Acta Materialia, 2022, 241, 118380.	3.8	26
1925	A comparison of the mechanical and corrosion behavior of Fe _{49.5} Mn ₂₅ Cr ₁₅ Ni ₁₀ Co _{0.5} medium-entropy alloy with its subsystems steels. Intermetallics, 2022, 151, 107736.	1.8	2
1926	Excellent room-temperature tensile ductility in as-cast Ti ₃₇ V ₁₅ Nb ₂₂ Hf ₂₃ W ₃ refractory high entropy alloys. Intermetallics, 2022, 151, 107735.	1.8	23
1927	Coupling precipitation strengthening and transformation induced plasticity to produce a superior combination of strength and ductility in a high entropy alloy. Journal of Alloys and Compounds, 2022, 929, 167356.	2.8	3
1928	Si-addition contributes to overcoming the strength-ductility trade-off in high-entropy alloys. International Journal of Plasticity, 2022, 159, 103443.	4.1	37
1929	Microstructure and mechanical properties of in-situ TiC particle-reinforced Fe _{1.2} MnCo _{0.8} medium-entropy alloy matrix composites. Materials Today Communications, 2022, 33, 104420.	0.9	1
1930	Accurate ab initio modeling of solid solution strengthening in high entropy alloys. Physical Review Materials, 2022, 6, .	0.9	2
1931	Formation mechanism of hierarchical twins in the CoCrNi medium entropy alloy. Journal of Materials Science and Technology, 2023, 140, 19-32.	5.6	20

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1933	Al _{0.25} CoCrFeNiV High Entropy Alloy Coating Deposited by Laser Cladding on Stainless Steel. <i>Materials</i> , 2022, 15, 7058.	1.3	4
1934	Versatile Medium Entropy Ti-Based Bulk Metallic Glass Composites. <i>Materials</i> , 2022, 15, 7304.	1.3	0
1935	Strain Rate and Temperature Effects on Hydrogen Embrittlement of Stable and Metastable High-Entropy Alloys. <i>Physical Mesomechanics</i> , 2022, 25, 385-392.	1.0	1
1937	Recent Advances in W-Containing Refractory High-Entropy Alloys—An Overview. <i>Entropy</i> , 2022, 24, 1553.	1.1	15
1938	An Odyssey from High Entropy Alloys to Complex Concentrated Alloys. <i>Indian Institute of Metals Series</i> , 2023, , 159-180.	0.2	1
1939	Microstructure and Wear Resistance of FeCuNiTiAl High-Entropy Alloy Coating on Ti6Al4V Substrate Fabricated by Laser Metal Deposition. <i>Lubricants</i> , 2022, 10, 263.	1.2	4
1940	Edge-dislocation-induced ultrahigh elevated-temperature strength of HfMoNbTaW refractory high-entropy alloys. <i>Science and Technology of Advanced Materials</i> , 2022, 23, 642-654.	2.8	7
1941	Comprehensive study on structure, shielding properties of Ga-In-Sn-Bi-Zn alloys: potential use for low energy radiation. <i>Physica Scripta</i> , 2022, 97, 115302.	1.2	1
1942	Microstructural evolution and solidification behavior of (CoCrNi) _{100-x} Nb _x medium-entropy-alloys. <i>International Journal of Materials Research</i> , 2022, 113, 984-991.	0.1	2
1943	Hierarchical nano-martensite-engineered a low-cost ultra-strong and ductile titanium alloy. <i>Nature Communications</i> , 2022, 13, .	5.8	19
1944	Phase and polarization modulation in two-dimensional In ₂ Se ₃ via in situ transmission electron microscopy. <i>Science Advances</i> , 2022, 8, .	4.7	18
1945	Effects of V Addition on Microstructural Evolution and Mechanical Properties of AlCrFe ₂ Ni ₂ High-Entropy Alloys. <i>Acta Metallurgica Sinica (English Letters)</i> , 2023, 36, 391-404.	1.5	2
1946	Crystal Plasticity Model Analysis of the Effect of Short-Range Order on Strength-Plasticity of Medium Entropy Alloys. <i>Metals</i> , 2022, 12, 1757.	1.0	1
1947	Effects of heterogeneous ultrafine grain and strain rate on mechanical properties of CoCrNi medium entropy alloy. <i>Journal of Alloys and Compounds</i> , 2022, , 167791.	2.8	5
1948	Low activation V-Fe-Cr-Mn high-entropy alloys with exceptional strength. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2022, 860, 144243.	2.6	4
1949	Elucidating the Origination of Annealing-Induced Hardening in an Equiatomic Medium-Entropy Alloy. <i>Advanced Engineering Materials</i> , 2023, 25, .	1.6	1
1950	Effect of Precipitation Behavior on Mechanical Properties of a Nb-Containing CoCrNi-Based High-Entropy Alloy. <i>Metals and Materials International</i> , 2023, 29, 674-692.	1.8	7

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1952	High-Speed Tensile Deformation Behavior of a Metastable 18Crâ€“6Niâ€“0.2Nâ€“0.1C Steel. ISIJ International, 2022, 62, 2054-2060.	0.6	0
1953	Steels for rail axles - an overview. Critical Reviews in Solid State and Materials Sciences, 0, , 1-31.	6.8	3
1954	Homogeneous $\hat{\pm}$ -precipitation and enhanced plasticity in Tiâ€“6Crâ€“5Moâ€“5Vâ€“4Al high-strength metastable titanium alloy with heterogenous $\hat{2}$ -structure. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2022, 858, 144180.	2.6	8
1955	An experimentally driven high-throughput approach to design refractory high-entropy alloys. Materials and Design, 2022, 223, 111259.	3.3	3
1956	A novel high-entropy alloy with multi-strengthening mechanisms: Activation of TRIP effect in C-doped high-entropy alloy. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2022, 859, 144220.	2.6	6
1957	Achieving metal-like malleability and ductility in Ag ₂ Te _{1-x} S _x inorganic thermoelectric semiconductors with high mobility. Innovation(China), 2022, 3, 100341.	5.2	10
1958	High-ductility aluminium alloys including small sub-grains with wide low angle boundary. Journal of Alloys and Compounds, 2023, 934, 167868.	2.8	4
1959	Microstructure and mechanical properties of bioinspired laminated CoCrFeNiMn high entropy alloy matrix composites reinforced with graphene. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2022, 859, 144198.	2.6	10
1960	Interstitial-driven local chemical order enables ultrastrong face-centered cubic multicomponent alloys. Acta Materialia, 2023, 243, 118495.	3.8	17
1961	Tailored rapid annealing to obtain heterostructured ultra-high-strength lightweight Ti-rich medium-entropy alloys. Results in Materials, 2022, 16, 100342.	0.9	0
1962	Unusual phase transformation and novel hardening mechanisms upon impact loading in a medium entropy alloy with dual heterogeneous structure. Intermetallics, 2022, 151, 107747.	1.8	4
1963	Enhancement in impact toughness of CoCrFeMnNi high-entropy alloy via nitrogen addition. Journal of Alloys and Compounds, 2023, 932, 167615.	2.8	8
1964	Effects of deformation-induced martensitic transformation on quasi-static and dynamic compressive properties of metastable SiVCrMnFeCo high-entropy alloys. Journal of Alloys and Compounds, 2023, 931, 167543.	2.8	1
1965	Enhanced strength and ductility by a core-shell-like distributed Laves phase in Cr ₁₅ Ti ₂₅ Zr ₂₅ Hf ₂₅ Sc ₁₀ high-entropy alloy. Intermetallics, 2023, 152, 107753.	1.8	1
1966	Microstructure and mechanical properties of TiZrVMnCu high entropy alloy by addition of Er element. Materials Letters, 2023, 330, 133322.	1.3	1
1967	Circumventing strength-ductility paradox in high entropy alloys through deformation processing. Journal of Alloys and Compounds, 2023, 933, 167750.	2.8	1
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1969	Mechanical property regulation of transformation induced plasticity (TRIP) multi-principal element alloys through multi-phase microstructural design. <i>Intermetallics</i> , 2023, 152, 107754.	1.8	1
1970	Ductilizing Ti19Zr19Hf19Nb19TM5Be19 (TM = Fe, Co, Ni and Cu) high-entropy bulk metallic glass composites via in-situ precipitated refractory high-entropy alloy dendrites. <i>Intermetallics</i> , 2023, 152, 107755.	1.8	2
1971	Machine learning prediction of the mechanical properties of refractory multicomponent alloys based on a dataset of phase and first principles simulation. , 0, 1, .		0
1972	Solidification segregation-driven microstructural evolution of trace yttrium-alloyed TaMoNbZrTiAl refractory high entropy alloys. <i>Materials Characterization</i> , 2022, 194, 112495.	1.9	4
1973	Ultrahigh-temperature melt printing of multi-principal element alloys. <i>Nature Communications</i> , 2022, 13, .	5.8	5
1974	Accelerating matrix/boundary precipitations to explore high-strength and high-ductile Co34Cr32Ni27Al3.5Ti3.5 multicomponent alloys through hot extrusion and annealing. <i>Journal of Materials Science and Technology</i> , 2023, 143, 62-83.	5.6	10
1975	Mechanically derived short-range order and its impact on the multi-principal-element alloys. <i>Nature Communications</i> , 2022, 13, .	5.8	28
1976	Compositional undulation induced strain hardening and delocalization in multi-principal element alloys. <i>International Journal of Mechanical Sciences</i> , 2023, 241, 107931.	3.6	4
1977	Gradient plastic zone model in equiatomic face-centered cubic alloys. <i>Journal of Materials Science</i> , 0, , .	1.7	0
1978	Microstructure Evolution and Mechanical Properties of Ultra-Fine Grain AlCrFe2Ni2Wx High-Entropy Alloys. <i>Metals and Materials International</i> , 2023, 29, 1614-1624.	1.8	3
1979	Effect of temperature on the tribocorrosion and high-temperature tribological behaviour of strong amorphization AlCrNiTiV high entropy alloy film in a multifactor environment. <i>Ceramics International</i> , 2023, 49, 6880-6890.	2.3	3
1980	Room-temperature Superformability in Novel As-cast High-Entropy Alloy During Compressive Loading. <i>Advanced Engineering Materials</i> , 2023, 25, .	1.6	0
1981	Grain refinement and abnormal peritectic solidification in W NbTiZr high-entropy alloys. <i>Materials and Design</i> , 2022, 224, 111381.	3.3	6
1982	Explainable artificial intelligence approach for yield strength prediction in as-cast multi-principal element alloys. <i>Materialia</i> , 2022, 26, 101628.	1.3	3
1983	Impact of different Cr contents on microstructural evolution and mechanical behaviour of CoCrxCuFeMnNiV high-entropy alloys. <i>Journal of Materials Research and Technology</i> , 2022, 21, 4577-4590.	2.6	8
1984	High Entropy Approach to Engineer Strongly Correlated Functionalities in Manganites. <i>Advanced Materials</i> , 2023, 35, .	11.1	14
1985	Comparative Measurements and Analysis of the Electrical Properties of Nanocomposites TixZr1-xC+1±-Cy (0.0 ≤ x ≤ 1.0). <i>Materials</i> , 2022, 15, 7908.	1.3	2
1986	Monitoring the effect of alloying elements segregation in Fe Mn Ni Al high Entropy alloy. <i>Journal of Physics: Conference Series</i> , 2022, 2368, 012010.	0.3	1

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1988	Hetero-deformation-induced strengthening behavior of as-annealed Co ₃₀ Cr ₃₀ Fe ₁₈ Ni ₁₈ Mo ₄ high entropy alloy by metastable γ' phase. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2022, 860, 144296.	2.6	11
1989	Enhanced strength-ductility synergy in a Ta-doped CoCrNi medium-entropy alloy with a dual heterogeneous structure. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2022, 860, 144293.	2.6	12
1990	A comparative investigation of shock response in high entropy Cantor alloys by MEAM and LJ type potentials. Materials Today Communications, 2022, 33, 104843.	0.9	1
1991	Hetero-deformation induced (HDI) strengthening in directed energy deposited SS316L: A nanoindentation-based investigation. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2022, 860, 144280.	2.6	7
1992	Reassessment of mobility parameters for Cantor High Entropy Alloys through an automated procedure. Calphad: Computer Coupling of Phase Diagrams and Thermochemistry, 2022, 79, 102498.	0.7	3
1993	Medium/High \hat{e} Entropy Amalgamated Core/Shell Nanoplate Achieves Efficient Formic Acid Catalysis for Direct Formic Acid Fuel Cell. Angewandte Chemie, 0, , .	1.6	2
1994	Medium/High \hat{e} Entropy Amalgamated Core/Shell Nanoplate Achieves Efficient Formic Acid Catalysis for Direct Formic Acid Fuel Cell. Angewandte Chemie - International Edition, 2023, 62, .	7.2	35
1995	Design of metastable complex-concentrated alloys through composition tailoring. Materials and Design, 2022, 224, 111391.	3.3	3
1996	Ultra-strong heavy-drawn eutectic high entropy alloy wire. Acta Materialia, 2023, 243, 118515.	3.8	18
1997	Inherent and multiple strain hardening imparting synergistic ultrahigh strength and ductility in a low stacking faulted heterogeneous high-entropy alloy. Acta Materialia, 2023, 243, 118516.	3.8	30
1998	Enhanced fatigue resistance of a face-centered-cubic single-phase Al _{0.3} CoCrFeNi high-entropy alloy through planar deformation characteristic. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2023, 862, 144499.	2.6	9
1999	High Entropy Materials: Basic Concepts. Materials Horizons, 2022, , 27-46.	0.3	3
2000	Structural Properties. Materials Horizons, 2022, , 195-257.	0.3	0
2001	Microstructure and mechanical properties of SiCp/Al composite fabricated by concurrent wire-powder feeding laser deposition. Journal of Materials Research and Technology, 2023, 22, 66-79.	2.6	5
2002	Combination of annealing and laser shock peening for tailoring microstructure and mechanical properties of laser directed energy deposited CrMnFeCoNi high-entropy alloy. Additive Manufacturing, 2023, 61, 103345.	1.7	3
2003	Unusual work hardening rate of a 3D gradient high purity Ti fabricated by laser surface treatment. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2023, 862, 144417.	2.6	2
2004	Heavy ion irradiation effects on CrFeMnNi and AlCrFeMnNi high entropy alloys. Journal of Nuclear Materials, 2023, 574, 154163.	1.3	7

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2005	Creep properties and deformation mechanisms of a Ni ₂ Co ₁ Fe ₁ V _{0.5} Mo _{0.2} medium-entropy alloy. <i>Acta Materialia</i> , 2023, 245, 118590.	3.8	11
2006	A remarkable toughening high-entropy-alloy wire with a bionic bamboo fiber heterogeneous structure. <i>Scripta Materialia</i> , 2023, 226, 115234.	2.6	11
2007	Taylor impact of high-entropy alloy Al _{0.1} CoCrFeNi: Dynamic severe plastic deformation and bulk gradient structure. <i>Journal of Alloys and Compounds</i> , 2023, 936, 168261.	2.8	9
2008	Microstructure and mechanical property of Al ₅₆ -Co ₂₄ Cr ₂₀ Ni eutectic high-entropy alloys with an ordered FCC/BCT phase structure. <i>Journal of Alloys and Compounds</i> , 2023, 936, 168194.	2.8	8
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2014	Enhanced mechanical properties of a carbon and nitrogen co-doped interstitial high-entropy alloy via tuning ultrafine-grained microstructures. <i>Journal of Materials Science and Technology</i> , 2023, 144, 128-137.	5.6	10
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2034	Influence of chemistry and structure on interfacial segregation in NbMoTaW with high-throughput atomistic simulations. <i>Journal of Applied Physics</i> , 2022, 132, .	1.1	5
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2038	Application of HTS in Material Preparation and New Devices. <i>Nanostructure Science and Technology</i> , 2023, , 145-192.	0.1	0
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2072	Enhanced strength-ductility synergy of medium-entropy alloys via multiple level gradient structures. <i>International Journal of Plasticity</i> , 2023, 164, 103592.	4.1	14
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2098	Semi-solid thixotropic behavior and microstructure evolution of cold deformed CoCrCu _{1.2} FeNi high-entropy alloy. <i>Materials Characterization</i> , 2023, 201, 112926.	1.9	2
2099	Atomistic simulations of martensitic transformation processes for metastable FeMnCoCr high-entropy alloy. <i>Science China Technological Sciences</i> , 2023, 66, 998-1006.	2.0	5
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2104	Effect of warm-rolling on microstructure and superior mechanical properties of a cost-effective AlCrFe ₂ Ni ₂ high entropy alloy. <i>Journal of Alloys and Compounds</i> , 2023, 948, 169783.	2.8	3
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2117	Tuning microstructure and mechanical and wear resistance of ZrNbTiMo refractory high-entropy alloy films via sputtering power. <i>Frontiers in Materials</i> , 0, 10, .	1.2	2
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2136	A novel high-entropy alloy with exceptional strength and elongation via bimodal grains and lamellar nano-precipitates. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2023, 870, 144851.	2.6	5
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2142	Effects of Working Temperature on Microstructure and Hardness of Ti-6Al-4V Alloy Subjected to Asymmetrical Rolling. <i>Journal of Materials Engineering and Performance</i> , 2024, 33, 1218-1228.	1.2	2
2143	Microstructure and Wear Behavior of Al _{0.25} CoCrFeNiSi _{0.6} High-Entropy Alloy Coating Deposited on Stainless Steel by Detonation Spraying. <i>Journal of Thermal Spray Technology</i> , 2023, 32, 1220-1229.	1.6	3
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