

Jongun Moon

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50
papers

1,256
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23
h-index

34
g-index

51
ext. papers

1,813
ext. citations

5.3
avg, IF

5.15
L-index

#	Paper	IF	Citations
50	Exceptional phase-transformation strengthening of ferrous medium-entropy alloys at cryogenic temperatures. <i>Acta Materialia</i> , 2018 , 161, 388-399	8.4	100
49	Strain rate effects of dynamic compressive deformation on mechanical properties and microstructure of CoCrFeMnNi high-entropy alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2018 , 719, 155-163	5.3	84
48	Superior tensile properties of 1%C-CoCrFeMnNi high-entropy alloy additively manufactured by selective laser melting. <i>Materials Research Letters</i> , 2020 , 8, 1-7	7.4	76
47	Thermally activated deformation and the rate controlling mechanism in CoCrFeMnNi high entropy alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2017 , 682, 569-576	5.3	68
46	Superior cryogenic tensile properties of ultrafine-grained CoCrNi medium-entropy alloy produced by high-pressure torsion and annealing. <i>Scripta Materialia</i> , 2019 , 163, 152-156	5.6	60
45	Trade-off between tensile property and formability by partial recrystallization of CrMnFeCoNi high-entropy alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2017 , 703, 324-330	5.3	59
44	On the strain rate-dependent deformation mechanism of CoCrFeMnNi high-entropy alloy at liquid nitrogen temperature. <i>Materials Research Letters</i> , 2017 , 5, 472-477	7.4	54
43	Effect of ϵ -precipitates on the microstructure and mechanical properties of non-equiatomic CoCrFeNiMo medium-entropy alloys. <i>Journal of Alloys and Compounds</i> , 2019 , 781, 75-83	5.7	49
42	High-temperature tensile deformation behavior of hot rolled CrMnFeCoNi high-entropy alloy. <i>Journal of Alloys and Compounds</i> , 2018 , 730, 242-248	5.7	44
41	Laser weldability of cast and rolled high-entropy alloys for cryogenic applications. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2019 , 742, 224-230	5.3	41
40	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	3.3	40
39	A new strategy for designing immiscible medium-entropy alloys with excellent tensile properties. <i>Acta Materialia</i> , 2020 , 193, 71-82	8.4	38
38	Precipitation-driven metastability engineering of carbon-doped CoCrFeNiMo medium-entropy alloys at cryogenic temperature. <i>Scripta Materialia</i> , 2020 , 188, 140-145	5.6	36
37	Constitutive modeling of deformation behavior of high-entropy alloys with face-centered cubic crystal structure. <i>Materials Research Letters</i> , 2017 , 5, 350-356	7.4	35
36	Mechanical behavior and solid solution strengthening model for face-centered cubic single crystalline and polycrystalline high-entropy alloys. <i>Intermetallics</i> , 2018 , 98, 89-94	3.5	35
35	Effect of grain size on the tensile behavior of V ₁₀ Cr ₁₅ Mn ₅ Fe ₃₅ Co ₁₀ Ni ₂₅ high entropy alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2019 , 744, 610-617	5.3	32
34	Effect of annealing heat treatment on microstructural evolution and tensile behavior of Al _{0.5} CoCrFeMnNi high-entropy alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2018 , 728, 251-258	5.3	32

33	Microstructure and Mechanical Properties of High-Entropy Alloy CoCrFeMnNi Processed by High-Pressure Torsion at 77 K and 300 K. <i>Scientific Reports</i> , 2018 , 8, 11074	4.9	30
32	Shock wave compaction and sintering of mechanically alloyed CoCrFeMnNi high-entropy alloy powders. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2017 , 708, 291-300	5.3	26
31	Role of BCC phase on tensile behavior of dual-phase Al _{0.5} CoCrFeMnNi high-entropy alloy at cryogenic temperature. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2019 , 746, 443-447	5.3	26
30	Superior Pre-Osteoblast Cell Response of Etched Ultrafine-Grained Titanium with a Controlled Crystallographic Orientation. <i>Scientific Reports</i> , 2017 , 7, 44213	4.9	24
29	Exceptional cryogenic strength-ductility synergy in Al _{0.3} CoCrNi medium-entropy alloy through heterogeneous grain structure and nano-scale precipitates. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2019 , 766, 138372	5.3	23
28	Strain-rate sensitivity of high-entropy alloys and its significance in deformation. <i>Materials Research Letters</i> , 2019 , 7, 503-509	7.4	23
27	Achieving high strength and high ductility in Al _{0.3} CoCrNi medium-entropy alloy through multi-phase hierarchical microstructure. <i>Materialia</i> , 2019 , 8, 100442	3.2	23
26	Compaction behavior of water-atomized CoCrFeMnNi high-entropy alloy powders. <i>Materials Chemistry and Physics</i> , 2018 , 210, 95-102	4.4	22
25	Hetero-deformation-induced strengthening by twin-mediated martensitic transformation in an immiscible medium-entropy alloy. <i>Scripta Materialia</i> , 2020 , 186, 24-28	5.6	15
24	Twinning Engineering of a CoCrFeMnNi High-Entropy Alloy. <i>Scripta Materialia</i> , 2021 , 197, 113808	5.6	15
23	Nano-scale heterogeneity-driven metastability engineering in ferrous medium-entropy alloy induced by additive manufacturing. <i>Acta Materialia</i> , 2021 , 221, 117426	8.4	14
22	Isotropic and kinematic hardening of a high entropy alloy. <i>Scripta Materialia</i> , 2021 , 191, 107-110	5.6	13
21	Effects of homogenization temperature on cracking during cold-rolling of Al _{0.5} CoCrFeMnNi high-entropy alloy. <i>Materials Chemistry and Physics</i> , 2018 , 210, 187-191	4.4	12
20	Deep Drawing Behavior of CoCrFeMnNi High-Entropy Alloys. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2017 , 48, 4111-4120	2.3	12
19	Precipitation behaviour and mechanical properties of a new wrought high entropy superalloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2019 , 749, 271-280	5.3	10
18	Constitutive Modeling with Critical Twinning Stress in CoCrFeMnNi High Entropy Alloy at Cryogenic Temperature and Room Temperature. <i>Metals and Materials International</i> , 2021 , 27, 2300-2309	2.4	10
17	Deformation behavior of a Co-Cr-Fe-Ni-Mo medium-entropy alloy at extremely low temperatures. <i>Materials Today</i> , 2021 , 50, 55-55	21.8	10
16	Superplasticity of V ₁₀ Cr ₁₅ Mn ₅ Fe ₃₅ Co ₁₀ Ni ₂₅ high-entropy alloy processed using high-pressure torsion. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2019 , 764, 138198	5.3	9

15	Synergetic strengthening from grain refinement and nano-scale precipitates in non-equiatomic CoCrFeNiMo medium-entropy alloy. <i>Intermetallics</i> , 2021 , 135, 107212	3.5	8
14	Simultaneous effects of deformation-induced plasticity and precipitation hardening in metastable non-equiatomic FeNiCoMnTiSi ferrous medium-entropy alloy at room and liquid nitrogen temperatures. <i>Scripta Materialia</i> , 2021 , 202, 114013	5.6	8
13	Toward excellent tensile properties of nitrogen-doped CoCrFeMnNi high-entropy alloy at room and cryogenic temperatures. <i>Journal of Alloys and Compounds</i> , 2022 , 897, 163217	5.7	6
12	Temperature- and strain-dependent thermally-activated deformation mechanism of a ferrous medium-entropy alloy. <i>Intermetallics</i> , 2021 , 134, 107202	3.5	5
11	Novel Co-Cu-Based Immiscible Medium-Entropy Alloys with Promising Mechanical Properties. <i>Metals</i> , 2021 , 11, 238	2.3	5
10	Twinning engineering of high-entropy alloys: An exercise in process optimization and modeling. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2021 , 822, 141681	5.3	5
9	On the control of structural/compositional ratio of coherent order-disorder interfaces. <i>Journal of Alloys and Compounds</i> , 2019 , 777, 1222-1233	5.7	4
8	Unraveling the discontinuous plastic flow of a Co-Cr-Fe-Ni-Mo multiprincipal-element alloy at deep cryogenic temperatures. <i>Physical Review Materials</i> , 2021 , 5,	3.2	4
7	Diffuse γ/δ interfaces in the hierarchical dual-phase nanostructure of a Ni-Al-Ti alloy. <i>Materials Characterization</i> , 2019 , 153, 284-293	3.9	3
6	Metastability engineering of partially recrystallized C-doped non-equiatomic CoCrFeNiMo medium-entropy alloy. <i>Applied Physics Letters</i> , 2021 , 119, 141901	3.4	3
5	Superior phase transformation-assisted mechanical properties of a metastable medium-entropy ferrous alloy with heterogeneous microstructure. <i>Materials Letters</i> , 2021 , 302, 130391	3.3	3
4	Hetero-deformation-induced strengthening of multi-phase CuFeMn medium entropy alloys by dynamic heterostructuring. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2021 , 799, 140275	5.3	1
3	Corrosion-resistant Cu-Fe-based immiscible medium-entropy alloy with tri-layer passivation. <i>Corrosion Science</i> , 2021 , 193, 109888	6.8	0
2	A thermodynamic description of the AlCuFeMn system for an immiscible medium-entropy alloy design. <i>Calphad: Computer Coupling of Phase Diagrams and Thermochemistry</i> , 2020 , 71, 101995	1.9	0
1	Heterostructured alloys with enhanced strength-ductility synergy through laser-cladding. <i>Scripta Materialia</i> , 2022 , 215, 114732	5.6	0