

Jongun Moon

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.

50
papers

1,256
citations

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	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
49	Heterostructured alloys with enhanced strength-ductility synergy through laser-cladding. <i>Scripta Materialia</i> , 2022 , 215, 114732	5.6	0
48	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
47	Metastability engineering of partially recrystallized C-doped non-equiatom CoCrFeNiMo medium-entropy alloy. <i>Applied Physics Letters</i> , 2021 , 119, 141901	3.4	3
46	Corrosion-resistant Cu-Fe-based immiscible medium-entropy alloy with tri-layer passivation. <i>Corrosion Science</i> , 2021 , 193, 109888	6.8	0
45	Twinning Engineering of a CoCrFeMnNi High-Entropy Alloy. <i>Scripta Materialia</i> , 2021 , 197, 113808	5.6	15
44	Temperature- and strain-dependent thermally-activated deformation mechanism of a ferrous medium-entropy alloy. <i>Intermetallics</i> , 2021 , 134, 107202	3.5	5
43	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
42	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
41	Isotropic and kinematic hardening of a high entropy alloy. <i>Scripta Materialia</i> , 2021 , 191, 107-110	5.6	13
40	Novel Co-Cu-Based Immiscible Medium-Entropy Alloys with Promising Mechanical Properties. <i>Metals</i> , 2021 , 11, 238	2.3	5
39	Synergetic strengthening from grain refinement and nano-scale precipitates in non-equiatom CoCrFeNiMo medium-entropy alloy. <i>Intermetallics</i> , 2021 , 135, 107212	3.5	8
38	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
37	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
36	Simultaneous effects of deformation-induced plasticity and precipitation hardening in metastable non-equiatom FeNiCoMnTiSi ferrous medium-entropy alloy at room and liquid nitrogen temperatures. <i>Scripta Materialia</i> , 2021 , 202, 114013	5.6	8
35	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
34	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

33	A new strategy for designing immiscible medium-entropy alloys with excellent tensile properties. <i>Acta Materialia</i> , 2020 , 193, 71-82	8.4	38
32	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
31	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
30	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
29	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
28	Exceptional cryogenic strength-ductility synergy in Al0.3CoCrNi 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
27	Strain-rate sensitivity of high-entropy alloys and its significance in deformation. <i>Materials Research Letters</i> , 2019 , 7, 503-509	7.4	23
26	Achieving high strength and high ductility in Al0.3CoCrNi medium-entropy alloy through multi-phase hierarchical microstructure. <i>Materialia</i> , 2019 , 8, 100442	3.2	23
25	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
24	Diffuse γ/α interfaces in the hierarchical dual-phase nanostructure of a Ni-Al-Ti alloy. <i>Materials Characterization</i> , 2019 , 153, 284-293	3.9	3
23	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
22	Superplasticity of V10Cr15Mn5Fe35Co10Ni25 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
21	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
20	Effect of grain size on the tensile behavior of V10Cr15Mn5Fe35Co10Ni25 high entropy alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2019 , 744, 610-617	5.3	32
19	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
18	Role of BCC phase on tensile behavior of dual-phase Al0.5CoCrFeMnNi 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
17	Effect of δ 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
16	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

15	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
14	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
13	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
12	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
11	Compaction behavior of water-atomized CoCrFeMnNi high-entropy alloy powders. <i>Materials Chemistry and Physics</i> , 2018 , 210, 95-102	4-4	22
10	Exceptional phase-transformation strengthening of ferrous medium-entropy alloys at cryogenic temperatures. <i>Acta Materialia</i> , 2018 , 161, 388-399	8-4	100
9	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
8	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
7	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
6	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
5	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
4	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
3	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
2	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
1	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