

Chanho Lee

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.

338
papers

16,435
citations

57
h-index

121
g-index

352
ext. papers

21,488
ext. citations

5.2
avg, IF

7.19
L-index

#	Paper	IF	Citations
338	Machine-learning and high-throughput studies for high-entropy materials. <i>Materials Science and Engineering Reports</i> , 2022 , 147, 100645	30.9	3
337	Optimize the Mechanical Properties of Al _{0.6} CoCrFeNi High-Entropy Alloys by Thermo-Mechanical Processing. <i>Metals</i> , 2022 , 12, 178	2.3	2
336	The influence of WS ₂ layer thickness on microstructures and mechanical behavior of high-entropy (AlCrTiZrNb)N/WS ₂ nanomultilayered films. <i>Surface and Coatings Technology</i> , 2022 , 433, 128091	4.4	
335	Stress-controlled fatigue of HfNbTaTiZr high-entropy alloy and associated deformation and fracture mechanisms. <i>Journal of Materials Science and Technology</i> , 2022 , 114, 191-205	9.1	2
334	Mechanical Behavior and Thermal Stability of (AlCrTiZrMo)N/ZrO ₂ Nano-Multilayered High-Entropy Alloy Film Prepared by Magnetron Sputtering. <i>Crystals</i> , 2022 , 12, 232	2.3	0
333	Effects of Zr addition on lattice strains and electronic structures of NbTaTiV high-entropy alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2022 , 831, 142293	5.3	0
332	Recent Progress with BCC-Structured High-Entropy Alloys. <i>Metals</i> , 2022 , 12, 501	2.3	5
331	Enhancing strength and ductility via crystalline-amorphous nanoarchitectures in TiZr-based alloys.. <i>Science Advances</i> , 2022 , 8, eabm2884	14.3	2
330	Microstructures and Properties of the Low-Density Al ₁₅ Zr ₄₀ Ti ₂₈ Nb ₁₂ M(Cr, Mo, Si) ₅ High-Entropy Alloys. <i>Metals</i> , 2022 , 12, 496	2.3	5
329	Remarkable cryogenic strengthening and toughening in nano-coherent CoCrFeNiTi _{0.2} high-entropy alloys via energetically-tuning polymorphous precipitates. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2022 , 143111	5.3	0
328	Outstanding high-temperature strength of novel FeCrNiAlV ferritic alloys with hierarchical B ₂ NiAl precipitates. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2022 , 840, 142999	5.3	0
327	Novel Ti-Zr-Hf-Nb-Fe refractory high-entropy alloys for potential biomedical applications. <i>Journal of Alloys and Compounds</i> , 2022 , 906, 164383	5.7	1
326	A lightweight refractory complex concentrated alloy with high strength and uniform ductility. <i>Applied Materials Today</i> , 2022 , 27, 101429	6.6	1
325	A Strategic Design Route to Find a Depleted Uranium High-Entropy Alloy with Great Strength. <i>Metals</i> , 2022 , 12, 699	2.3	1
324	Microstructures, Mechanical Behavior, and Radiation Damage of (TiVCr) _x -(TaW) _{1-x} Binary System High-Entropy Alloy Films. <i>Metals</i> , 2022 , 12, 772	2.3	0
323	Unveiling microstructural origins of the balanced strength-ductility combination in eutectic high-entropy alloys at cryogenic temperatures. <i>Materials Research Letters</i> , 2022 , 10, 602-610	7.4	
322	Effects of Transient Thermal Shock on the Microstructures and Corrosion Properties of a Reduced Activation High-Entropy Alloy. <i>Journal of Alloys and Compounds</i> , 2022 , 165762	5.7	3

321	Dynamic tensile mechanisms and constitutive relationship in CrFeNi medium entropy alloys at room and cryogenic temperatures. <i>Physical Review Materials</i> , 2021 , 5,	3.2	3
320	Mechanical Behavior of High-Entropy Alloys: A Review 2021 , 435-522		1
319	Serrated Flow in Alloy Systems 2021 , 523-644		1
318	Machine Learning and Data Analytics for Design and Manufacturing of High-Entropy Materials Exhibiting Mechanical or Fatigue Properties of Interest 2021 , 115-238		2
317	Nanoprecipitate-Strengthened High-Entropy Alloys. <i>Advanced Science</i> , 2021 , 8, e2100870	13.6	8
316	Superior High-Temperature Strength in a Supersaturated Refractory High-Entropy Alloy. <i>Advanced Materials</i> , 2021 , 33, e2102401	24	7
315	Preparation of Bulk TiZrNbMoV and NbTiAlTaV High-Entropy Alloys by Powder Sintering. <i>Metals</i> , 2021 , 11, 1748	2.3	7
314	Probing temperature effects on lattice distortion and oxidation resistance of high-entropy alloys by in situ SR-XRD and XANES. <i>Journal of Materials Research</i> , 2021 , 36, 4413	2.5	0
313	Measurement of Lattice Distortion in NbTaTiV and NbTaTiVZr Using Electron Microscopy. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2021 , 52, 2094-2099	2.3	0
312	High-entropy intermetallic compound with ultra-high strength and thermal stability. <i>Scripta Materialia</i> , 2021 , 194, 113674	5.6	12
311	Ti-Cu-Zr-Fe-Sn-Si-Ag-Pd Bulk Metallic Glasses with Potential for Biomedical Applications. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2021 , 52, 1559-1567	2.3	1
310	Developing high-strength ferritic alloys reinforced by combination of hierarchical and laves precipitates. <i>Journal of Alloys and Compounds</i> , 2021 , 856, 158162	5.7	4
309	Research on Bulk-metallic Glasses and High-entropy Alloys in Peter K. Liaw's Group and with His Colleagues. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2021 , 52, 2033-2093	2.3	5
308	Development of Precipitation-Strengthened AlNbTiVM (M = Co, Ni) Light-Weight Refractory High-Entropy Alloys. <i>Materials</i> , 2021 , 14,	3.5	1
307	Hardening behaviour in the irradiated high entropy alloy. <i>Mechanics of Materials</i> , 2021 , 155, 103744	3.3	2
306	Order and Disorder in Amorphous and High-Entropy Materials. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2021 , 52, 2111-2122	2.3	5
305	Al _{0.3} Cr _x FeCoNi high-entropy alloys with high corrosion resistance and good mechanical properties. <i>Journal of Alloys and Compounds</i> , 2021 , 860, 158436	5.7	29
304	Formation and Mechanical Behavior of Body-Centered-Cubic Zr(Hf)-Nb-Ti Medium-Entropy Alloys. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2021 , 52, 2100-2110	2.3	3

303	Silicon-content-dependent microstructures and mechanical behavior of (AlCrTiZrMo)-Six-N high-entropy alloy nitride films. <i>Materials and Design</i> , 2021 , 203, 109553	8.1	5
302	Mechanical behavior of high-entropy alloys. <i>Progress in Materials Science</i> , 2021 , 118, 100777	42.2	115
301	Enhancing fatigue life by ductile-transformable multicomponent B2 precipitates in a high-entropy alloy. <i>Nature Communications</i> , 2021 , 12, 3588	17.4	9
300	Non-equiatomic FeMnCrNiAl high-entropy alloys with heterogeneous structures for strength and ductility combination. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2021 , 818, 141386	5.3	14
299	High-throughput design of high-performance lightweight high-entropy alloys. <i>Nature Communications</i> , 2021 , 12, 4329	17.4	25
298	On temperature and strain-rate dependence of flow serration in HfNbTaTiZr high-entropy alloy. <i>Scripta Materialia</i> , 2021 , 200, 113919	5.6	1
297	Microstructures and Properties of High-Entropy Materials: Modeling, Simulation, and Experiments. <i>Advanced Engineering Materials</i> , 2021 , 23, 2001044	3.5	10
296	High-throughput simulation combined machine learning search for optimum elemental composition in medium entropy alloy. <i>Journal of Materials Science and Technology</i> , 2021 , 68, 70-75	9.1	25
295	Phase equilibria of the Cu-Zr-Ti ternary system at 703°C and the thermodynamic assessment and metallic glass region prediction of the Cu-Zr-Ti ternary system. <i>Journal of Non-Crystalline Solids</i> , 2021 , 551, 120387	3.9	4
294	Mechanical, corrosion, and wear properties of biomedical TiZrNbTaMo high entropy alloys. <i>Journal of Alloys and Compounds</i> , 2021 , 861, 157997	5.7	61
293	Simultaneously enhancing the ultimate strength and ductility of high-entropy alloys via short-range ordering. <i>Nature Communications</i> , 2021 , 12, 4953	17.4	13
292	Hierarchical crack buffering triples ductility in eutectic herringbone high-entropy alloys. <i>Science</i> , 2021 , 373, 912-918	33.3	60
291	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
290	Additive Manufacturing of High-Entropy Alloys: Microstructural Metastability and Mechanical Behavior. <i>Journal of Phase Equilibria and Diffusion</i> , 2021 , 42, 748	1	2
289	Development of coherent-precipitate-hardened high-entropy alloys with hierarchical NiAl/Ni ₂ TiAl precipitates in CrMnFeCoNiAl _x Ti _y alloys. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2021 , 823, 141763	5.3	3
288	Coherent precipitation and stability of cuboidal B2 nanoparticles in a ferritic FeCrNiAl superalloy. <i>Materials Research Letters</i> , 2021 , 9, 458-466	7.4	0
287	Strength can be controlled by edge dislocations in refractory high-entropy alloys. <i>Nature Communications</i> , 2021 , 12, 5474	17.4	7
286	Temperature-dependent mechanical behavior of an Al _{0.5} Cr _{0.9} FeNi _{2.5} V _{0.2} high-entropy alloy. <i>Applied Physics Letters</i> , 2021 , 119, 121902	3.4	3

285	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
284	Gradient cell-structured high-entropy alloy with exceptional strength and ductility. <i>Science</i> , 2021 , 374, 984-989	33.3	49
283	A precipitate-free AlCoFeNi eutectic high-entropy alloy with strong strain hardening. <i>Journal of Materials Science and Technology</i> , 2021 , 89, 88-96	9.1	3
282	The predicted rate-dependent deformation behaviour and multistage strain hardening in a model heterostructured body-centered cubic high entropy alloy. <i>International Journal of Plasticity</i> , 2021 , 145, 103073	7.6	9
281	A novel ZrNbMoTaW refractory high-entropy alloy with in-situ forming heterogeneous structure. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2021 , 827, 142061	5.3	9
280	Charge transfer effect on local lattice distortion in a HfNbTiZr high entropy alloy. <i>Scripta Materialia</i> , 2021 , 203, 114104	5.6	2
279	A novel bulk eutectic high-entropy alloy with outstanding as-cast specific yield strengths at elevated temperatures. <i>Scripta Materialia</i> , 2021 , 204, 114132	5.6	57
278	C and N doping in high-entropy alloys: A pathway to achieve desired strength-ductility synergy. <i>Applied Materials Today</i> , 2021 , 25, 101162	6.6	4
277	Investigation of phase-transformation path in TiZrHf(VNbTa) _x refractory high-entropy alloys and its effect on mechanical property. <i>Journal of Alloys and Compounds</i> , 2021 , 886, 161187	5.7	7
276	Microstructures and Properties of High-Entropy Materials: Modeling, Simulation, and Experiments. <i>Advanced Engineering Materials</i> , 2021 , 23, 2170002	3.5	
275	Discovery and design of fatigue-resistant high-entropy alloys. <i>Scripta Materialia</i> , 2020 , 187, 68-75	5.6	28
274	Probing deformation mechanisms of gradient nanostructured CrCoNi medium entropy alloy. <i>Journal of Materials Science and Technology</i> , 2020 , 57, 85-91	9.1	20
273	Promising properties and future trend of eutectic high entropy alloys. <i>Scripta Materialia</i> , 2020 , 187, 202-209	3.69	126
272	Fundamental electronic structure and multiatomic bonding in 13 biocompatible high-entropy alloys. <i>Npj Computational Materials</i> , 2020 , 6,	10.9	48
271	Mechanical and Magnetic Properties of the High-Entropy Alloys for Combinatorial Approaches. <i>Crystals</i> , 2020 , 10, 200	2.3	14
270	The resistivity-temperature behavior of Al CoCrFeNi high-entropy alloy films. <i>Thin Solid Films</i> , 2020 , 700, 137895	2.2	12
269	Diffusion Barrier Performance of AlCrTaTiZr/AlCrTaTiZr-N High-Entropy Alloy Films for Cu/Si Connect System. <i>Entropy</i> , 2020 , 22,	2.8	14
268	Relation Between the Defect Interactions and the Serration Dynamics in a Zr-Based Bulk Metallic Glass. <i>Applied Sciences (Switzerland)</i> , 2020 , 10, 3892	2.6	4

267	Effects of temperature and strain rate on plastic deformation mechanisms of nanocrystalline high-entropy alloys. <i>Intermetallics</i> , 2020 , 120, 106741	3.5	23
266	Preternatural Hexagonal High-Entropy Alloys: A Review. <i>Acta Metallurgica Sinica (English Letters)</i> , 2020 , 33, 1033-1045	2.5	12
265	Unveiling the atomic-scale origins of high damage tolerance of single-crystal high entropy alloys. <i>Physical Review Materials</i> , 2020 , 4,	3.2	4
264	Mechanical properties and deformation behavior of a refractory multiprincipal element alloy under cycle loading. <i>Journal of Micromechanics and Molecular Physics</i> , 2020 , 05, 2050014	1.4	4
263	Dry wear behavior and mechanism of a Fe-based bulk metallic glass: description by Hertzian contact calculation and finite-element method simulation. <i>Journal of Non-Crystalline Solids</i> , 2020 , 543, 120065	3.9	10
262	Corrosive wear behaviors and mechanisms of a biocompatible Fe-based bulk metallic glass. <i>Journal of Non-Crystalline Solids</i> , 2020 , 542, 120088	3.9	6
261	Evolution of the mechanical properties of a cobalt-based alloy under thermal shocks. <i>Materials and Design</i> , 2020 , 188, 108425	8.1	3
260	Amino-functionalization on graphene oxide sheets using an atomic layer amidation technique. <i>Journal of Materials Chemistry C</i> , 2020 , 8, 700-705	7.1	5
259	Effects of crystallization on mechanical behavior and corrosion performance of a ductile Zr ₆₈ Al ₈ Ni ₈ Cu ₁₆ bulk metallic glass. <i>Journal of Non-Crystalline Solids</i> , 2020 , 529, 119782	3.9	11
258	Microstructure Stability and Its Influence on the Mechanical Properties of CrMnFeCoNiAl _{0.25} High Entropy Alloy. <i>Metals and Materials International</i> , 2020 , 26, 1192-1199	2.4	14
257	An as-cast high-entropy alloy with remarkable mechanical properties strengthened by nanometer precipitates. <i>Nanoscale</i> , 2020 , 12, 3965-3976	7.7	28
256	Effects of Cu and Zn on microstructures and mechanical behavior of the medium-entropy aluminum alloy. <i>Journal of Alloys and Compounds</i> , 2020 , 820, 153092	5.7	25
255	Atomistic simulations of the face-centered-cubic-to-hexagonal-close-packed phase transformation in the equiatomic CoCrFeMnNi high entropy alloy under high compression. <i>Computational Materials Science</i> , 2020 , 184, 109864	3.2	10
254	Phase-field simulation of coherent BCC/B2 microstructures in high entropy alloys. <i>Acta Materialia</i> , 2020 , 197, 10-19	8.4	21
253	Effects of Surface Severe Plastic Deformation on the Mechanical Behavior of 304 Stainless Steel. <i>Metals</i> , 2020 , 10, 831	2.3	5
252	Applications of High Diffusion Resistance Multi-component AlCrTaTiZrRu/(AlCrTaTiZrRu) _{N0.7} Film in Cu Interconnects. <i>Advanced Engineering Materials</i> , 2020 , 22, 2000557	3.5	5
251	Thermal deformation behavior of TiAl based alloy by plasma hydrogenation. <i>International Journal of Hydrogen Energy</i> , 2020 , 45, 34214-34226	6.7	1
250	Wear Properties of Sc-Bearing Zr-Based Composite BMG with Nano-CuZr ₂ under Lubrication. <i>Applied Sciences (Switzerland)</i> , 2020 , 10, 4909	2.6	

249	Cluster-formula-embedded machine learning for design of multicomponent Ti alloys with low Young's modulus. <i>Npj Computational Materials</i> , 2020 , 6,	10.9	13
248	Lattice-Distortion-Enhanced Yield Strength in a Refractory High-Entropy Alloy. <i>Advanced Materials</i> , 2020 , 32, e2004029	24	40
247	Predicting the optimum compositions of high-performance CuZn alloys via machine learning. <i>Journal of Materials Research</i> , 2020 , 35, 2709-2717	2.5	1
246	A Review of the Serrated-Flow Phenomenon and Its Role in the Deformation Behavior of High-Entropy Alloys. <i>Metals</i> , 2020 , 10, 1101	2.3	44
245	Temperature dependence of elastic and plastic deformation behavior of a refractory high-entropy alloy. <i>Science Advances</i> , 2020 , 6,	14.3	39
244	Microstructural stability of Ta minor-alloying HR3C stainless steel at 973 K. <i>Materials Chemistry and Physics</i> , 2020 , 239, 122306	4.4	0
243	Applications of High-Pressure Technology for High-Entropy Alloys: A Review. <i>Metals</i> , 2019 , 9, 867	2.3	8
242	First-principles and machine learning predictions of elasticity in severely lattice-distorted high-entropy alloys with experimental validation. <i>Acta Materialia</i> , 2019 , 181, 124-138	8.4	51
241	Enhanced strength-ductility synergy in ultrafine-grained eutectic high-entropy alloys by inheriting microstructural lamellae. <i>Nature Communications</i> , 2019 , 10, 489	17.4	251
240	Investigation of chaos and memory effects in the Bonhoeffer-van der Pol oscillator with a non-ideal capacitor. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2019 , 73, 195-216	3.7	4
239	Grain growth and Hall-Petch relationship in a refractory HfNbTaZrTi high-entropy alloy. <i>Journal of Alloys and Compounds</i> , 2019 , 795, 19-26	5.7	60
238	Nano oxides reinforced high-entropy alloy coatings synthesized by atmospheric plasma spraying. <i>Materials Research Letters</i> , 2019 , 7, 312-319	7.4	24
237	Temperature-dependent compression behavior of an Al _{0.5} CoCrCuFeNi high-entropy alloy. <i>Materialia</i> , 2019 , 5, 100243	3.2	10
236	Exploration of phase structure evolution induced by alloying elements in Ti alloys via a chemical-short-range-order cluster model. <i>Scientific Reports</i> , 2019 , 9, 3404	4.9	12
235	Entropy modeling on serrated flows in carburized steels. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2019 , 753, 135-145	5.3	15
234	Early Stages of Secondary Phase Formation in Multicomponent Alloys Using an in situ TEM Heating Approach. <i>Microscopy and Microanalysis</i> , 2019 , 25, 1536-1537	0.5	1
233	Portevin-Le Chatelier mechanism in face-centered-cubic metallic alloys from low to high entropy. <i>International Journal of Plasticity</i> , 2019 , 122, 212-224	7.6	27
232	Phase transformation assisted twinning in a face-centered-cubic FeCrNiCoAl _{0.36} high entropy alloy. <i>Acta Materialia</i> , 2019 , 181, 491-500	8.4	20

231	High-temperature materials for structural applications: New perspectives on high-entropy alloys, bulk metallic glasses, and nanomaterials. <i>MRS Bulletin</i> , 2019 , 44, 847-853	3.2	17
230	Enhancement of strength-ductility trade-off in a high-entropy alloy through a heterogeneous structure. <i>Acta Materialia</i> , 2019 , 165, 444-458	8.4	162
229	Towards a greater understanding of serrated flows in an Al-containing high-entropy-based alloy. <i>International Journal of Plasticity</i> , 2019 , 115, 71-92	7.6	75
228	Novel NiAl-strengthened high entropy alloys with balanced tensile strength and ductility. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2019 , 742, 636-647	5.3	28
227	Graded microstructures of Al-Li-Mg-Zn-Cu entropic alloys under supergravity. <i>Science China Materials</i> , 2019 , 62, 736-744	7.1	18
226	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
225	Formation, reverse transformation, and properties of δ 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
224	Effects of Silicon Content on the Microstructures and Mechanical Properties of (AlCrTiZrV)-Si-N High-Entropy Alloy Films. <i>Entropy</i> , 2019 , 21,	2.8	4
223	The superior hydrogen-generation performance of multi-component Al alloys by the hydrolysis reaction. <i>International Journal of Hydrogen Energy</i> , 2019 , 44, 3527-3537	6.7	47
222	The elastic-strain energy criterion of phase formation for complex concentrated alloys. <i>Materialia</i> , 2019 , 5, 100222	3.2	20
221	Effects of Constituent Elements and Fabrication Methods on Mechanical Behavior of High-Entropy Alloys: A Review. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2019 , 50, 1-28	2.3	32
220	Excellent ductility and serration feature of metastable CoCrFeNi high-entropy alloy at extremely low temperatures. <i>Science China Materials</i> , 2019 , 62, 853-863	7.1	70
219	Formation of cuboidal B2 nanoprecipitates and microstructural evolution in the body-centered-cubic Al _{0.7} NiCoFe _{1.5} Cr _{1.5} high-entropy alloy. <i>Journal of Alloys and Compounds</i> , 2019 , 780, 408-421	5.7	11
218	Microstructures and properties of high-entropy alloy films and coatings: a review. <i>Materials Research Letters</i> , 2018 , 6, 199-229	7.4	184
217	Understanding the structure-Poisson's ratio relation in bulk metallic glass. <i>Journal of Materials Science</i> , 2018 , 53, 7891-7899	4.3	7
216	Nanoscale serration and creep characteristics of Al _{0.5} CoCrCuFeNi high-entropy alloys. <i>Journal of Alloys and Compounds</i> , 2018 , 752, 464-475	5.7	57
215	Homogenization of Al CoCrFeNi high-entropy alloys with improved corrosion resistance. <i>Corrosion Science</i> , 2018 , 133, 120-131	6.8	143
214	Improvement in creep life of a nickel-based single-crystal superalloy via composition homogeneity on the multiscales by magnetic-field-assisted directional solidification. <i>Scientific Reports</i> , 2018 , 8, 1452	4.9	7

213	Science and technology in high-entropy alloys. <i>Science China Materials</i> , 2018 , 61, 2-22	7.1	404
212	Phase stability and transformation in a light-weight high-entropy alloy. <i>Acta Materialia</i> , 2018 , 146, 280-293	4	76
211	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
210	Thermo-mechanical response of single-phase face-centered-cubic Al _x CoCrFeNi high-entropy alloy microcrystals. <i>Materials Research Letters</i> , 2018 , 6, 300-306	7.4	11
209	Temperature effects on the serrated behavior of an Al _{0.5} CoCrCuFeNi high-entropy alloy. <i>Materials Chemistry and Physics</i> , 2018 , 210, 20-28	4.4	45
208	Effect of strain rate and temperature on the serration behavior of SA508-III RPV steel in the dynamic strain aging process. <i>Journal of Iron and Steel Research International</i> , 2018 , 25, 767-775	1.2	2
207	Effect of Ti substitution for Al on the cuboidal nanoprecipitates in Al _{0.7} NiCoFeCr ₂ high-entropy alloys. <i>Journal of Materials Research</i> , 2018 , 33, 3266-3275	2.5	6
206	Tribological behaviors of a Ni-free Ti-based bulk metallic glass in air and a simulated physiological environment. <i>Journal of Alloys and Compounds</i> , 2018 , 766, 1030-1036	5.7	15
205	Creep, fatigue, and fracture behavior of high-entropy alloys. <i>Journal of Materials Research</i> , 2018 , 33, 3011-3034	2.5	25
204	Effect of Nb content on thermal stability, mechanical and corrosion behaviors of hypoeutectic CoCrFeNiNb high-entropy alloys. <i>Journal of Materials Research</i> , 2018 , 33, 3276-3286	2.5	19
203	Fundamental understanding of mechanical behavior of high-entropy alloys at low temperatures: A review. <i>Journal of Materials Research</i> , 2018 , 33, 2998-3010	2.5	38
202	Thermal Stability of High Entropy Alloys during in Situ TEM Heating.. <i>Microscopy and Microanalysis</i> , 2018 , 24, 1928-1929	0.5	2
201	Fatigue behavior of high-entropy alloys: A review. <i>Science China Technological Sciences</i> , 2018 , 61, 168-178	9.5	53
200	Coherent Precipitation and Strengthening in Compositionally Complex Alloys: A Review. <i>Entropy</i> , 2018 , 20,	2.8	42
199	A Novel Low-Activation VCrFeTaW (= 0.1, 0.2, 0.3, 0.4, and 1) High-Entropy Alloys with Excellent Heat-Softening Resistance. <i>Entropy</i> , 2018 , 20,	2.8	29
198	Additive Manufacturing of High-Entropy Alloys: A Review. <i>Entropy</i> , 2018 , 20,	2.8	78
197	Microstructures and mechanical properties of body-centered-cubic (Al,Ti) _{0.7} (Ni,Co,Fe,Cr) ₅ high entropy alloys with coherent B2/L21 nanoprecipitation. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2018 , 737, 286-296	5.3	30
196	Dislocation avalanche mechanism in slowly compressed high entropy alloy nanopillars. <i>Communications Physics</i> , 2018 , 1,	5.4	18

195	Complexity modeling and analysis of chaos and other fluctuating phenomena. <i>Chaos, Solitons and Fractals</i> , 2018 , 116, 166-175	9.3	14
194	Plasticity Enhancement by Fe-Addition on NiAl Alloy: A Synchrotron X-ray Diffraction Mapping and Molecular Dynamics Simulation Study. <i>Quantum Beam Science</i> , 2018 , 2, 18	1.6	
193	Effects of Y, GdCu, and Al Addition on the Thermoelectric Behavior of CoCrFeNi High Entropy Alloys. <i>Metals</i> , 2018 , 8, 781	2.3	12
192	A Low-Cost Lightweight Entropic Alloy with High Strength. <i>Journal of Materials Engineering and Performance</i> , 2018 , 27, 6648-6656	1.6	15
191	Wear behavior of Al _{0.6} CoCrFeNi high-entropy alloys: Effect of environments. <i>Journal of Materials Research</i> , 2018 , 33, 3310-3320	2.5	53
190	Lattice distortion in a strong and ductile refractory high-entropy alloy. <i>Acta Materialia</i> , 2018 , 160, 158-172	4	173
189	Fracture resistance of high entropy alloys: A review. <i>Intermetallics</i> , 2018 , 99, 69-83	3.5	95
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