

Peter K Liaw

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.

280
papers

14,501
citations

58
h-index

115
g-index

297
ext. papers

19,022
ext. citations

5.3
avg, IF

7.16
L-index

#	Paper	IF	Citations
280	Machine-learning and high-throughput studies for high-entropy materials. <i>Materials Science and Engineering Reports</i> , 2022 , 147, 100645	30.9	3
279	Effect of annealing on mechanical and thermoelectric properties of a Al ₂ CoCrFeNi high-entropy alloy. <i>Materials and Design</i> , 2022 , 213, 110313	8.1	1
278	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
277	Effects of grain boundary on irradiation-induced zero-dimensional defects in an irradiated copper. <i>Applied Mathematics and Mechanics (English Edition)</i> , 2022 , 43, 233-246	3.2	1
276	Enhanced strength-ductility synergy via novel bifunctional nano-precipitates in a high-entropy alloy. <i>International Journal of Plasticity</i> , 2022 , 153, 103235	7.6	1
275	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
274	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
273	Simultaneously enhanced strength-ductility of AlCoCrFeNi _{2.1} eutectic high-entropy alloy via additive manufacturing. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2022 , 830, 142327	5.3	7
272	Ultrasonic-vibration-enhanced plasticity of an entropic alloy at room temperature. <i>Acta Materialia</i> , 2022 , 225, 117569	8.4	0
271	Recent Progress with BCC-Structured High-Entropy Alloys. <i>Metals</i> , 2022 , 12, 501	2.3	5
270	Enhancing strength and ductility via crystalline-amorphous nanoarchitectures in TiZr-based alloys.. <i>Science Advances</i> , 2022 , 8, eabm2884	14.3	2
269	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
268	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
267	A Strategic Design Route to Find a Depleted Uranium High-Entropy Alloy with Great Strength. <i>Metals</i> , 2022 , 12, 699	2.3	1
266	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
265	Exploring the amorphous phase formation and properties of W-Ta-(Cr, Fe, Ni) high-entropy alloy gradient films via a high-throughput technique. <i>Journal of Alloys and Compounds</i> , 2022 , 913, 165294	5.7	1
264	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	

263	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
262	Niobium addition improves the corrosion resistance of TiHfZrNb _x high-entropy alloys in Hanks solution. <i>Electrochimica Acta</i> , 2022 , 424, 140651	6.7	1
261	Ultrastrong and ductile BCC high-entropy alloys with low-density via dislocation regulation and nanoprecipitates. <i>Journal of Materials Science and Technology</i> , 2021 , 110, 109-109	9.1	16
260	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
259	Mechanical Behavior of High-Entropy Alloys: A Review 2021 , 435-522		1
258	Serrated Flow in Alloy Systems 2021 , 523-644		1
257	Machine Learning and Data Analytics for Design and Manufacturing of High-Entropy Materials Exhibiting Mechanical or Fatigue Properties of Interest 2021 , 115-238		2
256	Predicting temperature-dependent ultimate strengths of body-centered-cubic (BCC) high-entropy alloys. <i>Npj Computational Materials</i> , 2021 , 7,	10.9	6
255	Nanoprecipitate-Strengthened High-Entropy Alloys. <i>Advanced Science</i> , 2021 , 8, e2100870	13.6	8
254	Superior High-Temperature Strength in a Supersaturated Refractory High-Entropy Alloy. <i>Advanced Materials</i> , 2021 , 33, e2102401	24	7
253	Preparation of Bulk TiZrNbMoV and NbTiAlTaV High-Entropy Alloys by Powder Sintering. <i>Metals</i> , 2021 , 11, 1748	2.3	7
252	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
251	Chemical-Affinity Disparity and Exclusivity Drive Atomic Segregation, Short-Range Ordering, and Cluster Formation in High-Entropy Alloys. <i>Acta Materialia</i> , 2021 , 206, 116638	8.4	12
250	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
249	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
248	Development of Precipitation-Strengthened AlNbTiVM (M = Co, Ni) Light-Weight Refractory High-Entropy Alloys. <i>Materials</i> , 2021 , 14,	3.5	1
247	Hardening behaviour in the irradiated high entropy alloy. <i>Mechanics of Materials</i> , 2021 , 155, 103744	3.3	2
246	Deformation mechanisms in hexagonal close-packed high-entropy alloys. <i>Journal of Applied Physics</i> , 2021 , 129, 175104	2.5	2

245	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
244	Mechanical behavior of high-entropy alloys. <i>Progress in Materials Science</i> , 2021 , 118, 100777	42.2	115
243	Structure prediction in high-entropy alloys with machine learning. <i>Applied Physics Letters</i> , 2021 , 118, 231904	3.4	9
242	High-throughput design of high-performance lightweight high-entropy alloys. <i>Nature Communications</i> , 2021 , 12, 4329	17.4	25
241	On temperature and strain-rate dependence of flow serration in HfNbTaTiZr high-entropy alloy. <i>Scripta Materialia</i> , 2021 , 200, 113919	5.6	1
240	Microstructures and Properties of High-Entropy Materials: Modeling, Simulation, and Experiments. <i>Advanced Engineering Materials</i> , 2021 , 23, 2001044	3.5	10
239	Tensile deformation behavior and mechanical properties of a bulk cast Al _{0.9} CoFeNi ₂ eutectic high-entropy alloy. <i>Journal of Materials Science and Technology</i> , 2021 , 61, 119-124	9.1	24
238	Mechanical behaviors and precipitation transformation of the lightweight high-Zn-content Al ₇₀ Ni ₁₀ Mg ₁₀ Cu alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2021 , 802, 140637	5.3	11
237	Mechanical, corrosion, and wear properties of biomedical Ti ₂₀ Zr ₂₀ Nb ₂₀ Ta ₂₀ Mo high entropy alloys. <i>Journal of Alloys and Compounds</i> , 2021 , 861, 157997	5.7	61
236	Revealing the relationship between microstructures, textures, and mechanical behaviors of cold-rolled Al _{0.1} CoCrFeNi high-entropy alloys. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2021 , 804, 140752	5.3	8
235	Competitive relationship during fatigue-crack initiation of friction-stir-welded Al alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2021 , 809, 141006	5.3	2
234	Microstructural evolution and mechanical properties of FeCoCrNiCu high entropy alloys: a microstructure-based constitutive model and a molecular dynamics simulation study. <i>Applied Mathematics and Mechanics (English Edition)</i> , 2021 , 42, 1109-1122	3.2	5
233	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
232	Hierarchical crack buffering triples ductility in eutectic herringbone high-entropy alloys. <i>Science</i> , 2021 , 373, 912-918	33.3	60
231	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
230	Cyclic deformation and fatigue behavior of 7075-T651 Al alloy with a gradient structure. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2021 , 822, 141669	5.3	3
229	Additive Manufacturing of High-Entropy Alloys: Microstructural Metastability and Mechanical Behavior. <i>Journal of Phase Equilibria and Diffusion</i> , 2021 , 42, 748	1	2
228	Strength can be controlled by edge dislocations in refractory high-entropy alloys. <i>Nature Communications</i> , 2021 , 12, 5474	17.4	7

227	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
226	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
225	Gradient cell-structured high-entropy alloy with exceptional strength and ductility. <i>Science</i> , 2021 , 374, 984-989	33.3	49
224	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
223	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
222	Charge transfer effect on local lattice distortion in a HfNbTiZr high entropy alloy. <i>Scripta Materialia</i> , 2021 , 203, 114104	5.6	2
221	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
220	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
219	Promising properties and future trend of eutectic high entropy alloys. <i>Scripta Materialia</i> , 2020 , 187, 202-209	3.09	126
218	Bio-corrosion behavior and in vitro biocompatibility of equimolar TiZrHfNbTa high-entropy alloy. <i>Intermetallics</i> , 2020 , 124, 106845	3.5	30
217	Fundamental electronic structure and multiatomic bonding in 13 biocompatible high-entropy alloys. <i>Npj Computational Materials</i> , 2020 , 6,	10.9	48
216	Mechanical and Magnetic Properties of the High-Entropy Alloys for Combinatorial Approaches. <i>Crystals</i> , 2020 , 10, 200	2.3	14
215	Diffusion Barrier Performance of AlCrTaTiZr/AlCrTaTiZr-N High-Entropy Alloy Films for Cu/Si Connect System. <i>Entropy</i> , 2020 , 22,	2.8	14
214	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
213	A multi-phase CrMnFeCoNiAl _{0.75} high-entropy alloy with high strength at intermediate temperature. <i>Intermetallics</i> , 2020 , 120, 106744	3.5	16
212	Preternatural Hexagonal High-Entropy Alloys: A Review. <i>Acta Metallurgica Sinica (English Letters)</i> , 2020 , 33, 1033-1045	2.5	12
211	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
210	Enhancement of fatigue resistance by overload-induced deformation twinning in a CoCrFeMnNi high-entropy alloy. <i>Acta Materialia</i> , 2020 , 201, 412-424	8.4	24

209	Effects of Surface Severe Plastic Deformation on the Mechanical Behavior of 304 Stainless Steel. <i>Metals</i> , 2020 , 10, 831	2.3	5
208	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	
207	High-Throughput Calculations for High-Entropy Alloys: A Brief Review. <i>Frontiers in Materials</i> , 2020 , 7,	4	15
206	Lattice-Distortion-Enhanced Yield Strength in a Refractory High-Entropy Alloy. <i>Advanced Materials</i> , 2020 , 32, e2004029	24	40
205	Multistage work hardening assisted by multi-type twinning in ultrafine-grained heterostructural eutectic high-entropy alloys. <i>Materials Today</i> , 2020 , 41, 62-71	21.8	61
204	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
203	Temperature dependence of elastic and plastic deformation behavior of a refractory high-entropy alloy. <i>Science Advances</i> , 2020 , 6,	14.3	39
202	Complexity analysis of serrated flows in a bulk metallic glass under constrained and unconstrained conditions. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2020 , 771, 138585	5.3	19
201	Applications of High-Pressure Technology for High-Entropy Alloys: A Review. <i>Metals</i> , 2019 , 9, 867	2.3	8
200	Peierls barrier characteristic and anomalous strain hardening provoked by dynamic-strain-aging strengthening in a body-centered-cubic high-entropy alloy. <i>Materials Research Letters</i> , 2019 , 7, 475-481	7.4	18
199	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
198	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
197	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
196	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
195	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
194	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
193	Incredible improvement in fatigue resistance of friction stir welded 7075-T651 aluminum alloy via surface mechanical rolling treatment. <i>International Journal of Fatigue</i> , 2019 , 124, 15-25	5	21
192	From symmetry to entropy: Crystal entropy difference strongly affects early stage phase transformation. <i>Applied Physics Letters</i> , 2019 , 115, 264103	3.4	3

191	Interplay between microstructure and deformation behavior of a laser-welded CoCrFeNi high entropy alloy. <i>Materials Research Express</i> , 2019 , 6, 046514	1.7	11
190	Origin of serrated flow in bulk metallic glasses. <i>Journal of the Mechanics and Physics of Solids</i> , 2019 , 124, 634-642	5	26
189	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
188	Graded microstructures of Al-Li-Mg-Zn-Cu entropic alloys under supergravity. <i>Science China Materials</i> , 2019 , 62, 736-744	7.1	18
187	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
186	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
185	Pressure-induced phase transition in the AlCoCrFeNi high-entropy alloy. <i>Scripta Materialia</i> , 2019 , 161, 88-92	5.6	28
184	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
183	A review on the fatigue behavior of Ti-6Al-4V fabricated by electron beam melting additive manufacturing. <i>International Journal of Fatigue</i> , 2019 , 119, 173-184	5	86
182	Microstructures and properties of high-entropy alloy films and coatings: a review. <i>Materials Research Letters</i> , 2018 , 6, 199-229	7.4	184
181	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
180	Homogenization of Al CoCrFeNi high-entropy alloys with improved corrosion resistance. <i>Corrosion Science</i> , 2018 , 133, 120-131	6.8	143
179	Science and technology in high-entropy alloys. <i>Science China Materials</i> , 2018 , 61, 2-22	7.1	404
178	In-situ electrochemical-AFM study of localized corrosion of Al _x CoCrFeNi high-entropy alloys in chloride solution. <i>Applied Surface Science</i> , 2018 , 439, 533-544	6.7	76
177	Phase stability and transformation in a light-weight high-entropy alloy. <i>Acta Materialia</i> , 2018 , 146, 280-293	7.1	76
176	Chemical short-range orders and the induced structural transition in high-entropy alloys. <i>Scripta Materialia</i> , 2018 , 144, 64-68	5.6	78
175	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
174	Microstructure and enhanced mechanical behavior of the Al ₇ Co ₂₄ Cr ₂₁ Fe ₂₄ Ni ₂₄ high-entropy alloy system by tuning the Cr content. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2018 , 733, 299-306	5.3	16

173	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
172	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
171	Novel high entropy alloys of Fe _x Co _{1-x} NiMnGa with excellent soft magnetic properties. <i>Intermetallics</i> , 2018 , 100, 1-8	3.5	38
170	Fatigue behavior of high-entropy alloys: A review. <i>Science China Technological Sciences</i> , 2018 , 61, 168-178	3.5	53
169	Coherent Precipitation and Strengthening in Compositionally Complex Alloys: A Review. <i>Entropy</i> , 2018 , 20,	2.8	42
168	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
167	Additive Manufacturing of High-Entropy Alloys: A Review. <i>Entropy</i> , 2018 , 20,	2.8	78
166	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
165	Dislocation avalanche mechanism in slowly compressed high entropy alloy nanopillars. <i>Communications Physics</i> , 2018 , 1,	5.4	18
164	Complexity modeling and analysis of chaos and other fluctuating phenomena. <i>Chaos, Solitons and Fractals</i> , 2018 , 116, 166-175	9.3	14
163	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	
162	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
161	A Low-Cost Lightweight Entropic Alloy with High Strength. <i>Journal of Materials Engineering and Performance</i> , 2018 , 27, 6648-6656	1.6	15
160	Predictive multiphase evolution in Al-containing high-entropy alloys. <i>Nature Communications</i> , 2018 , 9, 4520	17.4	66
159	Effect of concentration on the structure of isothermally-annealed CuZr metallic glasses. <i>Materials Science and Technology</i> , 2018 , 34, 2287-2293	1.5	3
158	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
157	Lattice distortion in a strong and ductile refractory high-entropy alloy. <i>Acta Materialia</i> , 2018 , 160, 158-172	17.4	173
156	Fracture resistance of high entropy alloys: A review. <i>Intermetallics</i> , 2018 , 99, 69-83	3.5	95

155	Microstructural Evolution in Chroming Coatings Friction Pairs under Dry Sliding Test Conditions. <i>Advances in Tribology</i> , 2018 , 2018, 1-6	1.6	1
154	Vanishing of room-temperature slip avalanches in a face-centered-cubic high-entropy alloy by ultrafine grain formation. <i>Scripta Materialia</i> , 2018 , 155, 99-103	5.6	7
153	Microstructural evolution of single Ni ₂ TiAl or hierarchical NiAl/Ni ₂ TiAl precipitates in Fe-Ni-Al-Cr-Ti ferritic alloys during thermal treatment for elevated-temperature applications. <i>Acta Materialia</i> , 2017 , 127, 1-16	8.4	44
152	Corrosion of Al CoCrFeNi high-entropy alloys: Al-content and potential scan-rate dependent pitting behavior. <i>Corrosion Science</i> , 2017 , 119, 33-45	6.8	310
151	Tailoring magnetic behavior of CoFeMnNiX (X= Al, Cr, Ga, and Sn) high entropy alloys by metal doping. <i>Acta Materialia</i> , 2017 , 130, 10-18	8.4	143
150	High-velocity deformation of AlCoCrFeNi high-entropy alloy: Remarkable resistance to shear failure. <i>Scientific Reports</i> , 2017 , 7, 42742	4.9	85
149	Plasticity performance of Al _{0.5} CoCrCuFeNi high-entropy alloys under nanoindentation. <i>Journal of Iron and Steel Research International</i> , 2017 , 24, 390-396	1.2	6
148	Primary and secondary precipitates in a hierarchical-precipitate-strengthened ferritic alloy. <i>Journal of Alloys and Compounds</i> , 2017 , 706, 584-588	5.7	12
147	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	5.3	64
146	Slip avalanche in nanoscratching of metallic glasses. <i>Journal of Applied Physics</i> , 2017 , 122, 115108	2.5	2
145	Microstructures, mechanical behavior and strengthening mechanism of TiSiCN nanocomposite films. <i>Scientific Reports</i> , 2017 , 7, 2140	4.9	14
144	Serration and noise behaviors in materials. <i>Progress in Materials Science</i> , 2017 , 90, 358-460	42.2	128
143	High-entropy Al _{0.3} CoCrFeNi alloy fibers with high tensile strength and ductility at ambient and cryogenic temperatures. <i>Acta Materialia</i> , 2017 , 123, 285-294	8.4	262
142	Strong grain-size effect on deformation twinning of an Al _{0.1} CoCrFeNi high-entropy alloy. <i>Materials Research Letters</i> , 2017 , 5, 276-283	7.4	80
141	Plastic dynamics of the Al _{0.5} CoCrCuFeNi high entropy alloy at cryogenic temperatures: Jerky flow, stair-like fluctuation, scaling behavior, and non-chaotic state. <i>Applied Physics Letters</i> , 2017 , 111, 251905	3.4	17
140	First-principles prediction of high-entropy-alloy stability. <i>Npj Computational Materials</i> , 2017 , 3,	10.9	47
139	Effect of Heavy Ion Irradiation Dosage on the Hardness of SA508-IV Reactor Pressure Vessel Steel. <i>Metals</i> , 2017 , 7, 25	2.3	10
138	The BCC/B2 Morphologies in Al _x NiCoFeCr High-Entropy Alloys. <i>Metals</i> , 2017 , 7, 57	2.3	76

137	Corrosion-Resistant High-Entropy Alloys: A Review. <i>Metals</i> , 2017 , 7, 43	2.3	329
136	Phase stability and microstructures of high entropy alloys ion irradiated to high doses. <i>Journal of Nuclear Materials</i> , 2016 , 480, 100-108	3.3	73
135	Self-Similar Random Process and Chaotic Behavior In Serrated Flow of High Entropy Alloys. <i>Scientific Reports</i> , 2016 , 6, 29798	4.9	20
134	Understanding phase stability of Al-Co-Cr-Fe-Ni high entropy alloys. <i>Materials and Design</i> , 2016 , 109, 425-433	8.1	154
133	Crystallization in Fe- and Co-Based Amorphous Alloys Studied by In-Situ X-Ray Diffraction. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2016 , 47, 5859-5862	2.3	1
132	Tensile deformation mechanisms of an in-situ Ti-based metallic glass matrix composite at cryogenic temperature. <i>Scientific Reports</i> , 2016 , 6, 32287	4.9	17
131	Fatigue induced deformation and thermodynamics evolution in a nano particle strengthened nickel base superalloy. <i>Fatigue and Fracture of Engineering Materials and Structures</i> , 2016 , 39, 675-685	3	10
130	Metallic glass matrix composites. <i>Materials Science and Engineering Reports</i> , 2016 , 100, 1-69	30.9	341
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