

# Peter K Liaw

## List of Publications by Year in descending order

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289  
papers

23,631  
citations

10389

72  
h-index

8866

145  
g-index

297  
all docs

297  
docs citations

297  
times ranked

7916  
citing authors

#	ARTICLE	IF	CITATIONS
1	Ultrastrong and ductile BCC high-entropy alloys with low-density via dislocation regulation and nanoprecipitates. <i>Journal of Materials Science and Technology</i> , 2022, 110, 109-116.	10.7	79
2	Effects of Zr addition on lattice strains and electronic structures of NbTaTiV high-entropy alloy. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2022, 831, 142293.	5.6	12
3	Simultaneously enhanced strength-ductility of AlCoCrFeNi <sub>2.1</sub> eutectic high-entropy alloy via additive manufacturing. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2022, 830, 142327.	5.6	45
4	Ultrasonic-vibration-enhanced plasticity of an entropic alloy at room temperature. <i>Acta Materialia</i> , 2022, 225, 117569.	7.9	30
5	Biocompatibility of NbTaTiVZr with Surface Modifications for Osteoblasts. <i>ACS Applied Bio Materials</i> , 2022, 5, 642-649.	4.6	1
6	Machine-learning and high-throughput studies for high-entropy materials. <i>Materials Science and Engineering Reports</i> , 2022, 147, 100645.	31.8	44
7	A Focused Review on Engineering Application of Multi-Principal Element Alloy. <i>Frontiers in Materials</i> , 2022, 8, .	2.4	4
8	Effect of annealing on mechanical and thermoelectric properties of a Al <sub>2</sub> CoCrFeNi high-entropy alloy. <i>Materials and Design</i> , 2022, 213, 110313.	7.0	11
9	Optimize the Mechanical Properties of Al <sub>0.6</sub> CoCrFeNi High-Entropy Alloys by Thermo-Mechanical Processing. <i>Metals</i> , 2022, 12, 178.	2.3	5
10	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.	3.6	4
11	Enhanced strength-ductility synergy via novel bifunctional nano-precipitates in a high-entropy alloy. <i>International Journal of Plasticity</i> , 2022, 153, 103235.	8.8	56
12	Mechanical Behavior and Thermal Stability of (AlCrTiZrMo)N/ZrO <sub>2</sub> Nano-Multilayered High-Entropy Alloy Film Prepared by Magnetron Sputtering. <i>Crystals</i> , 2022, 12, 232.	2.2	3
13	Performance-oriented multistage design for multi-principal element alloys with low cost yet high efficiency. <i>Materials Horizons</i> , 2022, 9, 1518-1525.	12.2	12
14	Recent Progress with BCC-Structured High-Entropy Alloys. <i>Metals</i> , 2022, 12, 501.	2.3	32
15	Enhancing strength and ductility via crystalline-amorphous nanoarchitectures in TiZr-based alloys. <i>Science Advances</i> , 2022, 8, eabm2884.	10.3	22
16	Microstructures and Properties of the Low-Density Al <sub>15</sub> Zr <sub>40</sub> Ti <sub>28</sub> Nb <sub>12</sub> M(Cr, Mo, Si) <sub>5</sub> High-Entropy Alloys. <i>Metals</i> , 2022, 12, 496.	2.3	16
17	Tiâ€“Zrâ€“Hfâ€“Nbâ€“Taâ€“Sn high-entropy alloys with good properties as potential biomaterials. <i>Rare Metals</i> , 2022, 41, 2305-2315.	7.1	9
18	Novel Ti-Zr-Hf-Nb-Fe refractory high-entropy alloys for potential biomedical applications. <i>Journal of Alloys and Compounds</i> , 2022, 906, 164383.	5.5	33

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19	In-Situ Study of Microstructure Evolution of Spinodal Decomposition in an Al-Rich High-Entropy Alloy. <i>Frontiers in Materials</i> , 2022, 9, .	2.4	2
20	A Strategic Design Route to Find a Depleted Uranium High-Entropy Alloy with Great Strength. <i>Metals</i> , 2022, 12, 699.	2.3	4
21	Microstructures, Mechanical Behavior, and Radiation Damage of (TiVCr) <sub>x</sub> -(TaW) <sub>1-x</sub> Binary System High-Entropy Alloy Films. <i>Metals</i> , 2022, 12, 772.	2.3	3
22	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.	5.5	12
23	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.	8.7	10
24	Entropy versus enthalpy in hexagonal-close-packed high-entropy alloys. <i>Rare Metals</i> , 2022, 41, 2906-2920.	7.1	4
25	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, 918, 165762.	5.5	27
26	Niobium addition improves the corrosion resistance of TiHfZrNb <sub>x</sub> high-entropy alloys in Hanks™ solution. <i>Electrochimica Acta</i> , 2022, 424, 140651.	5.2	9
27	Heterogeneous lattice strain strengthening in severely distorted crystalline solids. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2022, 119, .	7.1	27
28	Elastic behavior of binary and ternary refractory multi-principal-element alloys. <i>Materials and Design</i> , 2022, 219, 110820.	7.0	9
29	Effect of Zr addition on the local structure and mechanical properties of Ti–Ta–Nb–Zr refractory high-entropy alloys. <i>Journal of Materials Research and Technology</i> , 2022, 19, 4428-4438.	5.8	12
30	Fatigue dataset of high-entropy alloys. <i>Scientific Data</i> , 2022, 9, .	5.3	6
31	Phase prediction and effect of intrinsic residual strain on phase stability in high-entropy alloys with machine learning. <i>Journal of Alloys and Compounds</i> , 2022, 921, 166149.	5.5	26
32	Microstructures and Properties of High-Entropy Materials: Modeling, Simulation, and Experiments. <i>Advanced Engineering Materials</i> , 2021, 23, .	3.5	33
33	Tensile deformation behavior and mechanical properties of a bulk cast Al <sub>0.9</sub> CoFeNi <sub>2</sub> eutectic high-entropy alloy. <i>Journal of Materials Science and Technology</i> , 2021, 61, 119-124.	10.7	82
34	Mechanical behaviors and precipitation transformation of the lightweight high-Zn-content Al–Zn–Li–Mg–Cu alloy. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2021, 802, 140637.	5.6	36
35	Mechanical, corrosion, and wear properties of biomedical Ti–Zr–Nb–Ta–Mo high entropy alloys. <i>Journal of Alloys and Compounds</i> , 2021, 861, 157997.	5.5	152
36	Revealing the relationship between microstructures, textures, and mechanical behaviors of cold-rolled Al <sub>0.1</sub> CoCrFeNi high-entropy alloys. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2021, 804, 140752.	5.6	24

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37	Competitive relationship during fatigue-crack initiation of friction-stir-welded Al alloy. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2021, 809, 141006.	5.6	5
38	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.	2.2	2
39	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.	7.9	45
40	Developing high-strength ferritic alloys reinforced by combination of hierarchical and laves precipitates. <i>Journal of Alloys and Compounds</i> , 2021, 856, 158162.	5.5	8
41	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.	2.2	7
42	Development of Precipitation-Strengthened Al <sub>0.8</sub> NbTiVM (M = Co, Ni) Light-Weight Refractory High-Entropy Alloys. <i>Materials</i> , 2021, 14, 2085.	2.9	9
43	Hardening behaviour in the irradiated high entropy alloy. <i>Mechanics of Materials</i> , 2021, 155, 103744.	3.2	17
44	Deformation mechanisms in hexagonal close-packed high-entropy alloys. <i>Journal of Applied Physics</i> , 2021, 129, .	2.5	6
45	Silicon-content-dependent microstructures and mechanical behavior of (AlCrTiZrMo)-Six-N high-entropy alloy nitride films. <i>Materials and Design</i> , 2021, 203, 109553.	7.0	12
46	Mechanical behavior of high-entropy alloys. <i>Progress in Materials Science</i> , 2021, 118, 100777.	32.8	492
47	Structure prediction in high-entropy alloys with machine learning. <i>Applied Physics Letters</i> , 2021, 118, .	3.3	24
48	High-throughput design of high-performance lightweight high-entropy alloys. <i>Nature Communications</i> , 2021, 12, 4329.	12.8	112
49	On temperature and strain-rate dependence of flow serration in HfNbTaTiZr high-entropy alloy. <i>Scripta Materialia</i> , 2021, 200, 113919.	5.2	22
50	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.	3.6	18
51	Simultaneously enhancing the ultimate strength and ductility of high-entropy alloys via short-range ordering. <i>Nature Communications</i> , 2021, 12, 4953.	12.8	116
52	Hierarchical crack buffering triples ductility in eutectic herringbone high-entropy alloys. <i>Science</i> , 2021, 373, 912-918.	12.6	304
53	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, .	2.4	9
54	Cyclic deformation and fatigue behavior of 7075-T651 Al alloy with a gradient structure. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2021, 822, 141669.	5.6	9

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55	Additive Manufacturing of High-Entropy Alloys: Microstructural Metastability and Mechanical Behavior. <i>Journal of Phase Equilibria and Diffusion</i> , 2021, 42, 748-771.	1.4	11
56	Strength can be controlled by edge dislocations in refractory high-entropy alloys. <i>Nature Communications</i> , 2021, 12, 5474.	12.8	64
57	Temperature-dependent mechanical behavior of an Al <sub>0.5</sub> Cr <sub>0.9</sub> FeNi <sub>2.5</sub> V <sub>0.2</sub> high-entropy alloy. <i>Applied Physics Letters</i> , 2021, 119, .	3.3	12
58	Deformation behavior of a Co-Cr-Fe-Ni-Mo medium-entropy alloy at extremely low temperatures. <i>Materials Today</i> , 2021, 50, 55-68.	14.2	51
59	Gradient cell-structured high-entropy alloy with exceptional strength and ductility. <i>Science</i> , 2021, 374, 984-989.	12.6	316
60	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.	8.8	37
61	A novel ZrNbMoTaW refractory high-entropy alloy with in-situ forming heterogeneous structure. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2021, 827, 142061.	5.6	59
62	Charge transfer effect on local lattice distortion in a HfNbTiZr high entropy alloy. <i>Scripta Materialia</i> , 2021, 203, 114104.	5.2	16
63	A novel bulk eutectic high-entropy alloy with outstanding as-cast specific yield strengths at elevated temperatures. <i>Scripta Materialia</i> , 2021, 204, 114132.	5.2	192
64	Investigation of phase-transformation path in TiZrHf(VNbTa) <sub>x</sub> refractory high-entropy alloys and its effect on mechanical property. <i>Journal of Alloys and Compounds</i> , 2021, 886, 161187.	5.5	25
65	Predicting temperature-dependent ultimate strengths of body-centered-cubic (BCC) high-entropy alloys. <i>Npj Computational Materials</i> , 2021, 7, .	8.7	13
66	High Entropy Materials: Challenges and Prospects. <i>Metals</i> , 2021, 11, 1643.	2.3	8
67	Nanoprecipitate-strengthened High-Entropy Alloys. <i>Advanced Science</i> , 2021, 8, e2100870.	11.2	97
68	Superior High-Temperature Strength in a Supersaturated Refractory High-Entropy Alloy. <i>Advanced Materials</i> , 2021, 33, e2102401.	21.0	89
69	Preparation of Bulk TiZrNbMoV and NbTiAlTaV High-Entropy Alloys by Powder Sintering. <i>Metals</i> , 2021, 11, 1748.	2.3	23
70	Dynamic tensile mechanisms and constitutive relationship in CrFeNi medium entropy alloys at room and cryogenic temperatures. <i>Physical Review Materials</i> , 2021, 5, .	2.4	10
71	Mechanical Behavior of High-Entropy Alloys: A Review. , 2021, , 435-522.		9
72	Machine Learning and Data Analytics for Design and Manufacturing of High-Entropy Materials Exhibiting Mechanical or Fatigue Properties of Interest. , 2021, , 115-238.		2

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73	Complexity analysis of serrated flows in a bulk metallic glass under constrained and unconstrained conditions. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2020, 771, 138585.	5.6	26
74	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.	5.5	44
75	Enhancement of fatigue resistance by overload-induced deformation twinning in a CoCrFeMnNi high-entropy alloy. <i>Acta Materialia</i> , 2020, 201, 412-424.	7.9	41
76	Effects of Surface Severe Plastic Deformation on the Mechanical Behavior of 304 Stainless Steel. <i>Metals</i> , 2020, 10, 831.	2.3	14
77	Wear Properties of Sc-Bearing Zr-Based Composite BMG with Nano-CuZr <sub>2</sub> under Lubrication. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 4909.	2.5	0
78	High-Throughput Calculations for High-Entropy Alloys: A Brief Review. <i>Frontiers in Materials</i> , 2020, 7, .	2.4	50
79	Latticeâ€Distortionâ€Enhanced Yield Strength in a Refractory Highâ€Entropy Alloy. <i>Advanced Materials</i> , 2020, 32, e2004029.	21.0	121
80	Multistage work hardening assisted by multi-type twinning in ultrafine-grained heterostructural eutectic high-entropy alloys. <i>Materials Today</i> , 2020, 41, 62-71.	14.2	197
81	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	65
82	Temperature dependence of elastic and plastic deformation behavior of a refractory high-entropy alloy. <i>Science Advances</i> , 2020, 6, .	10.3	101
83	Promising properties and future trend of eutectic high entropy alloys. <i>Scripta Materialia</i> , 2020, 187, 202-209.	5.2	308
84	Bio-corrosion behavior and in vitro biocompatibility of equimolar TiZrHfNbTa high-entropy alloy. <i>Intermetallics</i> , 2020, 124, 106845.	3.9	74
85	Fundamental electronic structure and multiatomic bonding in 13 biocompatible high-entropy alloys. <i>Npj Computational Materials</i> , 2020, 6, .	8.7	79
86	Mechanical and Magnetic Properties of the High-Entropy Alloys for Combinatorial Approaches. <i>Crystals</i> , 2020, 10, 200.	2.2	26
87	Diffusion Barrier Performance of AlCrTaTiZr/AlCrTaTiZr-N High-Entropy Alloy Films for Cu/Si Connect System. <i>Entropy</i> , 2020, 22, 234.	2.2	25
88	Relation Between the Defect Interactions and the Serration Dynamics in a Zr-Based Bulk Metallic Glass. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 3892.	2.5	8
89	A multi-phase CrMnFeCoNiAl <sub>0.75</sub> high-entropy alloy with high strength at intermediate temperature. <i>Intermetallics</i> , 2020, 120, 106744.	3.9	28
90	Preternatural Hexagonal High-Entropy Alloys: A Review. <i>Acta Metallurgica Sinica (English Letters)</i> , 2020, 33, 1033-1045.	2.9	32

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91	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.	8.8	51
92	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.	3.5	27
93	Applications of High-Pressure Technology for High-Entropy Alloys: A Review. <i>Metals</i> , 2019, 9, 867.	2.3	16
94	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.	8.7	29
95	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.	7.9	113
96	Enhanced strength-ductility synergy in ultrafine-grained eutectic high-entropy alloys by inheriting microstructural lamellae. <i>Nature Communications</i> , 2019, 10, 489.	12.8	505
97	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.	3.3	7
98	Entropy modeling on serrated flows in carburized steels. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2019, 753, 135-145.	5.6	20
99	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.	5.7	35
100	From symmetry to entropy: Crystal entropy difference strongly affects early stage phase transformation. <i>Applied Physics Letters</i> , 2019, 115, .	3.3	6
101	Interplay between microstructure and deformation behavior of a laser-welded CoCrFeNi high entropy alloy. <i>Materials Research Express</i> , 2019, 6, 046514.	1.6	14
102	Origin of serrated flow in bulk metallic glasses. <i>Journal of the Mechanics and Physics of Solids</i> , 2019, 124, 634-642.	4.8	33
103	Novel NiAl-strengthened high entropy alloys with balanced tensile strength and ductility. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2019, 742, 636-647.	5.6	44
104	Graded microstructures of Al-Li-Mg-Zn-Cu entropic alloys under supergravity. <i>Science China Materials</i> , 2019, 62, 736-744.	6.3	30
105	Effects of Silicon Content on the Microstructures and Mechanical Properties of (AlCrTiZrV)-Six-N High-Entropy Alloy Films. <i>Entropy</i> , 2019, 21, 75.	2.2	8
106	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.	2.2	50
107	Pressure-induced phase transition in the AlCoCrFeNi high-entropy alloy. <i>Scripta Materialia</i> , 2019, 161, 88-92.	5.2	33
108	Excellent ductility and serration feature of metastable CoCrFeNi high-entropy alloy at extremely low temperatures. <i>Science China Materials</i> , 2019, 62, 853-863.	6.3	129

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109	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.	5.7	149
110	Microstructures and properties of high-entropy alloy films and coatings: a review. <i>Materials Research Letters</i> , 2018, 6, 199-229.	8.7	345
111	Nanoscale serration and creep characteristics of Al <sub>0.5</sub> CoCrCuFeNi high-entropy alloys. <i>Journal of Alloys and Compounds</i> , 2018, 752, 464-475.	5.5	69
112	Homogenization of Al CoCrFeNi high-entropy alloys with improved corrosion resistance. <i>Corrosion Science</i> , 2018, 133, 120-131.	6.6	283
113	Science and technology in high-entropy alloys. <i>Science China Materials</i> , 2018, 61, 2-22.	6.3	679
114	In-situ electrochemical-AFM study of localized corrosion of Al CoCrFeNi high-entropy alloys in chloride solution. <i>Applied Surface Science</i> , 2018, 439, 533-544.	6.1	147
115	Phase stability and transformation in a light-weight high-entropy alloy. <i>Acta Materialia</i> , 2018, 146, 280-293.	7.9	131
116	Chemical short-range orders and the induced structural transition in high-entropy alloys. <i>Scripta Materialia</i> , 2018, 144, 64-68.	5.2	115
117	Temperature effects on the serrated behavior of an Al <sub>0.5</sub> CoCrCuFeNi high-entropy alloy. <i>Materials Chemistry and Physics</i> , 2018, 210, 20-28.	4.0	52
118	Fatigue behavior of high-entropy alloys: A review. <i>Science China Technological Sciences</i> , 2018, 61, 168-178.	4.0	71
119	Coherent Precipitation and Strengthening in Compositionally Complex Alloys: A Review. <i>Entropy</i> , 2018, 20, 878.	2.2	100
120	A Novel Low-Activation VCrFeT <sub>x</sub> W <sub>x</sub> (x = 0.1, 0.2, 0.3, 0.4, and 1) High-Entropy Alloys with Excellent Heat-Softening Resistance. <i>Entropy</i> , 2018, 20, 951.	2.2	52
121	Additive Manufacturing of High-Entropy Alloys: A Review. <i>Entropy</i> , 2018, 20, 937.	2.2	142
122	Microstructures and mechanical properties of body-centered-cubic (Al,Ti) <sub>0.7</sub> (Ni,Co,Fe,Cr) <sub>5</sub> high entropy alloys with coherent B <sub>2</sub> /L <sub>21</sub> nanoprecipitation. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2018, 737, 286-296.	5.6	52
123	Dislocation avalanche mechanism in slowly compressed high entropy alloy nanopillars. <i>Communications Physics</i> , 2018, 1, .	5.3	29
124	Complexity modeling and analysis of chaos and other fluctuating phenomena. <i>Chaos, Solitons and Fractals</i> , 2018, 116, 166-175.	5.1	18
125	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.	1.2	0
126	Effects of Y, GdCu, and Al Addition on the Thermoelectric Behavior of CoCrFeNi High Entropy Alloys. <i>Metals</i> , 2018, 8, 781.	2.3	17



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127	A Low-Cost Lightweight Entropic Alloy with High Strength. <i>Journal of Materials Engineering and Performance</i> , 2018, 27, 6648-6656.	2.5	38
128	Predictive multiphase evolution in Al-containing high-entropy alloys. <i>Nature Communications</i> , 2018, 9, 4520.	12.8	107
129	Effect of concentration on the structure of isothermally-annealed CuZr metallic glasses. <i>Materials Science and Technology</i> , 2018, 34, 2287-2293.	1.6	5
130	Wear behavior of Al <sub>0.6</sub> CoCrFeNi high-entropy alloys: Effect of environments. <i>Journal of Materials Research</i> , 2018, 33, 3310-3320.	2.6	80
131	Lattice distortion in a strong and ductile refractory high-entropy alloy. <i>Acta Materialia</i> , 2018, 160, 158-172.	7.9	325
132	Fracture resistance of high entropy alloys: A review. <i>Intermetallics</i> , 2018, 99, 69-83.	3.9	149
133	Microstructural Evolution in Chroming Coatings Friction Pairs under Dry Sliding Test Conditions. <i>Advances in Tribology</i> , 2018, 2018, 1-6.	2.1	3
134	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.	5.2	12
135	Microstructure and enhanced mechanical behavior of the Al <sub>7</sub> Co <sub>24</sub> Cr <sub>21</sub> Fe <sub>24</sub> Ni <sub>24</sub> high-entropy alloy system by tuning the Cr content. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2018, 733, 299-306.	5.6	29
136	Effect of Ti substitution for Al on the cuboidal nanoprecipitates in Al <sub>0.7</sub> NiCoFeCr <sub>2</sub> high-entropy alloys. <i>Journal of Materials Research</i> , 2018, 33, 3266-3275.	2.6	12
137	Fundamental understanding of mechanical behavior of high-entropy alloys at low temperatures: A review. <i>Journal of Materials Research</i> , 2018, 33, 2998-3010.	2.6	63
138	Novel high entropy alloys of Fe <sub>x</sub> Co <sub>1-x</sub> NiMnGa with excellent soft magnetic properties. <i>Intermetallics</i> , 2018, 100, 1-8.	3.9	61
139	Microstructural evolution of single Ni <sub>2</sub> TiAl or hierarchical NiAl/Ni <sub>2</sub> 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.	7.9	62
140	Corrosion of Al CoCrFeNi high-entropy alloys: Al-content and potential scan-rate dependent pitting behavior. <i>Corrosion Science</i> , 2017, 119, 33-45.	6.6	535
141	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.	7.9	220
142	High-velocity deformation of Al <sub>0.3</sub> CoCrFeNi high-entropy alloy: Remarkable resistance to shear failure. <i>Scientific Reports</i> , 2017, 7, 42742.	3.3	116
143	Plasticity performance of Al <sub>0.5</sub> CoCrCuFeNi high-entropy alloys under nanoindentation. <i>Journal of Iron and Steel Research International</i> , 2017, 24, 390-396.	2.8	8
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