

# Hongbin Bei

## List of Publications by Year in descending order

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264  
papers

27,571  
citations

14614

66  
h-index

6113

159  
g-index

265  
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265  
docs citations

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times ranked

9401  
citing authors

#	ARTICLE	IF	CITATIONS
1	Discrete twinning dynamics and size-dependent dislocation-to twin transition in body-centred cubic tungsten. <i>Journal of Materials Science and Technology</i> , 2022, 106, 33-40.	5.6	19
2	Physical Properties of High Entropy Alloys. , 2022, , 474-483.		0
3	Microstructural rejuvenation in a Ni-based single crystal superalloy. <i>Materials Today Nano</i> , 2022, 17, 100152.	2.3	7
4	Long-term tensile creep behavior of a family of FCC-structured multi-component equiatomic solid solution alloys. <i>Scripta Materialia</i> , 2022, 212, 114556.	2.6	4
5	Fracture properties of high-entropy alloys. <i>MRS Bulletin</i> , 2022, 47, 176-185.	1.7	11
6	Role of chemical disorder on radiation-induced defect production and damage evolution in NiFeCoCr. <i>Journal of Nuclear Materials</i> , 2022, 565, 153689.	1.3	3
7	Effects of Fe atoms on hardening of a nickel matrix: Nanoindentation experiments and atom-scale numerical modeling. <i>Materials and Design</i> , 2022, 217, 110639.	3.3	25
8	Competitive deformation induced by TCP precipitation and creep inconsistency on dendritic structures in a nickel-based single crystal superalloy crept at high temperatures. <i>Materials Characterization</i> , 2022, 187, 111855.	1.9	12
9	Microstructures and mechanical properties of V <sub>3</sub> Si eutectic composites. <i>International Journal of Materials Research</i> , 2022, 95, 505-512.	0.1	1
10	Design considerations for high entropy alloys in advanced nuclear applications. <i>Journal of Nuclear Materials</i> , 2022, 567, 153814.	1.3	36
11	Understanding effects of chemical complexity on helium bubble formation in Ni-based concentrated solid solution alloys based on elemental segregation measurements. <i>Journal of Nuclear Materials</i> , 2022, 569, 153902.	1.3	4
12	Origin of strong solid solution strengthening in the CrCoNi-W medium entropy alloy. <i>Journal of Materials Science and Technology</i> , 2021, 73, 101-107.	5.6	39
13	STEM Characterization of Dislocation Loops in Irradiated FCC Alloys. <i>Journal of Nuclear Materials</i> , 2021, 544, 152658.	1.3	30
14	Origin of increased helium density inside bubbles in Ni alloys. <i>Scripta Materialia</i> , 2021, 191, 1-6.	2.6	14
15	Diffusion-mediated chemical concentration variation and void evolution in ion-irradiated NiCoFeCr high-entropy alloy. <i>Journal of Materials Research</i> , 2021, 36, 298-310.	1.2	15
16	Formative and controlled mechanisms of nano-sized $\beta$ precipitates with local phase-transition within dislocation networks of nickel-based single crystal superalloys. <i>Acta Materialia</i> , 2021, 206, 116653.	3.8	18
17	Comparative irradiation response of an austenitic stainless steel with its high-entropy alloy counterpart. <i>Intermetallics</i> , 2021, 132, 107130.	1.8	17
18	Micromechanical origin of the enhanced ductility in twinless duplex Mg-Li alloy. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2021, 815, 141305.	2.6	15

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19	Hydrogen-enhanced compatibility constraint for intergranular failure in FCC FeNiCoCrMn high-entropy alloy. <i>Corrosion Science</i> , 2021, 184, 109407.	3.0	10
20	Nano-twin-induced exceptionally superior cryogenic mechanical properties of a Ni-based GH3536 (Hastelloy X) superalloy. <i>Materials Today Nano</i> , 2021, 14, 100110.	2.3	24
21	Temperature effects on deformation substructures and mechanisms of a Ni-based single crystal superalloy. <i>Applied Materials Today</i> , 2021, 23, 101061.	2.3	18
22	The dependence of stress and strain rate on the deformation behavior of a Ni-based single crystal superalloy at 1050°C. <i>International Journal of Mechanical System Dynamics</i> , 2021, 1, 121-131.	1.3	6
23	Compositional variations in equiatomic CrMnFeCoNi high-entropy alloys. <i>Materials Characterization</i> , 2021, 180, 111437.	1.9	11
24	First-principles calculation of lattice distortions in four single phase high entropy alloys with experimental validation. <i>Materials and Design</i> , 2021, 209, 110071.	3.3	15
25	Inconsistent creep between dendrite core and interdendritic region under different degrees of elemental inhomogeneity in nickel-based single crystal superalloys. <i>Journal of Materials Science and Technology</i> , 2021, 92, 88-97.	5.6	16
26	Strengthening in Al-, Mo- or Ti-doped CoCrFeNi high entropy alloys: A parallel comparison. <i>Journal of Materials Science and Technology</i> , 2021, 94, 264-274.	5.6	44
27	Diffusion-mediated chemical concentration variation and void evolution in ion-irradiated NiCoFeCr high-entropy alloy. <i>Journal of Materials Research</i> , 2021, 36, 1-13.	1.2	3
28	The dynamic evolution of swelling in nickel concentrated solid solution alloys through in situ property monitoring. <i>Applied Materials Today</i> , 2021, 25, 101187.	2.3	4
29	An in situ ambient and cryogenic transmission electron microscopy study of the effects of temperature on dislocation behavior in CrCoNi-based high-entropy alloys with low stacking-fault energy. <i>Applied Physics Letters</i> , 2021, 119, .	1.5	8
30	Micromechanical investigation of the role of percolation on ductility enhancement in metallic glass composites. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2020, 769, 138531.	2.6	10
31	On the Room-Temperature Mechanical Properties of an Ion-Irradiated TiZrNbHfTa Refractory High Entropy Alloy. <i>Jom</i> , 2020, 72, 130-138.	0.9	34
32	Severe local lattice distortion in Zr- and/or Hf-containing refractory multi-principal element alloys. <i>Acta Materialia</i> , 2020, 183, 172-181.	3.8	108
33	Investigation of the mechanical and microstructural evolution of a Cu based bulk metallic glass during ion irradiation. <i>Intermetallics</i> , 2020, 116, 106655.	1.8	13
34	Electron-phonon coupling induced defect recovery and strain relaxation in Ni and equiatomic NiFe alloy. <i>Computational Materials Science</i> , 2020, 173, 109394.	1.4	9
35	From suppressed void growth to significant void swelling in NiCoFeCr complex concentrated solid-solution alloy. <i>Materialia</i> , 2020, 9, 100603.	1.3	22
36	Processing, Microstructures and Mechanical Properties of a Ni-Based Single Crystal Superalloy. <i>Crystals</i> , 2020, 10, 572.	1.0	21

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37	Bulk and element-specific magnetism of medium-entropy and high-entropy Cantor-Wu alloys. <i>Physical Review B</i> , 2020, 102, .	1.1	18
38	Effects of irradiation spectrum on the microstructural and mechanical properties of bulk metallic glasses. <i>Journal of Nuclear Materials</i> , 2020, 533, 152084.	1.3	4
39	Dislocation loop evolution and radiation hardening in nickel-based concentrated solid solution alloys. <i>Journal of Nuclear Materials</i> , 2020, 538, 152247.	1.3	22
40	Segregation of Ni at early stages of radiation damage in NiCoFeCr solid solution alloys. <i>Acta Materialia</i> , 2020, 196, 44-51.	3.8	39
41	Structural disorder, phase stability and compressibility of refractory body-centered cubic solid-solution alloys. <i>Journal of Alloys and Compounds</i> , 2020, 847, 155970.	2.8	7
42	Local structure of Ni <sub>80</sub> X <sub>20</sub> (X: Cr, Mn, Pd) solid-solution alloys and its response to ion irradiation. <i>Journal of Physics Condensed Matter</i> , 2020, 32, 074002.	0.7	2
43	Indirectly probing the structural change in ion-irradiated Zr-Based metallic glasses from small scale mechanical tests. <i>Intermetallics</i> , 2020, 121, 106794.	1.8	6
44	Interpreting nanovoids in atom probe tomography data for accurate local compositional measurements. <i>Nature Communications</i> , 2020, 11, 1022.	5.8	23
45	Extreme Fermi Surface Smearing in a Maximally Disordered Concentrated Solid Solution. <i>Physical Review Letters</i> , 2020, 124, 046402.	2.9	20
46	Real-time observations of TRIP-induced ultrahigh strain hardening in a dual-phase CrMnFeCoNi high-entropy alloy. <i>Nature Communications</i> , 2020, 11, 826.	5.8	165
47	Unfolding the complexity of phonon quasi-particle physics in disordered materials. <i>Npj Computational Materials</i> , 2020, 6, .	3.5	22
48	Temperature effects on damage evolution in ion-irradiated NiCoCr concentrated solid-solution alloy. <i>Journal of Alloys and Compounds</i> , 2020, 832, 154918.	2.8	9
49	Site occupancy of alloying elements in $\gamma'$ phase of nickel-base single crystal superalloys. <i>Intermetallics</i> , 2020, 121, 106772.	1.8	23
50	Tensile creep behavior of an equiatomic CoCrNi medium entropy alloy. <i>Intermetallics</i> , 2020, 121, 106775.	1.8	23
51	Defect evolution in Ni and solid-solution alloys of NiFe and NiFeCoCr under ion irradiation at 16 and 300ÅK. <i>Journal of Nuclear Materials</i> , 2020, 534, 152138.	1.3	10
52	Influence of irradiation temperature on void swelling in NiCoFeCrMn and NiCoFeCrPd. <i>Scripta Materialia</i> , 2019, 158, 57-61.	2.6	74
53	Investigating Effects of Alloy Chemical Complexity on Helium Bubble Formation by Accurate Segregation Measurements Using Atom Probe Tomography. <i>Microscopy and Microanalysis</i> , 2019, 25, 1558-1559.	0.2	6
54	Optical conductivity of metal alloys with residual resistivities near or above the Mott-Ioffe-Regel limit. <i>Physical Review B</i> , 2019, 100, .	1.1	5

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55	Evolution of the microstructural and mechanical properties of BAM-11 bulk metallic glass during ion irradiation and annealing. <i>Journal of Nuclear Materials</i> , 2019, 523, 299-309.	1.3	29
56	Multi-axial and multi-energy channeling study of disorder evolution in ion-irradiated nickel. <i>Journal of Nuclear Materials</i> , 2019, 525, 92-101.	1.3	8
57	Plastic deformation mechanism of Ti-Nb-Ta-Zr-O alloy at cryogenic temperatures. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2019, 765, 138293.	2.6	11
58	Investigation of the thermal and neutron irradiation response of BAM-11 bulk metallic glass. <i>Journal of Nuclear Materials</i> , 2019, 526, 151771.	1.3	30
59	Effects of 3d electron configurations on helium bubble formation and void swelling in concentrated solid-solution alloys. <i>Acta Materialia</i> , 2019, 181, 519-529.	3.8	40
60	Chemical effects on He bubble superlattice formation in high entropy alloys. <i>Current Opinion in Solid State and Materials Science</i> , 2019, 23, 100762.	5.6	24
61	Channeling analysis in studying ion irradiation damage in materials containing various types of defects. <i>Journal of Nuclear Materials</i> , 2019, 517, 9-16.	1.3	20
62	Irradiation effects of medium-entropy alloy NiCoCr with and without pre-indentation. <i>Journal of Nuclear Materials</i> , 2019, 524, 60-66.	1.3	25
63	On the onset of deformation twinning in the CrFeMnCoNi high-entropy alloy using a novel tensile specimen geometry. <i>Intermetallics</i> , 2019, 110, 106469.	1.8	21
64	Defect evolution in Ni and NiCoCr by in situ 2.8 MeV Au irradiation. <i>Journal of Nuclear Materials</i> , 2019, 523, 502-509.	1.3	15
65	Temperature-dependent defect accumulation and evolution in Ni-irradiated NiFe concentrated solid-solution alloy. <i>Journal of Nuclear Materials</i> , 2019, 519, 1-9.	1.3	16
66	Investigating sluggish diffusion in a concentrated solid solution alloy using ion irradiation with in situ TEM. <i>Intermetallics</i> , 2019, 110, 106461.	1.8	22
67	Transformation pathway from alpha to omega and texture evolution in Zr via high-pressure torsion. <i>Applied Physics Letters</i> , 2019, 114, .	1.5	5
68	Shape-preserving machining produces gradient nanolaminate medium entropy alloys with high strain hardening capability. <i>Acta Materialia</i> , 2019, 170, 176-186.	3.8	41
69	Real-time nanoscale observation of deformation mechanisms in CrCoNi-based medium- to high-entropy alloys at cryogenic temperatures. <i>Materials Today</i> , 2019, 25, 21-27.	8.3	167
70	Effect of electronic energy dissipation on strain relaxation in irradiated concentrated solid solution alloys. <i>Current Opinion in Solid State and Materials Science</i> , 2019, 23, 107-115.	5.6	25
71	A comparative characterization of defect structure in NiCo and NiFe equimolar solid solution alloys under in situ electron irradiation. <i>Scripta Materialia</i> , 2019, 166, 96-101.	2.6	5
72	Tuning element distribution, structure and properties by composition in high-entropy alloys. <i>Nature</i> , 2019, 574, 223-227.	13.7	874

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73	Chemically-biased diffusion and segregation impede void growth in irradiated Ni-Fe alloys. <i>Current Opinion in Solid State and Materials Science</i> , 2019, 23, 92-100.	5.6	27
74	Helium irradiated cavity formation and defect energetics in Ni-based binary single-phase concentrated solid solution alloys. <i>Acta Materialia</i> , 2019, 164, 283-292.	3.8	44
75	Effects of Fe concentration on helium bubble formation in NiFe single-phase concentrated solid solution alloys. <i>Materialia</i> , 2019, 5, 100183.	1.3	21
76	Microstructures and mechanical properties of a welded CoCrFeMnNi high-entropy alloy. <i>Science and Technology of Welding and Joining</i> , 2018, 23, 585-595.	1.5	70
77	Extremely hard amorphous-crystalline hybrid steel surface produced by deformation induced cementite amorphization. <i>Acta Materialia</i> , 2018, 152, 107-118.	3.8	13
78	Effect of alloying elements on defect evolution in Ni-20X binary alloys. <i>Acta Materialia</i> , 2018, 151, 159-168.	3.8	55
79	Fabrication of highly dense isotropic Nd-Fe-B nylon bonded magnets via extrusion-based additive manufacturing. <i>Additive Manufacturing</i> , 2018, 21, 495-500.	1.7	48
80	Radiation-induced extreme elastic and inelastic interactions in concentrated solid solutions. <i>Materials and Design</i> , 2018, 150, 1-8.	3.3	15
81	Mechanical rejuvenation in bulk metallic glass induced by thermo-mechanical creep. <i>Acta Materialia</i> , 2018, 148, 384-390.	3.8	61
82	Evolution of ion damage at 773K in Ni-containing concentrated solid-solution alloys. <i>Journal of Nuclear Materials</i> , 2018, 501, 132-142.	1.3	30
83	Delayed damage accumulation by athermal suppression of defect production in concentrated solid solution alloys. <i>Materials Research Letters</i> , 2018, 6, 136-141.	4.1	39
84	Local structure of NiPd solid solution alloys and its response to ion irradiation. <i>Journal of Alloys and Compounds</i> , 2018, 755, 242-250.	2.8	10
85	GeV ion irradiation of NiFe and NiCo: Insights from MD simulations and experiments. <i>Acta Materialia</i> , 2018, 151, 191-200.	3.8	28
86	Microband induced plasticity and the temperature dependence of the mechanical properties of a carbon-doped FeNiMnAlCr high entropy alloy. <i>Materials Characterization</i> , 2018, 139, 373-381.	1.9	44
87	Influence of compositional complexity on interdiffusion in Ni-containing concentrated solid-solution alloys. <i>Materials Research Letters</i> , 2018, 6, 293-299.	4.1	52
88	Improvement of mechanical behaviors of a superlight Mg-Li base alloy by duplex phases and fine precipitates. <i>Journal of Alloys and Compounds</i> , 2018, 735, 2625-2633.	2.8	80
89	Hydrogen embrittlement in compositionally complex FeNiCoCrMn FCC solid solution alloy. <i>Current Opinion in Solid State and Materials Science</i> , 2018, 22, 1-7.	5.6	79
90	Phase stability of single phase Al <sub>0.12</sub> CrNiFeCo high entropy alloy upon irradiation. <i>Materials and Design</i> , 2018, 160, 1208-1216.	3.3	41

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91	Lattice Distortion and Phase Stability of Pd-Doped NiCoFeCr Solid-Solution Alloys. <i>Entropy</i> , 2018, 20, 900.	1.1	27
92	Deformation mechanisms and work-hardening behavior of transformation-induced plasticity high entropy alloys by <i>in-situ</i> neutron diffraction. <i>Materials Research Letters</i> , 2018, 6, 620-626.	4.1	41
93	Predictive multiphase evolution in Al-containing high-entropy alloys. <i>Nature Communications</i> , 2018, 9, 4520.	5.8	107
94	Irradiation responses and defect behavior of single-phase concentrated solid solution alloys. <i>Journal of Materials Research</i> , 2018, 33, 3077-3091.	1.2	47
95	Local lattice distortion in NiCoCr, FeCoNiCr and FeCoNiCrMn concentrated alloys investigated by synchrotron X-ray diffraction. <i>Materials and Design</i> , 2018, 155, 1-7.	3.3	96
96	In situ neutron diffraction study on tensile deformation behavior of carbon-strengthened CoCrFeMnNi high-entropy alloys at room and elevated temperatures. <i>Journal of Materials Research</i> , 2018, 33, 3192-3203.	1.2	7
97	Evolution of local lattice distortion under irradiation in medium- and high-entropy alloys. <i>Materialia</i> , 2018, 2, 73-81.	1.3	67
98	Quantifying early stage irradiation damage from nanoindentation pop-in tests. <i>Scripta Materialia</i> , 2018, 157, 49-53.	2.6	24
99	Enhanced strength and ductility of a tungsten-doped CoCrNi medium-entropy alloy. <i>Journal of Materials Research</i> , 2018, 33, 3301-3309.	1.2	51
100	Single-Phase Concentrated Solid-Solution Alloys: Bridging Intrinsic Transport Properties and Irradiation Resistance. <i>Frontiers in Materials</i> , 2018, 5, .	1.2	45
101	Interstitial migration behavior and defect evolution in ion irradiated pure nickel and Ni-xFe binary alloys. <i>Journal of Nuclear Materials</i> , 2018, 509, 237-244.	1.3	34
102	A comparison study of local lattice distortion in Ni <sub>80</sub> Pd <sub>20</sub> binary alloy and FeCoNiCrPd high-entropy alloy. <i>Scripta Materialia</i> , 2018, 156, 14-18.	2.6	45
103	Hydrogen embrittlement of the equi-molar FeNiCoCr alloy. <i>Acta Materialia</i> , 2018, 157, 218-227.	3.8	52
104	Enhanced void swelling in NiCoFeCrPd high-entropy alloy by indentation-induced dislocations. <i>Materials Research Letters</i> , 2018, 6, 584-591.	4.1	46
105	Chemical complexity induced local structural distortion in NiCoFeMnCr high-entropy alloy. <i>Materials Research Letters</i> , 2018, 6, 450-455.	4.1	54
106	Pressure-induced fcc to hcp phase transition in Ni-based high entropy solid solution alloys. <i>Applied Physics Letters</i> , 2017, 110, .	1.5	62
107	Radiation-induced segregation on defect clusters in single-phase concentrated solid-solution alloys. <i>Acta Materialia</i> , 2017, 127, 98-107.	3.8	212
108	Dislocation mechanisms and 3D twin architectures generate exceptional strength-ductility-toughness combination in CrCoNi medium-entropy alloy. <i>Nature Communications</i> , 2017, 8, 14390.	5.8	344

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109	Intrinsic properties and strengthening mechanism of monocrystalline Ni-containing ternary concentrated solid solutions. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2017, 695, 74-79.	2.6	47
110	X-ray absorption investigation of local structural disorder in Ni <sub>1-x</sub> Fe <sub>x</sub> ( $x=0.10, 0.20, 0.35, \text{ and } 0.50$ ) alloys. <i>Journal of Applied Physics</i> , 2017, 121, 165105.	1.1	4
111	The evolution of the deformation substructure in a Ni-Co-Cr equiatomic solid solution alloy. <i>Acta Materialia</i> , 2017, 132, 35-48.	3.8	357
112	Twinning-mediated work hardening and texture evolution in CrCoFeMnNi high entropy alloys at cryogenic temperature. <i>Materials and Design</i> , 2017, 131, 419-427.	3.3	54
113	Irradiation-induced damage evolution in concentrated Ni-based alloys. <i>Acta Materialia</i> , 2017, 135, 54-60.	3.8	46
114	High pressure synthesis of a hexagonal close-packed phase of the high-entropy alloy CrMnFeCoNi. <i>Nature Communications</i> , 2017, 8, 15634.	5.8	241
115	Indentation Schmid factor and incipient plasticity by nanoindentation pop-in tests in hexagonal close-packed single crystals. <i>Acta Materialia</i> , 2017, 134, 53-65.	3.8	39
116	Impact of alloy composition on one-dimensional glide of small dislocation loops in concentrated solid solution alloys. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2017, 700, 617-621.	2.6	21
117	The effect of injected interstitials on void formation in self-ion irradiated nickel containing concentrated solid solution alloys. <i>Journal of Nuclear Materials</i> , 2017, 488, 328-337.	1.3	43
118	Mechanisms of radiation-induced segregation in CrFeCoNi-based single-phase concentrated solid solution alloys. <i>Acta Materialia</i> , 2017, 126, 182-193.	3.8	133
119	Thermophysical properties of Ni-containing single-phase concentrated solid solution alloys. <i>Materials and Design</i> , 2017, 117, 185-192.	3.3	96
120	Suppression of vacancy cluster growth in concentrated solid solution alloys. <i>Acta Materialia</i> , 2017, 125, 231-237.	3.8	45
121	Probing elastically or plastically induced structural heterogeneities in bulk metallic glasses by nanoindentation pop-in tests. <i>AIP Advances</i> , 2017, 7, .	0.6	5
122	Understanding of the Elemental Diffusion Behavior in Concentrated Solid Solution Alloys. <i>Journal of Phase Equilibria and Diffusion</i> , 2017, 38, 434-444.	0.5	65
123	Microstructural control of FeCrAl alloys using Mo and Nb additions. <i>Materials Characterization</i> , 2017, 132, 126-131.	1.9	90
124	Phase stability, physical properties and strengthening mechanisms of concentrated solid solution alloys. <i>Current Opinion in Solid State and Materials Science</i> , 2017, 21, 267-284.	5.6	66
125	STEM Characterization of the Deformation Substructure of a NiCoCr Equiatomic Solid Solution Alloy. <i>Microscopy and Microanalysis</i> , 2017, 23, 752-753.	0.2	1
126	Evolution of irradiation-induced strain in an equiatomic NiFe alloy. <i>Scripta Materialia</i> , 2017, 140, 35-39.	2.6	27

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127	Effects of chemical alternation on damage accumulation in concentrated solid-solution alloys. <i>Scientific Reports</i> , 2017, 7, 4146.	1.6	32
128	Local Structure and Short-Range Order in a NiCoCr Solid Solution Alloy. <i>Physical Review Letters</i> , 2017, 118, 205501.	2.9	283
129	Quantum critical behavior in the asymptotic limit of high disorder in the medium entropy alloy NiCoCr <sub>0.8</sub> . <i>Npj Quantum Materials</i> , 2017, 2, .	1.8	18
130	Weldability of a high entropy CrMnFeCoNi alloy. <i>Scripta Materialia</i> , 2016, 124, 81-85.	2.6	130
131	Effects of two-temperature model on cascade evolution in Ni and NiFe. <i>Scripta Materialia</i> , 2016, 124, 6-10.	2.6	46
132	Direct Observation of Defect Range and Evolution in Ion-Irradiated Single Crystalline Ni and Ni Binary Alloys. <i>Scientific Reports</i> , 2016, 6, 19994.	1.6	131
133	Tailoring the physical properties of Ni-based single-phase equiatomic alloys by modifying the chemical complexity. <i>Scientific Reports</i> , 2016, 6, 20159.	1.6	166
134	Effects of Fe concentration on the ion-irradiation induced defect evolution and hardening in Ni-Fe solid solution alloys. <i>Acta Materialia</i> , 2016, 121, 365-373.	3.8	64
135	Enhancing radiation tolerance by controlling defect mobility and migration pathways in multicomponent single-phase alloys. <i>Nature Communications</i> , 2016, 7, 13564.	5.8	533
136	Ion irradiation induced defect evolution in Ni and Ni-based FCC equiatomic binary alloys. <i>Journal of Nuclear Materials</i> , 2016, 471, 193-199.	1.3	55
137	Effects of compositional complexity on the ion-irradiation induced swelling and hardening in Ni-containing equiatomic alloys. <i>Scripta Materialia</i> , 2016, 119, 65-70.	2.6	244
138	Annealing effects on the structural and magnetic properties of off-stoichiometric Fe-Mn-Ga ferromagnetic shape memory alloys. <i>Materials and Design</i> , 2016, 104, 327-332.	3.3	19
139	Microstructural stability and mechanical behavior of FeNiMnCr high entropy alloy under ion irradiation. <i>Acta Materialia</i> , 2016, 113, 230-244.	3.8	450
140	Effects of geometric factors and shear band patterns on notch sensitivity in bulk metallic glasses. <i>Intermetallics</i> , 2016, 79, 12-19.	1.8	30
141	Nanocrystallization in a Cu-doped Fe-based metallic glass. <i>Journal of Alloys and Compounds</i> , 2016, 688, 822-827.	2.8	14
142	Single versus successive pop-in modes in nanoindentation tests of single crystals. <i>Journal of Materials Research</i> , 2016, 31, 2065-2075.	1.2	15
143	Enhanced damage resistance and novel defect structure of CrFeCoNi under in situ electron irradiation. <i>Scripta Materialia</i> , 2016, 125, 5-9.	2.6	62
144	Thermal activation mechanisms and Labusch-type strengthening analysis for a family of high-entropy and equiatomic solid-solution alloys. <i>Acta Materialia</i> , 2016, 120, 108-119.	3.8	243

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145	Influence of chemical disorder on energy dissipation and defect evolution in advanced alloys. <i>Journal of Materials Research</i> , 2016, 31, 2363-2375.	1.2	110
146	Mechanism of Radiation Damage Reduction in Equiatomic Multicomponent Single Phase Alloys. <i>Physical Review Letters</i> , 2016, 116, 135504.	2.9	359
147	Instability Analysis and Free Volume Simulations of Shear Band Directions and Arrangements in Notched Metallic Glasses. <i>Scientific Reports</i> , 2016, 6, 34878.	1.6	21
148	Quantum Critical Behavior in a Concentrated Ternary Solid Solution. <i>Scientific Reports</i> , 2016, 6, 26179.	1.6	50
149	Strength statistics of single crystals and metallic glasses under small stressed volumes. <i>Progress in Materials Science</i> , 2016, 82, 118-150.	16.0	77
150	Phase-specific deformation behavior of a NiAl $\epsilon$ -Cr(Mo) lamellar composite under thermal and mechanical loads. <i>Journal of Alloys and Compounds</i> , 2016, 656, 481-490.	2.8	25
151	Investigation of defect clusters in ion-irradiated Ni and NiCo using diffuse X-ray scattering and electron microscopy. <i>Journal of Nuclear Materials</i> , 2016, 469, 153-161.	1.3	26
152	Exceptional damage-tolerance of a medium-entropy alloy CrCoNi at cryogenic temperatures. <i>Nature Communications</i> , 2016, 7, 10602.	5.8	1,175
153	Formation and growth of stacking fault tetrahedra in Ni via vacancy aggregation mechanism. <i>Scripta Materialia</i> , 2016, 114, 137-141.	2.6	42
154	A tale of two mechanisms: Strain-softening versus strain-hardening in single crystals under small stressed volumes. <i>Scripta Materialia</i> , 2016, 110, 48-52.	2.6	31
155	On the correlation between microscopic structural heterogeneity and embrittlement behavior in metallic glasses. <i>Scientific Reports</i> , 2015, 5, 14786.	1.6	70
156	Microstructures and mechanical properties of compositionally complex Co-free FeNiMnCr18 FCC solid solution alloy. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2015, 640, 217-224.	2.6	108
157	Nanoscale origins of the damage tolerance of the high-entropy alloy CrMnFeCoNi. <i>Nature Communications</i> , 2015, 6, 10143.	5.8	608
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