

# Hongbin Bei

## List of Publications by Year in descending order

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264  
papers

27,571  
citations

14614

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6113

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265  
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265  
docs citations

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times ranked

9401  
citing authors

#	ARTICLE	IF	CITATIONS
1	A fracture-resistant high-entropy alloy for cryogenic applications. <i>Science</i> , 2014, 345, 1153-1158.	6.0	3,982
2	The influences of temperature and microstructure on the tensile properties of a CoCrFeMnNi high-entropy alloy. <i>Acta Materialia</i> , 2013, 61, 5743-5755.	3.8	2,352
3	Temperature dependence of the mechanical properties of equiatomic solid solution alloys with face-centered cubic crystal structures. <i>Acta Materialia</i> , 2014, 81, 428-441.	3.8	1,387
4	Exceptional damage-tolerance of a medium-entropy alloy CrCoNi at cryogenic temperatures. <i>Nature Communications</i> , 2016, 7, 10602.	5.8	1,175
5	Relative effects of enthalpy and entropy on the phase stability of equiatomic high-entropy alloys. <i>Acta Materialia</i> , 2013, 61, 2628-2638.	3.8	1,004
6	Tuning element distribution, structure and properties by composition in high-entropy alloys. <i>Nature</i> , 2019, 574, 223-227.	13.7	874
7	Recovery, recrystallization, grain growth and phase stability of a family of FCC-structured multi-component equiatomic solid solution alloys. <i>Intermetallics</i> , 2014, 46, 131-140.	1.8	671
8	Nanoscale origins of the damage tolerance of the high-entropy alloy CrMnFeCoNi. <i>Nature Communications</i> , 2015, 6, 10143.	5.8	608
9	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
10	Influence of chemical disorder on energy dissipation and defect evolution in concentrated solid solution alloys. <i>Nature Communications</i> , 2015, 6, 8736.	5.8	477
11	Microstructural stability and mechanical behavior of FeNiMnCr high entropy alloy under ion irradiation. <i>Acta Materialia</i> , 2016, 113, 230-244.	3.8	450
12	Softening Caused by Profuse Shear Banding in a Bulk Metallic Glass. <i>Physical Review Letters</i> , 2006, 96, 105503.	2.9	380
13	Mechanism of Radiation Damage Reduction in Equiatomic Multicomponent Single Phase Alloys. <i>Physical Review Letters</i> , 2016, 116, 135504.	2.9	359
14	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
15	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
16	Effects of pre-strain on the compressive stress-strain response of Mo-alloy single-crystal micropillars. <i>Acta Materialia</i> , 2008, 56, 4762-4770.	3.8	287
17	Local Structure and Short-Range Order in a NiCoCr Solid Solution Alloy. <i>Physical Review Letters</i> , 2017, 118, 205501.	2.9	283
18	Nano-twin mediated plasticity in carbon-containing FeNiCoCrMn high entropy alloys. <i>Journal of Alloys and Compounds</i> , 2015, 647, 815-822.	2.8	281

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19	Compressive strengths of molybdenum alloy micro-pillars prepared using a new technique. <i>Scripta Materialia</i> , 2007, 57, 397-400.	2.6	260
20	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
21	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
22	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
23	A different type of indentation size effect. <i>Scripta Materialia</i> , 2008, 59, 1095-1098.	2.6	238
24	Microstructures and mechanical properties of a directionally solidified NiAl–Mo eutectic alloy. <i>Acta Materialia</i> , 2005, 53, 69-77.	3.8	222
25	Radiation-induced segregation on defect clusters in single-phase concentrated solid-solution alloys. <i>Acta Materialia</i> , 2017, 127, 98-107.	3.8	212
26	Influence of Indenter Tip Geometry on Elastic Deformation during Nanoindentation. <i>Physical Review Letters</i> , 2005, 95, 045501.	2.9	196
27	Effects of focused ion beam milling on the compressive behavior of directionally solidified micropillars and the nanoindentation response of an electropolished surface. <i>Acta Materialia</i> , 2009, 57, 503-510.	3.8	194
28	Flow serration in a Zr-based bulk metallic glass in compression at low strain rates. <i>Intermetallics</i> , 2008, 16, 813-818.	1.8	189
29	Size Effects and Stochastic Behavior of Nanoindentation Pop In. <i>Physical Review Letters</i> , 2011, 106, 165502.	2.9	189
30	Theoretical Strength and the Onset of Plasticity in Bulk Metallic Glasses Investigated by Nanoindentation with a Spherical Indenter. <i>Physical Review Letters</i> , 2004, 93, 125504.	2.9	184
31	Grain-boundary strengthening in nanocrystalline chromium and the Hall–Petch coefficient of body-centered cubic metals. <i>Scripta Materialia</i> , 2013, 68, 118-121.	2.6	178
32	Processing, Microstructure and Mechanical Properties of the CrMnFeCoNi High-Entropy Alloy. <i>Jom</i> , 2015, 67, 2262-2270.	0.9	177
33	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
34	Strength differences arising from homogeneous versus heterogeneous dislocation nucleation. <i>Physical Review B</i> , 2008, 77, .	1.1	166
35	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
36	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

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37	Dislocation starvation and exhaustion hardening in Mo alloy nanofibers. <i>Acta Materialia</i> , 2012, 60, 2258-2264.	3.8	145
38	Effects of focused ion beam milling on the nanomechanical behavior of a molybdenum-alloy single crystal. <i>Applied Physics Letters</i> , 2007, 91, .	1.5	141
39	The development of alumina-forming austenitic stainless steels for high-temperature structural use. <i>Jom</i> , 2008, 60, 12-18.	0.9	136
40	Investigation of strain-induced martensitic transformation in metastable austenite using nanoindentation. <i>Scripta Materialia</i> , 2010, 63, 540-543.	2.6	134
41	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
42	Overview of Strategies for High-Temperature Creep and Oxidation Resistance of Alumina-Forming Austenitic Stainless Steels. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2011, 42, 922-931.	1.1	131
43	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
44	Weldability of a high entropy CrMnFeCoNi alloy. <i>Scripta Materialia</i> , 2016, 124, 81-85.	2.6	130
45	Point defect evolution in Ni, NiFe and NiCr alloys from atomistic simulations and irradiation experiments. <i>Acta Materialia</i> , 2015, 99, 69-76.	3.8	120
46	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
47	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
48	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
49	Predictive multiphase evolution in Al-containing high-entropy alloys. <i>Nature Communications</i> , 2018, 9, 4520.	5.8	107
50	Indentation Schmid factor and orientation dependence of nanoindentation pop-in behavior of NiAl single crystals. <i>Journal of the Mechanics and Physics of Solids</i> , 2011, 59, 1147-1162.	2.3	106
51	Effect of residual stresses on the hardness of bulk metallic glasses. <i>Acta Materialia</i> , 2011, 59, 2858-2864.	3.8	105
52	Effect of Alloying Additions on Phase Equilibria and Creep Resistance of Alumina-Forming Austenitic Stainless Steels. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2009, 40, 1868-1880.	1.1	97
53	Structural rejuvenation in bulk metallic glasses. <i>Acta Materialia</i> , 2015, 86, 240-246.	3.8	96
54	Thermophysical properties of Ni-containing single-phase concentrated solid solution alloys. <i>Materials and Design</i> , 2017, 117, 185-192.	3.3	96

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55	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
56	Recent progress in quantifying glass-forming ability of bulk metallic glasses. <i>Intermetallics</i> , 2007, 15, 618-624.	1.8	91
57	Microstructural control of FeCrAl alloys using Mo and Nb additions. <i>Materials Characterization</i> , 2017, 132, 126-131.	1.9	90
58	Increased time-dependent room temperature plasticity in metallic glass nanopillars and its size-dependency. <i>International Journal of Plasticity</i> , 2012, 37, 108-118.	4.1	83
59	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
60	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
61	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
62	Indentation size effect in bulk metallic glass. <i>Scripta Materialia</i> , 2011, 64, 753-756.	2.6	75
63	Structural heterogeneity induced plasticity in bulk metallic glasses: From well-relaxed fragile glass to metal-like behavior. <i>Applied Physics Letters</i> , 2013, 103, .	1.5	74
64	Influence of irradiation temperature on void swelling in NiCoFeCrMn and NiCoFeCrPd. <i>Scripta Materialia</i> , 2019, 158, 57-61.	2.6	74
65	On the correlation between microscopic structural heterogeneity and embrittlement behavior in metallic glasses. <i>Scientific Reports</i> , 2015, 5, 14786.	1.6	70
66	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
67	Evolution of local lattice distortion under irradiation in medium- and high-entropy alloys. <i>Materialia</i> , 2018, 2, 73-81.	1.3	67
68	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
69	Directional solidification and microstructures of near-eutectic Cr <sup>3+</sup> Cr <sub>3</sub> Si alloys. <i>Acta Materialia</i> , 2003, 51, 6241-6252.	3.8	65
70	Single crystal plastic behavior of a single-phase, face-center-cubic-structured, equiatomic FeNiCrCo alloy. <i>Scripta Materialia</i> , 2015, 109, 108-112.	2.6	65
71	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
72	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

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73	Influences of surface preparation on nanoindentation pop-in in single-crystal Mo. Scripta Materialia, 2011, 65, 469-472.	2.6	63
74	High-Temperature Creep and Oxidation Behavior of Mo-Si-B Alloys with High Ti Contents. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2014, 45, 1102-1111.	1.1	63
75	Cooling-rate induced softening in a Zr <sub>50</sub> Cu <sub>50</sub> bulk metallic glass. Applied Physics Letters, 2007, 90, 071909.	1.5	62
76	On the shear-band direction in metallic glasses. Acta Materialia, 2011, 59, 4159-4167.	3.8	62
77	Enhanced damage resistance and novel defect structure of CrFeCoNi under in situ electron irradiation. Scripta Materialia, 2016, 125, 5-9.	2.6	62
78	Pressure-induced fcc to hcp phase transition in Ni-based high entropy solid solution alloys. Applied Physics Letters, 2017, 110, .	1.5	62
79	Aging effects on the mechanical properties of alumina-forming austenitic stainless steels. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2010, 527, 2079-2086.	2.6	61
80	Mechanical rejuvenation in bulk metallic glass induced by thermo-mechanical creep. Acta Materialia, 2018, 148, 384-390.	3.8	61
81	Thermodynamic modeling and experimental study of the Fe-Cr-Zr system. Journal of Nuclear Materials, 2013, 441, 190-202.	1.3	55
82	Ion irradiation induced defect evolution in Ni and Ni-based FCC equiatomic binary alloys. Journal of Nuclear Materials, 2016, 471, 193-199.	1.3	55
83	Effect of alloying elements on defect evolution in Ni-20X binary alloys. Acta Materialia, 2018, 151, 159-168.	3.8	55
84	Twinning-mediated work hardening and texture evolution in CrCoFeMnNi high entropy alloys at cryogenic temperature. Materials and Design, 2017, 131, 419-427.	3.3	54
85	Chemical complexity induced local structural distortion in NiCoFeMnCr high-entropy alloy. Materials Research Letters, 2018, 6, 450-455.	4.1	54
86	Determining the activation energies and slip systems for dislocation nucleation in body-centered cubic Mo and face-centered cubic Ni single crystals. Scripta Materialia, 2011, 65, 179-182.	2.6	53
87	Influence of compositional complexity on interdiffusion in Ni-containing concentrated solid-solution alloys. Materials Research Letters, 2018, 6, 293-299.	4.1	52
88	Hydrogen embrittlement of the equi-molar FeNiCoCr alloy. Acta Materialia, 2018, 157, 218-227.	3.8	52
89	Effects of Ti, Zr, and Hf on the phase stability of Mo <sub>ss</sub> + Mo <sub>3</sub> Si + Mo <sub>5</sub> SiB <sub>2</sub> alloys at 1600Å°C. Acta Materialia, 2010, 58, 541-548.	3.8	51
90	Enhanced strength and ductility of a tungsten-doped CoCrNi medium-entropy alloy. Journal of Materials Research, 2018, 33, 3301-3309.	1.2	51

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91	Quantum Critical Behavior in a Concentrated Ternary Solid Solution. <i>Scientific Reports</i> , 2016, 6, 26179.	1.6	50
92	Deformation-induced spatiotemporal fluctuation, evolution and localization of strain fields in a bulk metallic glass. <i>International Journal of Plasticity</i> , 2015, 71, 136-145.	4.1	49
93	Studies on the corrosion behavior of yttrium-implanted zircaloy-4. <i>Journal of Materials Science</i> , 2000, 35, 6225-6229.	1.7	48
94	A review of directionally solidified intermetallic composites for high-temperature structural applications. <i>Journal of Materials Science</i> , 2004, 39, 3975-3984.	1.7	48
95	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
96	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
97	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
98	Effects of two-temperature model on cascade evolution in Ni and NiFe. <i>Scripta Materialia</i> , 2016, 124, 6-10.	2.6	46
99	Irradiation-induced damage evolution in concentrated Ni-based alloys. <i>Acta Materialia</i> , 2017, 135, 54-60.	3.8	46
100	Enhanced void swelling in NiCoFeCrPd high-entropy alloy by indentation-induced dislocations. <i>Materials Research Letters</i> , 2018, 6, 584-591.	4.1	46
101	Suppression of vacancy cluster growth in concentrated solid solution alloys. <i>Acta Materialia</i> , 2017, 125, 231-237.	3.8	45
102	Single-Phase Concentrated Solid-Solution Alloys: Bridging Intrinsic Transport Properties and Irradiation Resistance. <i>Frontiers in Materials</i> , 2018, 5, .	1.2	45
103	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
104	Elastic constants of single crystal Cr <sub>3</sub> Si and Cr <sub>3</sub> Si lamellar eutectic composites: a comparison of ultrasonic and nanoindentation measurements. <i>Scripta Materialia</i> , 2004, 51, 875-879.	2.6	44
105	Oxygen effects on plastic deformation of a Zr-based bulk metallic glass. <i>Applied Physics Letters</i> , 2008, 92, .	1.5	44
106	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
107	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
108	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

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109	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
110	Formation and growth of stacking fault tetrahedra in Ni via vacancy aggregation mechanism. <i>Scripta Materialia</i> , 2016, 114, 137-141.	2.6	42
111	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
112	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
113	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
114	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
115	Effects of composition on lamellar microstructures of near-eutectic Cr-Cr <sub>3</sub> Si alloys. <i>Intermetallics</i> , 2003, 11, 283-289.	1.8	39
116	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
117	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
118	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
119	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
120	An experimental evaluation of the constant $k^2$ relating the contact stiffness to the contact area in nanoindentation. <i>Philosophical Magazine</i> , 2006, 86, 5285-5298.	0.7	37
121	Specimen Size Effects on Zr-Based Bulk Metallic Glasses Investigated by Uniaxial Compression and Spherical Nanoindentation. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2010, 41, 1735-1742.	1.1	37
122	Synthesis, characterization, and nanoindentation response of single crystal Fe-Cr-Ni alloys with FCC and BCC structures. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2014, 611, 177-187.	2.6	37
123	Design considerations for high entropy alloys in advanced nuclear applications. <i>Journal of Nuclear Materials</i> , 2022, 567, 153814.	1.3	36
124	Effects of ion irradiation on Zr <sub>52.5</sub> Cu <sub>17.9</sub> Ni <sub>14.6</sub> Al <sub>10</sub> Ti <sub>5</sub> (BAM-11) bulk metallic glass. <i>Intermetallics</i> , 2014, 53, 62-66.	1.8	35
125	Effects of focused ion beam milling and pre-straining on the microstructure of directionally solidified molybdenum pillars: A Laue diffraction analysis. <i>Scripta Materialia</i> , 2010, 62, 746-749.	2.6	34
126	Scale effects in convoluted thermal/spatial statistics of plasticity initiation in small stressed volumes during nanoindentation. <i>Materials Science and Technology</i> , 2012, 28, 1055-1059.	0.8	34



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127	Phase-specific deformation behavior of a relatively tough NiAl–Cr(Mo) lamellar composite. <i>Scripta Materialia</i> , 2014, 84-85, 59-62.	2.6	34
128	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
129	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
130	Enhanced plasticity in a Zr-based bulk metallic glass composite with <i>in situ</i> formed intermetallic phases. <i>Applied Physics Letters</i> , 2009, 95, .	1.5	33
131	A Highly Fatigue-Resistant Zr-Based Bulk Metallic Glass. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2013, 44, 5688-5693.	1.1	32
132	Effects of chemical alternation on damage accumulation in concentrated solid-solution alloys. <i>Scientific Reports</i> , 2017, 7, 4146.	1.6	32
133	Creep in directionally solidified NiAl–Mo eutectics. <i>Scripta Materialia</i> , 2011, 65, 699-702.	2.6	31
134	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
135	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
136	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
137	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
138	STEM Characterization of Dislocation Loops in Irradiated FCC Alloys. <i>Journal of Nuclear Materials</i> , 2021, 544, 152658.	1.3	30
139	Thermal stability of Cr–Cr <sub>3</sub> Si eutectic microstructures. <i>Acta Materialia</i> , 2009, 57, 3823-3829.	3.8	29
140	Room temperature nanoindentation creep of nanocrystalline Cu and Cu alloys. <i>Materials Letters</i> , 2012, 70, 26-29.	1.3	29
141	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
142	GeV ion irradiation of NiFe and NiCo: Insights from MD simulations and experiments. <i>Acta Materialia</i> , 2018, 151, 191-200.	3.8	28
143	PVD synthesis and high-throughput property characterization of Ni–Fe–Cr alloy libraries. <i>Measurement Science and Technology</i> , 2005, 16, 46-53.	1.4	27
144	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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145	Lattice Distortion and Phase Stability of Pd-Doped NiCoFeCr Solid-Solution Alloys. <i>Entropy</i> , 2018, 20, 900.	1.1	27
146	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
147	Effects of machine stiffness on the loading–displacement curve during spherical nano-indentation. <i>Journal of Materials Research</i> , 2013, 28, 1903-1911.	1.2	26
148	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
149	Phase-specific deformation behavior of a NiAl–Cr(Mo) lamellar composite under thermal and mechanical loads. <i>Journal of Alloys and Compounds</i> , 2016, 656, 481-490.	2.8	25
150	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
151	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
152	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
153	Quantifying early stage irradiation damage from nanoindentation pop-in tests. <i>Scripta Materialia</i> , 2018, 157, 49-53.	2.6	24
154	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
155	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
156	Spatially resolved strain measurements in Mo-alloy micropillars by differential aperture x-ray microscopy. <i>Applied Physics Letters</i> , 2008, 93, 071904.	1.5	23
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