Yong Zhang

List of Publications by Citations

346 papers	20,767 citations	66 h-index	137 g-index
369 ext. papers	25,523 ext. citations	4.6 avg, IF	7.44 L-index

#	Paper	IF	Citations
346	Microstructures and properties of high-entropy alloys. *Progress in Materials Science*, **2014**, 61, 1-93	42.2	3296
345	Solid-Solution Phase Formation Rules for Multi-component Alloys. *Advanced Engineering Materials*, **2008**, 10, 534-538	3.5	1412
344	Prediction of high-entropy stabilized solid-solution in multi-component alloys. *Materials Chemistry and Physics*, **2012**, 132, 233-238	4.4	1129
343	Solid solution alloys of AlCoCrFeNiTix with excellent room-temperature mechanical properties. *Applied Physics Letters*, **2007**, 90, 181904	3.4	648
342	Novel microstructure and properties of multicomponent CoCrCuFeNiTix alloys. *Intermetallics*, **2007**, 15, 357-362	3.5	440
341	Making metallic glasses plastic by control of residual stress. *Nature Materials*, **2006**, 5, 857-60	27	427
340	Science and technology in high-entropy alloys. *Science China Materials*, **2018**, 61, 2-22	7.1	404
339	Alloy Design and Properties Optimization of High-Entropy Alloys. *Jom*, **2012**, 64, 830-838	2.1	390
338	High-entropy alloys with high saturation magnetization, electrical resistivity, and malleability. *Scientific Reports*, **2013**, 3, 1455	4.9	343
337	Effect of Nb addition on the microstructure and properties of AlCoCrFeNi high-entropy alloy. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing* , **2012**, 532, 480-486	5.3	303
336	High-entropy Al0.3CoCrFeNi alloy fibers with high tensile strength and ductility at ambient and cryogenic temperatures. *Acta Materialia*, **2017**, 123, 285-294	8.4	262
335	Mechanism of Radiation Damage Reduction in Equiatomic Multicomponent Single Phase Alloys. *Physical Review Letters*, **2016**, 116, 135504	7.4	250
334	Tensile deformation micromechanisms for bulk metallic glass matrix composites: From work-hardening to softening. *Acta Materialia*, **2011**, 59, 4126-4137	8.4	239
333	Thickness of shear bands in metallic glasses. *Applied Physics Letters*, **2006**, 89, 071907	3.4	232
332	A hexagonal close-packed high-entropy alloy: The effect of entropy. *Materials and Design*, **2016**, 96, 10-18	8.1	229
331	Microstructure and compressive properties of multicomponent Alx(TiVCrMnFeCoNiCu)100− high-entropy alloys. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2007**, 454-455, 260-265	5.3	195
330	Aluminum Alloying Effects on Lattice Types, Microstructures, and Mechanical Behavior of High-Entropy Alloys Systems. *Jom*, **2013**, 65, 1848-1858	2.1	180

329	Effects of AL addition on microstructure and mechanical properties of Al CoCrFeNi High-entropy alloy. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2015**, 648, 15-22	5.3	172
328	Guidelines in predicting phase formation of high-entropy alloys. *MRS Communications*, **2014**, 4, 57-62	2.7	171
327	The ultrahigh charpy impact toughness of forged AlxCoCrFeNi high entropy alloys at room and cryogenic temperatures. *Intermetallics*, **2016**, 70, 24-28	3.5	157
326	Microstructure and Compressive Properties of NbTiVTaAlx High Entropy Alloys. *Procedia Engineering*, **2012**, 36, 292-298		156
325	Effects of compositional complexity on the ion-irradiation induced swelling and hardening in Ni-containing equiatomic alloys. *Scripta Materialia*, **2016**, 119, 65-70	5.6	156
324	Optimum glass formation at off-eutectic composition and its relation to skewed eutectic coupled zone in the La based La□Al(Cu,Ni) pseudo ternary system. *Acta Materialia*, **2003**, 51, 4551-4561	8.4	150
323	Tailoring magnetic behavior of CoFeMnNiX (X□ Al, Cr, Ga, and Sn) high entropy alloys by metal doping. *Acta Materialia*, **2017**, 130, 10-18	8.4	143
322	Preparation of porous materials with ordered hole structure. *Advances in Colloid and Interface Science*, **2006**, 121, 9-23	14.3	142
321	NbTaV-(Ti,W) refractory high-entropy alloys: Experiments and modeling. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2016**, 674, 203-211	5.3	134
320	Serration and noise behaviors in materials. *Progress in Materials Science*, **2017**, 90, 358-460	42.2	128
319	Irradiation Resistance in Al x CoCrFeNi High Entropy Alloys. *Jom*, **2015**, 67, 2340-2344	2.1	126
318	Effects of Al and Si addition on the structure and properties of CoFeNi equal atomic ratio alloy. *Journal of Magnetism and Magnetic Materials*, **2014**, 371, 60-68	2.8	125
317	Tailoring the physical properties of Ni-based single-phase equiatomic alloys by modifying the chemical complexity. *Scientific Reports*, **2016**, 6, 20159	4.9	124
316	Large plasticity and tensile necking of Zr-based bulk-metallic-glass-matrix composites synthesized by the Bridgman solidification. *Applied Physics Letters*, **2009**, 94, 151905	3.4	123
315	Atomic packing efficiency and phase transition in a high entropy alloy. *Journal of Alloys and Compounds*, **2009**, 478, 321-324	5.7	118
314	Cryogenic-deformation-induced phase transformation in an FeCoCrNi high-entropy alloy. *Materials Research Letters*, **2018**, 6, 236-243	7.4	115
313	Mechanical behavior of high-entropy alloys. *Progress in Materials Science*, **2021**, 118, 100777	42.2	115
312	Strategy for pinpointing the formation of B2 CuZr in metastable CuZr-based shape memory alloys. *Acta Materialia*, **2011**, 59, 6620-6630	8.4	114

311	High-entropy functional materials. *Journal of Materials Research*, **2018**, 33, 3138-3155	2.5	114
310	Superior high tensile elongation of a single-crystal CoCrFeNiAl0.3 high-entropy alloy by Bridgman solidification. *Intermetallics*, **2014**, 54, 104-109	3.5	113
309	Triple yielding and deformation mechanisms in metastable Cu47.5Zr47.5Al5 composites. *Acta Materialia*, **2012**, 60, 6000-6012	8.4	113
308	Phase transformation induced by lattice distortion in multiprincipal component CoCrFeNiCuxAl1− solid-solution alloys. *Applied Physics Letters*, **2008**, 92, 241917	3.4	112
307	Phase Stability of Low-Density, Multiprincipal Component Alloys Containing Aluminum, Magnesium, and Lithium. *Jom*, **2014**, 66, 2009-2020	2.1	109
306	New ion beam materials laboratory for materials modification and irradiation effects research. *Nuclear Instruments & Methods in Physics Research B*, **2014**, 338, 19-30	1.2	106
305	Design of Light-Weight High-Entropy Alloys. *Entropy*, **2016**, 18, 333	2.8	105
304	Tuned critical avalanche scaling in bulk metallic glasses. *Scientific Reports*, **2014**, 4, 4382	4.9	99
303	Solid Solution Formation Criteria for High Entropy Alloys. *Materials Science Forum*, **2007**, 561-565, 1337-1339	0.4	95
302	Fracture Toughness and Fatigue Crack Growth Behavior of As-Cast High-Entropy Alloys. *Jom*, **2015**, 67, 2288-2295	2.1	93
301	Microstructures and Crackling Noise of AlxNbTiMoV High Entropy Alloys. *Entropy*, **2014**, 16, 870-884	2.8	90
300	High temperature deformation behaviors of a high Nb containing TiAl alloy. *Intermetallics*, **2007**, 15, 668-674	3.5	88
299	A brief review of high-entropy films. *Materials Chemistry and Physics*, **2018**, 210, 12-19	4.4	88
298	Cooling Rate and Size Effect on the Microstructure and Mechanical Properties of AlCoCrFeNi High Entropy Alloy. *Journal of Engineering Materials and Technology, Transactions of the ASME*, **2009**, 131,	1.8	84
297	Effect of Cu addition on the microstructure and mechanical properties of AlCoCrFeNiTi0.5 solid-solution alloy. *Journal of Alloys and Compounds*, **2008**, 466, 201-204	5.7	84
296	Formation of Zr-Based Bulk Metallic Glasses from Low Purity of Materials by Yttrium Addition. *Materials Transactions, JIM*, **2000**, 41, 1410-1414		84
295	Irradiation Behavior in High Entropy Alloys. *Journal of Iron and Steel Research International*, **2015**, 22, 879-884	1.2	82
294	Microstructures and mechanical properties of AlxCrFeNiTi0.25 alloys. *Journal of Alloys and Compounds*, **2015**, 619, 610-615	5.7	82

293	Local temperature rises during mechanical testing of metallic glasses. *Journal of Materials Research*, **2007**, 22, 419-427	2.5	81
292	Effect of Co addition on crystal structure and mechanical properties of Ti0.5CrFeNiAlCo high entropy alloy. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2008**, 496, 214-216	5.3	79
291	Role of addition in formation and properties of Zr-based bulk metallic glasses. *Intermetallics*, **2002**, 10, 1249-1257	3.5	77
290	Microstructural Characteristics and Mechanical Behaviors of AlCoCrFeNi High-Entropy Alloys at Ambient and Cryogenic Temperatures. *Materials Science Forum*, **2011**, 688, 419-425	0.4	75
289	Crystallization kinetics and glass transition of Zr41Ti14Cu12.5Ni10FexBe22.5 bulk metallic glasses. *Applied Physics Letters*, **1999**, 75, 2392-2394	3.4	74
288	Phase stability and microstructures of high entropy alloys ion irradiated to high doses. *Journal of Nuclear Materials*, **2016**, 480, 100-108	3.3	73
287	Effects of temperature on the irradiation responses of Al0.1CoCrFeNi high entropy alloy. *Scripta Materialia*, **2018**, 144, 31-35	5.6	71
286	Excellent ductility and serration feature of metastable CoCrFeNi high-entropy alloy at extremely low temperatures. *Science China Materials*, **2019**, 62, 853-863	7.1	70
285	A Successful Synthesis of the CoCrFeNiAl0.3 Single-Crystal, High-Entropy Alloy by Bridgman Solidification. *Jom*, **2013**, 65, 1751-1758	2.1	69
284	Morphology Transition from Dendrites to Equiaxed Grains for AlCoCrFeNi High-Entropy Alloys by Copper Mold Casting and Bridgman Solidification. *Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science*, **2012**, 43, 2625-2630	2.3	69
283	TENSILE AND COMPRESSIVE MECHANICAL BEHAVIOR OF A CoCrCuFeNiAl0.5 HIGH ENTROPY ALLOY. *International Journal of Modern Physics B*, **2009**, 23, 1254-1259	1.1	69
282	Microstructure characterizations and strengthening mechanism of multi-principal component AlCoCrFeNiTi0.5 solid solution alloy with excellent mechanical properties. *Materials Letters*, **2008**, 62, 2673-2676	3.3	69
281	Simultaneous enhancement of strength and ductility in a NiCoCrFe high-entropy alloy upon dynamic tension: Micromechanism and constitutive modeling. *International Journal of Plasticity*, **2020**, 124, 226-246	7.6	69
280	High temperature soft magnetic materials: FeCo alloys and composites. *IEEE Transactions on Magnetics*, **2000**, 36, 3388-3393	2	66
279	The microstructure and properties of (FeCrNiCo)Al Cu high-entropy alloys and their TiC-reinforced composites. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2014**, 598, 244-250	5.3	65
278	Strengthening in Al0.25CoCrFeNi high-entropy alloys by cold rolling. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2017**, 707, 593-601	5.3	64
277	Serrated flow kinetics in a Zr-based bulk metallic glass. *Intermetallics*, **2010**, 18, 2057-2064	3.5	64
276	Functional properties and promising applications of high entropy alloys. *Scripta Materialia*, **2020**, 187, 188-193	5.6	62

275	Temperature Effects on Deformation and Serration Behavior of High-Entropy Alloys (HEAs). *Jom*, **2014**, 66, 2002-2008	2.1	62
274	Natural-mixing guided design of refractory high-entropy alloys with as-cast tensile ductility. *Nature Materials*, **2020**, 19, 1175-1181	27	62
273	Damping behavior of AlxCoCrFeNi high-entropy alloys by a dynamic mechanical analyzer. *Journal of Alloys and Compounds*, **2014**, 604, 331-339	5.7	61
272	Micromechanisms of plastic deformation of a dendrite/Zr-based bulk-metallic-glass composite. *Scripta Materialia*, **2009**, 61, 1087-1090	5.6	61
271	Multistage work hardening assisted by multi-type twinning in ultrafine-grained heterostructural eutectic high-entropy alloys. *Materials Today*, **2020**, 41, 62-71	21.8	61
270	Glass forming properties of Zr-based bulk metallic alloys. *Journal of Non-Crystalline Solids*, **2003**, 315, 206-210	3.9	60
269	Hierarchical crack buffering triples ductility in eutectic herringbone high-entropy alloys. *Science*, **2021**, 373, 912-918	33.3	60
268	Microstructural features and tensile behaviors of the Al0.5CrCuFeNi2 high-entropy alloys by cold rolling and subsequent annealing. *Materials and Design*, **2015**, 88, 1057-1062	8.1	57
267	Processing effects on the magnetic and mechanical properties of FeCoNiAl0.2Si0.2 high entropy alloy. *International Journal of Minerals, Metallurgy and Materials*, **2013**, 20, 549-555	3.1	55
266	Senary refractory high entropy alloy MoNbTaTiVW. *Materials Science and Technology*, **2015**, 31, 1207-1213	1.5	54
265	Precipitation behavior of AlxCoCrFeNi high entropy alloys under ion irradiation. *Scientific Reports*, **2016**, 6, 32146	4.9	54
264	Correlations for predicting plasticity or brittleness of metallic glasses. *Journal of Alloys and Compounds*, **2007**, 434-435, 2-5	5.7	54
263	Formation and properties of Zr48Nb8Cu14Ni12Be18 bulk metallic glass. *Acta Materialia*, **2003**, 51, 1971-1979	8.4	54
262	Microstructure control and ductility improvement of La[Al(Cu, Ni)] composites by Bridgman solidification. *Acta Materialia*, **2005**, 53, 2607-2616	8.4	54
261	A Criterion for Topological Close-Packed Phase Formation in High Entropy Alloys. *Entropy*, **2015**, 17, 2355-2366	2.8	53
260	Senary refractory high-entropy alloy Cr MoNbTaVW. *Calphad: Computer Coupling of Phase Diagrams and Thermochemistry*, **2015**, 51, 193-201	1.9	51
259	Synthesis of La-based in-situ bulk metallic glass matrix composite. *Intermetallics*, **2002**, 10, 1203-1205	3.5	50
258	Local lattice distortion in NiCoCr, FeCoNiCr and FeCoNiCrMn concentrated alloys investigated by synchrotron X-ray diffraction. *Materials and Design*, **2018**, 155, 1-7	8.1	50

257	High-Entropy Materials **2019**,		49
256	Molecular dynamics simulation of AlCoCrCuFeNi high entropy alloy thin film growth. *Intermetallics*, **2016**, 68, 78-86	3.5	49
255	Nano-Crystallization of High-Entropy Amorphous NbTiAlSiWxNy Films Prepared by Magnetron Sputtering. *Entropy*, **2016**, 18, 226	2.8	49
254	Mechanical response and deformation behavior of Al0.6CoCrFeNi high-entropy alloys upon dynamic loading. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2018**, 727, 208-213	5.3	48
253	Strain rate effects on the dynamic mechanical properties of the AlCrCuFeNi2 high-entropy alloy. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing* , **2016**, 649, 35-38	5.3	48
252	Optimizing mechanical properties of AlCoCrFeNiTi x high-entropy alloys by tailoring microstructures. *Acta Metallurgica Sinica (English Letters)*, **2013**, 26, 277-284	2.5	48
251	The Phase Competition and Stability of High-Entropy Alloys. *Jom*, **2014**, 66, 1973-1983	2.1	47
250	Evolution of local lattice distortion under irradiation in medium- and high-entropy alloys. *Materialia*, **2018**, 2, 73-81	3.2	46
249	Optical simulation and preparation of novel Mo/ZrSiN/ZrSiON/SiO 2 solar selective absorbing coating. *Solar Energy Materials and Solar Cells*, **2017**, 167, 178-183	6.4	45
248	Microstructure and Corrosion Behavior of (CoCrFeNi)Nb High-Entropy Alloy Coating Fabricated by Plasma Spraying. *Materials*, **2019**, 12,	3.5	45
247	Temperature effects on the serrated behavior of an Al0.5CoCrCuFeNi high-entropy alloy. *Materials Chemistry and Physics*, **2018**, 210, 20-28	4.4	45
246	Glass formation mechanism of minor yttrium addition in CuZrAl alloys. *Applied Physics Letters*, **2006**, 89, 131904	3.4	45
245	Influence of Al and Cu elements on the microstructure and properties of (FeCrNiCo)AlxCuy high-entropy alloys. *Journal of Alloys and Compounds*, **2014**, 614, 203-210	5.7	44
244	Influence of Bridgman solidification on microstructures and magnetic behaviors of a non-equiatomic FeCoNiAlSi high-entropy alloy. *Intermetallics*, **2015**, 67, 171-176	3.5	44
243	Corrosion and Serration Behaviors of TiZr0.5NbCr0.5VxMoy High Entropy Alloys in Aqueous Environments. *Metals*, **2014**, 4, 597-608	2.3	43
242	Multi-step shear banding for bulk metallic glasses at ambient and cryogenic temperatures. *Materials Chemistry and Physics*, **2012**, 136, 75-79	4.4	43
241	Nd65Al10Fe25Cox (x=0,5,10) bulk metallic glasses with wide supercooled liquid regions. *Journal of Applied Physics*, **2001**, 89, 3529-3531	2.5	43
240	Temperature measurements during high flux ion beam irradiations. *Review of Scientific Instruments*, **2016**, 87, 024902	1.7	43

239	Structural damage and phase stability of Al0.3CoCrFeNi high entropy alloy under high temperature ion irradiation. *Acta Materialia*, **2020**, 188, 1-15	8.4	42
238	Synthesis of AlxCoCrFeNi high-entropy alloys by high-gravity combustion from oxides. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2017**, 707, 668-673	5.3	41
237	Formation of Zr□Co□Al bulk metallic glasses with high strength and large plasticity. *Intermetallics*, **2012**, 31, 282-286	3.5	41
236	Fabrication and mechanical characterization of a series of plastic Zr-based bulk metallic glass matrix composites. *Materials & Design*, **2009**, 30, 3966-3971		41
235	Low-temperature shear banding for a Cu-based bulk-metallic glass. *Scripta Materialia*, **2010**, 63, 871-874	5.6	41
234	Ion irradiation induced defect evolution in Ni and Ni-based FCC equiatomic binary alloys. *Journal of Nuclear Materials*, **2016**, 471, 193-199	3.3	41
233	Ultrafine-grained dual phase Al0.45CoCrFeNi high-entropy alloys. *Materials and Design*, **2019**, 180, 107918	8.1	40
232	A Brief Review of High Entropy Alloys and Serration Behavior and Flow Units. *Journal of Iron and Steel Research International*, **2016**, 23, 2-6	1.2	40
231	Designing Bulk Metallic Glass Composites with Enhanced Formability and Plasticity. *Journal of Materials Science and Technology*, **2014**, 30, 566-575	9.1	40
230	Equation of state of bulk metallic glasses studied by an ultrasonic method. *Applied Physics Letters*, **2001**, 79, 3947-3949	3.4	40
229	Effects of Nitrogen Content on the Structure and Mechanical Properties of (AlCrFeNiTi)N High-Entropy Films by Reactive Sputtering. *Entropy*, **2018**, 20,	2.8	40
228	Tensile softening of metallic-glass-matrix composites in the supercooled liquid region. *Applied Physics Letters*, **2012**, 100, 121902	3.4	39
227	Effects of Temperature on Serrated Flows of Al0.5CoCrCuFeNi High-Entropy Alloy. *Jom*, **2015**, 67, 2314-2320	2.1	38
226	Novel high entropy alloys of FexCo1-xNiMnGa with excellent soft magnetic properties. *Intermetallics*, **2018**, 100, 1-8	3.5	38
225	Ductile-to-brittle transition of in situ dendrite-reinforced metallic-glass□matrix composites. *Scripta Materialia*, **2011**, 64, 462-465	5.6	36
224	Metallographic analysis of Cu□Zr□Al bulk amorphous alloys with yttrium addition. *Scripta Materialia*, **2006**, 54, 1351-1355	5.6	36
223	Rare-earth high entropy alloys with hexagonal close-packed structure. *Journal of Applied Physics*, **2018**, 124, 195101	2.5	36
222	Development of plastic Ti-based bulk-metallic-glass-matrix composites by controlling the microstructures. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2010**, 527, 7752-7756	5.3	34

221	Tailoring Microstructures and Mechanical Properties of Zr-Based Bulk Metallic Glass Matrix Composites by the Bridgman Solidification. *Advanced Engineering Materials*, **2008**, 10, 1039-1042	3.5	34
220	Exploring radiation induced segregation mechanisms at grain boundaries in equiatomic CoCrFeNiMn high entropy alloy under heavy ion irradiation. *Scripta Materialia*, **2018**, 156, 80-84	5.6	33
219	Quasi-static and dynamic deformation behaviors of Zr-based bulk metallic glass composites fabricated by the Bridgman solidification. *Journal of Alloys and Compounds*, **2009**, 486, 527-531	5.7	33
218	A body-centered cubic Zr50Ti35Nb15 medium-entropy alloy with unique properties. *Scripta Materialia*, **2020**, 178, 329-333	5.6	33
217	Formation of Cu$_{2}$ZrAlEr bulk metallic glass composites with enhanced deformability. *Intermetallics*, **2012**, 30, 132-138	3.5	32
216	Delayed damage accumulation by athermal suppression of defect production in concentrated solid solution alloys. *Materials Research Letters*, **2018**, 6, 136-141	7.4	31
215	Abnormal temperature dependence of impact toughness in Al CoCrFeNi system high entropy alloys. *Materials Chemistry and Physics*, **2018**, 210, 213-221	4.4	31
214	Crystallization behaviour in a new multicomponent Ti16.6Zr16.6Hf16.6Ni20Cu20Al10 metallic glass developed by the equiatomic substitution technique. *Philosophical Magazine*, **2003**, 83, 2371-2381	1.6	30
213	Phase stability of single phase Al0.12CrNiFeCo high entropy alloy upon irradiation. *Materials and Design*, **2018**, 160, 1208-1216	8.1	30
212	Enhanced strength and transformation-induced plasticity in rapidly solidified Zr$_{}$Co$_{}$(Al) alloys. *Scripta Materialia*, **2013**, 68, 897-900	5.6	29
211	Strain rate response of mechanical behaviors for a Zr-based bulk metallic glass matrix composite. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing* , **2009**, 515, 141-145	5.3	29
210	A Novel Low-Activation VCrFeTaW (= 0.1, 0.2, 0.3, 0.4, and 1) High-Entropy Alloys with Excellent Heat-Softening Resistance. *Entropy*, **2018**, 20,	2.8	29
209	A comparison study of local lattice distortion in Ni80Pd20 binary alloy and FeCoNiCrPd high-entropy alloy. *Scripta Materialia*, **2018**, 156, 14-18	5.6	28
208	Superelasticity and Serration Behavior in Small-Sized NiMnGa Alloys. *Advanced Engineering Materials*, **2014**, 16, 955-960	3.5	28
207	Fabrication and characterization of metallic glasses with a specific microstructure for micro-electro-mechanical system applications. *Journal of Non-Crystalline Solids*, **2008**, 354, 3308-3316	3.9	28
206	Glass-Forming Ability and Competitive Crystalline Phases for Lightweight Ti-Be$_{}$Based Alloys. *Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science*, **2010**, 41, 1670-1676	2.3	27
205	Wide-temperature-range perfect superelasticity and giant elastocaloric effect in a high entropy alloy. *Materials Research Letters*, **2019**, 7, 482-489	7.4	26
204	Compositional gradient films constructed by sputtering in a multicomponent Ti$_{}$Al(Cr, Fe, Ni) system. *Journal of Materials Research*, **2018**, 33, 3330-3338	2.5	26

203	A study of the glass forming ability in ZrNiAl alloys. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2006**, 441, 106-111	5.3	26
202	Bulk Glass Formation of 12 mm Rod in La□CuNi□Al Alloys. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2004**, 375-377, 436-439	5.3	26
201	Deformation mechanisms of Al0.1CoCrFeNi high entropy alloy at ambient and cryogenic temperatures. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2018**, 733, 408-413	5.3	25
200	Effects of Cu and Zn on microstructures and mechanical behavior of the medium-entropy aluminum alloy. *Journal of Alloys and Compounds*, **2020**, 820, 153092	5.7	25
199	Microstructural control and properties optimization of high-entrop alloys. *Procedia Engineering*, **2012**, 27, 1169-1178		24
198	Quasi-static and dynamic deformation behaviors of in situ Zr-based bulk-metallic-glass-matrix composites. *Journal of Materials Research*, **2010**, 25, 2264-2270	2.5	24
197	Synthesis of plastic Zr-based bulk metallic glass matrix composites by the copper-mould suction casting and the Bridgman solidification. *Journal of Alloys and Compounds*, **2009**, 477, 436-439	5.7	24
196	Minor alloying behavior in bulk metallic glasses and high-entropy alloys **2008**, 51, 427-437		24
195	Formation and properties of Zr48Nb8Fe8Cu12Be24 bulk metallic glass. *Journal of Materials Research*, **2001**, 16, 1675-1679	2.5	24
194	Amorphous phase stability of NbTiAlSiN X high-entropy films. *Rare Metals*, **2018**, 37, 682-689	5.5	23
193	Jerky-flow characteristics for a Zr-based bulk metallic glass. *Scripta Materialia*, **2010**, 63, 1081-1084	5.6	23
192	Effects of high boron content on crystallization, forming ability and magnetic properties of amorphous Fe91□Zr5BxNb4 alloy. *Journal of Non-Crystalline Solids*, **2003**, 332, 43-52	3.9	23
191	Thermal stability and mechanical properties of Cu46Zr46Ag8 bulk metallic glass and its composites. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing* , **2013**, 559, 711-718	5.3	22
190	Ti□ZrBe ternary bulk metallic glasses correlated with binary eutectic clusters. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2010**, 527, 6248-6250	5.3	22
189	Optimized interface and mechanical properties of W fiber/Zr-based bulk metallic glass composites by minor Nb addition. *Intermetallics*, **2007**, 15, 1309-1315	3.5	22
188	Radiation damage buildup by athermal defect reactions in nickel and concentrated nickel alloys. *Materials Research Letters*, **2017**, 5, 433-439	7.4	21
187	He behavior in Ni and Ni-based equiatomic solid solution alloy. *Journal of Nuclear Materials*, **2018**, 505, 200-206	3.3	21
186	G-mode magnetic force microscopy: Separating magnetic and electrostatic interactions using big data analytics. *Applied Physics Letters*, **2016**, 108, 193103	3.4	21

185	MnFeNiCuPt and MnFeNiCuCo high-entropy alloys designed based on L1 0 structure in Pettifor map for binary compounds. *Intermetallics*, **2017**, 82, 107-115	3.5	20
184	Preparation and giant magneto-impedance behavior of Co-based amorphous wires. *Intermetallics*, **2013**, 42, 62-67	3.5	20
183	Multistep superelasticity of Ni-Mn-Ga and Ni-Mn-Ga-Co-Cu microwires under stress-temperature coupling. *Acta Materialia*, **2017**, 140, 326-336	8.4	20
182	Bulk metallic glass formation of Ti-based alloys from low purity elements. *Materials Letters*, **2006**, 60, 1256-1260	3.3	20
181	Glass-forming ability of Pr(Cu,Ni)Al alloys in eutectic system. *Journal of Materials Research*, **2003**, 18, 664-671	2.5	20
180	Amorphous phase formation rules in high-entropy alloys. *Chinese Physics B*, **2017**, 26, 018104	1.2	19
179	Mechanical Properties and Corrosion Resistance of NbTiAlSiZrN High-Entropy Films Prepared by RF Magnetron Sputtering. *Entropy*, **2019**, 21,	2.8	19
178	Phase Selection, Lattice Distortions, and Mechanical Properties in High-Entropy Alloys. *Advanced Engineering Materials*, **2020**, 22, 2000466	3.5	19
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