Zhao-Ping Lu

List of Publications by Year in Descending Order

258 papers	16,549 citations	61 h-index	122 g-index
266 ext. papers	20,007 ext. citations	6.6 avg, IF	6.9 L-index

#	Paper	IF	Citations
258	Additive manufacturing of metals: Microstructure evolution and multistage control. *Journal of Materials Science and Technology*, **2022**, 100, 224-236	9.1	30
257	A strategy to design eutectic high-entropy alloys based on binary eutectics. *Journal of Materials Science and Technology*, **2022**, 103, 152-156	9.1	3
256	Design of Hierarchical Porosity Via Manipulating Chemical and Microstructural Complexities in High-Entropy Alloys for Efficient Water Electrolysis.. *Advanced Science*, **2022**, e2105808	13.6	2
255	Solving oxygen embrittlement of refractory high-entropy alloy via grain boundary engineering. *Materials Today*, **2022**,	21.8	4
254	Effects of Ni and Al on precipitation behavior and mechanical properties of precipitation-hardened CoCrFeNi high-entropy alloys. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2022**, 839, 142879	5.3	0
253	Revealing the role of local shear strain partition of transformable particles in a TRIP-reinforced bulk metallic glass composite via digital image correlation. *International Journal of Minerals, Metallurgy and Materials*, **2022**, 29, 807-813	3.1	
252	Microstructural stability and aging behavior of refractory high entropy alloys at intermediate temperatures. *Journal of Materials Science and Technology*, **2022**, 122, 243-254	9.1	0
251	Corrosion and irradiation behavior of Fe-based amorphous coating in lead-bismuth eutectic liquids. *Science China Technological Sciences*, **2022**, 65, 440-449	3.5	1
250	Combustion behavior and mechanism of Cu46Zr46Al8 bulk metallic glass in oxygen-enriched environments. *Corrosion Science*, **2022**, 110415	6.8	0
249	Local chemical fluctuation mediated ultra-sluggish martensitic transformation in high-entropy intermetallics.. *Materials Horizons*, **2021**,	14.4	1
248	Effects of stacking fault energy on the deformation behavior of CoNiCrFeMn high-entropy alloys: A molecular dynamics study. *Applied Physics Letters*, **2021**, 119, 201907	3.4	0
247	Prediction of Ti-Zr-Nb-Ta high-entropy alloys with desirable hardness by combining machine learning and experimental data. *Applied Physics Letters*, **2021**, 119, 201905	3.4	1
246	Substantially enhanced plasticity of bulk metallic glasses by densifying local atomic packing. *Nature Communications*, **2021**, 12, 6582	17.4	5
245	Unravel unusual hardening behavior of a PdNiP metallic glass in its supercooled liquid region. *Applied Physics Letters*, **2021**, 118, 121902	3.4	0
244	High-entropy carbide-nitrides with enhanced toughness and sinterability. *Science China Materials*, **2021**, 64, 2037-2044	7.1	5
243	Chemical short-range ordering and its strengthening effect in refractory high-entropy alloys. *Physical Review B*, **2021**, 103,	3.3	6
242	IrW nanochannel support enabling ultrastable electrocatalytic oxygen evolution at 2 A cm in acidic media. *Nature Communications*, **2021**, 12, 3540	17.4	26

241	Local chemical fluctuation mediated ductility in body-centered-cubic high-entropy alloys. *Materials Today*, **2021**, 46, 28-34	21.8	20
240	Strain hardening mediated by coherent nanoprecipitates in ultrahigh-strength steels. *Acta Materialia*, **2021**, 213, 116984	8.4	4
239	Short-range ordering and its effects on mechanical properties of high-entropy alloys. *Journal of Materials Science and Technology*, **2021**, 62, 214-220	9.1	80
238	Effects of nanosized precipitates on irradiation behavior of CoCrFeNi high entropy alloys. *Journal of Alloys and Compounds*, **2021**, 859, 158291	5.7	10
237	Self-supporting nanoporous Ni/metallic glass composites with hierarchically porous structure for efficient hydrogen evolution reaction. *Journal of Materials Science and Technology*, **2021**, 73, 145-150	9.1	7
236	Stacking Fault Driven Phase Transformation in CrCoNi Medium Entropy Alloy. *Nano Letters*, **2021**, 21, 1419-1426	11.5	18
235	Effects of Nb on deformation-induced transformation and mechanical properties of HfNbxTa0.2TiZr high entropy alloys. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2021**, 805, 140798	5.3	5
234	New insight into fabrication of shaped Mg□ alloy foams with cellular structure via a gas release reaction powder metallurgy route. *Journal of Iron and Steel Research International*, **2021**, 28, 125-132	1.2	1
233	Facile route to bulk ultrafine-grain steels for high strength and ductility. *Nature*, **2021**, 590, 262-267	50.4	22
232	A general and transferable deep learning framework for predicting phase formation in materials. *Npj Computational Materials*, **2021**, 7,	10.9	9
231	Cellular structure and energy absorption of Al Cu alloy foams fabricated via a two-step foaming method. *Materials and Design*, **2020**, 196, 109090	8.1	6
230	Enhancing dynamic mechanical properties of bulk metallic glass composites via deformation-induced martensitic transformation. *Scripta Materialia*, **2020**, 186, 346-351	5.6	9
229	Snoek-type damping performance in strong and ductile high-entropy alloys. *Science Advances*, **2020**, 6, eaba7802	14.3	23
228	Cooperative deformation in high-entropy alloys at ultralow temperatures. *Science Advances*, **2020**, 6, eaax4002	14.3	77
227	Effects of Al and Ti Additions on Irradiation Behavior of FeMnNiCr Multi-Principal-Element Alloy. *Jom*, **2020**, 72, 150-159	2.1	6
226	Simultaneously enhancing the strength and plasticity of Ti-based bulk metallic glass composites via microalloying with Ta. *Materials Research Letters*, **2020**, 8, 23-30	7.4	10
225	Nanoscale phase separation of TiZrNbTa high entropy alloy induced by hydrogen absorption. *Scripta Materialia*, **2020**, 178, 503-507	5.6	10
224	Formation mechanism and characterization of immiscible nanoporous binary Cu□g alloys with excellent surface-enhanced Raman scattering performance by chemical dealloying of glassy precursors. *Inorganic Chemistry Frontiers*, **2020**, 7, 1127-1139	6.8	10

223	Enhanced crystallization resistance and thermal stability via suppressing the metastable superlattice phase in Ni-(Pd)-P metallic glasses. *Journal of Materials Science and Technology*, **2020**, 42, 203-211	9.1	2
222	Extremely high dislocation density and deformation pathway of CrMnFeCoNi high entropy alloy at ultralow temperature. *Scripta Materialia*, **2020**, 188, 21-25	5.6	27
221	Ordered nitrogen complexes overcoming strength–ductility trade-off in an additively manufactured high-entropy alloy. *Virtual and Physical Prototyping*, **2020**, 15, 532-542	10.1	11
220	Interpretable machine-learning strategy for soft-magnetic property and thermal stability in Fe-based metallic glasses. *Npj Computational Materials*, **2020**, 6,	10.9	19
219	Enhanced Corrosion Resistance of an Alumina-forming Austenitic Steel Against Molten Al. *Oxidation of Metals*, **2020**, 94, 465-475	1.6	2
218	Study on the hydrogen storage properties of a TiZrNbTa high entropy alloy. *International Journal of Hydrogen Energy*, **2020**, 45, 5367-5374	6.7	32
217	On the formation of hierarchical microstructure in a Mo-doped NiCoCr medium-entropy alloy with enhanced strength-ductility synergy. *Scripta Materialia*, **2020**, 175, 1-6	5.6	37
216	Reentrant glass transition leading to ultrastable metallic glass. *Materials Today*, **2020**, 34, 66-77	21.8	21
215	Domain structure and lattice effects in a severely plastically deformed CoCrFeMnNi high entropy alloy. *Journal of Alloys and Compounds*, **2020**, 812, 152028	5.7	10
214	Flexible Honeycombed Nanoporous/Glassy Hybrid for Efficient Electrocatalytic Hydrogen Generation. *Advanced Materials*, **2019**, 31, e1904989	24	44
213	Investigation on the activation mechanism of hydrogen absorption in TiZrNbTa high entropy alloy. *Journal of Alloys and Compounds*, **2019**, 781, 613-620	5.7	40
212	Self-supported NiCoP/nanoporous copper as highly active electrodes for hydrogen evolution reaction. *Scripta Materialia*, **2019**, 173, 51-55	5.6	9
211	Polyamorphic transition in a transition metal based metallic glass under high pressure. *Physical Review B*, **2019**, 99,	3.3	6
210	Fe-based bulk metallic glasses: Glass formation, fabrication, properties and applications. *Progress in Materials Science*, **2019**, 103, 235-318	42.2	157
209	Elucidating the nature of crystallization kinetics in Zr46Cu46Al8 metallic glass through simultaneous WAXS/SAXS measurements. *Applied Physics Letters*, **2019**, 114, 211903	3.4	7
208	A simplified model connecting lattice distortion with friction stress of Nb-based equiatomic high-entropy alloys. *Materials Research Letters*, **2019**, 7, 340-346	7.4	25
207	Formation, structure and properties of biocompatible TiZrHfNbTa high-entropy alloys. *Materials Research Letters*, **2019**, 7, 225-231	7.4	65
206	Strengthening of a CrMnFeCoNi high-entropy alloy by carbide precipitation. *Journal of Alloys and Compounds*, **2019**, 792, 1028-1035	5.7	42

205	Transformation-reinforced high-entropy alloys with superior mechanical properties via tailoring stacking fault energy. *Journal of Alloys and Compounds*, **2019**, 792, 444-455	5.7	53
204	Work-hardenable Zr-based bulk metallic glass composites reinforced with ex-situ TiNi fibers. *Journal of Alloys and Compounds*, **2019**, 806, 1497-1508	5.7	5
203	Development of advanced materials via entropy engineering. *Scripta Materialia*, **2019**, 165, 164-169	5.6	47
202	Magnetic structure of ternary rare-earth alloy Ho1/3Tb1/3Er1/3. *Journal of Magnetism and Magnetic Materials*, **2019**, 469, 315-322	2.8	
201	Highly collective atomic transport mechanism in high-entropy glass-forming metallic liquids. *Journal of Materials Science and Technology*, **2019**, 35, 44-47	9.1	8
200	In-situ visualizing atomic structural evolution during crystallization in ternary Zr Cu Al bulk metallic glasses. *Intermetallics*, **2019**, 105, 173-178	3.5	7
199	Enhancement of glass-forming ability and plasticity via alloying the elements having positive heat of mixing with Cu in Cu48Zr48Al4 bulk metallic glass. *Journal of Alloys and Compounds*, **2019**, 777, 382-391	5.7	19
198	Nano-graining a particle-strengthened high-entropy alloy. *Scripta Materialia*, **2019**, 163, 24-28	5.6	23
197	Sandwich nanoporous framework decorated with vertical CuO nanowire arrays for electrochemical glucose sensing. *Electrochimica Acta*, **2019**, 299, 470-478	6.7	35
196	Solving the strength-ductility tradeoff in the medium-entropy NiCoCr alloy via interstitial strengthening of carbon. *Intermetallics*, **2019**, 106, 77-87	3.5	44
195	Reply to comments on Structure origin of a transition of classic-to-avalanche nucleation in Zr-Cu-Al bulk metallic glasses, Acta Materialia, 149, 108 (2018) *Scripta Materialia*, **2019**, 163, 168-169	5.6	
194	Elastic modulus change and its relation with glass-forming ability and plasticity in bulk metallic glasses. *Scripta Materialia*, **2019**, 161, 62-65	5.6	2
193	Influences of Au ion radiation on microstructure and surface-enhanced Raman scattering of nanoporous copper. *Nanotechnology*, **2018**, 29, 184001	3.4	4
192	Local structural mechanism for frozen-in dynamics in metallic glasses. *Physical Review B*, **2018**, 97,	3.3	5
191	Structure origin of a transition of classic-to-avalanche nucleation in Zr-Cu-Al bulk metallic glasses. *Acta Materialia*, **2018**, 149, 108-118	8.4	31
190	The role of local-geometrical-orders on the growth of dynamic-length-scales in glass-forming liquids. *Scientific Reports*, **2018**, 8, 2025	4.9	2
189	Vacancy formation enthalpies of high-entropy FeCoCrNi alloy via first-principles calculations and possible implications to its superior radiation tolerance. *Journal of Materials Science and Technology* , **2018**, 34, 355-364	9.1	62
188	Effects of Al addition on atomic structure of Cu-Zr metallic glass. *Journal of Applied Physics*, **2018**, 123, 055101	2.5	4

187	Thermal stability and coarsening of coherent particles in a precipitation-hardened (NiCoFeCr)94Ti2Al4 high-entropy alloy. *Acta Materialia*, **2018**, 147, 184-194	8.4	122
186	Dynamic deformation behavior of a face-centered cubic FeCoNiCrMn high-entropy alloy. *Science Bulletin*, **2018**, 63, 362-368	10.6	43
185	Ultrastable metal oxide nanotube arrays achieved by entropy-stabilization engineering. *Scripta Materialia*, **2018**, 146, 340-343	5.6	22
184	Unraveling submicron-scale mechanical heterogeneity by three-dimensional X-ray microdiffraction. *Proceedings of the National Academy of Sciences of the United States of America*, **2018**, 115, 483-488	11.5	43
183	Microstructure and mechanical properties of FeCoNiCr high-entropy alloy strengthened by nano-Y2O3 dispersion. *Science China Technological Sciences*, **2018**, 61, 179-183	3.5	21
182	Stacking fault energy of face-centered-cubic high entropy alloys. *Intermetallics*, **2018**, 93, 269-273	3.5	174
181	Effects of cooling rate on the atomic structure of Cu64Zr36 binary metallic glass. *Computational Materials Science*, **2018**, 141, 59-67	3.2	17
180	Eight in one: high-entropy-alloy nanoparticles synthesized by carbothermal shock. *Science Bulletin*, **2018**, 63, 737-738	10.6	2
179	Activation energy for plastic flow in nanocrystalline CoCrFeMnNi high-entropy alloy: A high temperature nanoindentation study. *Scripta Materialia*, **2018**, 156, 129-133	5.6	31
178	Suppression of crystallization in a Ca-based bulk metallic glass by compression. *Journal of Alloys and Compounds*, **2018**, 765, 595-600	5.7	1
177	Unusual relation between glass-forming ability and thermal stability of high-entropy bulk metallic glasses. *Materials Research Letters*, **2018**, 6, 495-500	7.4	32
176	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
175	Static atomic-scale structural heterogeneity and its effects on glass formation and dynamics of metallic glasses. *Intermetallics*, **2018**, 101, 133-143	3.5	6
174	Flexible glassy grid structure for rapid degradation of azo dye. *Materials and Design*, **2018**, 155, 346-351	8.1	20
173	High-performance hybrid electrode decorated by well-aligned nanograss arrays for glucose sensing. *Biosensors and Bioelectronics*, **2018**, 102, 288-295	11.8	27
172	Superconducting Ti15Zr15Nb35Ta35 High-Entropy Alloy With Intermediate Electron-Phonon Coupling. *Frontiers in Materials*, **2018**, 5,	4	21
171	Enhanced strength and ductility in a high-entropy alloy via ordered oxygen complexes. *Nature*, **2018**, 563, 546-550	50.4	516
170	Ultrahigh stability and strong precipitation strengthening of nanosized NbC in alumina-forming austenitic stainless steels subjecting to long-term high-temperature exposure. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2018**, 738, 295-307	5.3	25

169	Effects of non-hydrostaticity and grain size on the pressure-induced phase transition of the CoCrFeMnNi high-entropy alloy. *Journal of Applied Physics*, **2018**, 124, 115901	2.5	12
168	Ion Irradiation-Enhanced Raman Scattering on Nanoporous Copper. *Langmuir*, **2018**, 34, 13041-13046	4	5
167	The Effects of Metalloid Elements on the Nanocrystallization Behavior and Soft Magnetic Properties of FeCBSiPCu Amorphous Alloys. *Metals*, **2018**, 8, 283	2.3	7
166	Improving plasticity of the Zr46Cu46Al8 bulk metallic glass via thermal rejuvenation. *Science Bulletin*, **2018**, 63, 840-844	10.6	40
165	Beneficial effects of oxygen addition on glass formation in a high-entropy bulk metallic glass. *Intermetallics*, **2018**, 99, 44-50	3.5	18
164	Evidence for superplasticity in a CoCrFeNiMn high-entropy alloy processed by high-pressure torsion. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2017**, 685, 342-348	5.3	67
163	Delayed plasticity during nanoindentation of single-phase CoCrFeMnNi high-entropy alloy. *Materials Research Letters*, **2017**, 5, 300-305	7.4	8
162	High-temperature plastic flow of a precipitation-hardened FeCoNiCr high entropy alloy. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2017**, 686, 34-40	5.3	46
161	Ultrastrong steel via minimal lattice misfit and high-density nanoprecipitation. *Nature*, **2017**, 544, 460-464	50.4	512
160	Influences of oxygen on plastic deformation of a Fe-based bulk metallic glass. *Scripta Materialia*, **2017**, 135, 24-28	5.6	28
159	Phase-Transformation Ductilization of Brittle High-Entropy Alloys via Metastability Engineering. *Advanced Materials*, **2017**, 29, 1701678	24	280
158	Polymorphism in a high-entropy alloy. *Nature Communications*, **2017**, 8, 15687	17.4	151
157	Rare-earth high-entropy alloys with giant magnetocaloric effect. *Acta Materialia*, **2017**, 125, 481-489	8.4	112
156	Microstructure and properties of a CoCrFeNiMn high-entropy alloy processed by equal-channel angular pressing. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2017**, 705, 411-419	5.3	80
155	Annealing effect on plastic flow in nanocrystalline CoCrFeMnNi high-entropy alloy: A nanomechanical analysis. *Acta Materialia*, **2017**, 140, 443-451	8.4	48
154	Mechanical heterogeneity and its relation with glass-forming ability in Zr-Cu and Zr-Cu-Al metallic glasses. *Intermetallics*, **2017**, 90, 159-163	3.5	6
153	Compositional and microstructural optimization and mechanical-property enhancement of cast Ti alloys based on Ti-6Al-4V alloy. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2017**, 704, 91-101	5.3	9
152	Synthesis of well-aligned CuO nanowire array integrated with nanoporous CuO network for oxidative degradation of methylene blue. *Corrosion Science*, **2017**, 126, 37-43	6.8	17

151	Thermoelectric performance of PbSnTeSe high-entropy alloys. *Materials Research Letters*, **2017**, 5, 187-194	7.4	50
150	Dislocation nucleation during nanoindentation in a body-centered cubic TiZrHfNb high-entropy alloy. *Scripta Materialia*, **2017**, 130, 64-68	5.6	47
149	Transformation-induced plasticity in bulk metallic glass composites evidenced by in-situ neutron diffraction. *Acta Materialia*, **2017**, 124, 478-488	8.4	72
148	Effect of annealing on mechanical properties of a nanocrystalline CoCrFeNiMn high-entropy alloy processed by high-pressure torsion. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2016**, 676, 294-303	5.3	167
147	Micro-alloying Effects of Yttrium on Recrystallization Behavior of an Alumina-forming Austenitic Stainless Steel. *Journal of Iron and Steel Research International*, **2016**, 23, 553-558	1.2	17
146	Microstructural Control via Copious Nucleation Manipulated by In Situ Formed Nucleants: Large-Sized and Ductile Metallic Glass Composites. *Advanced Materials*, **2016**, 28, 8156-8161	24	46
145	Development of a novel high-entropy alloy with eminent efficiency of degrading azo dye solutions. *Scientific Reports*, **2016**, 6, 34213	4.9	64
144	Effects of Nitrogen on the Glass Formation and Mechanical Properties of a Ti-Based Metallic Glass. *Acta Metallurgica Sinica (English Letters)*, **2016**, 29, 173-180	2.5	11
143	Shock compression response of high entropy alloys. *Materials Research Letters*, **2016**, 4, 226-232	7.4	54
142	Thermoelectric high-entropy alloys with low lattice thermal conductivity. *RSC Advances*, **2016**, 6, 52164-52170	3.7	61
141	Formation mechanism and characterization of nanoporous silver with tunable porosity and promising capacitive performance by chemical dealloying of glassy precursor. *Acta Materialia*, **2016**, 105, 367-377	8.4	43
140	Bendable nanoporous copper thin films with tunable thickness and pore features. *Corrosion Science* , **2016**, 104, 227-235	6.8	26
139	Mold-Filling Ability of Aluminum Alloy Melt during the Two-Step Foaming Process. *Journal of Materials Science and Technology*, **2016**, 32, 509-514	9.1	10
138	Spherical nanoindentation creep behavior of nanocrystalline and coarse-grained CoCrFeMnNi high-entropy alloys. *Acta Materialia*, **2016**, 109, 314-322	8.4	122
137	A precipitation-hardened high-entropy alloy with outstanding tensile properties. *Acta Materialia*, **2016**, 102, 187-196	8.4	1020
136	Ductile CoCrFeNiMox high entropy alloys strengthened by hard intermetallic phases. *Acta Materialia*, **2016**, 116, 332-342	8.4	432
135	High thermal stability and sluggish crystallization kinetics of high-entropy bulk metallic glasses. *Journal of Applied Physics*, **2016**, 119, 245112	2.5	53
134	Precipitation behavior and its effects on tensile properties of FeCoNiCr high-entropy alloys. *Intermetallics*, **2016**, 79, 41-52	3.5	145

133	Nanocrystallization in a Cu-doped Fe-based metallic glass. *Journal of Alloys and Compounds*, **2016**, 688, 822-827	5.7	11
132	An assessment on the future development of high-entropy alloys: Summary from a recent workshop. *Intermetallics*, **2015**, 66, 67-76	3.5	267
131	Deformation-induced spatiotemporal fluctuation, evolution and localization of strain fields in a bulk metallic glass. *International Journal of Plasticity*, **2015**, 71, 136-145	7.6	40
130	Effect of Decomposition Kinetics of Titanium Hydride on the Al Alloy Melt Foaming Process. *Journal of Materials Science and Technology*, **2015**, 31, 361-368	9.1	22
129	Development of electrochemical supercapacitors with uniform nanoporous silver network. *Electrochimica Acta*, **2015**, 182, 224-229	6.7	32
128	Precipitate characteristics and their effects on the high-temperature creep resistance of alumina-forming austenitic stainless steels. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2015**, 622, 91-100	5.3	42
127	Nanomechanical behavior and structural stability of a nanocrystalline CoCrFeNiMn high-entropy alloy processed by high-pressure torsion. *Journal of Materials Research*, **2015**, 30, 2804-2815	2.5	87
126	Inherent structure length in metallic glasses: simplicity behind complexity. *Scientific Reports*, **2015**, 5, 12137	4.9	18
125	Propensity of bond exchange as a window into the mechanical properties of metallic glasses. *Applied Physics Letters*, **2015**, 106, 061910	3.4	9
124	Effects of Nb additions on the microstructure and mechanical property of CoCrFeNi high-entropy alloys. *Intermetallics*, **2015**, 60, 1-8	3.5	213
123	Nanoporous silver with tunable pore characteristics and superior surface enhanced Raman scattering. *Corrosion Science*, **2014**, 84, 159-164	6.8	49
122	Effects of Al addition on structural evolution and tensile properties of the FeCoNiCrMn high-entropy alloy system. *Acta Materialia*, **2014**, 62, 105-113	8.4	687
121	Atomic structural evolution during glass formation of a Cu□r binary metallic glass. *Computational Materials Science*, **2014**, 85, 147-153	3.2	51
120	Effects of calcium on mechanical properties of cellular Al□u foams. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2014**, 618, 471-478	5.3	18
119	Steady state flow of the FeCoNiCrMn high entropy alloy at elevated temperatures. *Intermetallics*, **2014**, 55, 9-14	3.5	220
118	High-energy X-ray diffuse scattering studies on deformation-induced spatially confined martensitic transformations in multifunctional Ti□4Nb□Zr□Sn alloy. *Acta Materialia*, **2014**, 81, 476-486	8.4	24
117	Alloying effects of the elements with a positive heat of mixing on the glass forming ability of Al-La-Ni amorphous alloys. *Science China: Physics, Mechanics and Astronomy*, **2014**, 57, 122-127	3.6	4
116	Observation of distinct atomic relaxation process in a phase-separated metallic glass-forming melt. *Europhysics Letters*, **2014**, 108, 46001	1.6	3

115	Guidelines in predicting phase formation of high-entropy alloys. *MRS Communications*, **2014**, 4, 57-62	2.7	171
114	In-situ study of crystallization kinetics in ternary bulk metallic glass alloys with different glass forming abilities. *Applied Physics Letters*, **2014**, 105, 201906	3.4	26
113	An electronic criterion for assessing intrinsic brittleness of metallic glasses. *Journal of Chemical Physics*, **2014**, 141, 024503	3.9	8
112	In-situ neutron diffraction study of deformation behavior of a multi-component high-entropy alloy. *Applied Physics Letters*, **2014**, 104, 051910	3.4	107
111	The Phase Competition and Stability of High-Entropy Alloys. *Jom*, **2014**, 66, 1973-1983	2.1	47
110	Designing Bulk Metallic Glass Composites with Enhanced Formability and Plasticity. *Journal of Materials Science and Technology*, **2014**, 30, 566-575	9.1	40
109	Plastic flow behaviour in an alumina-forming austenitic stainless steel at elevated temperatures. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing* , **2014**, 594, 246-252	5.3	31
108	Effects of Sn addition on phase formation and mechanical properties of TiCu-based bulk metallic glass composites. *Intermetallics*, **2013**, 42, 68-76	3.5	33
107	Coating thickness control in continuously fabricating metallic glass-coated composite wires. *International Journal of Minerals, Metallurgy and Materials*, **2013**, 20, 456-461	3.1	3
106	A new many-body potential with the second-moment approximation of tight-binding scheme for Hafnium. *Science China: Physics, Mechanics and Astronomy*, **2013**, 56, 2071-2080	3.6	
105	Effects of Cooling Rates on Glass Formation and Magnetic Behavior for the Fe73.0C7.0Si3.3B5.0P8.7Mo3.0 Bulk Metallic Glass. *Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science*, **2013**, 44, 2004-2009	2.3	7
104	Hot corrosion behaviour and its mechanism of a new alumina-forming austenitic stainless steel in molten sodium sulphate. *Corrosion Science*, **2013**, 77, 202-209	6.8	30
103	Aluminum Alloying Effects on Lattice Types, Microstructures, and Mechanical Behavior of High-Entropy Alloys Systems. *Jom*, **2013**, 65, 1848-1858	2.1	180
102	Alloying effects on mechanical properties of the Cu□r□l bulk metallic glass composites. *Computational Materials Science*, **2013**, 79, 187-192	3.2	12
101	Strong work-hardening behavior in a Ti-based bulk metallic glass composite. *Scripta Materialia*, **2013**, 69, 73-76	5.6	57
100	Plasticity improvement in a bulk metallic glass composed of an open-cell Cu foam as the skeleton. *Composites Science and Technology*, **2013**, 75, 49-54	8.6	15
99	Effects of density difference of constituent elements on glass formation in TiCu-based bulk metallic glasses. *Progress in Natural Science: Materials International*, **2013**, 23, 469-474	3.6	1
98	Grain growth and the Hall□Petch relationship in a high-entropy FeCrNiCoMn alloy. *Scripta Materialia* , **2013**, 68, 526-529	5.6	472

97	Incipient plasticity and dislocation nucleation of FeCoCrNiMn high-entropy alloy. *Acta Materialia*, **2013**, 61, 2993-3001	8.4	213
96	Fe-based bulk metallic glass composites without any metalloid elements. *Acta Materialia*, **2013**, 61, 3214-3223	8.4	19
95	Enhancing glass-forming ability via frustration of nano-clustering in alloys with a high solvent content. *Scientific Reports*, **2013**, 3, 1983	4.9	26
94	Designing novel bulk metallic glass composites with a high aluminum content. *Scientific Reports*, **2013**, 3, 3353	4.9	22
93	New intrinsic mechanism on gum-like superelasticity of multifunctional alloys. *Scientific Reports*, **2013**, 3, 2156	4.9	48
92	Nano-network mediated high strength and large plasticity in an Al-based alloy. *Materials Letters*, **2012**, 84, 59-62	3.3	17
91	Roles of Manganese in the High-temperature Oxidation Resistance of Alumina-forming Austenitic Steels at above 800 °C. *Oxidation of Metals*, **2012**, 78, 349-362	1.6	17
90	Effects of scandium additions on mechanical properties of cellular Al-based foams. *Intermetallics*, **2012**, 28, 71-76	3.5	36
89	Role of rare-earth elements in glass formation of AlCaNi amorphous alloys. *Journal of Alloys and Compounds*, **2012**, 513, 387-392	5.7	13
88	Effects of silicon additions on the oxide scale formation of an alumina-forming austenitic alloy. *Corrosion Science*, **2012**, 65, 317-321	6.8	30
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