

# Zhao-Ping Lu

## List of Publications by Citations

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258  
papers

16,549  
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61  
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122  
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266  
ext. papers

20,007  
ext. citations

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#	Paper	IF	Citations
258	A precipitation-hardened high-entropy alloy with outstanding tensile properties. <i>Acta Materialia</i> , <b>2016</b> , 102, 187-196	8.4	1020
257	A new glass-forming ability criterion for bulk metallic glasses. <i>Acta Materialia</i> , <b>2002</b> , 50, 3501-3512	8.4	1018
256	Effects of Al addition on structural evolution and tensile properties of the FeCoNiCrMn high-entropy alloy system. <i>Acta Materialia</i> , <b>2014</b> , 62, 105-113	8.4	687
255	Enhanced strength and ductility in a high-entropy alloy via ordered oxygen complexes. <i>Nature</i> , <b>2018</b> , 563, 546-550	50.4	516
254	Ultrastrong steel via minimal lattice misfit and high-density nanoprecipitation. <i>Nature</i> , <b>2017</b> , 544, 460-464	50.4	512
253	Structural amorphous steels. <i>Physical Review Letters</i> , <b>2004</b> , 92, 245503	7.4	481
252	Grain growth and the HallPetch relationship in a high-entropy FeCrNiCoMn alloy. <i>Scripta Materialia</i> , <b>2013</b> , 68, 526-529	5.6	472
251	Ductile CoCrFeNiMox high entropy alloys strengthened by hard intermetallic phases. <i>Acta Materialia</i> , <b>2016</b> , 116, 332-342	8.4	432
250	Glass formation criterion for various glass-forming systems. <i>Physical Review Letters</i> , <b>2003</b> , 91, 115505	7.4	403
249	Bulk metallic glass composites with transformation-mediated work-hardening and ductility. <i>Advanced Materials</i> , <b>2010</b> , 22, 2770-3	24	369
248	Phase-Transformation Ductilization of Brittle High-Entropy Alloys via Metastability Engineering. <i>Advanced Materials</i> , <b>2017</b> , 29, 1701678	24	280
247	An assessment on the future development of high-entropy alloys: Summary from a recent workshop. <i>Intermetallics</i> , <b>2015</b> , 66, 67-76	3.5	267
246	Creep-resistant, Al <sub>2</sub> O <sub>3</sub> -forming austenitic stainless steels. <i>Science</i> , <b>2007</b> , 316, 433-6	33.3	260
245	Formation of CuZrAl bulk metallic glass composites with improved tensile properties. <i>Acta Materialia</i> , <b>2011</b> , 59, 2928-2936	8.4	257
244	Role of yttrium in glass formation of Fe-based bulk metallic glasses. <i>Applied Physics Letters</i> , <b>2003</b> , 83, 2581-2583	3.4	239
243	Role of minor alloying additions in formation of bulk metallic glasses: A Review. <i>Journal of Materials Science</i> , <b>2004</b> , 39, 3965-3974	4.3	227
242	The correlation between reduced glass transition temperature and glass forming ability of bulk metallic glasses. <i>Scripta Materialia</i> , <b>2000</b> , 42, 667-673	5.6	227

241	Steady state flow of the FeCoNiCrMn high entropy alloy at elevated temperatures. <i>Intermetallics</i> , <b>2014</b> , 55, 9-14	3.5	220
240	Incipient plasticity and dislocation nucleation of FeCoCrNiMn high-entropy alloy. <i>Acta Materialia</i> , <b>2013</b> , 61, 2993-3001	8.4	213
239	Effects of Nb additions on the microstructure and mechanical property of CoCrFeNi high-entropy alloys. <i>Intermetallics</i> , <b>2015</b> , 60, 1-8	3.5	213
238	Aluminum Alloying Effects on Lattice Types, Microstructures, and Mechanical Behavior of High-Entropy Alloys Systems. <i>Jom</i> , <b>2013</b> , 65, 1848-1858	2.1	180
237	Stacking fault energy of face-centered-cubic high entropy alloys. <i>Intermetallics</i> , <b>2018</b> , 93, 269-273	3.5	174
236	Guidelines in predicting phase formation of high-entropy alloys. <i>MRS Communications</i> , <b>2014</b> , 4, 57-62	2.7	171
235	Reduced glass transition temperature and glass forming ability of bulk glass forming alloys. <i>Journal of Non-Crystalline Solids</i> , <b>2000</b> , 270, 103-114	3.9	170
234	Effect of annealing on mechanical properties of a nanocrystalline CoCrFeNiMn high-entropy alloy processed by high-pressure torsion. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2016</b> , 676, 294-303	5.3	167
233	Theoretical strength and the onset of plasticity in bulk metallic glasses investigated by nanoindentation with a spherical indenter. <i>Physical Review Letters</i> , <b>2004</b> , 93, 125504	7.4	162
232	Fe-based bulk metallic glasses: Glass formation, fabrication, properties and applications. <i>Progress in Materials Science</i> , <b>2019</b> , 103, 235-318	42.2	157
231	Polymorphism in a high-entropy alloy. <i>Nature Communications</i> , <b>2017</b> , 8, 15687	17.4	151
230	Precipitation behavior and its effects on tensile properties of FeCoNiCr high-entropy alloys. <i>Intermetallics</i> , <b>2016</b> , 79, 41-52	3.5	145
229	Metallic liquids and glasses: atomic order and global packing. <i>Physical Review Letters</i> , <b>2010</b> , 105, 155501	7.4	130
228	Thermal stability and coarsening of coherent particles in a precipitation-hardened (NiCoFeCr) <sub>94</sub> Ti <sub>2</sub> Al <sub>4</sub> high-entropy alloy. <i>Acta Materialia</i> , <b>2018</b> , 147, 184-194	8.4	122
227	Spherical nanoindentation creep behavior of nanocrystalline and coarse-grained CoCrFeMnNi high-entropy alloys. <i>Acta Materialia</i> , <b>2016</b> , 109, 314-322	8.4	122
226	Rare-earth high-entropy alloys with giant magnetocaloric effect. <i>Acta Materialia</i> , <b>2017</b> , 125, 481-489	8.4	112
225	In-situ neutron diffraction study of deformation behavior of a multi-component high-entropy alloy. <i>Applied Physics Letters</i> , <b>2014</b> , 104, 051910	3.4	107
224	Alloying effects on creep and oxidation resistance of austenitic stainless steel alloys employing intermetallic precipitates. <i>Intermetallics</i> , <b>2008</b> , 16, 453-462	3.5	105

223	Alumina-Forming Austenitic Stainless Steels Strengthened by Laves Phase and MC Carbide Precipitates. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , <b>2007</b> , 38, 2737-2746	2.3	101
222	The development of alumina-forming austenitic stainless steels for high-temperature structural use. <i>Jom</i> , <b>2008</b> , 60, 12-18	2.1	97
221	A new approach to understanding and measuring glass formation in bulk amorphous materials. <i>Intermetallics</i> , <b>2004</b> , 12, 1035-1043	3.5	97
220	Effect of minor alloying additions on glass formation in bulk metallic glasses. <i>Intermetallics</i> , <b>2005</b> , 13, 415-418	3.5	95
219	Effect of residual stresses on the hardness of bulk metallic glasses. <i>Acta Materialia</i> , <b>2011</b> , 59, 2858-2864	4.8	92
218	Elastic moduli inheritance and the weakest link in bulk metallic glasses. <i>Physical Review Letters</i> , <b>2012</b> , 108, 085501	7.4	91
217	Nanomechanical behavior and structural stability of a nanocrystalline CoCrFeNiMn high-entropy alloy processed by high-pressure torsion. <i>Journal of Materials Research</i> , <b>2015</b> , 30, 2804-2815	2.5	87
216	Recent progress in quantifying glass-forming ability of bulk metallic glasses. <i>Intermetallics</i> , <b>2007</b> , 15, 618-624	3.5	85
215	Microstructure and properties of a CoCrFeNiMn high-entropy alloy processed by equal-channel angular pressing. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2017</b> , 705, 411-419	5.3	80
214	Short-range ordering and its effects on mechanical properties of high-entropy alloys. <i>Journal of Materials Science and Technology</i> , <b>2021</b> , 62, 214-220	9.1	80
213	Effects of alloying elements on glass formation, mechanical and soft-magnetic properties of Fe-based metallic glasses. <i>Intermetallics</i> , <b>2011</b> , 19, 1502-1508	3.5	79
212	Cooperative deformation in high-entropy alloys at ultralow temperatures. <i>Science Advances</i> , <b>2020</b> , 6, eaax4002	14.3	77
211	Ductilizing bulk metallic glass composite by tailoring stacking fault energy. <i>Physical Review Letters</i> , <b>2012</b> , 109, 245506	7.4	73
210	Transformation-induced plasticity in bulk metallic glass composites evidenced by in-situ neutron diffraction. <i>Acta Materialia</i> , <b>2017</b> , 124, 478-488	8.4	72
209	Identify the best glass forming ability criterion. <i>Intermetallics</i> , <b>2010</b> , 18, 883-888	3.5	71
208	Glass-forming tendency of bulk LaAlNiCu(Co) metallic glass-forming liquids. <i>Journal of Applied Physics</i> , <b>2003</b> , 93, 286-290	2.5	68
207	Evidence for superplasticity in a CoCrFeNiMn high-entropy alloy processed by high-pressure torsion. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2017</b> , 685, 342-348	5.3	67
206	Superplasticity and superplastic forming ability of a ZrTiNiCuBe bulk metallic glass in the supercooled liquid region. <i>Journal of Non-Crystalline Solids</i> , <b>2005</b> , 351, 209-217	3.9	67

205	Improvement of high-temperature oxidation resistance and strength in alumina-forming austenitic stainless steels. <i>Materials Letters</i> , <b>2011</b> , 65, 3285-3288	3.3	66
204	Glass formation in La-based LaAlNiCu(Co) alloys by Bridgman solidification and their glass forming ability. <i>Acta Materialia</i> , <b>1999</b> , 47, 2215-2224	8.4	66
203	Formation, structure and properties of biocompatible TiZrHfNbTa high-entropy alloys. <i>Materials Research Letters</i> , <b>2019</b> , 7, 225-231	7.4	65
202	Development of a novel high-entropy alloy with eminent efficiency of degrading azo dye solutions. <i>Scientific Reports</i> , <b>2016</b> , 6, 34213	4.9	64
201	Vacancy formation enthalpies of high-entropy FeCoCrNi alloy via first-principles calculations and possible implications to its superior radiation tolerance. <i>Journal of Materials Science and Technology</i> , <b>2018</b> , 34, 355-364	9.1	62
200	Thermoelectric high-entropy alloys with low lattice thermal conductivity. <i>RSC Advances</i> , <b>2016</b> , 6, 52164-52170	5.7	61
199	Efficient local atomic packing in metallic glasses and its correlation with glass-forming ability. <i>Physical Review B</i> , <b>2009</b> , 80,	3.3	61
198	Atomistic mechanism for nanocrystallization of metallic glasses. <i>Acta Materialia</i> , <b>2008</b> , 56, 2760-2769	8.4	60
197	Strong work-hardening behavior in a Ti-based bulk metallic glass composite. <i>Scripta Materialia</i> , <b>2013</b> , 69, 73-76	5.6	57
196	Shock compression response of high entropy alloys. <i>Materials Research Letters</i> , <b>2016</b> , 4, 226-232	7.4	54
195	Transformation-reinforced high-entropy alloys with superior mechanical properties via tailoring stacking fault energy. <i>Journal of Alloys and Compounds</i> , <b>2019</b> , 792, 444-455	5.7	53
194	Ordered clusters and free volume in a ZrNi metallic glass. <i>Applied Physics Letters</i> , <b>2008</b> , 93, 011911	3.4	53
193	High thermal stability and sluggish crystallization kinetics of high-entropy bulk metallic glasses. <i>Journal of Applied Physics</i> , <b>2016</b> , 119, 245112	2.5	53
192	Atomic structural evolution during glass formation of a CuZr binary metallic glass. <i>Computational Materials Science</i> , <b>2014</b> , 85, 147-153	3.2	51
191	Thermoelectric performance of PbSnTeSe high-entropy alloys. <i>Materials Research Letters</i> , <b>2017</b> , 5, 187-194	4.4	50
190	Nanoporous silver with tunable pore characteristics and superior surface enhanced Raman scattering. <i>Corrosion Science</i> , <b>2014</b> , 84, 159-164	6.8	49
189	Glass-forming ability enhanced by proper additions of oxygen in a Fe-based bulk metallic glass. <i>Applied Physics Letters</i> , <b>2009</b> , 95, 161905	3.4	49
188	Annealing effect on plastic flow in nanocrystalline CoCrFeMnNi high-entropy alloy: A nanomechanical analysis. <i>Acta Materialia</i> , <b>2017</b> , 140, 443-451	8.4	48

187	New intrinsic mechanism on gum-like superelasticity of multifunctional alloys. <i>Scientific Reports</i> , <b>2013</b> , 3, 2156	4.9	48
186	Binary eutectic clusters and glass formation in ideal glass-forming liquids. <i>Applied Physics Letters</i> , <b>2006</b> , 89, 071910	3.4	48
185	Dislocation nucleation during nanoindentation in a body-centered cubic TiZrHfNb high-entropy alloy. <i>Scripta Materialia</i> , <b>2017</b> , 130, 64-68	5.6	47
184	The Phase Competition and Stability of High-Entropy Alloys. <i>Jom</i> , <b>2014</b> , 66, 1973-1983	2.1	47
183	Development of advanced materials via entropy engineering. <i>Scripta Materialia</i> , <b>2019</b> , 165, 164-169	5.6	47
182	High-temperature plastic flow of a precipitation-hardened FeCoNiCr high entropy alloy. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2017</b> , 686, 34-40	5.3	46
181	Microstructural Control via Copious Nucleation Manipulated by In Situ Formed Nucleants: Large-Sized and Ductile Metallic Glass Composites. <i>Advanced Materials</i> , <b>2016</b> , 28, 8156-8161	24	46
180	Flexible Honeycombed Nanoporous/Glassy Hybrid for Efficient Electrocatalytic Hydrogen Generation. <i>Advanced Materials</i> , <b>2019</b> , 31, e1904989	24	44
179	Effects of nanocrystal formation on the soft magnetic properties of Fe-based bulk metallic glasses. <i>Applied Physics Letters</i> , <b>2011</b> , 99, 052504	3.4	44
178	Separation of glass transition and crystallization in metallic glasses by temperature-modulated differential scanning calorimetry. <i>Philosophical Magazine Letters</i> , <b>1998</b> , 78, 213-220	1	44
177	Solving the strength-ductility tradeoff in the medium-entropy NiCoCr alloy via interstitial strengthening of carbon. <i>Intermetallics</i> , <b>2019</b> , 106, 77-87	3.5	44
176	Dynamic deformation behavior of a face-centered cubic FeCoNiCrMn high-entropy alloy. <i>Science Bulletin</i> , <b>2018</b> , 63, 362-368	10.6	43
175	Unraveling submicron-scale mechanical heterogeneity by three-dimensional X-ray microdiffraction. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2018</b> , 115, 483-488	11.5	43
174	Formation mechanism and characterization of nanoporous silver with tunable porosity and promising capacitive performance by chemical dealloying of glassy precursor. <i>Acta Materialia</i> , <b>2016</b> , 105, 367-377	8.4	43
173	Strengthening of a CrMnFeCoNi high-entropy alloy by carbide precipitation. <i>Journal of Alloys and Compounds</i> , <b>2019</b> , 792, 1028-1035	5.7	42
172	Precipitate characteristics and their effects on the high-temperature creep resistance of alumina-forming austenitic stainless steels. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2015</b> , 622, 91-100	5.3	42
171	Effects of atomic bonding nature and size mismatch on thermal stability and glass-forming ability of bulk metallic glasses. <i>Journal of Non-Crystalline Solids</i> , <b>2004</b> , 341, 93-100	3.9	42
170	Investigation on the activation mechanism of hydrogen absorption in TiZrNbTa high entropy alloy. <i>Journal of Alloys and Compounds</i> , <b>2019</b> , 781, 613-620	5.7	40

169	Deformation-induced spatiotemporal fluctuation, evolution and localization of strain fields in a bulk metallic glass. <i>International Journal of Plasticity</i> , <b>2015</b> , 71, 136-145	7.6	40
168	Designing Bulk Metallic Glass Composites with Enhanced Formability and Plasticity. <i>Journal of Materials Science and Technology</i> , <b>2014</b> , 30, 566-575	9.1	40
167	Improving plasticity of the Zr <sub>46</sub> Cu <sub>46</sub> Al <sub>8</sub> bulk metallic glass via thermal rejuvenation. <i>Science Bulletin</i> , <b>2018</b> , 63, 840-844	10.6	40
166	Oxygen effects on plastic deformation of a Zr-based bulk metallic glass. <i>Applied Physics Letters</i> , <b>2008</b> , 92, 011915	3.4	39
165	Bulk Glass Formation in an Fe-Based Fe <sub>70</sub> Zr <sub>M</sub> (M = Cr, Co, Al)MoB System. <i>Journal of Materials Research</i> , <b>2004</b> , 19, 921-929	2.5	37
164	On the formation of hierarchical microstructure in a Mo-doped NiCoCr medium-entropy alloy with enhanced strength-ductility synergy. <i>Scripta Materialia</i> , <b>2020</b> , 175, 1-6	5.6	37
163	Effects of scandium additions on mechanical properties of cellular Al-based foams. <i>Intermetallics</i> , <b>2012</b> , 28, 71-76	3.5	36
162	Interpreting size effects of bulk metallic glasses based on a size-independent critical energy density. <i>Intermetallics</i> , <b>2010</b> , 18, 157-160	3.5	36
161	Glass formation and magnetic properties of Fe <sub>70</sub> Si <sub>10</sub> B <sub>10</sub> (CrAlCo) bulk metallic glasses fabricated using industrial raw materials. <i>Journal of Magnetism and Magnetic Materials</i> , <b>2009</b> , 321, 2833-2837	3.8	36
160	Atomic packing symmetry in the metallic liquid and glass states. <i>Acta Materialia</i> , <b>2011</b> , 59, 6480-6488	8.4	35
159	Sandwich nanoporous framework decorated with vertical CuO nanowire arrays for electrochemical glucose sensing. <i>Electrochimica Acta</i> , <b>2019</b> , 299, 470-478	6.7	35
158	Effects of metalloid elements on the glass-forming ability of Fe-based alloys. <i>Journal of Alloys and Compounds</i> , <b>2009</b> , 467, 187-190	5.7	34
157	Nearest-neighbor coordination and chemical ordering in multicomponent bulk metallic glasses. <i>Applied Physics Letters</i> , <b>2007</b> , 90, 211908	3.4	34
156	Effects of Sn addition on phase formation and mechanical properties of TiCu-based bulk metallic glass composites. <i>Intermetallics</i> , <b>2013</b> , 42, 68-76	3.5	33
155	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> , <b>2010</b> , 41, 1735-1742	2.3	33
154	Development of electrochemical supercapacitors with uniform nanoporous silver network. <i>Electrochimica Acta</i> , <b>2015</b> , 182, 224-229	6.7	32
153	Unusual relation between glass-forming ability and thermal stability of high-entropy bulk metallic glasses. <i>Materials Research Letters</i> , <b>2018</b> , 6, 495-500	7.4	32
152	Nonlinear tensile deformation behavior of small-sized metallic glasses. <i>Scripta Materialia</i> , <b>2009</b> , 61, 564-567	5.6	32

151	Effects of drawing on the tensile fracture strength and its reliability of small-sized metallic glasses. <i>Acta Materialia</i> , <b>2010</b> , 58, 2564-2576	8.4	32
150	Tensile fracture characteristics and deformation behavior of a Zr-based bulk metallic glass at high temperatures. <i>Intermetallics</i> , <b>2005</b> , 13, 642-648	3.5	32
149	Study on the hydrogen storage properties of a TiZrNbTa high entropy alloy. <i>International Journal of Hydrogen Energy</i> , <b>2020</b> , 45, 5367-5374	6.7	32
148	Structure origin of a transition of classic-to-avalanche nucleation in Zr-Cu-Al bulk metallic glasses. <i>Acta Materialia</i> , <b>2018</b> , 149, 108-118	8.4	31
147	Activation energy for plastic flow in nanocrystalline CoCrFeMnNi high-entropy alloy: A high temperature nanoindentation study. <i>Scripta Materialia</i> , <b>2018</b> , 156, 129-133	5.6	31
146	Plastic flow behaviour in an alumina-forming austenitic stainless steel at elevated temperatures. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2014</b> , 594, 246-252	5.3	31
145	Onset of yielding and shear band nucleation in an Au-based bulk metallic glass. <i>Scripta Materialia</i> , <b>2011</b> , 65, 759-762	5.6	31
144	Synthesis of bulk glassy Fe <sub>75</sub> Si <sub>15</sub> B <sub>10</sub> Co alloys with high glass-forming ability and good soft-magnetic properties. <i>Intermetallics</i> , <b>2010</b> , 18, 1821-1825	3.5	31
143	Hot corrosion behaviour and its mechanism of a new alumina-forming austenitic stainless steel in molten sodium sulphate. <i>Corrosion Science</i> , <b>2013</b> , 77, 202-209	6.8	30
142	Effects of silicon additions on the oxide scale formation of an alumina-forming austenitic alloy. <i>Corrosion Science</i> , <b>2012</b> , 65, 317-321	6.8	30
141	Effects of cooling rates on the mechanical properties of a Ti-based bulk metallic glass. <i>Science China: Physics, Mechanics and Astronomy</i> , <b>2010</b> , 53, 394-398	3.6	30
140	Additive manufacturing of metals: Microstructure evolution and multistage control. <i>Journal of Materials Science and Technology</i> , <b>2022</b> , 100, 224-236	9.1	30
139	A novel Ho <sub>36</sub> Dy <sub>20</sub> Al <sub>24</sub> Co <sub>20</sub> bulk metallic glass with large magnetocaloric effect. <i>Solid State Communications</i> , <b>2008</b> , 146, 49-52	1.6	29
138	Influences of oxygen on plastic deformation of a Fe-based bulk metallic glass. <i>Scripta Materialia</i> , <b>2017</b> , 135, 24-28	5.6	28
137	Competitive formation of glasses and glass/matrix composites. <i>Intermetallics</i> , <b>2007</b> , 15, 253-259	3.5	28
136	Critical cooling rate and thermal stability of Fe <sub>70</sub> Zr <sub>10</sub> Ni <sub>10</sub> Cr <sub>5</sub> Mo <sub>5</sub> amorphous alloy. <i>Journal of Alloys and Compounds</i> , <b>2006</b> , 407, 125-128	5.7	28
135	Compressive fracture characteristics of a Zr-based bulk metallic glass at high test temperatures. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2005</b> , 398, 82-87	5.3	28
134	Thermodynamics of La based LaAlCuNiCo alloys studied by temperature modulated DSC. <i>Intermetallics</i> , <b>2000</b> , 8, 477-480	3.5	27

133	Extremely high dislocation density and deformation pathway of CrMnFeCoNi high entropy alloy at ultralow temperature. <i>Scripta Materialia</i> , <b>2020</b> , 188, 21-25	5.6	27
132	High-performance hybrid electrode decorated by well-aligned nanograss arrays for glucose sensing. <i>Biosensors and Bioelectronics</i> , <b>2018</b> , 102, 288-295	11.8	27
131	Bendable nanoporous copper thin films with tunable thickness and pore features. <i>Corrosion Science</i> , <b>2016</b> , 104, 227-235	6.8	26
130	Compositional gradient films constructed by sputtering in a multicomponent TiAl(Cr, Fe, Ni) system. <i>Journal of Materials Research</i> , <b>2018</b> , 33, 3330-3338	2.5	26
129	In-situ study of crystallization kinetics in ternary bulk metallic glass alloys with different glass forming abilities. <i>Applied Physics Letters</i> , <b>2014</b> , 105, 201906	3.4	26
128	Enhancing glass-forming ability via frustration of nano-clustering in alloys with a high solvent content. <i>Scientific Reports</i> , <b>2013</b> , 3, 1983	4.9	26
127	Glass-forming ability and thermal stability of a new bulk metallic glass in the quaternary ZrCuNiAl system. <i>Journal of Non-Crystalline Solids</i> , <b>2005</b> , 351, 2519-2523	3.9	26
126	Glass Forming Ability of La-rich La-Al-Cu Ternary Alloys. <i>Materials Transactions</i> , <b>2001</b> , 42, 551-555	1.3	26
125	IrW nanochannel support enabling ultrastable electrocatalytic oxygen evolution at 2 A cm in acidic media. <i>Nature Communications</i> , <b>2021</b> , 12, 3540	17.4	26
124	A simplified model connecting lattice distortion with friction stress of Nb-based equiatomic high-entropy alloys. <i>Materials Research Letters</i> , <b>2019</b> , 7, 340-346	7.4	25
123	Effects of Mo additions on the glass-forming ability and magnetic properties of bulk amorphous Fe-C-Si-B-P-Mo alloys. <i>Science China: Physics, Mechanics and Astronomy</i> , <b>2010</b> , 53, 430-434	3.6	25
122	Ultrahigh stability and strong precipitation strengthening of nanosized NbC in alumina-forming austenitic stainless steels subjecting to long-term high-temperature exposure. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2018</b> , 738, 295-307	5.3	25
121	High-energy X-ray diffuse scattering studies on deformation-induced spatially confined martensitic transformations in multifunctional Ti <sub>4</sub> Nb <sub>4</sub> Zr <sub>8</sub> Sn alloy. <i>Acta Materialia</i> , <b>2014</b> , 81, 476-486	8.4	24
120	Snoek-type damping performance in strong and ductile high-entropy alloys. <i>Science Advances</i> , <b>2020</b> , 6, eaba7802	14.3	23
119	Size effects on the compressive deformation behaviour of a brittle Fe-based bulk metallic glass. <i>Philosophical Magazine Letters</i> , <b>2010</b> , 90, 403-412	1	23
118	Nano-graining a particle-strengthened high-entropy alloy. <i>Scripta Materialia</i> , <b>2019</b> , 163, 24-28	5.6	23
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