

Tao Zhang

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

225
papers

9,728
citations

46
h-index

93
g-index

227
ext. papers

10,446
ext. citations

4.2
avg. IF

6.18
L-index

#	Paper	IF	Citations
225	The atomic structure, magnetic properties and bending ductility of a novel Fe-P-C-B-Si amorphous alloy investigated by experiments and ab initio molecular dynamics. <i>Journal of Alloys and Compounds</i> , 2022 , 904, 164101	5.7	0
224	Design and properties of novel Ti ₂₀ Zr ₁₀ Nb ₁₀ Al ₁₀ high-entropy alloys for biomedical applications. <i>Intermetallics</i> , 2022 , 141, 107421	3.5	6
223	Tailoring metalloid elements in Fe-C-P-B amorphous/nanocrystalline alloys with high saturated magnetization and heat-treatable bending ductility. <i>Journal of Non-Crystalline Solids</i> , 2022 , 584, 121515	3.9	0
222	Effect of continuous rapid annealing on the microstructure and properties of Fe ₈₅ P ₁₁ C ₂ B ₂ amorphous alloy. <i>Materials Letters</i> , 2022 , 315, 131984	3.3	0
221	Ti-Cu-Zr-Fe-Sn-Si-Ag-Pd Bulk Metallic Glasses with Potential for Biomedical Applications. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2021 , 52, 1559-1567	2.3	1
220	Al _{0.3} Cr _x FeCoNi high-entropy alloys with high corrosion resistance and good mechanical properties. <i>Journal of Alloys and Compounds</i> , 2021 , 860, 158436	5.7	29
219	Nanocrystalline Fe ₈₃ Si ₄ B ₁₀ P ₂ Cu ₁ ribbons with improved soft magnetic properties and bendability prepared via rapid annealing of the amorphous precursor. <i>Journal of Magnetism and Magnetic Materials</i> , 2021 , 523, 167583	2.8	6
218	Fabrication of hierarchical porous metallic glasses decorated with Cu nanoparticles as integrated electrodes for high-performance non-enzymatic glucose sensing. <i>Scripta Materialia</i> , 2021 , 199, 113884	5.6	2
217	In-situ constructed Ru-rich porous framework on NiFe-based ribbon for enhanced oxygen evolution reaction in alkaline solution. <i>Journal of Materials Science and Technology</i> , 2021 , 70, 197-204	9.1	9
216	Nanoporous metallic-glass electrocatalysts for highly efficient oxygen evolution reaction. <i>Journal of Alloys and Compounds</i> , 2021 , 852, 156876	5.7	12
215	Tailoring Nano-crystallization in Zr ₅₀ Ti ₄ Y ₁ Al ₁₀ Cu ₂₅ Ni ₇ Co ₂ Fe ₁ complex multicomponent bulk metallic glass by O doping. <i>Journal of Non-Crystalline Solids</i> , 2021 , 553, 120474	3.9	1
214	Development of Co-Based Amorphous Composite Coatings Synthesized by Laser Cladding for Neutron Shielding. <i>Materials</i> , 2021 , 14,	3.5	1
213	Direct drive friction welding of a multi-phase Al ₁₃ Cr _{23.5} Fe ₂₀ Co ₂₀ Ni _{23.5} high-entropy alloy. <i>Science and Technology of Welding and Joining</i> , 2021 , 26, 513-520	3.7	
212	Balancing benefits of strength, plasticity and glass-forming ability in Co-based metallic glasses. <i>Journal of Materials Science and Technology</i> , 2021 , 86, 110-116	9.1	3
211	The similarity of elements in multi-principle element alloys based on a new criterion for phase constitution. <i>Materials and Design</i> , 2021 , 207, 109849	8.1	2
210	General route to fabricate ultrafine metallic glass powders directly from their own crystalline states by localized pulsed electrical discharge atomization. <i>Intermetallics</i> , 2021 , 136, 107267	3.5	0
209	Tribological behaviors of high-hardness Co-based amorphous coatings fabricated by laser cladding. <i>Tribology International</i> , 2021 , 162, 107142	4.9	6

208	Effect of annealing on crystallization behavior in Cu ₁₅ Zr ₈₅ amorphous film. <i>Journal of Alloys and Compounds</i> , 2021 , 883, 160913	5.7	0
207	Effect of primary Fe on soft magnetic properties of FeCuNbSiB amorphous/nanocrystalline alloy. <i>Journal of Non-Crystalline Solids</i> , 2021 , 571, 121079	3.9	7
206	Formation and properties of biocompatible Ti-based bulk metallic glasses in the TiCuZrFeSnSiAg system. <i>Journal of Non-Crystalline Solids</i> , 2021 , 571, 121060	3.9	3
205	Bio-corrosion behavior and in vitro biocompatibility of equimolar TiZrHfNbTa high-entropy alloy. <i>Intermetallics</i> , 2020 , 124, 106845	3.5	30
204	Crystallization and corrosion resistance of ZrTiAlCuNiCoFe complex multi-component bulk metallic glasses. <i>Intermetallics</i> , 2020 , 118, 106688	3.5	2
203	Influences of laser surface melting on microstructure, mechanical properties and corrosion resistance of dual-phase CrFeCoNiAl high entropy alloys. <i>Journal of Alloys and Compounds</i> , 2020 , 826, 154100	5.7	10
202	Dry wear behavior and mechanism of a Fe-based bulk metallic glass: description by Hertzian contact calculation and finite-element method simulation. <i>Journal of Non-Crystalline Solids</i> , 2020 , 543, 120065	3.9	10
201	A complex multicomponent bulk metallic glass/ultrafine-nanocrystal composite fabricated under industrial-applicable condition. <i>Journal of Non-Crystalline Solids</i> , 2020 , 530, 119827	3.9	1
200	Effect of similar element Nb and Ti substitution for Zr in Fe ₇₀ (ZrNbTi) ₁₀ B ₂₀ bulk metallic glasses. <i>Journal of Non-Crystalline Solids</i> , 2020 , 529, 119765	3.9	3
199	Honeycomb-like porous metallic glasses decorated by Cu nanoparticles formed by one-pot electrochemically galvanostatic etching. <i>Materials and Design</i> , 2020 , 196, 109109	8.1	3
198	Triggering of Apoptosis in Osteosarcoma 143B Cell Line by Carbon Quantum Dots via the Mitochondrial Apoptotic Signal Pathway. <i>BioMed Research International</i> , 2020 , 2020, 2846297	3	3
197	Atomic structure of Co ₉₂ BxTa ₈ glassy alloys studied by ab initio molecular dynamics simulations. <i>International Journal of Quantum Chemistry</i> , 2020 , 120, e26406	2.1	0
196	TiZrCuFeSnSiAgTa bulk metallic glasses with good corrosion resistance as potential biomaterials. <i>Rare Metals</i> , 2020 , 39, 688-694	5.5	12
195	Design and preparation of nanoporous AgCu alloys by dealloying Mg(Ag,Cu) metallic glasses for antibacterial applications. <i>Journal of Materials Chemistry B</i> , 2019 , 7, 4169-4176	7.3	17
194	Nanolayered flaky Fe-based amorphous-nanocrystalline/graphite sheet composites with enhanced microwave absorbing properties. <i>Journal of Alloys and Compounds</i> , 2019 , 797, 39-44	5.7	7
193	Formation of ultrafine spongy nanoporous metals (Ni, Cu, Pd, Ag and Au) by dealloying metallic glasses in acids with capping effect. <i>Corrosion Science</i> , 2019 , 153, 1-11	6.8	11
192	Controllable brittleness in soft-magnetic Fe-P-C-B metallic glasses through composition design. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2019 , 766, 138385	5.3	7
191	FeSiBPnCu Bulk Nanocrystalline Alloys with High GFA and Excellent Soft-Magnetic Properties. <i>Metals</i> , 2019 , 9, 219	2.3	4

190	Tunable magnetic properties and heat-treatable bending ductility of Fe-Co-B-P-C amorphous alloys with a high saturated magnetization up to 1.79 T. <i>Journal of Alloys and Compounds</i> , 2019 , 778, 302-308	5.7	14
189	Effect of similar element substitution on Fe-B-Si-Mo bulk metallic glasses studied by experiment and ab initio molecular dynamics simulation. <i>Journal of Alloys and Compounds</i> , 2019 , 784, 1139-1144	5.7	13
188	Homogeneous Nanoporous Ni Particles Produced by Dealloying Mg-Based Metallic Glass as Efficient Hydrogen Evolution Electrocatalyst. <i>Journal of the Electrochemical Society</i> , 2018 , 165, F207-F214	3.9	7
187	Non-isothermal crystallization kinetics of Fe ₇₅ Cr ₅ P ₉ B ₄ C ₇ metallic glass with a combination of desired merits. <i>Vacuum</i> , 2018 , 152, 8-14	3.7	11
186	Influence of laser surface melting treatment on the surface composition and mechanical properties of a Zr ₆₅ Al _{7.5} Ni ₁₀ Cu _{12.5} Ag ₅ bulk metallic glass. <i>Journal of Non-Crystalline Solids</i> , 2018 , 488, 63-68	3.9	5
185	Microstructure and Mechanical Properties of Al ₂₅ Fe _x Cr ₂₅ + 0.5xFe ₂₅ Ni ₂₅ + 0.5x (x = 19, 17, 15 at%) Multi-Component Alloys. <i>Advanced Engineering Materials</i> , 2018 , 20, 1701057	3.5	4
184	Tribocorrosion behaviors of a biodegradable Mg ₆₅ Zn ₃₀ Ca ₅ bulk metallic glass for potential biomedical implant applications. <i>Journal of Alloys and Compounds</i> , 2018 , 745, 111-120	5.7	26
183	Local atomic structure of Co B-based glassy alloys: Ab initio molecular dynamics simulations. <i>Journal of Non-Crystalline Solids</i> , 2018 , 483, 118-125	3.9	2
182	Isothermal crystallization kinetics of Fe ₇₅ Cr ₅ P ₉ B ₄ C ₇ metallic glass with cost-effectiveness and desirable merits. <i>Journal of Thermal Analysis and Calorimetry</i> , 2018 , 133, 1309-1315	4.1	14
181	Glass formation and properties of Ti-based bulk metallic glasses as potential biomaterials with Nb additions. <i>Rare Metals</i> , 2018 , 37, 831-837	5.5	11
180	Correlations between the wear resistance and properties of bulk metallic glasses. <i>Intermetallics</i> , 2018 , 93, 290-298	3.5	31
179	Tribological behaviors of a Ni-free Ti-based bulk metallic glass in air and a simulated physiological environment. <i>Journal of Alloys and Compounds</i> , 2018 , 766, 1030-1036	5.7	15
178	Self-oxidized sponge-like nanoporous nickel alloy in three-dimensions with pseudocapacitive behavior and excellent capacitive performance. <i>Journal of Power Sources</i> , 2018 , 399, 192-198	8.9	14
177	Atomic Structure and Magnetic Properties of the Fe ₇₈ B ₁₃ Si ₉ Amorphous Alloy Surface. <i>Journal of Physical Chemistry C</i> , 2018 , 122, 28613-28618	3.8	3
176	Surface vitrification of alloys by pulsed electrical discharge treatment. <i>Journal of Alloys and Compounds</i> , 2017 , 707, 148-154	5.7	4
175	Synthesis of Fe ₇₅ Cr ₅ (PBC) ₂₀ bulk metallic glasses with a combination of desired merits using industrial ferro-alloys without high-purity materials. <i>Journal of Alloys and Compounds</i> , 2017 , 699, 92-97	5.7	16
174	Fabrication of Three-Dimensional Nanoporous Nickel by Dealloying Mg-Ni-Y Metallic Glasses in Citric Acid Solutions for High-Performance Energy Storage. <i>Journal of the Electrochemical Society</i> , 2017 , 164, A348-A354	3.9	12
173	Formation and evolution of nanoporous bimetallic Ag-Cu alloy by electrochemically dealloying Mg-(Ag-Cu)-Y metallic glass. <i>Corrosion Science</i> , 2017 , 119, 23-32	6.8	24

172	A new strategy to fabricate nanoporous iron-based metallic glasses: Selective phase tailoring of amorphous-nanocrystalline composite alloys through electrochemical dissolution. <i>Scripta Materialia</i> , 2017 , 133, 14-18	5.6	21
171	Fabrication of highly ordered nanotube layer on Zr-based bulk metallic glass for biomedical uses. <i>Materials Letters</i> , 2017 , 200, 63-66	3.3	5
170	Correlation between local structure and glass forming ability enhanced by similar element substitution in (La-Ce)-Co-Al bulk metallic glasses. <i>Journal of Applied Physics</i> , 2017 , 122, 085103	2.5	3
169	Effects of noble elements on the glass-forming ability, mechanical property, electrochemical behavior and tribocorrosion resistance of Ni- and Cu-free Zr-Al-Co bulk metallic glass. <i>Journal of Alloys and Compounds</i> , 2017 , 725, 403-414	5.7	16
168	Effects of lutetium addition on formation, oxidation and tribological properties of a Zr-based bulk metallic glass. <i>Intermetallics</i> , 2017 , 90, 81-89	3.5	9
167	Correlation between dealloying conditions and coarsening behaviors of nanoporous silver produced by chemical dealloying of Ca-Ag metallic glass. <i>Journal of Alloys and Compounds</i> , 2017 , 695, 1600-1609	5.7	18
166	Tailoring residual stress to achieve large plasticity in Zr ₅₅ Al ₁₀ Ni ₅ Cu ₃₀ bulk metallic glass. <i>Journal of Alloys and Compounds</i> , 2017 , 690, 176-181	5.7	4
165	Fabrication of fine spongy nanoporous Ag-Au alloys with improved catalysis properties. <i>Progress in Natural Science: Materials International</i> , 2017 , 27, 658-663	3.6	3
164	A Ti ₂ Zr ₂ Cu ₂ Ni ₂ Co ₂ Be ₂ Al ₂ Sn amorphous filler metal for improving the strength of Ti ₆ Al ₄ V alloy brazing joint. <i>Progress in Natural Science: Materials International</i> , 2017 , 27, 687-694	3.6	10
163	Enhanced Wear Resistance of Zr-Based Bulk Metallic Glass by Thermal Oxidation Treatment. <i>Materials Transactions</i> , 2017 , 58, 520-523	1.3	4
162	Thermal stability, crystallization and soft magnetic properties of Fe-P-C-based glassy alloys. <i>Journal of Non-Crystalline Solids</i> , 2016 , 454, 39-45	3.9	15
161	Formation and mechanical properties of Zr-Nb-Cu-Ni-Al-Lu bulk glassy alloys with superior glass-forming ability. <i>Journal Wuhan University of Technology, Materials Science Edition</i> , 2016 , 31, 186-190	1	1
160	Ti Cu Zr Fe Sn Si Sc bulk metallic glasses with good mechanical properties for biomedical applications. <i>Journal of Alloys and Compounds</i> , 2016 , 679, 341-349	5.7	20
159	In vitro responses of bone-forming MC3T3-E1 pre-osteoblasts to biodegradable Mg-based bulk metallic glasses. <i>Materials Science and Engineering C</i> , 2016 , 68, 632-641	8.3	14
158	General synthesis of sponge-like ultrafine nanoporous metals by dealloying in citric acid. <i>Nano Research</i> , 2016 , 9, 2467-2477	10	20
157	Amorphization of Ni ₆₁ Nb ₃₉ Alloy by Laser Surface Treatment. <i>Journal of Iron and Steel Research International</i> , 2016 , 23, 37-41	1.2	3
156	Induced Plasticity of a Brittle (La, Ce)-Based Bulk Metallic Glass by Surface Corrosion. <i>Acta Metallurgica Sinica (English Letters)</i> , 2016 , 29, 129-133	2.5	1
155	Size-dependent enhancement of plasticity by laser surface melting in Zr ₅₅ Al ₁₀ Ni ₅ Cu ₃₀ bulk metallic glass. <i>Journal of Alloys and Compounds</i> , 2016 , 658, 49-54	5.7	8

154	Formation and properties of Ti-based Ti ₄₀ Zr ₁₀ Cu ₂₀ Be ₅ Ni ₅ bulk metallic glasses with different (Ti+Zr)/Cu ratios for biomedical application. <i>Intermetallics</i> , 2016 , 72, 36-43	3.5	28
153	Synthesis of impurity-insensitive Zr-based bulk metallic glass. <i>Journal of Non-Crystalline Solids</i> , 2016 , 439, 1-5	3.9	8
152	A multicomponent TiZr-based amorphous brazing filler metal for high-strength joining of titanium alloy. <i>Scripta Materialia</i> , 2016 , 117, 55-59	5.6	32
151	Formation and properties of centimeter-size Zr ₄₀ Ti ₁₀ Al ₁₀ bulk metallic glasses as potential biomaterials. <i>Journal of Alloys and Compounds</i> , 2016 , 656, 389-394	5.7	20
150	Microstructure and mechanical properties of Al ₂₀ Cr ₂₀ +0.5xFe ₂₀ Co ₂₀ Ni ₂₀ +0.5x high entropy alloys. <i>Journal of Alloys and Compounds</i> , 2016 , 659, 279-287	5.7	47
149	Crystallization kinetics of a high-zirconium-based glassy alloy: A DSC study. <i>Journal Wuhan University of Technology, Materials Science Edition</i> , 2016 , 31, 191-196	1	2
148	Microalloying-induced large plasticity in La-Al-C bulk metallic glass. <i>Journal of Non-Crystalline Solids</i> , 2016 , 447, 55-58	3.9	0
147	Corrosion fatigue behavior of a Mg-based bulk metallic glass in a simulated physiological environment. <i>Intermetallics</i> , 2016 , 73, 31-39	3.5	13
146	Tensile plasticity in monolithic bulk metallic glass with sandwiched structure. <i>Journal of Alloys and Compounds</i> , 2016 , 688, 724-728	5.7	12
145	Surface engineering of a Zr-based bulk metallic glass with low energy Ar- or Ca-ion implantation. <i>Materials Science and Engineering C</i> , 2015 , 47, 248-55	8.3	9
144	Effects of Metalloid B Addition on the Glass Formation, Magnetic and Mechanical Properties of FePCB Bulk Metallic Glasses. <i>Journal of Materials Science and Technology</i> , 2015 , 31, 493-497	9.1	20
143	FeAlPCB bulk metallic glass with good mechanical and soft magnetic properties. <i>Journal of Alloys and Compounds</i> , 2015 , 637, 5-9	5.7	21
142	Ab initio molecular dynamics simulation of the surface composition of Co ₅₄ Ta ₁₁ B ₃₅ metallic glasses. <i>Journal of Non-Crystalline Solids</i> , 2015 , 425, 199-206	3.9	3
141	Dry and lubricated tribological behavior of a Ni- and Cu-free Zr-based bulk metallic glass. <i>Journal of Non-Crystalline Solids</i> , 2015 , 426, 63-71	3.9	26
140	Hard rheniumBoronBcobalt amorphous alloys with a wide supercooled liquid region. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2015 , 645, 122-125	5.3	3
139	Formation of nanoporous silver by dealloying CaAg metallic glasses in water. <i>Intermetallics</i> , 2015 , 67, 166-170	3.5	16
138	The 1.85 GPa AlSc Bulk Alloy with Abundant Nanoscale Growth Twins. <i>Chinese Physics Letters</i> , 2015 , 32, 076401	1.8	1
137	In vitro investigation of MgZnCaAg bulk metallic glasses for biomedical applications. <i>Journal of Non-Crystalline Solids</i> , 2015 , 427, 134-138	3.9	26

136	Glass formation, corrosion behavior, and mechanical properties of novel Cr-rich CrFeMoCoB bulk metallic glasses. <i>Journal of Alloys and Compounds</i> , 2015 , 625, 318-322	5.7	27
135	Corrosion resistant Cr-based bulk metallic glasses with high strength and hardness. <i>Journal of Non-Crystalline Solids</i> , 2015 , 410, 20-25	3.9	26
134	A centimeter-size Zr ₄₀ Hf ₁₀ Ti ₄ Y ₁ Al ₁₀ Cu ₂₅ Ni ₇ Co ₂ Fe ₁ bulk metallic glass with high mixing entropy designed by multi-substitution. <i>Journal of Non-Crystalline Solids</i> , 2015 , 410, 39-42	3.9	24
133	Biodegradable MgZnCa bulk metallic glasses with enhanced corrosion performance for biomedical applications. <i>Materials & Design</i> , 2015 , 67, 9-19		101
132	New Ti-based TiCuZrFeSnSiAg bulk metallic glass for biomedical applications. <i>Journal of Alloys and Compounds</i> , 2015 , 625, 323-327	5.7	67
131	Towards improved integrated properties in FeCrPCB bulk metallic glasses by Cr addition. <i>Intermetallics</i> , 2015 , 61, 16-20	3.5	28
130	Synthesis of CoCrMoCB bulk metallic glasses with high strength and good plasticity via regulating the metalloid content. <i>Journal of Non-Crystalline Solids</i> , 2015 , 410, 155-159	3.9	7
129	Effects of minor Sn addition on the glass formation and properties of Fe-metalloid metallic glasses with high magnetization and high glass forming ability. <i>Journal of Magnetism and Magnetic Materials</i> , 2015 , 378, 417-423	2.8	18
128	Tuning glass formation and brittle behaviors by similar solvent element substitution in (Mn,Fe)-based bulk metallic glasses. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2015 , 626, 16-26	5.3	15
127	Effects of boron content on the glass-forming ability and mechanical properties of CoBAla glassy alloys. <i>Journal of Alloys and Compounds</i> , 2014 , 617, 7-11	5.7	13
126	Biocompatible Ni-free Zr-based bulk metallic glasses with high-Zr-content: compositional optimization for potential biomedical applications. <i>Materials Science and Engineering C</i> , 2014 , 44, 400-10 ^{8.3}	8.3	49
125	Glass-forming ability, crystallization kinetics, mechanical property, and corrosion behavior of ZrAlNiAg glassy alloys. <i>Journal of Alloys and Compounds</i> , 2014 , 602, 339-345	5.7	22
124	Large-sized CuZr-based Bulk Metallic Glass Composite with Enhanced Mechanical Properties. <i>Journal of Materials Science and Technology</i> , 2014 , 30, 590-594	9.1	20
123	Formation and mechanical properties of LaAl(Ca)C bulk metallic glasses with high content of carbon. <i>Journal of Non-Crystalline Solids</i> , 2014 , 403, 18-22	3.9	4
122	Tunable magnetic and magnetocaloric properties in heavy rare-earth based metallic glasses through the substitution of similar elements. <i>Journal of Applied Physics</i> , 2014 , 115, 133903	2.5	11
121	Macrophage responses to a Zr-based bulk metallic glass. <i>Journal of Biomedical Materials Research - Part A</i> , 2014 , 102, 3369-78	5.4	8
120	Ternary LaAlC bulk metallic glasses. <i>Intermetallics</i> , 2014 , 52, 92-96	3.5	14
119	Antimicrobial behavior of Cu-bearing Zr-based bulk metallic glasses. <i>Materials Science and Engineering C</i> , 2014 , 39, 325-9	8.3	22

118	Enhanced degradation of azo dye by nanoporous-copper-decorated MgCuY metallic glass powder through dealloying pretreatment. <i>Applied Surface Science</i> , 2014 , 305, 314-320	6.7	46
117	Investigation on structure and dynamic property of liquid Pd-Cu-Ni-P alloys using ab initio molecular dynamics simulation. <i>Science China Technological Sciences</i> , 2013 , 56, 376-386	3.5	2
116	Local structure of Co ₅₅ Ta ₁₀ B ₃₅ amorphous alloy investigated by ab-initio molecular dynamics. <i>Science China: Physics, Mechanics and Astronomy</i> , 2013 , 56, 904-909	3.6	2
115	Effects of the laser surface treatment on the mechanical properties of CuZr-based bulk metallic glasses. <i>Science China: Physics, Mechanics and Astronomy</i> , 2013 , 56, 925-927	3.6	2
114	Near room-temperature magnetocaloric effect in FeMnPBC metallic glasses with tunable Curie temperature. <i>Journal of Magnetism and Magnetic Materials</i> , 2013 , 347, 131-135	2.8	29
113	Effects of minor Cu addition on glass-forming ability and magnetic properties of FePCBCu alloys with high saturation magnetization. <i>Philosophical Magazine</i> , 2013 , 93, 2182-2189	1.6	27
112	Correlation of glass-forming ability to thermal properties in Ti-based bulk metallic glasses. <i>Journal of Alloys and Compounds</i> , 2013 , 546, 7-13	5.7	6
111	Novel low Cu content and Ni-free Zr-based bulk metallic glasses for biomedical applications. <i>Journal of Non-Crystalline Solids</i> , 2013 , 363, 1-5	3.9	23
110	Glass-forming ability, fragility parameter, and mechanical properties of Co ₄₀ Ta ₆ B amorphous alloys. <i>Journal of Alloys and Compounds</i> , 2013 , 576, 375-379	5.7	12
109	TiCuZrBeNb ultrafine structure-dendrite composites with good mechanical properties and biocompatibility. <i>Progress in Natural Science: Materials International</i> , 2013 , 23, 557-561	3.6	1
108	High-zirconium bulk metallic glasses with high strength and large ductility. <i>Science China: Physics, Mechanics and Astronomy</i> , 2013 , 56, 540-544	3.6	10
107	A Ni-free high-zirconium-based bulk metallic glass with enhanced plasticity and biocompatibility. <i>Journal of Non-Crystalline Solids</i> , 2013 , 376, 133-138	3.9	25
106	Nucleation and growth of nanoporous copper ligaments during electrochemical dealloying of Mg-based metallic glasses. <i>Corrosion Science</i> , 2013 , 67, 100-108	6.8	87
105	A study on the surface structures and properties of Ni-free Zr-based bulk metallic glasses after Ar and Ca ion implantation. <i>Intermetallics</i> , 2013 , 41, 35-43	3.5	13
104	Crystallization and thermophysical properties of Cu ₄₆ Zr ₄₇ Al ₆ Co ₁ bulk metallic glass. <i>AIP Advances</i> , 2013 , 3, 112115	1.5	17
103	Three-dimensional nanoporous copper with high surface area by dealloying MgCuY metallic glasses. <i>Materials Letters</i> , 2012 , 76, 96-99	3.3	43
102	Optimization of mechanical properties of bulk metallic glasses by residual stress adjustment using laser surface melting. <i>Scripta Materialia</i> , 2012 , 66, 1057-1060	5.6	28
101	The relationship between t-ZrO ₂ stability and the crystallization of a Zr-based bulk metallic glass during oxidation. <i>Intermetallics</i> , 2012 , 31, 21-25	3.5	10

100	Hierarchical ultrafine-grained/nanocrystalline Al-based bulk alloy with high strength and large plasticity. <i>Intermetallics</i> , 2012 , 23, 199-203	3.5	12
99	Induced multiple heterogeneities and related plastic improvement by laser surface treatment in CuZr-based bulk metallic glass. <i>Intermetallics</i> , 2012 , 24, 50-55	3.5	43
98	Surface vitrification of alloys by laser surface treatment. <i>Journal of Alloys and Compounds</i> , 2012 , 511, 215-220	5.7	32
97	Microstructure and mechanical properties of a spray-formed Ti-based metallic glass former alloy. <i>Journal of Alloys and Compounds</i> , 2012 , 512, 241-245	5.7	6
96	Investigation of viscosity and crystallization in supercooled-liquid region of Zr-based glassy alloys. <i>Journal of Non-Crystalline Solids</i> , 2012 , 358, 150-154	3.9	7
95	The influence of Ag substitution for Cu on glass-forming ability and thermal properties of Mg-based bulk metallic glasses. <i>Journal of Non-Crystalline Solids</i> , 2012 , 358, 1425-1429	3.9	11
94	Corrosion behavior and in vitro biocompatibility of ZrAlCoAg bulk metallic glasses: An experimental case study. <i>Journal of Non-Crystalline Solids</i> , 2012 , 358, 1599-1604	3.9	52
93	Glass formation, magnetic properties and magnetocaloric effect of ternary HoAlCo bulk metallic glass. <i>Journal of Magnetism and Magnetic Materials</i> , 2012 , 324, 4064-4067	2.8	6
92	Biocompatible Zr-Al-Fe bulk metallic glasses with large plasticity. <i>Science China: Physics, Mechanics and Astronomy</i> , 2012 , 55, 1664-1669	3.6	19
91	Formation and mechanical properties of Zr-based bulk metallic glass composites with high oxygen levels. <i>Science Bulletin</i> , 2012 , 57, 3931-3936		4
90	Ni-free Zr-Cu-Al-Nb-Pd bulk metallic glasses with different Zr/Cu ratios for biomedical applications. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2012 , 100, 1472-82	3.5	28
89	Compositional dependence of microstructure and tribological properties of plasma sprayed Fe-based metallic glass coatings. <i>Science China Technological Sciences</i> , 2012 , 55, 1335-1342	3.5	10
88	Formation and biocorrosion behavior of Zr-Al-Co-Nb bulk metallic glasses. <i>Science Bulletin</i> , 2012 , 57, 1723-1727		10
87	Microstructural tailoring and improvement of mechanical properties in CuZr-based bulk metallic glass composites. <i>Acta Materialia</i> , 2012 , 60, 3128-3139	8.4	123
86	Pronounced ductility in CuZrAl ternary bulk metallic glass composites with optimized microstructure through melt adjustment. <i>AIP Advances</i> , 2012 , 2, 032176	1.5	31
85	Formation and mechanical properties of Ni-free Zr-based bulk metallic glasses. <i>Journal of Alloys and Compounds</i> , 2011 , 509, S175-S178	5.7	18
84	Nitrogen-doping effect on glass formation and primary phase selection in CuZrAl alloys. <i>Journal of Alloys and Compounds</i> , 2011 , 509, 5033-5037	5.7	24
83	Spray formed Al-based amorphous matrix nanocomposite plate. <i>Journal of Alloys and Compounds</i> , 2011 , 509, L169-L173	5.7	13

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81	Ternary FePt bulk metallic glass with good soft-magnetic and mechanical properties. <i>Scripta Materialia</i> , 2011 , 65, 536-539	5.6	114
80	Quasi phase transition model of shear bands in metallic glasses. <i>Acta Materialia</i> , 2011 , 59, 7416-7424	8.4	32
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78	Effect of Ni addition on the glass-forming ability and soft-magnetic properties of FeNiBPNb metallic glasses. <i>Science Bulletin</i> , 2011 , 56, 3932-3936		20
77	Centimeter-scale-diameter Co-based bulk metallic glasses with fracture strength exceeding 5000 MPa. <i>Science Bulletin</i> , 2011 , 56, 3972-3977		29
76	Co-based ternary bulk metallic glasses with ultrahigh strength and plasticity. <i>Journal of Materials Research</i> , 2011 , 26, 2072-2079	2.5	119
75	Compressibility and hardness of Co-based bulk metallic glass: A combined experimental and density functional theory study. <i>Applied Physics Letters</i> , 2011 , 99, 151911	3.4	40
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71	Glass formation, thermal properties, and elastic constants of La-Al-Co alloys. <i>Journal of Materials Research</i> , 2010 , 25, 1398-1404	2.5	11
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58	Bio-corrosion study on zirconium-based bulk-metallic glasses. <i>Intermetallics</i> , 2009 , 17, 195-199	3.5	62
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52	Chill-zone aluminum alloys with GPa strength and good plasticity. <i>Journal of Materials Research</i> , 2009 , 24, 1513-1521	2.5	14
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41	Effects of Yttrium and Erbium Additions on Glass-Forming Ability and Mechanical Properties of Bulk Glassy Zr-Al-Ni-Cu Alloys. <i>Materials Transactions</i> , 2006 , 47, 450-453	1.3	52
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29	Corrosion Behavior of Cu-Zr-Ti-Nb Bulk Glassy Alloys. <i>Materials Transactions</i> , 2003 , 44, 749-753	1.3	51

28	Bulk Glassy Alloys with Low Liquidus Temperature in Pt-Cu-P System. <i>Materials Transactions</i> , 2003 , 44, 1143-1146	1.3	29
27	Thermal Stability and Mechanical Strength of Bulk Glassy Ni-Nb-Ti-Zr Alloys. <i>Materials Transactions</i> , 2002 , 43, 1952-1956	1.3	116
26	Fabrication of Bulk Glassy Hf50Cu30Ni10Al10 Alloy by Copper Mold Casting. <i>Materials Transactions</i> , 2002 , 43, 2357-2359	1.3	14
25	Bulk Glass Formation of Ti-Zr-Hf-Cu-M (M=Fe, Co, Ni) Alloys. <i>Materials Transactions</i> , 2002 , 43, 277-280	1.3	142
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20	Ti-based amorphous alloys with a large supercooled liquid region. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2001 , 304-306, 771-774	5.3	109
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17	Thermal and Mechanical Properties of Ti-Ni-Cu-Sn Amorphous Alloys with a Wide Supercooled Liquid Region before Crystallization. <i>Materials Transactions, JIM</i> , 1998 , 39, 1001-1006		258
16	New Fe-Co-Ni-Zr-B Amorphous Alloys with Wide Supercooled Liquid Regions and Good Soft Magnetic Properties. <i>Materials Transactions, JIM</i> , 1997 , 38, 359-362		176
15	Thermal Stability and Magnetic Properties of Bulk Amorphous Fe-Al-Ga-P-C-B-Si Alloys. <i>Materials Transactions, JIM</i> , 1997 , 38, 189-196		63
14	Bulk amorphous alloys with high mechanical strength and good soft magnetic properties in Fe-TM-B (TM=IV-VIII group transition metal) system. <i>Applied Physics Letters</i> , 1997 , 71, 464-466	3.4	366
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12	Fabrication of Bulk Glassy Zr55Al10Ni5Cu30 Alloy of 30 mm in Diameter by a Suction Casting Method. <i>Materials Transactions, JIM</i> , 1996 , 37, 185-187		301
11	Hard Magnetic Bulk Amorphous Nd-Fe-Al Alloys of 12 mm in Diameter Made by Suction Casting. <i>Materials Transactions, JIM</i> , 1996 , 37, 636-640		91

10	Bulk Nd‐Fe‐Al Amorphous Alloys with Hard Magnetic Properties. <i>Materials Transactions, JIM</i> , 1996 , 37, 99-108		244
9	Effect of Additional Elements on Glass Transition Behavior and Glass Formation Tendency of Zr‐Al‐Cu‐Ni Alloys. <i>Materials Transactions, JIM</i> , 1995 , 36, 1420-1426		179
8	Amorphous (Ti,Zr, Hf) _x Ni _{1-x} Cu ternary alloys with a wide supercooled liquid region. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 1994 , 181-182, 1423-1426	5.2	135
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1	Ti ₂ Zr ₁₈ Hf ₁₈ Nb ₁₈ Ta ₁₈ N high-entropy alloys with good properties as potential biomaterials. <i>Rare Metals</i> , 2011 , 30, 1-5	5.5	1