

# Hidemi Kato

## List of Publications by Citations

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#	Paper	IF	Citations
331	Cobalt-based bulk glassy alloy with ultrahigh strength and soft magnetic properties. <i>Nature Materials</i> , <b>2003</b> , 2, 661-3	27	446
330	Structural heterogeneities and mechanical behavior of amorphous alloys. <i>Progress in Materials Science</i> , <b>2019</b> , 104, 250-329	42.2	248
329	Ultra-high strength above 5000 MPa and soft magnetic properties of CoBeTaB bulk glassy alloys. <i>Acta Materialia</i> , <b>2004</b> , 52, 1631-1637	8.4	203
328	Bulk-nanoporous-silicon negative electrode with extremely high cyclability for lithium-ion batteries prepared using a top-down process. <i>Nano Letters</i> , <b>2014</b> , 14, 4505-10	11.5	174
327	Pd <sub>20</sub> Pt <sub>20</sub> Cu <sub>20</sub> Ni <sub>20</sub> P <sub>20</sub> high-entropy alloy as a bulk metallic glass in the centimeter. <i>Intermetallics</i> , <b>2011</b> , 19, 1546-1554	3.5	158
326	Full strength compacts by extrusion of glassy metal powder at the supercooled liquid state. <i>Applied Physics Letters</i> , <b>1995</b> , 67, 2008-2010	3.4	156
325	Dealloying by metallic melt. <i>Materials Letters</i> , <b>2011</b> , 65, 1076-1078	3.3	148
324	Synthesis and Mechanical Properties of Bulk Amorphous Zr–Al–Ni–Cu Alloys Containing ZrC Particles. <i>Materials Transactions, JIM</i> , <b>1997</b> , 38, 793-800		130
323	Structure and properties of ultrafine-grained CoCrFeMnNi high-entropy alloys produced by mechanical alloying and spark plasma sintering. <i>Journal of Alloys and Compounds</i> , <b>2017</b> , 698, 591-604	5.7	125
322	Investigation of TiBeCo bulk alloys with high strength and enhanced ductility. <i>Acta Materialia</i> , <b>2005</b> , 53, 2009-2017	8.4	125
321	Newtonian to non-Newtonian master flow curves of a bulk glass alloy Pd <sub>40</sub> Ni <sub>10</sub> Cu <sub>30</sub> P <sub>20</sub> . <i>Applied Physics Letters</i> , <b>1998</b> , 73, 3665-3667	3.4	116
320	Tensile deformation behavior and deformation twinning of an equimolar CoCrFeMnNi high-entropy alloy. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2017</b> , 689, 122-133	5.3	109
319	Novel Co-rich high performance twinning-induced plasticity (TWIP) and transformation-induced plasticity (TRIP) high-entropy alloys. <i>Scripta Materialia</i> , <b>2019</b> , 165, 39-43	5.6	108
318	Nanoscale multistep shear band formation by deformation-induced nanocrystallization in Zr–Al–Ni–Pd bulk metallic glass. <i>Applied Physics Letters</i> , <b>2005</b> , 87, 151907	3.4	106
317	Fragility and thermal stability of Pt- and Pd-based bulk glass forming liquids and their correlation with deformability. <i>Scripta Materialia</i> , <b>2006</b> , 54, 2023-2027	5.6	105
316	High strength and good ductility of Zr <sub>55</sub> Al <sub>10</sub> Ni <sub>5</sub> Cu <sub>30</sub> bulk glass containing ZrC particles. <i>Scripta Materialia</i> , <b>2000</b> , 43, 503-507	5.6	104
315	Free-volume-induced enhancement of plasticity in a monolithic bulk metallic glass at room temperature. <i>Scripta Materialia</i> , <b>2008</b> , 59, 75-78	5.6	100

314	Voronoi analysis of the structure of Cu <sub>40</sub> Zr and Ni <sub>40</sub> Zr metallic glasses. <i>Intermetallics</i> , <b>2006</b> , 14, 893-897	3.5	98
313	Newtonian and non-Newtonian viscosity of supercooled liquid in metallic glasses. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2001</b> , 304-306, 674-678	5.3	84
312	Cu <sub>40</sub> Ti <sub>10</sub> Ag <sub>10</sub> Zr <sub>30</sub> bulk metallic glass composites and their properties. <i>Acta Materialia</i> , <b>2005</b> , 53, 2037-2048	8.4	83
311	Relationship between thermal expansion coefficient and glass transition temperature in metallic glasses. <i>Scripta Materialia</i> , <b>2008</b> , 58, 1106-1109	5.6	80
310	Novel Co-rich high entropy alloys with superior tensile properties. <i>Materials Research Letters</i> , <b>2019</b> , 7, 82-88	7.4	80
309	High-strength binary Ti-Fe bulk alloys with enhanced ductility. <i>Journal of Materials Research</i> , <b>2004</b> , 19, 3600-3606	2.5	79
308	Nano- to submicro-porous Ti alloy prepared from dealloying in a metallic melt. <i>Scripta Materialia</i> , <b>2011</b> , 65, 532-535	5.6	77
307	Three-dimensional open-cell macroporous iron, chromium and ferritic stainless steel. <i>Scripta Materialia</i> , <b>2013</b> , 68, 723-726	5.6	76
306	Preparation of three-dimensional nanoporous Si using dealloying by metallic melt and application as a lithium-ion rechargeable battery negative electrode. <i>Journal of Power Sources</i> , <b>2016</b> , 306, 8-16	8.9	71
305	Development of strong and ductile metastable face-centered cubic single-phase high-entropy alloys. <i>Acta Materialia</i> , <b>2019</b> , 181, 318-330	8.4	67
304	Imaging of 3D morphological evolution of nanoporous silicon anode in lithium ion battery by X-ray nano-tomography. <i>Nano Energy</i> , <b>2018</b> , 52, 381-390	17.1	65
303	High-strength Cu-based crystal-glassy composite with enhanced ductility. <i>Applied Physics Letters</i> , <b>2004</b> , 84, 1088-1089	3.4	65
302	Work-hardening induced tensile ductility of bulk metallic glasses via high-pressure torsion. <i>Scientific Reports</i> , <b>2015</b> , 5, 9660	4.9	64
301	Is Cu <sub>60</sub> Ti <sub>10</sub> Zr <sub>30</sub> a bulk glass-forming alloy?. <i>Applied Physics Letters</i> , <b>2003</b> , 82, 4041-4043	3.4	63
300	High strength and ductile binary TiBe composite alloy. <i>Journal of Alloys and Compounds</i> , <b>2004</b> , 384, L1-L35.7		62
299	Enhance the thermal stability and glass forming ability of Al-based metallic glass by Ca minor-alloying. <i>Intermetallics</i> , <b>2012</b> , 29, 35-40	3.5	61
298	Optimizing niobium dealloying with metallic melt to fabricate porous structure for electrolytic capacitors. <i>Acta Materialia</i> , <b>2015</b> , 84, 497-505	8.4	53
297	Three-dimensional bicontinuous porous graphite generated in low temperature metallic liquid. <i>Carbon</i> , <b>2016</b> , 96, 403-410	10.4	49

296	Excellent Thermal Stability and Bulk Glass Forming Ability of Fe-B-Nb-Y Soft Magnetic Metallic Glass. <i>Materials Transactions</i> , <b>2008</b> , 49, 506-512	1.3	48
295	Open porous dealloying-based biomaterials as a novel biomaterial platform. <i>Materials Science and Engineering C</i> , <b>2018</b> , 88, 95-103	8.3	47
294	High Tensile Strength Bulk Glassy Alloy Zr <sub>65</sub> Al <sub>10</sub> Ni <sub>10</sub> Cu <sub>15</sub> Prepared by Extrusion of Atomized Glassy Powder. <i>Materials Transactions, JIM</i> , <b>1996</b> , 37, 70-77		46
293	Characteristics of the structural and Johari-Goldstein relaxations in Pd-based metallic glass-forming liquids. <i>Journal of Physical Chemistry B</i> , <b>2014</b> , 118, 3720-30	3.4	45
292	Kinetics of formation and coarsening of nanoporous Titanium dealloyed with Mg melt. <i>Journal of Applied Physics</i> , <b>2013</b> , 114, 113503	2.5	45
291	Vogel-Fulcher-Tammann plot for viscosity scaled with temperature interval between actual and ideal glass transitions for metallic glasses in liquid and supercooled liquid states. <i>Intermetallics</i> , <b>2010</b> , 18, 406-411	3.5	44
290	Fabrication and soft-magnetic properties of Fe <sub>80</sub> Nb <sub>10</sub> glassy powder compacts by spark plasma sintering technique. <i>Intermetallics</i> , <b>2009</b> , 17, 218-221	3.5	44
289	High specific strength Mg-based bulk metallic glass matrix composite highly ductilized by Ti dispersoid. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2008</b> , 494, 299-303	5.3	44
288	Influence of nanoprecipitation on strength of Cu <sub>60</sub> Zr <sub>30</sub> Ti <sub>10</sub> glass containing Ti-ZrC particle reinforcements. <i>Scripta Materialia</i> , <b>2004</b> , 51, 577-581	5.6	44
287	Synthesis and Mechanical Properties of Zr <sub>55</sub> Al <sub>10</sub> Ni <sub>5</sub> Cu <sub>30</sub> Bulk Glass Composites Containing ZrC Particles Formed by the In-Situ Reaction. <i>Materials Transactions, JIM</i> , <b>2000</b> , 41, 1454-1459		43
286	High-strength hypereutectic Ti <sub>80</sub> Fe <sub>20</sub> bulk alloy with good ductility. <i>Philosophical Magazine Letters</i> , <b>2004</b> , 84, 359-364	1	40
285	Influence of hydrostatic pressure during casting on as cast structure and mechanical properties in Zr <sub>65</sub> Al <sub>7.5</sub> Ni <sub>10</sub> Cu <sub>17.5</sub> Pd <sub>x</sub> (x=0, 17.5) alloys. <i>Scripta Materialia</i> , <b>2004</b> , 51, 1063-1068	5.6	40
284	Effect of Cu on nanocrystallization and plastic properties of FeSiBPCu bulk metallic glasses. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2010</b> , 527, 2598-2602	5.3	38
283	Preparation of hierarchical porous metals by two-step liquid metal dealloying. <i>Scripta Materialia</i> , <b>2018</b> , 142, 101-105	5.6	36
282	Origin of nondetectable x-ray diffraction peaks in nanocomposite CuTiZr alloys. <i>Applied Physics Letters</i> , <b>2003</b> , 83, 3299-3301	3.4	36
281	Excellent creep properties of Mg-Zn-Cu-Gd-based alloy strengthened by quasicrystals and Laves phases. <i>Journal of Materials Research</i> , <b>2005</b> , 20, 1278-1286	2.5	36
280	Beating Thermal Coarsening in Nanoporous Materials via High-Entropy Design. <i>Advanced Materials</i> , <b>2020</b> , 32, e1906160	24	36
279	Impact of the structural state on the mechanical properties in a Zr <sub>70</sub> Al bulk metallic glass. <i>Journal of Alloys and Compounds</i> , <b>2014</b> , 607, 139-149	5.7	35

278	3D morphological evolution of porous titanium by x-ray micro- and nano-tomography. <i>Journal of Materials Research</i> , <b>2013</b> , 28, 2444-2452	2.5	35
277	Fe <sub>76</sub> Si <sub>9.6</sub> B <sub>8.4</sub> P <sub>6</sub> glassy powder soft-magnetic cores with low core loss prepared by spark-plasma sintering. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , <b>2011</b> , 176, 1247-1250	3.1	35
276	Voronoi Analysis of the Structure of Ni-Zr-Al Ternary Metallic Glass. <i>Materials Transactions</i> , <b>2007</b> , 48, 1698-1702	1.3	34
275	The effect of nanoquasicrystals on mechanical properties of as-extruded Mg <sub>2</sub> Ni <sub>3</sub> alloy. <i>Materials Letters</i> , <b>2012</b> , 79, 281-283	3.3	33
274	Nanoporous magnesium. <i>Nano Research</i> , <b>2018</b> , 11, 6428-6435	10	33
273	Sub-micron porous niobium solid electrolytic capacitor prepared by dealloying in a metallic melt. <i>Materials Letters</i> , <b>2014</b> , 116, 223-226	3.3	32
272	Mo microalloying effect on the glass-forming ability, magnetic, mechanical and corrosion properties of (Fe <sub>0.76</sub> Si <sub>0.096</sub> B <sub>0.084</sub> P <sub>0.06</sub> ) <sub>100-x</sub> Mox bulk glassy alloys. <i>Journal of Alloys and Compounds</i> , <b>2011</b> , 509, 7688-7691	5.7	31
271	Development and microstructure optimization of Mg-based metallic glass matrix composites with in situ B <sub>2</sub> -NiTi dispersoids. <i>Materials and Design</i> , <b>2015</b> , 83, 238-248	8.1	30
270	On structural relaxation and viscous work heating during non-Newtonian viscous flow in a Zr <sub>55</sub> Al <sub>10</sub> Ni <sub>5</sub> Cu <sub>30</sub> bulk metallic glass. <i>Acta Materialia</i> , <b>2006</b> , 54, 891-898	8.4	29
269	Evolution of a bicontinuous nanostructure via a solid-state interfacial dealloying reaction. <i>Scripta Materialia</i> , <b>2016</b> , 118, 33-36	5.6	29
268	On microstructural homogenization and mechanical properties optimization of biomedical Co-Cr-Mo alloy additively manufactured by using electron beam melting. <i>Additive Manufacturing</i> , <b>2019</b> , 28, 215-227	6.1	28
267	Three-Dimensional Morphological and Chemical Evolution of Nanoporous Stainless Steel by Liquid Metal Dealloying. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2017</b> , 9, 34172-34184	9.5	28
266	Investigation of high strength metastable hypereutectic ternary TiBeCo and quaternary TiBeCo(M, Sn) alloys. <i>Journal of Alloys and Compounds</i> , <b>2007</b> , 434-435, 32-35	5.7	27
265	Vacancy clustering and relaxation behavior in rapidly solidified B <sub>2</sub> FeAl ribbons. <i>Acta Materialia</i> , <b>2005</b> , 53, 3751-3764	8.4	27
264	Thermal evidence of stress-induced structural disorder of a Zr <sub>55</sub> Al <sub>10</sub> Ni <sub>5</sub> Cu <sub>30</sub> glassy alloy in the non-Newtonian region. <i>Applied Physics Letters</i> , <b>2001</b> , 79, 60-62	3.4	27
263	Work-hardenable Mg-based bulk metallic glass matrix composites reinforced by ex-situ porous shape-memory-alloy particles. <i>Materials Letters</i> , <b>2016</b> , 183, 454-458	3.3	26
262	High power diode laser cladding of FeCoBSiNb amorphous coating: Layered microstructure and properties. <i>Surface and Coatings Technology</i> , <b>2013</b> , 235, 699-705	4.4	26
261	Joining of Zr-based bulk metallic glasses using the friction welding method. <i>Journal of Alloys and Compounds</i> , <b>2007</b> , 434-435, 102-105	5.7	26

260	Anomalously low modulus of the interpenetrating-phase composite of Fe and Mg obtained by liquid metal dealloying. <i>Scripta Materialia</i> , <b>2019</b> , 163, 133-136	5.6	25
259	Shear banding behavior and fracture mechanisms of Zr55Al10Ni5Cu30 bulk metallic glass in uniaxial compression analyzed using a digital image correlation method. <i>Intermetallics</i> , <b>2013</b> , 32, 21-29	3.5	25
258	Transition from Linear to Nonlinear Viscoelasticity during Deformation in a Zr-based Glassy Alloy. <i>Materials Transactions, JIM</i> , <b>2000</b> , 41, 1202-1207		25
257	Development of a high-damping NiTi shape-memory-alloy-based composite. <i>Materials Letters</i> , <b>2015</b> , 158, 1-4	3.3	24
256	Low-temperature acoustic properties and quasiharmonic analysis for Cu-based bulk metallic glasses. <i>Physical Review B</i> , <b>2007</b> , 76,	3.3	24
255	Determination of density and vacancy concentration in rapidly solidified FeAl ribbons. <i>Intermetallics</i> , <b>2003</b> , 11, 707-711	3.5	24
254	Heating and structural disordering effects of the nonlinear viscous flow in a Zr55Al10Ni5Cu30 bulk metallic glass. <i>Applied Physics Letters</i> , <b>2003</b> , 83, 5401-5403	3.4	23
253	Consolidation and mechanical properties of Cu46Zr42Al7Y5 metallic glass by spark plasma sintering. <i>Journal of Non-Crystalline Solids</i> , <b>2012</b> , 358, 1263-1267	3.9	22
252	In situ phase separation and flow behavior in the glass transition region. <i>Intermetallics</i> , <b>2010</b> , 18, 1235-1239	3.9	22
251	Finite element analysis of compressive deformation of bulk metallic glasses. <i>Acta Materialia</i> , <b>2004</b> , 52, 3813-3823	8.4	21
250	A Fictive Stress Model Calculation of Stress-Overshoot: A Nonlinear Viscoelastic Behavior in Metallic Glass. <i>Japanese Journal of Applied Physics</i> , <b>2000</b> , 39, 1808-1811	1.4	21
249	Effects of extrusion conditions on mechanical properties in ZrAlNiCu glassy powder compacts. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>1996</b> , 219, 39-43	5.3	21
248	Development of porous FeCo by liquid metal dealloying: Evolution of porous morphology and effect of interaction between ligaments and melt. <i>Materials and Design</i> , <b>2019</b> , 180, 107908	8.1	20
247	Submicron-porous NiTi and NiTiNb shape memory alloys with high damping capacity fabricated by a new top-down process. <i>Materials &amp; Design</i> , <b>2015</b> , 78, 74-79		20
246	Influences of hydrostatic pressure during casting and Pd content on as-cast phase in Zr-Al-Ni-Cu-Pd bulk alloys. <i>Applied Physics Letters</i> , <b>2004</b> , 85, 2205-2207	3.4	20
245	Porous Ti-based bulk metallic glass with excellent mechanical properties and good biocompatibility. <i>Intermetallics</i> , <b>2019</b> , 105, 153-162	3.5	20
244	Glass formation dependence on casting-atmosphere pressure in Zr65Al7.5Ni10Cu17.5Pd <sub>x</sub> (x=0-7.5) alloy system: A resultant effect of quasicrystalline phase transformation and cooling mechanism during mold-casting process. <i>Journal of Applied Physics</i> , <b>2008</b> , 103, 044907	2.5	19
243	A Fictive Stress Model and Nonlinear Viscoelastic Behaviors in Metallic Glasses. <i>Materials Transactions</i> , <b>2001</b> , 42, 597-605	1.3	19

242	A Fictive Stress Model Calculation of Nonlinear Viscoelastic Behaviors in a Zr-Based Glassy Alloy: Stress Growth and Relaxation. <i>Japanese Journal of Applied Physics</i> , <b>2000</b> , 39, 5184-5187	1.4	19
241	Heating rate dependence of T <sub>g</sub> and T <sub>x</sub> in Zr-based BMGs with characteristic structures. <i>Journal of Alloys and Compounds</i> , <b>2009</b> , 483, 8-13	5.7	18
240	Thermal conductivity of an alloy in relation to the observed cooling rate and glass-forming ability. <i>Philosophical Magazine</i> , <b>2007</b> , 87, 1845-1854	1.6	18
239	Deformation behavior of Zr- and Ni-based bulk glassy alloys. <i>Journal of Materials Research</i> , <b>2007</b> , 22, 1087-1092	2.5	18
238	Effects of a small amount of Si or Ge addition on stability and hydrogen-induced internal friction of Ti <sub>34</sub> Zr <sub>11</sub> Cu <sub>47</sub> Ni <sub>8</sub> glassy alloys. <i>Acta Materialia</i> , <b>2004</b> , 52, 1799-1806	8.4	18
237	Creep deformation and stress-induced structural disorder near T <sub>g</sub> in a Zr <sub>55</sub> Al <sub>10</sub> Ni <sub>5</sub> Cu <sub>30</sub> glassy alloy. <i>Applied Physics Letters</i> , <b>2001</b> , 79, 4515-4517	3.4	18
236	The influence of the formation of Fe <sub>3</sub> C on graphitization in a carbon-rich iron-amorphous carbon mixture processed by Spark Plasma Sintering and annealing. <i>Ceramics International</i> , <b>2017</b> , 43, 11902-11906	5.1	17
235	Electrochemical behavior and biocompatibility of Ti-Fe-Cu alloy with high strength and ductility. <i>Journal of Alloys and Compounds</i> , <b>2017</b> , 707, 291-297	5.7	17
234	High-Entropy Alloys with Hexagonal Close-Packed Structure in Ir <sub>26</sub> Mo <sub>20</sub> Rh <sub>22.5</sub> Ru <sub>20</sub> W <sub>11.5</sub> and Ir <sub>25.5</sub> Mo <sub>20</sub> Rh <sub>20</sub> Ru <sub>25</sub> W <sub>9.5</sub> Alloys Designed by Sandwich Strategy for the Valence Electron Concentration of Constituent Elements in the Periodic Chart. <i>Materials Transactions</i> , <b>2019</b> , 60, 1666-1673	1.3	17
233	Suppression of quasicrystallization by nonlinear viscous flow in Zr <sub>40</sub> Al <sub>10</sub> Ni <sub>10</sub> Cu <sub>40</sub> Bd glassy alloys. <i>Applied Physics Letters</i> , <b>2002</b> , 80, 4708-4710	3.4	17
232	Nanoporous Surfaces of FeAl Formed by Vacancy Clustering. <i>Materials Transactions</i> , <b>2002</b> , 43, 2897-2902	1.3	17
231	Dynamic mechanical relaxation behavior of Zr <sub>35</sub> Hf <sub>17.5</sub> Ti <sub>5.5</sub> Al <sub>12.5</sub> Co <sub>7.5</sub> Ni <sub>12</sub> Cu <sub>10</sub> high entropy bulk metallic glass. <i>Journal of Materials Science and Technology</i> , <b>2021</b> , 83, 248-255	9.1	17
230	On the Potential of Bulk Metallic Glasses for Dental Implantology: Case Study on TiZrCuPd. <i>Materials</i> , <b>2018</b> , 11,	3.5	16
229	Effect of Al Addition on Superelastic Properties of Aged Ti-Nb-Zr-Al Quaternary Alloys. <i>Materials Transactions</i> , <b>2012</b> , 53, 1981-1985	1.3	16
228	Hydrogen-induced internal friction of Zr-based bulk glassy alloys in a rod shape above 90 K. <i>Journal of Alloys and Compounds</i> , <b>2004</b> , 365, 221-227	5.7	16
227	Development of in-situ Ti reinforced Be-free TiBased bulk metallic glass matrix composites. <i>Journal of Alloys and Compounds</i> , <b>2017</b> , 714, 120-125	5.7	15
226	Partial structure investigation of the traditional bulk metallic glass Pd <sub>40</sub> Ni <sub>40</sub> P <sub>20</sub> . <i>Physical Review B</i> , <b>2019</b> , 100,	3.3	15
225	Septenary Zr <sub>40</sub> Ti <sub>10</sub> Al <sub>10</sub> Co <sub>10</sub> Ni <sub>10</sub> Cu high-entropy bulk metallic glasses with centimeter-scale glass-forming ability. <i>Materialia</i> , <b>2019</b> , 7, 100372	3.2	15

224	Correlation between the enhanced plasticity of glassy matrix composites and the intrinsic mechanical property of reinforcement. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2013</b> , 560, 40-46	5.3	15
223	Static heterogeneity in metallic glasses and its correlation to physical properties. <i>Journal of Non-Crystalline Solids</i> , <b>2011</b> , 357, 494-500	3.9	15
222	Origin of the Effect of the Gas Atmosphere during Mold-Casting Zr <sub>65</sub> Al <sub>7.5</sub> Ni <sub>10</sub> Pd <sub>17.5</sub> Bulk Glassy or Nano-Quasicrystal-Forming Alloy. <i>Materials Transactions</i> , <b>2007</b> , 48, 1266-1271	1.3	15
221	Investigation of mechanical properties and devitrification of Cu-based bulk glass formers alloyed with noble metals. <i>Science and Technology of Advanced Materials</i> , <b>2003</b> , 4, 327-331	7.1	15
220	Damping properties of hydrogen-absorbed rod metallic glasses. <i>Journal of Alloys and Compounds</i> , <b>2003</b> , 355, 37-41	5.7	15
219	Nanoporous High-Entropy Alloy by Liquid Metal Dealloying. <i>Metals</i> , <b>2020</b> , 10, 1396	2.3	14
218	Ti-Ag-Pd alloy with good mechanical properties and high potential for biological applications. <i>Scientific Reports</i> , <b>2016</b> , 6, 25142	4.9	14
217	Early science commissioning results of the sub-micron resolution X-ray spectroscopy beamline (SRX) in the field of materials science and engineering <b>2016</b> ,		14
216	Mg-based metallic glass matrix composite with in situ porous titanium dispersoids by dealloying in metallic melt. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2013</b> , 582, 76-83	5.3	14
215	Fabrication and mechanical properties of bulk metallic glass matrix composites by in-situ dealloying method. <i>Journal of Alloys and Compounds</i> , <b>2017</b> , 707, 332-336	5.7	14
214	Improved plasticity of iron-based high-strength bulk metallic glasses by copper-induced nanocrystallization. <i>Journal of Non-Crystalline Solids</i> , <b>2011</b> , 357, 3002-3005	3.9	14
213	Bulk glassy Zr-based alloys prepared by consolidation of glassy alloy powders in supercooled liquid region. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>1997</b> , 226-228, 458-462	5.3	14
212	Deformation-Induced Nanoscale Dynamic Transformation Studies in Zr-Al-Ni-Pd and Zr-Al-Ni-Cu Bulk Metallic Glasses. <i>Materials Transactions</i> , <b>2007</b> , 48, 1327-1335	1.3	14
211	Structure and mechanical properties of cast quasicrystal-reinforced Mg <sub>70</sub> Al <sub>10</sub> base alloys. <i>Journal of Materials Research</i> , <b>2004</b> , 19, 1531-1538	2.5	14
210	Formation of 28 nm size pre-precipitates of cF96 phase in a Hf <sub>50</sub> Co <sub>50</sub> Al glassy alloy. <i>Journal of Alloys and Compounds</i> , <b>2003</b> , 359, 198-201	5.7	14
209	Crystallization of Zr <sub>55</sub> Al <sub>10</sub> Ni <sub>5</sub> Cu <sub>30</sub> Bulk Metallic Glass Composites Containing ZrC Particles. <i>Materials Transactions</i> , <b>2002</b> , 43, 1-4	1.3	14
208	Solid Solutions with bcc, hcp, and fcc Structures Formed in a Composition Line in Multicomponent Ir <sub>10</sub> Rh <sub>10</sub> Bu <sub>10</sub> W <sub>10</sub> Mo System. <i>Materials Transactions</i> , <b>2019</b> , 60, 2267-2276	1.3	14
207	Effect of substituting elements on thermal stability and glass-forming ability of an Al-based Al Ni Er metallic glass. <i>Journal of Alloys and Compounds</i> , <b>2017</b> , 707, 97-101	5.7	13

206	Development of Multi-colored Neutron Talbot-Lau Interferometer with Absorption Grating Fabricated by Imprinting Method of Metallic Glass. <i>Journal of the Physical Society of Japan</i> , <b>2017</b> , 86, 044001	1.5	13
205	Effect of alloying elements on the microstructure and corrosion behavior of TiZr-based bulk metallic glasses. <i>Corrosion Science</i> , <b>2020</b> , 177, 108854	6.8	13
204	Corrosion resistance of porous ferritic stainless steel produced by liquid metal dealloying of Incoloy 800. <i>Corrosion Science</i> , <b>2020</b> , 166, 108468	6.8	13
203	Microstructure characterization by X-ray tomography and EBSD of porous FeCr produced by liquid metal dealloying. <i>Materials Characterization</i> , <b>2018</b> , 144, 166-172	3.9	13
202	A metallic glass grating for X-ray grating interferometers fabricated by imprinting. <i>Applied Physics Express</i> , <b>2014</b> , 7, 032501	2.4	13
201	Phase transformation behaviour in continuously cooled Zr <sub>65</sub> Al <sub>7.5</sub> Ni <sub>10</sub> Cu <sub>17.5</sub> Pd <sub>x</sub> (x = 0–7.5) glass-forming alloys and consequences for structure and property control. <i>Philosophical Magazine</i> , <b>2008</b> , 88, 1125-1136	1.6	13
200	Influence of thermal conductivity on the glass-forming ability of Ni-based and Cu-based alloys. <i>Applied Physics Letters</i> , <b>2006</b> , 88, 251902	3.4	13
199	Topological characterization of metallic glasses by neutron diffraction and RMC modeling. <i>Physica B: Condensed Matter</i> , <b>2006</b> , 385-386, 259-262	2.8	13
198	Comparative Study on Glassy Phase Stabilities of Zr–Co–Al and Zr–Ni–Al Metallic Glasses. <i>Materials Transactions</i> , <b>2005</b> , 46, 2785-2790	1.3	13
197	Porous NiTi Particle Dispersed Mg-Zn-Ca Bulk Metallic Glass Matrix Composites. <i>Materials</i> , <b>2018</b> , 11,	3.5	13
196	Bulk metallic glasses based on precious metals: Thermal treatments and mechanical properties. <i>Intermetallics</i> , <b>2015</b> , 63, 73-79	3.5	12
195	Volume and Enthalpy Relaxation in Pd <sub>42.5</sub> Cu <sub>30</sub> Ni <sub>7.5</sub> P <sub>20</sub> Bulk Metallic Glass. <i>Materials Transactions</i> , <b>2014</b> , 55, 466-472	1.3	12
194	Effect of cobalt microalloying on the glass forming ability of TiCuPdZr metallic glass. <i>Journal of Non-Crystalline Solids</i> , <b>2013</b> , 379, 155-160	3.9	12
193	Investigation of structure-mechanical properties relations of dual-axially forged Ti-based low-alloys. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2015</b> , 632, 88-95	5.3	12
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190	Formation of Zr <sub>66.7</sub> Al <sub>11.1</sub> Ni <sub>22.2</sub> noncrystalline alloys demonstrated by molecular dynamics simulations based on distorted plastic crystal model. <i>Intermetallics</i> , <b>2008</b> , 16, 819-826	3.5	12
189	Ordering kinetics of nanoporous FeCo during liquid metal dealloying and the development of nanofacets. <i>Scripta Materialia</i> , <b>2020</b> , 177, 38-43	5.6	12

188	Viscoelasticity of Cu- and La-based bulk metallic glasses: Interpretation based on the quasi-point defects theory. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2018</b> , 719, 164-170	5.3	11
187	Formation of Metallic Glass Coatings by Detonation Spraying of a Fe66Cr10Nb5B19 Powder. <i>Metals</i> , <b>2019</b> , 9, 846	2.3	11
186	Elastic inhomogeneity and acoustic phonons in Pd-, Pt-, and Zr-based metallic glasses. <i>Physical Review B</i> , <b>2010</b> , 81,	3.3	11
185	Mechanical Property and Corrosion Resistance Evaluations of Ti-6Al-7Nb Alloy Brazed with Bulk Metallic Glasses. <i>Materials Transactions</i> , <b>2007</b> , 48, 2235-2243	1.3	11
184	Stability and hydrogen-induced internal friction of Ti-rich multicomponent glassy alloys. <i>Journal of Alloys and Compounds</i> , <b>2004</b> , 372, 116-120	5.7	11
183	High strength and ductile bulk TiNiCuNb alloy with submicron-size structure units obtained by arc-melting. <i>Journal of Alloys and Compounds</i> , <b>2004</b> , 375, 171-174	5.7	11
182	Friction Welding of Zr55Al10Ni5Cu30 Bulk Metallic Glasses. <i>Materials Transactions</i> , <b>2005</b> , 46, 2768-2772	1.3	11
181	Formation of TiC-Cu nanocomposites by a reaction between Ti25Cu75 melt-spun alloy and carbon. <i>Materials Letters</i> , <b>2019</b> , 235, 104-106	3.3	11
180	Interaction of a TiCu Alloy with Carbon: Synthesis of Composites and Model Experiments. <i>Materials</i> , <b>2019</b> , 12,	3.5	10
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178	Effect of the cooling rate on the mechanical properties of Ti-Ni-Cu-Zr-based crystal/glassy alloys. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2017</b> , 704, 147-153	5.3	10
177	Effect of B2-ordered phase on the deformation behavior of Ti-Mo-Al alloys at elevated temperature. <i>Journal of Alloys and Compounds</i> , <b>2017</b> , 696, 130-135	5.7	10
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175	Another clue to understand the yield phenomenon at the glassy state in a Zr55Al10Ni5Cu30 metallic glass. <i>Materials Letters</i> , <b>2008</b> , 62, 1592-1594	3.3	10
174	Evidence for effect of hydrostatic pressure during casting on glass-forming ability in Zr65Al7.5Ni10Cu17.5Pd <sub>x</sub> (x=0-7.5) alloys. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2007</b> , 449-451, 903-906	5.3	10
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166	Novel hierarchical nanoporous graphene nanoplatelets with excellent rate capabilities produced via self-templating liquid metal dealloying. <i>Materials Today Communications</i> , <b>2020</b> , 24, 101120	2.5	9
165	Evaluation of residual stress and deformation behavior on Zr <sub>55</sub> Al <sub>10</sub> Ni <sub>5</sub> Cu <sub>30</sub> bulk metallic glass containing ZrC particles using neutron diffraction. <i>Scripta Materialia</i> , <b>2009</b> , 60, 725-728	5.6	9
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159	High aspect ratio grating by isochronal imprinting of less viscous workable Gd-based metallic glass for neutron phase imaging. <i>Intermetallics</i> , <b>2016</b> , 78, 55-63	3.5	9
158	Low cost high specific surface architected nanoporous metal with corrosion resistance produced by liquid metal dealloying from commercial nickel superalloy. <i>Scripta Materialia</i> , <b>2019</b> , 163, 5-8	5.6	9
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155	Viscous flow of Cu <sub>55</sub> Zr <sub>30</sub> Ti <sub>10</sub> Co <sub>5</sub> bulk metallic glass in glass-transition and semi-solid regions. <i>Scripta Materialia</i> , <b>2013</b> , 68, 219-222	5.6	8
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153	Atomic-Scale Characterization of Elastic Deformation of Zr-Based Metallic Glass under Tensile Stress. <i>Materials Transactions</i> , <b>2010</b> , 51, 1381-1385	1.3	8

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151	The atomic structure of a bulk metallic glass resolved by scanning tunneling microscopy and ab-initio molecular dynamics simulation. <i>Journal of Alloys and Compounds</i> , <b>2020</b> , 816, 152680	5.7	8
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142	Improving glass forming ability of off-eutectic metallic glass formers by manipulating primary crystallization reactions. <i>Acta Materialia</i> , <b>2020</b> , 200, 710-719	8.4	7
141	Microstructure Refinement of a Transformation-Induced Plasticity High-Entropy Alloy. <i>Materials</i> , <b>2021</b> , 14,	3.5	7
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138	A Ni-, Al-, Be-free Zr-based metallic glass for biomedical applications. <i>Journal of Non-Crystalline Solids</i> , <b>2018</b> , 500, 78-83	3.9	7
137	Three dimensional analysis of nanoporous silicon particles for Li-ion batteries. <i>Materials Characterization</i> , <b>2017</b> , 124, 165-170	3.9	6
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134	The effect of matrix fracture toughness on the plastic deformation of the metallic glassy composite. <i>Journal of Alloys and Compounds</i> , <b>2014</b> , 612, 10-15	5.7	6
133	Evaluation of compressive deformation behavior of Zr <sub>55</sub> Al <sub>10</sub> Ni <sub>5</sub> Cu <sub>30</sub> bulk metallic glass containing ZrC particles by synchrotron X-ray diffraction. <i>Scripta Materialia</i> , <b>2012</b> , 66, 801-804	5.6	6
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131	Mechanical properties, structure, and biocompatibility of dual-axially forged Ti <sub>94</sub> Fe <sub>3</sub> Au <sub>3</sub> , Ti <sub>94</sub> Fe <sub>3</sub> Nb <sub>3</sub> , and Ti <sub>94</sub> Au <sub>3</sub> Nb <sub>3</sub> alloys. <i>Journal of Alloys and Compounds</i> , <b>2017</b> , 707, 269-274	5.7	6
130	A partial structure factor investigation of the bulk metallic glass Zr <sub>63</sub> Ni <sub>25</sub> Al <sub>12</sub> as studied by using a combination of anomalous X-ray scattering and reverse Monte Carlo modeling. <i>International Journal of Materials Research</i> , <b>2012</b> , 103, 1108-1112	0.5	6
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128	Plastic deformation by glassy structure control in Zr <sub>60</sub> Ni <sub>10</sub> Cu-based BMGs. <i>Journal of Alloys and Compounds</i> , <b>2010</b> , 504, S52-S55	5.7	6
127	Phonon dispersion of metallic glass CuZr <sub>2</sub> . <i>Journal of Physics: Conference Series</i> , <b>2007</b> , 92, 012136	0.3	6
126	Softening and heating behaviors during the nonlinear viscous flow in a Zr-based bulk metallic glass. <i>Journal of Non-Crystalline Solids</i> , <b>2007</b> , 353, 3764-3768	3.9	6
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122	The mechanical cycling behavior of TiNi based crystal/glassy alloy in the superelastic mode. <i>Journal of Alloys and Compounds</i> , <b>2018</b> , 768, 176-180	5.7	5
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115	Decoupling between calorimetric and dynamical glass transitions in high-entropy metallic glasses. <i>Nature Communications</i> , <b>2021</b> , 12, 3843	17.4	5
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113	Novel Co-Cu-Based Immiscible Medium-Entropy Alloys with Promising Mechanical Properties. <i>Metals</i> , <b>2021</b> , 11, 238	2.3	5
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111	Edge-illumination x-ray phase contrast imaging with Pt-based metallic glass masks. <i>Review of Scientific Instruments</i> , <b>2017</b> , 88, 063705	1.7	4
110	Nano-imprinting potential of magnetic FeCo-based metallic glass. <i>Nanotechnology</i> , <b>2019</b> , 30, 305302	3.4	4
109	X-ray elastography by visualizing propagating shear waves. <i>Applied Physics Express</i> , <b>2020</b> , 13, 042004	2.4	4
108	Development of Open-Cell Porous Metals and Alloys with Base and Half Metal Elements. <i>Materia Japan</i> , <b>2013</b> , 52, 395-403	0.1	4
107	ZrCu-Based Metallic Glass Matrix Composites with Ta Dispersoid by In Situ Dealloying Method. <i>Materials Transactions</i> , <b>2013</b> , 54, 1416-1422	1.3	4
106	Deformation-induced structural transformation leading to compressive plasticity in Zr <sub>65</sub> Al <sub>7.5</sub> Ni <sub>10</sub> Cu <sub>12.5</sub> M <sub>5</sub> (M = Nb, Pd) glassy alloys. <i>Journal of Materials Research</i> , <b>2010</b> , 25, 1149-1158	2.5	4
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104	Hydrogen-induced internal friction of Ti-rich multicomponent glassy alloys. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2006</b> , 442, 106-108	5.3	4
103	Mechanical Properties and Fracture Characteristics of Zr-Based Bulk Metallic Glass Composites Containing Carbon Nanotube Addition. <i>Journal of Materials Research</i> , <b>2004</b> , 19, 1068-1076	2.5	4
102	Retraction: Nanoindentation Characteristics of In-Situ Formed Cu–Hf–Ti–Ag–Ta Bulk Metallic Glass Composites. <i>Materials Transactions</i> , <b>2005</b> , 46, 798-804	1.3	4
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95	2.3 GPa cryogenic strength through thermal-induced and deformation-induced body-centered cubic martensite in a novel ferrous medium entropy alloy. <i>Scripta Materialia</i> , <b>2021</b> , 204, 114157	5.6	4
94	Decreasing activation energy of fast relaxation processes in a metallic glass during aging. <i>Physical Review B</i> , <b>2019</b> , 99,	3.3	3
93	The effect of size and volume fraction of the reinforcement on mechanical property and deformation mechanism of the bulk metallic glassy composite. <i>Journal of Alloys and Compounds</i> , <b>2015</b> , 644, 25-29	5.7	3
92	Solid Argon Precipitation in a Metallic Glass: Does Free-Volume Help?. <i>Materials Research Letters</i> , <b>2014</b> , 2, 94-99	7.4	3
91	Pronounced tensile plasticity at room temperature in a Au <sub>65</sub> Cu <sub>10.5</sub> Ag <sub>7.5</sub> Si <sub>17</sub> metallic glass. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2014</b> , 600, 32-36	5.3	3
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88	Relationship between the Reinforcement Size and Mechanical Properties of Zr-Based Glassy Matrix Composites. <i>Materials Transactions</i> , <b>2012</b> , 53, 879-884	1.3	3
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74	A combination of anomalous x-ray scattering and neutron diffraction for structural characterizations of Zr <sub>63</sub> Ni <sub>25</sub> Al <sub>12</sub> metallic glass. <i>Journal of Physics: Conference Series</i> , <b>2014</b> , 502, 012023 <sup>0.3</sup>		2
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