

# William L Johnson

## List of Publications by Citations

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111  
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146  
ext. papers

13,092  
ext. citations

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6.58  
L-index

#	Paper	IF	Citations
143	Bulk Glass-Forming Metallic Alloys: Science and Technology. <i>MRS Bulletin</i> , <b>1999</b> , 24, 42-56	3.2	2037
142	Designing metallic glass matrix composites with high toughness and tensile ductility. <i>Nature</i> , <b>2008</b> , 451, 1085-9	50.4	1155
141	Ductile bulk metallic glass. <i>Physical Review Letters</i> , <b>2004</b> , 93, 255506	7.4	885
140	Bulk metallic glass formation in binary Cu-rich alloy series $\text{Cu}_{100-x}\text{Zr}_x$ ( $x=34, 36, 38.2, 40$ at.%) and mechanical properties of bulk $\text{Cu}_{64}\text{Zr}_{36}$ glass. <i>Acta Materialia</i> , <b>2004</b> , 52, 2621-2624	8.4	488
139	A damage-tolerant glass. <i>Nature Materials</i> , <b>2011</b> , 10, 123-8	27	470
138	Unusual glass-forming ability of bulk amorphous alloys based on ordinary metal copper. <i>Physical Review Letters</i> , <b>2004</b> , 92, 245504	7.4	394
137	Melting and crystallization in Ni nanoclusters: The mesoscale regime. <i>Journal of Chemical Physics</i> , <b>2001</b> , 115, 385-394	3.9	314
136	Diffusion mechanisms in metallic supercooled liquids and glasses. <i>Nature</i> , <b>1999</b> , 402, 160-162	50.4	295
135	Development of tough, low-density titanium-based bulk metallic glass matrix composites with tensile ductility. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2008</b> , 105, 20136-40	11.5	278
134	Fundamental Aspects of Bulk Metallic Glass Formation in Multicomponent Alloys. <i>Materials Science Forum</i> , <b>1996</b> , 225-227, 35-50	0.4	268
133	Strain Rate Induced Amorphization in Metallic Nanowires. <i>Physical Review Letters</i> , <b>1999</b> , 82, 2900-2903	7.4	246
132	Anelastic to plastic transition in metallic glass-forming liquids. <i>Physical Review Letters</i> , <b>2007</b> , 99, 135502	7.4	200
131	Gold based bulk metallic glass. <i>Applied Physics Letters</i> , <b>2005</b> , 87, 061912	3.4	200
130	Molecular dynamics study of the binary $\text{Cu}_{46}\text{Zr}_{54}$ metallic glass motivated by experiments: Glass formation and atomic-level structure. <i>Physical Review B</i> , <b>2005</b> , 71,	3.3	199
129	Rheology and Ultrasonic Properties of Metallic Glass-Forming Liquids: A Potential Energy Landscape Perspective. <i>MRS Bulletin</i> , <b>2007</b> , 32, 644-650	3.2	191
128	Ni-based bulk metallic glass formation in the $\text{Ni}_{100-x}\text{B}_x$ and $\text{Ni}_{100-x}\text{B}_x\text{Sn}_x$ ( $X=\text{B,Fe,Cu}$ ) alloy systems. <i>Applied Physics Letters</i> , <b>2003</b> , 82, 1030-1032	3.4	190
127	Beating crystallization in glass-forming metals by millisecond heating and processing. <i>Science</i> , <b>2011</b> , 332, 828-33	33.3	170

126	Formation and properties of new Ni-based amorphous alloys with critical casting thickness up to 5 mm. <i>Acta Materialia</i> , <b>2004</b> , 52, 3493-3497	8.4	151
125	Highly processable bulk metallic glass-forming alloys in the Pt <sub>40</sub> Ni <sub>40</sub> Cu <sub>20</sub> B system. <i>Applied Physics Letters</i> , <b>2004</b> , 84, 3666-3668	3.4	149
124	Critical cooling rate and thermal stability of Zr <sub>40</sub> Ti <sub>40</sub> Ni <sub>20</sub> Be alloys. <i>Applied Physics Letters</i> , <b>2001</b> , 78, 1213-1215	3.4	147
123	Deformation and flow in bulk metallic glasses and deeply undercooled glass forming liquids: self-consistent dynamic free volume model. <i>Intermetallics</i> , <b>2002</b> , 10, 1039-1046	3.5	142
122	Pronounced asymmetry in the crystallization behavior during constant heating and cooling of a bulk metallic glass-forming liquid. <i>Physical Review B</i> , <b>1999</b> , 60, 11855-11858	3.3	127
121	Cooperative shear model for the rheology of glass-forming metallic liquids. <i>Physical Review Letters</i> , <b>2006</b> , 97, 065502	7.4	109
120	Model for decomposition and nanocrystallization of deeply undercooled Zr <sub>41.2</sub> Ti <sub>13.8</sub> Cu <sub>12.5</sub> Ni <sub>10</sub> Be <sub>22.5</sub> . <i>Applied Physics Letters</i> , <b>2000</b> , 76, 3394-3396	3.4	109
119	Formation and characterization of amorphous erbium-based alloys prepared by near-isothermal cold-rolling of elemental composites. <i>Journal of Applied Physics</i> , <b>1985</b> , 58, 3865-3870	2.5	102
118	Timescales of crystallization and viscous flow of the bulk glass-forming Zr-Ti-Ni-Cu-Be alloys. <i>Physical Review B</i> , <b>2003</b> , 67,	3.3	99
117	Amorphous metallic foam. <i>Applied Physics Letters</i> , <b>2003</b> , 82, 370-372	3.4	99
116	Lightweight Ti-based bulk metallic glasses excluding late transition metals. <i>Scripta Materialia</i> , <b>2008</b> , 58, 465-468	5.6	90
115	Time-temperature-transformation diagram and microstructures of bulk glass forming Pd <sub>40</sub> Cu <sub>30</sub> Ni <sub>10</sub> P <sub>20</sub> . <i>Applied Physics Letters</i> , <b>2000</b> , 77, 681-683	3.4	89
114	Amorphous metals for hard-tissue prosthesis. <i>Jom</i> , <b>2010</b> , 62, 83-91	2.1	86
113	Merging of the $\alpha$ and $\beta$ relaxations and aging via the Johari-Goldstein modes in rapidly quenched metallic glasses. <i>Applied Physics Letters</i> , <b>2008</b> , 92, 131911	3.4	85
112	Isoconfigurational elastic constants and liquid fragility of a bulk metallic glass forming alloy. <i>Physical Review Letters</i> , <b>2006</b> , 97, 015501	7.4	85
111	Crystallization kinetics of the bulk-glass-forming Pd <sub>43</sub> Ni <sub>10</sub> Cu <sub>27</sub> P <sub>20</sub> melt. <i>Applied Physics Letters</i> , <b>2000</b> , 77, 1158-1160	3.4	80
110	Bulk metallic glasses: a new engineering material. <i>Current Opinion in Solid State and Materials Science</i> , <b>1996</b> , 1, 383-386	12	76
109	Solution to the problem of the poor cyclic fatigue resistance of bulk metallic glasses. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2009</b> , 106, 4986-91	11.5	74

108	Criteria for formation of metallic glasses: The role of atomic size ratio. <i>Journal of Chemical Physics</i> , <b>2003</b> , 119, 9858-9870	3.9	74
107	Slow Atomic Motion in Zr-Ti-Cu-Ni-Be Metallic Glasses Studied by NMR. <i>Physical Review Letters</i> , <b>1998</b> , 81, 5358-5361	7.4	74
106	High copper content bulk glass formation in bimetallic Cu-Hf system. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , <b>2005</b> , 36, 455-458	2.3	68
105	Synthesis method for amorphous metallic foam. <i>Journal of Applied Physics</i> , <b>2004</b> , 96, 7723-7730	2.5	65
104	Compositional landscape for glass formation in metal alloys. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2014</b> , 111, 9031-6	11.5	61
103	Spheres of the metallic glass Au <sub>55</sub> Pb <sub>22.5</sub> Sb <sub>22.5</sub> and their surface characteristics. <i>Applied Physics Letters</i> , <b>1982</b> , 40, 382-384	3.4	61
102	Microstructures and mechanical properties of tungsten wire/particle reinforced Zr <sub>57</sub> Nb <sub>5</sub> Al <sub>10</sub> Cu <sub>15.4</sub> Ni <sub>12.6</sub> metallic glass matrix composites. <i>Applied Physics Letters</i> , <b>2002</b> , 80, 1906-1908 <sup>3,4</sup>		59
101	Bulk Glass-Forming Metallic Alloys: Science and Technology [1998 Mrs Medal Award Lecture, Presented at Symposium Mm]. <i>Materials Research Society Symposia Proceedings</i> , <b>1998</b> , 554, 311		57
100	Precipitation of bcc nanocrystals in bulk Mg <sub>70</sub> Ti <sub>30</sub> amorphous alloys. <i>Journal of Materials Research</i> , <b>1996</b> , 11, 2388-2392	2.5	55
99	Crystallization of bulk amorphous Zr <sub>55</sub> (Nb) <sub>5</sub> Ti <sub>35</sub> Ni <sub>5</sub> Al. <i>Applied Physics Letters</i> , <b>2000</b> , 77, 525-527	3.4	53
98	Compositional dependence of thermal, elastic, and mechanical properties in Cu <sub>50</sub> Zr <sub>50</sub> Ag bulk metallic glasses. <i>Scripta Materialia</i> , <b>2008</b> , 58, 159-162	5.6	51
97	Thermal expansion of liquid Ti <sub>60</sub> Al <sub>40</sub> V measured by electrostatic levitation. <i>Applied Physics Letters</i> , <b>2006</b> , 89, 111913	3.4	49
96	Correlation between fracture surface morphology and toughness in Zr-based bulk metallic glasses. <i>Journal of Materials Research</i> , <b>2010</b> , 25, 982-990	2.5	48
95	Precious bulk metallic glasses for jewelry applications. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2007</b> , 449-451, 235-238	5.3	48
94	Strong configurational dependence of elastic properties for a binary model metallic glass. <i>Applied Physics Letters</i> , <b>2006</b> , 89, 151901	3.4	48
93	Glassy steel optimized for glass-forming ability and toughness. <i>Applied Physics Letters</i> , <b>2009</b> , 95, 041907 <sup>3,4</sup>		47
92	Towards an understanding of tensile deformation in Ti-based bulk metallic glass matrix composites with BCC dendrites. <i>Scientific Reports</i> , <b>2016</b> , 6, 22563	4.9	43
91	Fracture toughness study of new Zr-based Be-bearing bulk metallic glasses. <i>Scripta Materialia</i> , <b>2009</b> , 60, 80-83	5.6	42

90	Strain rate induced crystallization in bulk metallic glass-forming liquid. <i>Physical Review Letters</i> , <b>2006</b> , 96, 075503	7.4	42
89	Effect of microalloying on the toughness of metallic glasses. <i>Applied Physics Letters</i> , <b>2012</b> , 101, 241913	3.4	40
88	Stochastic metallic-glass cellular structures exhibiting benchmark strength. <i>Physical Review Letters</i> , <b>2008</b> , 101, 145702	7.4	40
87	Repeated crystallization in undercooled Zr <sub>41</sub> Ti <sub>14</sub> Cu <sub>12</sub> Ni <sub>10</sub> Be <sub>23</sub> liquids. <i>Applied Physics Letters</i> , <b>2000</b> , 76, 2343-2345	3.4	40
86	How the toughness in metallic glasses depends on topological and chemical heterogeneity. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2016</b> , 113, 7053-8	11.5	38
85	Injection molding metallic glass. <i>Scripta Materialia</i> , <b>2009</b> , 60, 160-163	5.6	38
84	Semi-solid induction forging of metallic glass matrix composites. <i>Jom</i> , <b>2009</b> , 61, 11-17	2.1	38
83	Modeling the transient flow of undercooled glass-forming liquids. <i>Journal of Applied Physics</i> , <b>2004</b> , 95, 2857-2865	2.5	38
82	History dependent crystallization of Zr <sub>41</sub> Ti <sub>14</sub> Cu <sub>12</sub> Ni <sub>10</sub> Be <sub>23</sub> melts. <i>Journal of Applied Physics</i> , <b>2000</b> , 88, 44-48	2.5	38
81	Bulk Metallic Glass Formation from Strong Liquids. <i>Materials Science Forum</i> , <b>1998</b> , 269-272, 547-552	0.4	37
80	Enhanced fatigue endurance of metallic glasses through a staircase-like fracture mechanism. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2013</b> , 110, 18419-24	11.5	36
79	Optimizing Bulk Metallic Glasses for Robust, Highly Wear-Resistant Gears. <i>Advanced Engineering Materials</i> , <b>2017</b> , 19, 1600541	3.5	36
78	Castable Bulk Metallic Glass Strain Wave Gears: Towards Decreasing the Cost of High-Performance Robotics. <i>Scientific Reports</i> , <b>2016</b> , 6, 37773	4.9	34
77	Accessing thermoplastic processing windows in metallic glasses using rapid capacitive discharge. <i>Scientific Reports</i> , <b>2014</b> , 4, 6441	4.9	32
76	Thermophysical properties of Ni <sub>40</sub> Nb and Ni <sub>40</sub> Nb <sub>5</sub> N bulk metallic glass-forming melts by containerless electrostatic levitation processing. <i>Journal of Non-Crystalline Solids</i> , <b>2004</b> , 337, 21-28	3.9	31
75	TEM study of structural evolution in a copper mold cast Cu <sub>46</sub> Zr <sub>54</sub> bulk metallic glass. <i>Scripta Materialia</i> , <b>2006</b> , 54, 1117-1122	5.6	30
74	Characterization of the Interface Between the Bulk Glass Forming Alloy Zr <sub>41</sub> Ti <sub>14</sub> Cu <sub>12</sub> Ni <sub>10</sub> Be <sub>23</sub> with Pure Metals and Ceramics. <i>Journal of Materials Research</i> , <b>2000</b> , 15, 1617-1621	2.5	30
73	Shaping metallic glasses by electromagnetic pulsing. <i>Nature Communications</i> , <b>2016</b> , 7, 10576	17.4	29

72	Cryogenic Charpy impact testing of metallic glass matrix composites. <i>Scripta Materialia</i> , <b>2012</b> , 66, 284-287	6	29
71	Investigating Amorphous Metal Composite Architectures as Spacecraft Shielding. <i>Advanced Engineering Materials</i> , <b>2013</b> , 15, 27-33	3.5	29
70	Predicted Optimum Composition for the Glass-Forming Ability of Bulk Amorphous Alloys: Application to Cu-Zr-Al. <i>Journal of Physical Chemistry Letters</i> , <b>2012</b> , 3, 3143-8	6.4	29
69	Shear flow characteristics and crystallization kinetics during steady non-isothermal flow of Vitreloy-1. <i>Acta Materialia</i> , <b>2004</b> , 52, 3403-3412	8.4	27
68	Strong Liquid Behavior of Zr-Ti-Cu-Ni-Be Bulk Metallic Glass Forming Alloys. <i>Materials Research Society Symposia Proceedings</i> , <b>1996</b> , 455, 369		27
67	Thermal and elastic properties of CuZrBe bulk metallic glass forming alloys. <i>Applied Physics Letters</i> , <b>2007</b> , 90, 211901	3.4	26
66	Origin of embrittlement in metallic glasses. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2016</b> , 113, 10257-62	11.5	25
65	Liquid-like platinum-rich glasses. <i>Scripta Materialia</i> , <b>2011</b> , 65, 799-802	5.6	25
64	Fragility of iron-based glasses. <i>Applied Physics Letters</i> , <b>2011</b> , 99, 161902	3.4	25
63	Amorphous Fe-based metal foam. <i>Scripta Materialia</i> , <b>2007</b> , 57, 9-12	5.6	25
62	Extremely low critical cooling rate measured on dispersed Pd <sub>43</sub> Ni <sub>10</sub> Cu <sub>27</sub> P <sub>20</sub> . <i>Applied Physics Letters</i> , <b>2002</b> , 80, 2069-2071	3.4	25
61	Structure and mechanical properties of bulk glass-forming Ni <sub>40</sub> Nb <sub>40</sub> alloys. <i>Scripta Materialia</i> , <b>2006</b> , 54, 187-190	5.6	23
60	Effect of cooling rate on the volume fraction of B2 phases in a CuZrAlCo metallic glass matrix composite. <i>Intermetallics</i> , <b>2013</b> , 39, 89-93	3.5	22
59	Rheology and ultrasonic properties of Pt <sub>57.5</sub> Ni <sub>5.3</sub> Cu <sub>14.7</sub> P <sub>22.5</sub> liquid. <i>Applied Physics Letters</i> , <b>2007</b> , 90, 171923	3.4	21
58	Hypervelocity Impact Phenomenon in Bulk Metallic Glasses and Composites**. <i>Advanced Engineering Materials</i> , <b>2014</b> , 16, 85-93	3.5	20
57	Crystallization kinetics and glass-forming ability of bulk metallic glasses Pd <sub>40</sub> Cu <sub>30</sub> Ni <sub>10</sub> P <sub>20</sub> and Zr <sub>41.2</sub> Ti <sub>13.8</sub> Cu <sub>12.5</sub> Ni <sub>10</sub> Be <sub>22.5</sub> from classical theory. <i>Physical Review B</i> , <b>2006</b> , 74,	3.3	20
56	High porosity metallic glass foam: A powder metallurgy route. <i>Applied Physics Letters</i> , <b>2007</b> , 91, 161903	3.4	20
55	Crystallization of MgAl and Al-based metallic liquids under ultra-high gravity. <i>Intermetallics</i> , <b>2002</b> , 10, 1167-1175	3.5	20

54	Deformation of glass forming metallic liquids: Configurational changes and their relation to elastic softening. <i>Applied Physics Letters</i> , <b>2007</b> , 90, 131912	3.4	19
53	Coarse-grained description of localized inelastic deformation in amorphous metals. <i>Applied Physics Letters</i> , <b>2009</b> , 94, 191905	3.4	18
52	Crystallization pathways of deeply undercooled Zr-Ti-Cu-Ni-Be melts. <i>Scripta Materialia</i> , <b>2001</b> , 44, 1251-1255	3.4	18
51	Crystallization of Zr <sub>41</sub> Ti <sub>14</sub> Cu <sub>12</sub> Ni <sub>10</sub> Be <sub>23</sub> . <i>Materials Transactions, JIM</i> , <b>2000</b> , 41, 1530-1537		18
50	Synthesis of single-component metallic glasses by thermal spray of nanodroplets on amorphous substrates. <i>Applied Physics Letters</i> , <b>2012</b> , 100, 041909	3.4	17
49	Rheometry and Crystallization of Bulk Metallic Glass Forming Alloys at High Temperatures. <i>Materials Science Forum</i> , <b>1998</b> , 269-272, 779-784	0.4	17
48	In situ composite formation in the Ni(Cu)TiZrBi system. <i>Scripta Materialia</i> , <b>2005</b> , 53, 1467-1470	5.6	16
47	First-Order Phase Transition in Liquid Ag to the Heterogeneous G-Phase. <i>Journal of Physical Chemistry Letters</i> , <b>2020</b> , 11, 632-645	6.4	15
46	Metallic-glass-matrix composite structures with benchmark mechanical performance. <i>Applied Physics Letters</i> , <b>2010</b> , 97, 241910	3.4	14
45	Near-threshold fatigue crack growth in bulk metallic glass composites. <i>Journal of Materials Research</i> , <b>2009</b> , 24, 3611-3619	2.5	14
44	Effect of processing on Charpy impact toughness of metallic glass matrix composites. <i>Journal of Materials Research</i> , <b>2011</b> , 26, 1260-1268	2.5	13
43	Expansion evolution during foaming of amorphous metals. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2007</b> , 449-451, 863-867	5.3	13
42	Thermo-plastic expansion of amorphous metallic foam. <i>Journal of Alloys and Compounds</i> , <b>2007</b> , 434-435, 92-96	5.7	13
41	Dynamic Failure Mechanisms in Beryllium-Bearing Bulk Metallic Glasses. <i>Materials Research Society Symposia Proceedings</i> , <b>1998</b> , 554, 419		13
40	Description of millisecond Ohmic heating and forming of metallic glasses. <i>Acta Materialia</i> , <b>2013</b> , 61, 3068-3067	3.4	12
39	A two-dimensional phase separation on the spherical surface of the metallic glass Au <sub>55</sub> Pb <sub>22.5</sub> Sb <sub>22.5</sub> . <i>Applied Physics Letters</i> , <b>1982</b> , 41, 1054-1056	3.4	11
38	Calculating glass-forming ability in absence of key kinetic and thermodynamic parameters. <i>Applied Physics Letters</i> , <b>2010</b> , 97, 024102	3.4	10
37	Novel thermoplastic bonding using a bulk metallic glass solder. <i>Scripta Materialia</i> , <b>2008</b> , 59, 905-908	5.6	10



36	Enhanced temperature uniformity by tetrahedral laser heating. <i>Review of Scientific Instruments</i> , <b>2004</b> , 75, 4523-4527	1.7	10
35	Structural influence on atomic hopping and electronic states of Pd-based bulk metallic glasses. <i>Applied Physics Letters</i> , <b>2005</b> , 86, 072104	3.4	10
34	Designing color in metallic glass. <i>Scientific Reports</i> , <b>2019</b> , 9, 3269	4.9	9
33	Compression-compression fatigue of Pd <sub>43</sub> Ni <sub>10</sub> Cu <sub>27</sub> P <sub>20</sub> metallic glass foam. <i>Journal of Applied Physics</i> , <b>2010</b> , 108, 023505	2.5	9
32	Improving Ductility in Nanostructured Materials and Metallic Glasses: Three Laws. <i>Materials Science Forum</i> , <b>2009</b> , 633-634, 657-663	0.4	8
31	Heterogeneous influences on the crystallization of Pd <sub>43</sub> Ni <sub>10</sub> Cu <sub>27</sub> P <sub>20</sub> . <i>Philosophical Magazine A: Physics of Condensed Matter, Structure, Defects and Mechanical Properties</i> , <b>2002</b> , 82, 1207-1217		8
30	Superconductivity in metastable simple cubic alloys. <i>Journal of Applied Physics</i> , <b>1974</b> , 45, 3683-3684	2.5	8
29	Heterogeneous influences on the crystallization of Pd <sub>43</sub> Ni <sub>10</sub> Cu <sub>27</sub> P <sub>20</sub> . <i>Philosophical Magazine A: Physics of Condensed Matter, Structure, Defects and Mechanical Properties</i> , <b>2002</b> , 82, 1207-1217		8
28	Observation of an apparent first-order glass transition in ultrafragile Pt-Cu-P bulk metallic glasses. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2020</b> , 117, 2779-2787	11.5	7
27	Structure and properties of Ni <sub>60</sub> (Nb <sub>100-x</sub> Tax) <sub>34</sub> Sn <sub>6</sub> bulk metallic glass alloys. <i>Journal of Non-Crystalline Solids</i> , <b>2006</b> , 352, 747-755	3.9	7
26	Effect of strain rate on the yielding mechanism of amorphous metal foam. <i>Applied Physics Letters</i> , <b>2010</b> , 96, 021906	3.4	6
25	Crystallization of Supercooled Zr <sub>41</sub> Ti <sub>14</sub> Cu <sub>12</sub> Ni <sub>10</sub> B <sub>23</sub> Melts During Continuous Heating and Cooling. <i>Materials Research Society Symposia Proceedings</i> , <b>1998</b> , 554, 263		6
24	Deformation and crystallization of Zr-based amorphous alloys in homogeneous flow regime. <i>Journal of Materials Research</i> , <b>2010</b> , 25, 1137-1148	2.5	5
23	Steady non-Newtonian flow of Vitreloy-1 in continuous extrusion. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2004</b> , 375-377, 270-275	5.3	5
22	Minimizing convection effects to measure diffusion in liquid droplets during high-temperature electrostatic levitation. <i>Review of Scientific Instruments</i> , <b>2005</b> , 76, 033909	1.7	5
21	Interfacial instability-driven amorphization/anocrystallization in a bulk Ni <sub>45</sub> Cu <sub>5</sub> Ti <sub>33</sub> Zr <sub>16</sub> Si <sub>1</sub> alloy during solidification. <i>Physical Review B</i> , <b>2005</b> , 72,	3.3	4
20	Critical Cooling Rate and Thermal Stability in Zr-Ti-Cu-Ni-Be Bulk Metallic Glasses. <i>Materials Research Society Symposia Proceedings</i> , <b>2000</b> , 644, 461		4
19	Structures and properties of bulk glass forming NiNbSn alloys and NiNbTaSn alloys. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2007</b> , 449-451, 134-138	5.3	3



18	Viscosity, Relaxation and Crystallization Kinetics In Zr-Ti-Cu-Ni-Be Strong Bulk Metallic Glass Forming Liquids. <i>Materials Research Society Symposia Proceedings, 1998</i> , 554, 223	3
17	Probing Slow Atomic Motions in Metallic Glasses using NMR. <i>Materials Research Society Symposia Proceedings, 1998</i> , 554, 87	3
16	Molecular Dynamics Simulations of Supercooled Liquid Metals and Glasses. <i>Materials Research Society Symposia Proceedings, 2000</i> , 644, 231	2
15	Solid State Reactions in the ZR-AL-CU-NI Bulk Metallic Glass Forming Alloy System. <i>Materials Research Society Symposia Proceedings, 1995</i> , 382, 63	2
14	Investigation of Metallic and Metallic Glass Hollow Spheres for Fusion Target Application. <i>Materials Research Society Symposia Proceedings, 1981</i> , 9, 105	2
13	Study of Mushy-Zone Development in Dendritic Microstructures with Glass-Forming Eutectic Matrices Using Electrostatic Levitation. <i>ISRN Materials Science, 2013</i> , 2013, 1-7	1
12	Transient Deformation and Flow in Bulk Metallic Glasses and Deeply Undercooled Glass Forming Liquids [A Self-Consistent Dynamic Free Volume Model. <i>Materials Research Society Symposia Proceedings, 2002</i> , 754, 1	1
11	Deformation Behavior of FCC Crystalline Metallic Nanowires Under High Strain Rates. <i>Materials Research Society Symposia Proceedings, 1998</i> , 554, 367	1
10	A Study of Amorphous Erbium-Based Alloys Formed by Near-Isothermal Cold-Rolling of Elemental Composites. <i>Materials Research Society Symposia Proceedings, 1985</i> , 58, 27	1
9	The L-G phase transition in binary Cu-Zr metallic liquids.. <i>Physical Chemistry Chemical Physics, 2021</i> , 24, 497-506	3.6 0
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