Yi Li

List of Publications by Year
in descending order

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280 papers	12,260 citations	26630 56 h-index	32842 100 g-index
282 all docs	282 docs citations	282 times ranked	5934 citing authors

#	Article	IF	Citations
1	Bulk metallic glass formation in the binary Cuâ€"Zr system. Applied Physics Letters, 2004, 84, 4029-4031.	3.3	466
2	Matching Glass-Forming Ability with the Density of the Amorphous Phase. Science, 2008, 322, 1816-1819.	12.6	321
3	Hierarchical crack buffering triples ductility in eutectic herringbone high-entropy alloys. Science, 2021, 373, 912-918.	12.6	304
4	An XPS investigation of the oxidation/corrosion of melt-spun Mg. Applied Surface Science, 2000, 158, 112-119.	6.1	268
5	The correlation between reduced glass transition temperature and glass forming ability of bulk metallic glasses. Scripta Materialia, 2000, 42, 667-673.	5.2	260
6	Enhanced plastic strain in Zr-based bulk amorphous alloys. Physical Review B, 2001, 64, .	3.2	255
7	Shear band spacing under bending of Zr-based metallic glass plates. Acta Materialia, 2004, 52, 2429-2434.	7.9	236
8	Homogeneous Nucleation Catastrophe as a Kinetic Stability Limit for Superheated Crystal. Physical Review Letters, 1998, 80, 4474-4477.	7.8	229
9	Multiple maxima of GFA in three adjacent eutectics in Zrâ€"Cuâ€"Al alloy system â€" A metallographic way to pinpoint the best glass forming alloys. Acta Materialia, 2005, 53, 2969-2979.	7.9	225
10	Effect of a controlled volume fraction of dendritic phases on tensile and compressive ductility in La-based metallic glass matrix composites. Acta Materialia, 2004, 52, 4121-4131.	7.9	222
11	Discovering inch-diameter metallic glasses in three-dimensional composition space. Applied Physics Letters, 2005, 87, 181915.	3.3	203
12	Strain-hardening and suppression of shear-banding in rejuvenated bulk metallic glass. Nature, 2020, 578, 559-562.	27.8	203
13	Softening and dilatation in a single shear band. Acta Materialia, 2011, 59, 5146-5158.	7.9	195
14	Reduced glass transition temperature and glass forming ability of bulk glass forming alloys. Journal of Non-Crystalline Solids, 2000, 270, 103-114.	3.1	190
15	Extreme rejuvenation and softening in a bulk metallic glass. Nature Communications, 2018, 9, 560.	12.8	186
16	An instability index of shear band for plasticity in metallic glasses. Acta Materialia, 2009, 57, 1367-1372.	7.9	182
17	Strength, plasticity and brittleness of bulk metallic glasses under compression: statistical and geometric effects. Philosophical Magazine, 2008, 88, 71-89.	1.6	180
18	Atomic Scale Fluctuations Govern Brittle Fracture and Cavitation Behavior in Metallic Glasses. Physical Review Letters, 2011, 107, 215501.	7.8	177

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19	Deformation and Failure of Zr₅₇Ti₅Cu₂₀Ni₈Al₁₀ Bulk Metallic Glass Under Quasi-static and Dynamic Compression. Journal of Materials Research, 2002, 17, 1441-1445.	2.6	172
20	Optimum glass formation at off-eutectic composition and its relation to skewed eutectic coupled zone in the La based Laâ€“Alâ€“(Cu,Ni) pseudo ternary system. Acta Materialia, 2003, 51, 4551-4561.	7.9	169
21	Mechanical properties and optimal grain size distribution profile of gradient grained nickel. Acta Materialia, 2018, 153, 279-289.	7.9	161
22	Fe-based bulk metallic glass matrix composite with large plasticity. Scripta Materialia, 2010, 62, 329-332.	5.2	160
23	Understanding Long-Term Cycling Performance of Li_{1.2}Ni_{0.15}Mn_{0.55}Co_{0.1}O₂â€“Graphite Lithium-Ion Cells. Journal of the Electrochemical Society, 2013, 160, A3006-A3019.	2.9	159
24	Embrittlement of a bulk metallic glass due to low-temperature annealing. Scripta Materialia, 2002, 47, 107-111.	5.2	158
25	Effect of crystallinity on the impact toughness of a La-based bulk metallic glass. Acta Materialia, 2000, 48, 2603-2615.	7.9	156
26	Cold versus hot shear banding in bulk metallic glass. Physical Review B, 2009, 80, .	3.2	145
27	Densification and Strain Hardening of a Metallic Glass under Tension at Room Temperature. Physical Review Letters, 2013, 111, 135504.	7.8	131
28	Preparation and magnetic properties of (Znâ€“Sn) substituted barium hexaferrite nanoparticles for magnetic recording. Journal of Magnetism and Magnetic Materials, 1998, 187, 129-135.	2.3	123
29	Strain rate-dependent deformation in bulk metallic glasses. Intermetallics, 2002, 10, 1177-1182.	3.9	121
30	A new centimeterâ€“diameter Cu-based bulk metallic glass. Scripta Materialia, 2006, 54, 1403-1408.	5.2	115
31	Shear band melting and serrated flow in metallic glasses. Applied Physics Letters, 2008, 93, .	3.3	109
32	Laser welding of Zr45Cu48Al7 bulk glassy alloy. Journal of Alloys and Compounds, 2006, 413, 118-121.	5.5	108
33	Three-Dimensional High-Entropy Alloyâ€“Polymer Composite Nanolattices That Overcome the Strengthâ€“Recoverability Trade-off. Nano Letters, 2018, 18, 4247-4256.	9.1	108
34	Formation of Bulk Metallic Glasses and Their Composites. MRS Bulletin, 2007, 32, 624-628.	3.5	100
35	Glass forming ability of bulk glass forming alloys. Scripta Materialia, 1997, 36, 783-787.	5.2	99
36	Ductile Feâ€“Nbâ€“B bulk metallic glass with ultrahigh strength. Applied Physics Letters, 2008, 92, .	3.3	99

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37	Microstructure and soft magnetic properties of nanocrystalline Feâ€“Si powders. Journal of Alloys and Compounds, 2001, 314, 262-267.	5.5	98
38	Functionally Graded Tiâ€6Alâ€4V Meshes with High Strength and Energy Absorption. Advanced Engineering Materials, 2016, 18, 34-38.	3.5	98
39	Passivity behavior of melt-spun Mgâ€“Y Alloys. Electrochimica Acta, 2003, 48, 4197-4204.	5.2	93
40	A new Cuâ€“Hfâ€“Al ternary bulk metallic glass with high glass forming ability and ductility. Scripta Materialia, 2006, 54, 2165-2168.	5.2	92
41	On the exceptional damage-tolerance of gradient metallic materials. Materials Today, 2020, 32, 94-107.	14.2	89
42	Strategy for pinpointing the best glass-forming alloys. Applied Physics Letters, 2005, 86, 191906.	3.3	88
43	Doubling the Critical Size for Bulk Metallic Glass Formation in the Mgâ€“Cuâ€“Y Ternary System. Journal of Materials Research, 2005, 20, 2252-2255.	2.6	84
44	Statistical composition-structure-property correlation and glass-forming ability based on the full icosahedra in Cuâ€“Zr metallic glasses. Applied Physics Letters, 2010, 96, .	3.3	83
45	Microstructure and mechanical properties of a partially crystallized La-based bulk metallic glass. Philosophical Magazine, 2003, 83, 1747-1760.	1.6	81
46	Monte Carlo simulation of a cluster system with strong interaction and random anisotropy. Physical Review B, 2001, 64, .	3.2	76
47	Glass forming ability and in-situ composite formation in Pd-based bulk metallic glasses. Acta Materialia, 2003, 51, 561-572.	7.9	76
48	Glass-forming tendency of bulk Laâ€“Alâ€“Niâ€“Cuâ€“(Co) metallic glass-forming liquids. Journal of Applied Physics, 2003, 93, 286-290.	2.5	76
49	Feâ€“Ndâ€“B-based hard magnets from bulk amorphous precursor. Scripta Materialia, 2007, 56, 943-946.	5.2	75
50	Ductile fracture in notched bulk metallic glasses. Acta Materialia, 2017, 136, 126-133.	7.9	72
51	Glass formation in La-based Laâ€“Alâ€“Niâ€“Cuâ€“(Co) alloys by Bridgman solidification and their glass forming ability. Acta Materialia, 1999, 47, 2215-2224.	7.9	71
52	On the impact toughness of gradient-structured metals. Acta Materialia, 2020, 193, 125-137.	7.9	70
53	Origin of anomalous inverse notch effect in bulk metallic glasses. Journal of the Mechanics and Physics of Solids, 2015, 84, 85-94.	4.8	67
54	Characterization of mechanical properties of a Zr-based metallic glass by indentation techniques. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2004, 384, 215-223.	5.6	63

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55	Microstructure control and ductility improvement of Laâ€“Alâ€“(Cu,Ni) composites by Bridgman solidification. Acta Materialia, 2005, 53, 2607-2616.	7.9	59
56	Combining Ab Initio Computation with Experiments for Designing New Electrode Materials for Advanced Lithium Batteries: LiNi[sub 1/3]Fe[sub 1/6]Co[sub 1/6]Mn[sub 1/3]O[sub 2]. Journal of the Electrochemical Society, 2004, 151, A1134.	2.9	58
57	Ultrastrong nanotwinned pure nickel with extremely fine twin thickness. Science Advances, 2021, 7, .	10.3	58
58	Stress gradient enhanced plasticity in a monolithic bulk metallic glass. Intermetallics, 2008, 16, 1190-1198.	3.9	57
59	Determination of critical thickness for glass formation in new easy glass forming magnesium-base alloys by the wedge chill casting technique. Scripta Metallurgica Et Materialia, 1992, 26, 1371-1375.	1.0	55
60	Atomic structure of Zrâ€“Cu glassy alloys and detection of deviations from ideal solution behavior with Al addition by x-ray diffraction using synchrotron light in transmission. Applied Physics Letters, 2009, 94, 191912.	3.3	55
61	Synthesis of La-based in-situ bulk metallic glass matrix composite. Intermetallics, 2002, 10, 1203-1205.	3.9	54
62	Unidirectional solidification of Zn-rich Znâ€“Cu peritectic alloysâ€"I. Microstructure selection. Acta Materialia, 2000, 48, 419-431.	7.9	53
63	Temperature, strain rate and reinforcement volume fraction dependence of plastic deformation in metallic glass matrix composites. Acta Materialia, 2007, 55, 3059-3071.	7.9	52
64	A three-parameter Weibull statistical analysis of the strength variation of bulk metallic glasses. Scripta Materialia, 2009, 61, 923-926.	5.2	51
65	The coercivity of rapidly quenched alloys. Journal Physics D: Applied Physics, 1999, 32, 713-716.	2.8	50
66	A structural, magnetic and microwave study on mechanically milled Fe-based alloy powders. Journal of Magnetism and Magnetic Materials, 2002, 247, 249-256.	2.3	50
67	Bulk metallic glasses: Eutectic coupled zone and amorphous formation. Jom, 2005, 57, 60-63.	1.9	50
68	Mechanical properties of metallic glass matrix composites: Effects of reinforcement character and connectivity. Scripta Materialia, 2007, 56, 617-620.	5.2	49
69	Cooling-rate dependence of the density ofPd40Ni10Cu30P20bulk metallic glass. Physical Review B, 2001, 64, .	3.2	47
70	Glass formation enhanced by oxygen in binary Zrâ€“Cu system. Scripta Materialia, 2010, 62, 682-685.	5.2	47
71	Separation of glass transition and crystallization in metallic glasses by temperature-modulated differential scanning calorimetry. Philosophical Magazine Letters, 1998, 78, 213-220.	1.2	46
72	Corrosion behavior of melt-spun Mg65Ni20Nd15 and Mg65Cu25Y10 metallic glasses. Electrochimica Acta, 2003, 48, 2641-2650.	5.2	45

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73	Innovative approach to the design of low-cost Zr-based BMG composites with good glass formation. Scientific Reports, 2013, 3, 2097.	3.3	45
74	The effect of Y on glass forming ability. Scripta Materialia, 2005, 53, 183-187.	5.2	44
75	Size-dependent â€œmalleable-to-brittleâ€•transition in a bulk metallic glass. Applied Physics Letters, 2008, 93, .	3.3	44
76	Structure and magnetic characterization of amorphous and crystalline Ndâ€“Feâ€“Al alloys. Journal of Alloys and Compounds, 1999, 290, 209-215.	5.5	43
77	Correlation between the corrosion behavior and corrosion films formed on the surfaces of Mg82â^'xNi18Ndx (x=0, 5, 15) amorphous alloys. Applied Surface Science, 2001, 173, 54-61.	6.1	43
78	Magnetic properties and magnetic entropy change of amorphous and crystalline GdNiAl ribbons. Applied Physics A: Materials Science and Processing, 2002, 75, 535-539.	2.3	42
79	On secondary dendrite arm coarsening in peritectic solidification. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2005, 390, 52-62.	5.6	42
80	Glass forming abilities of binary Cu100â^'xZrx (34, 35.5, and 38.2â€‚at.â€‰%) metallic glasses: A LAMMPS study. Journal of Applied Physics, 2009, 105, .	2.5	42
81	Critical cooling rates for glass formation in Zrî—¸Alî—¸Cuî—¸Ni alloys. Journal of Non-Crystalline Solids, 1996, 208, 127-138.	3.1	39
82	High tensile strength reliability in a bulk metallic glass. Applied Physics Letters, 2008, 92, 041905.	3.3	38
83	The basic polyhedral clusters, the optimum glass formers, and the composition-structure-property (glass-forming ability) correlation in Cuâ€“Zr metallic glasses. Journal of Applied Physics, 2010, 107, .	2.5	38
84	Crystallization kinetics of an Au-based metallic glass upon ultrafast heating and cooling. Scripta Materialia, 2017, 132, 58-62.	5.2	38
85	Unidirectional solidification of Zn-rich Znâ€“Cu peritectic alloysâ€"II. Microstructural length scales. Acta Materialia, 2000, 48, 1741-1751.	7.9	36
86	High-performance bulk Ti-Cu-Ni-Sn-Ta nanocomposites based on a dendrite-eutectic microstructure. Journal of Materials Research, 2004, 19, 2557-2566.	2.6	36
87	Influence of TM and RE elements on glass formation of the ternary Alâ€“TMâ€“RE systems. Journal of Non-Crystalline Solids, 2008, 354, 3473-3479.	3.1	35
88	A precipitate-free AlCoFeNi eutectic high-entropy alloy with strong strain hardening. Journal of Materials Science and Technology, 2021, 89, 88-96.	10.7	35
89	Effect of alloying oxygen on the microstructure and mechanical properties of Zr-based bulk metallic glass. Acta Materialia, 2021, 220, 117345.	7.9	33
90	Effects of high boron content on crystallization, forming ability and magnetic properties of amorphous Fe91â^'xZr5BxNb4 alloy. Journal of Non-Crystalline Solids, 2003, 332, 43-52.	3.1	32

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91	Quaternary Fe-based bulk metallic glasses with a diameter of 5mm. Intermetallics, 2007, 15, 1447-1452.	3.9	32
92	Glass formability and structural stability of Al-based alloy systems. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2007, 449-451, 273-276.	5.6	32
93	Gradient Confinement Induced Uniform Tensile Ductility in Metallic Glass. Scientific Reports, 2013, 3, 3319.	3.3	32
94	Glass formation and microstructure evolution in Alâ€“Niâ€“RE (REâ€‰=â€‰La, Ce, Pr, Nd and misch metal) ternary systems. Philosophical Magazine, 2007, 87, 4211-4228.	1.6	31
95	Electrochemical Properties of Nanostructured Al[sub 1â^'x]Cu[sub x] Alloys as Anode Materials for Rechargeable Lithium-Ionâ€‰Batteries. Journal of the Electrochemical Society, 2008, 155, A615.	2.9	31
96	Low temperature characterization of nano-sized BaFe12â^'2xZnxSnxO19 particles. Journal of Magnetism and Magnetic Materials, 1999, 191, 277-281.	2.3	30
97	Study of frequency dependence modulus of bulk amorphous alloys around the glass transition by dynamic mechanical analysis. Intermetallics, 2002, 10, 1061-1064.	3.9	30
98	Breakdown of the Hall-Petch relationship in extremely fine nanograined body-centered cubic Mo alloys. Acta Materialia, 2021, 213, 116950.	7.9	30
99	Easy glass formation in Mg64Ni21Nd15 by Bridgman solidification. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 1994, 179-180, 628-631.	5.6	29
100	Effect of weak convection on lamellar spacing of eutectics. Acta Materialia, 1998, 46, 3203-3210.	7.9	29
101	Effect of boron addition to the hard magnetic bulk Nd60Fe30Al10 amorphous alloy. Journal of Magnetism and Magnetic Materials, 2000, 217, 65-73.	2.3	29
102	Bulk Glass Formation of 12 mm Rod in Laâ€“Cuâ€“Niâ€“Al Alloys. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2004, 375-377, 436-439.	5.6	29
103	The influence of Nb and Zr on glass-formation ability in the ternary Feâ€“Nbâ€“B and Feâ€“Zrâ€“B and quaternary Feâ€“(Nb,Zr)â€“B alloy systems. Journal of Materials Research, 2008, 23, 392-401.	2.6	29
104	Molecular dynamics studies of short to medium range order in Cu64Zr36 metallic glass. Journal of Alloys and Compounds, 2011, 509, 8319-8322.	5.5	29
105	Easy glass formation in magnesium-based Mg-Ni-Nd alloys. Journal of Materials Science, 1996, 31, 1857-1863.	3.7	28
106	A study of the glass forming ability in ZrNiAl alloys. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2006, 441, 106-111.	5.6	28
107	Thermoelasticity of Fe₇C₃ under inner core conditions. Journal of Geophysical Research: Solid Earth, 2016, 121, 5828-5837.	3.4	28
108	Thermodynamics of La based Laâ€“Alâ€“Cuâ€“Niâ€“Co alloys studied by temperature modulated DSC. Intermetallics, 2000, 8, 477-480.	3.9	27

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109	A magnetic and MÃ¶ssbauer study of melt-spun Nd60Fe30Al10. Journal of Magnetism and Magnetic Materials, 2001, 224, 143-152.	2.3	27
110	Improving glass-forming ability of Mgâˆ'Cuâˆ'Y via substitutional alloying: Effects of Ag versus Ni. Journal of Materials Research, 2006, 21, 2204-2214.	2.6	27
111	A new composition zone of bulk metallic glass formation in the Cuâ€"Zrâ€"Ti ternary system and its correlation with the eutectic reaction. Journal of Non-Crystalline Solids, 2008, 354, 3659-3665.	3.1	27
112	Co-existence of homogeneous flow and localized plastic deformation in tension of amorphous Niâ€"P films on ductile substrate. Acta Materialia, 2016, 106, 182-192.	7.9	27
113	Phase stability of B2-ordered ZrTiHfCuNiFe high entropy alloy. Intermetallics, 2019, 111, 106515.	3.9	27
114	The effects of W content on solid-solution strengthening and the critical Hall-Petch grain size in Ni-W alloy. Surface and Coatings Technology, 2019, 357, 23-27.	4.8	27
115	Magnetic relaxation in Znâ€"Sn-doped barium ferrite nanoparticles for recording. Journal of Magnetism and Magnetic Materials, 2000, 213, 413-417.	2.3	26
116	Glass Forming Ability of La-rich La-Al-Cu Ternary Alloys. Materials Transactions, 2001, 42, 551-555.	1.2	26
117	Invariant critical stress for shear banding in a bulk metallic glass. Applied Physics Letters, 2008, 93, 231912.	3.3	26
118	Characterizations of Alâ€"Y thin film composite anode materials for lithium-ion batteries. Electrochemistry Communications, 2009, 11, 1179-1182.	4.7	26
119	The multi-axial deformation behavior of bulk metallic glasses at high homologous temperatures. International Journal of Solids and Structures, 2010, 47, 678-690.	2.7	26
120	Homogeneous flow of bulk metallic glass composites with a high volume fraction of reinforcement. Journal of Materials Research, 2007, 22, 1564-1573.	2.6	25
121	Bulk metallic glass formation near intermetallic composition through liquid quenching. Applied Physics Letters, 2009, 95, 011906.	3.3	25
122	Glass formation adjacent to the intermetallic compounds in Cu-Zr binary system. Journal of Materials Science and Technology, 2018, 34, 605-612.	10.7	25
123	Structure, properties and response to heat treatment of melt-spun Al-Y and Al-La alloys. Journal of Materials Science, 1994, 29, 3913-3918.	3.7	24
124	Unusual magnetization anisotropy in amorphous Ndâ€"Feâ€"Al ribbons. Journal of Magnetism and Magnetic Materials, 1998, 187, L273-L277.	2.3	23
125	Effect of local pressure on the crystallization product of amorphous alloys induced by mechanical milling. Journal of Non-Crystalline Solids, 2000, 277, 91-97.	3.1	23
126	Effect of rare earth and silicon additions on structure and properties of melt spun Mgâ€"9Alâ€"1Zn alloy. Materials Science and Technology, 1996, 12, 651-661.	1.6	22

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127	Glass transition and crystallization of Mgâ€“Niâ€“Nd metallic glasses studied by temperature-modulated DSC. Intermetallics, 2004, 12, 869-874.	3.9	22
128	Compositional dependence of Youngâ€™s moduli for amorphous Cuâ€“Zr films measured using combinatorial deposition on microscale cantilever arrays. Scripta Materialia, 2011, 64, 41-44.	5.2	22
129	Oxygen impurity improving corrosion resistance of a Zr-based bulk metallic glass in 3.5Âwt% NaCl solution. Corrosion Science, 2021, 192, 109867.	6.6	22
130	New amorphous alloys with high strength and good bend ductility in the Mgî—¸Niî—¸Nd system. Journal of Materials Processing Technology, 1995, 48, 489-493.	6.3	21
131	Study on the Behavior of Additives in Steel Hot-Dip Galvanizing by DFT Calculations. Chemistry of Materials, 2000, 12, 1879-1883.	6.7	21
132	Rapid solidification behavior of Zn-rich Znâ€“Ag peritectic alloys. Acta Materialia, 2002, 50, 183-193.	7.9	21
133	Glass-forming ability of Prâ€“(Cu,Ni)â€“Al alloys in eutectic system. Journal of Materials Research, 2003, 18, 664-671.	2.6	21
134	Crystallization-induced stress in thin phase change films of different thicknesses. Applied Physics Letters, 2008, 93, 221907.	3.3	21
135	A Relationship between Glass-Forming Ability and Reduced Glass Transition Temperature near Eutectic Composition. Materials Transactions, 2001, 42, 556-561.	1.2	20
136	Mechanism of mechanical crystallization of amorphous Feâ€“Moâ€“Siâ€“B alloy. Journal of Applied Physics, 2001, 90, 1650-1654.	2.5	20
137	Frequency-dependent complex modulus at the glass transition inPd40Ni10Cu30P20bulk amorphous alloys. Physical Review B, 2003, 67, .	3.2	20
138	Cooperative shear and catastrophic fracture of bulk metallic glasses from a shear-band instability perspective. Journal of Materials Research, 2009, 24, 3620-3627.	2.6	20
139	The Effect of Heat Treatment on the Corrosion Behavior of Amorphous Mgâ€“Niâ€“Nd Alloys. Journal of Materials Research, 1999, 14, 1638-1644.	2.6	19
140	Anomalous magnetic viscosity in bulk-amorphous materials. Journal of Magnetism and Magnetic Materials, 1999, 206, 127-134.	2.3	19
141	Effect of Yttrium addition on magnetocaloric properties of Gd-Co-Al-Ho high entropy metallic glasses. Journal of Non-Crystalline Solids, 2020, 549, 120354.	3.1	19
142	Observation of lamellar eutectic-like structure in a Zn-rich Zn-3.37wt%Cu peritectic alloy processed by bridgman solidification. Scripta Materialia, 1998, 39, 7-11.	5.2	18
143	The effect of thermal annealing on reactive radio-frequency magnetron-sputtered carbon nitride films. Journal Physics D: Applied Physics, 1999, 32, 195-199.	2.8	18
144	Model of ferromagnetic clusters in amorphous rare earth and transition metal alloys. Journal of Applied Physics, 2001, 89, 8046-8053.	2.5	18

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145	Boron content dependence of crystallization, glass forming ability and magnetic properties in amorphous Fe-Zr-B-Nb alloys. Journal of Alloys and Compounds, 2004, 370, 1-7.	5.5	18
146	The correlation between glass formation and hardness of the amorphous phase. Scripta Materialia, 2011, 65, 747-750.	5.2	18
147	Mechanical properties and optimum layer thickness in an amorphous Niâ€"P/coarse-grained Ni bi-layered structure. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2019, 760, 458-468.	5.6	18
148	The effect of oxygen on phase formation in an industrial Zr based bulk metallic glass. Intermetallics, 2021, 129, 107055.	3.9	18
149	Characterization of corrosion products formed on a rapidly solidified Mg based EA55RS alloy. Journal of Materials Science, 1996, 31, 4017-4023.	3.7	17
150	The alloying effect of Ni on the corrosion behavior of melt-spun Mgâ€"Ni ribbons. Electrochimica Acta, 2001, 46, 2649-2657.	5.2	17
151	Correlation between Glass Formation and Type of Eutectic Coupled Zone in Eutectic Alloys. Materials Transactions, 2003, 44, 2007-2010.	1.2	17
152	Optimal glass-forming composition and its correlation with eutectic reaction in the Tiâ€"Niâ€"Al ternary system. Journal of Alloys and Compounds, 2009, 467, 261-267.	5.5	17
153	Calculation of crystallization start line for Zr48Cu45Al7 bulk metallic glass at a high heating and cooling rate. Journal of Alloys and Compounds, 2009, 484, 698-701.	5.5	17
154	Micro-back-extrusion of a bulk metallic glass. Scripta Materialia, 2010, 63, 469-472.	5.2	17
155	A grain-size-dependent structure evolution in gradient-structured (GS) Ni under tension. Nano Materials Science, 2020, 2, 39-49.	8.8	17
156	A superferromagnetic approach for rapidly quenched Y60Fe30Al10alloys. Journal of Physics Condensed Matter, 2000, 12, 4253-4262.	1.8	16
157	Glass forming ability of Laâ€"Alâ€"Niâ€"Cu and Pdâ€"Siâ€"Cu bulk metallic glasses. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2001, 304-306, 679-682.	5.6	16
158	Magnetic hardening in amorphous alloy Sm60Fe30Al10. Scripta Materialia, 2001, 44, 829-834.	5.2	16
159	Cellular growth of Zn-rich Znâ€"Ag alloys processed by rapid solidification. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2004, 373, 139-145.	5.6	16
160	Effect of residual shear bands on serrated flow in a metallic glass. Materials Letters, 2005, 59, 3325-3329.	2.6	16
161	The fundamental structural factor in determining the glass-forming ability and mechanical behavior in the Cuâ€"Zr metallic glasses. Materials Chemistry and Physics, 2011, 127, 292-295.	4.0	16
162	The glass transition of Pd40Ni10Cu30P20 studied by temperature-modulated calorimetry. Journal of Non-Crystalline Solids, 1999, 260, 228-234.	3.1	15

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163	Relationship among Chemical Element Properties, Bulk Additive Properties, and Crystal Structures of Binary Zinc Compounds. Chemistry of Materials, 1999, 11, 3166-3170.	6.7	15
164	Study of temperature profile and specific heat capacity in temperature modulated DSC with a low sample heat diffusivity. Thermochimica Acta, 2000, 360, 131-140.	2.7	15
165	Effect of amorphous layer thickness on the tensile behavior of bulk-sized amorphous Ni-P/crystalline Ni laminates. Materials Letters, 2018, 218, 150-153.	2.6	15
166	Effect of load and lubrication on low load hardness of a rapidly solidified light alloy. Materials Letters, 1996, 28, 33-36.	2.6	14
167	Frequency dependence of heat capacity of thePd40Ni10Cu30P20amorphous alloy by temperature-modulated calorimetry. Physical Review B, 2000, 62, 3169-3175.	3.2	14
168	Glass formation in the ternary Zrâ€"Zr2Cuâ€"Zr2Ni system. Journal of Non-Crystalline Solids, 2006, 352, 832-836.	3.1	14
169	Composition effects on glass-forming ability and its indicator Î³. Intermetallics, 2008, 16, 410-417.	3.9	14
170	Density change upon crystallization of amorphous Zrâ€"Cuâ€"Al thin films. Acta Materialia, 2010, 58, 3633-3641.	7.9	14
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