Juergen H Eckert

List of Publications by Year
in descending order

1,261
papers

51,889
citations

1883
102
h-index

4750
169
g-index

1283
all docs

1283
docs citations

1283
times ranked

24433
citing authors

#	Article	IF	Citations
1	â€œWork-Hardenableâ€•Ductile Bulk Metallic Glass. Physical Review Letters, 2005, 94, 205501.	2.9	857
2	Difference in compressive and tensile fracture mechanisms of Zr59Cu20Al10Ni8Ti3 bulk metallic glass. Acta Materialia, 2003, 51, 1167-1179.	3.8	797
3	Novel Ti-base nanostructureâ€“dendrite composite with enhanced plasticity. Nature Materials, 2003, 2, 33-37.	13.3	684
4	Microstructure and mechanical properties of Alâ€“12Si produced by selective laser melting: Effect of heat treatment. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2014, 590, 153-160.	2.6	649
5	Manufacture by selective laser melting and mechanical behavior of commercially pure titanium. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2014, 593, 170-177.	2.6	566
6	Additive Manufacturing Processes: Selective Laser Melting, Electron Beam Melting and Binder Jettingâ€"Selection Guidelines. Materials, 2017, 10, 672.	1.3	513
7	Correlation between enthalpy change and free volume reduction during structural relaxation of Zr55Cu30Al10Ni5 metallic glass. Scripta Materialia, 2004, 50, 39-44.	2.6	483
8	Selective laser melting of in situ titaniumâ€“titanium boride composites: Processing, microstructure and mechanical properties. Acta Materialia, 2014, 76, 13-22.	3.8	483
9	Manufacture by selective laser melting and mechanical behavior of a biomedical Tiâ€“24Nbâ€“4Zrâ€“8Sn alloy. Scripta Materialia, 2011, 65, 21-24.	2.6	482
10	Transformation-mediated ductility in CuZr-based bulk metallic glasses. Nature Materials, 2010, 9, 473-477.	13.3	454
11	Structural and thermodynamic properties of nanocrystalline fcc metals prepared by mechanical attrition. Journal of Materials Research, 1992, 7, 1751-1761.	1.2	443
12	Simultaneous enhancements of strength and toughness in an Al-12Si alloy synthesized using selective laser melting. Acta Materialia, 2016, 115, 285-294.	3.8	408
13	Formation of metastable cellular microstructures in selective laser melted alloys. Journal of Alloys and Compounds, 2017, 707, 27-34.	2.8	387
14	Mechanical properties of bulk metallic glasses and composites. Journal of Materials Research, 2007, 22, 285-301.	1.2	386
15	Functional Mesoporous Carbonâ€Coated Separator for Longâ€Life, Highâ€Energy Lithiumâ€“Sulfur Batteries. Advanced Functional Materials, 2015, 25, 5285-5291.	7.8	374
16	Crystallization Behavior and Phase Formation in Zr–Al–Cu–Ni Metallic Glass Containing Oxygen. Materials Transactions, JIM, 1998, 39, 623-632.	0.9	349
17	Processing metallic glasses by selective laser melting. Materials Today, 2013, 16, 37-41.	8.3	345
18	Mechanical Properties of Bulk Metallic Glasses. MRS Bulletin, 2007, 32, 635-638.	1.7	328

#	Article	IF	Citations
19	Aromatic porous-honeycomb electrodes for a sodium-organic energy storage device. Nature Communications, 2013, 4, 1485.	5.8	327
20	Fracture Mechanisms in Bulk Metallic Glassy Materials. Physical Review Letters, 2003, 91, 045505.	2.9	318
21	Towards Ultrastrong Glasses. Advanced Materials, 2011, 23, 4578-4586.	11.1	314
22	Defining the tensile properties of Al-12Si parts produced by selective laser melting. Acta Materialia, 2017, 126, 25-35.	3.8	304
23	Is the energy density a reliable parameter for materials synthesis by selective laser melting?. Materials Research Letters, 2017, 5, 386-390.	4.1	294
24	Effect of oxygen on phase formation and thermal stability of slowly cooled Zr65Al7.5Cu17.5Ni10 metallic glass. Acta Materialia, 1998, 46, 5475-5482.	3.8	293
25	Mechanically driven alloying and grain size changes in nanocrystalline Feâ€Cu powders. Journal of Applied Physics, 1993, 73, 2794-2802.	1.1	285
26	Caloric Effects in Ferroic Materials: New Concepts for Cooling. Advanced Engineering Materials, 2012, 14, 10-19.	1.6	278
27	Free-Standing Single-Atom-Thick Iron Membranes Suspended in Graphene Pores. Science, 2014, 343, 1228-1232.	6.0	274
28	Fabrication of Fe-based bulk metallic glass by selective laser melting: A parameter study. Materials and Design, 2015, 86, 703-708.	3.3	261
29	Glassâ€forming range in mechanically alloyed Niâ€Zr and the influence of the milling intensity. Journal of Applied Physics, 1988, 64, 3224-3228.	1.1	257
30	ZrNbCuNiAl bulk metallic glass matrix composites containing dendritic bcc phase precipitates. Applied Physics Letters, 2002, 80, 2478-2480.	1.5	257
31	Properties of P/M processed particle reinforced metal matrix composites specified by reinforcement concentration and matrix-to-reinforcement particle size ratio. Acta Materialia, 2006, 54, 157-166.	3.8	246
32	Microstructural heterogeneities governing the deformation of Cu47.5Zr47.5Al5 bulk metallic glass composites. Acta Materialia, 2009, 57, 5445-5453.	3.8	241
33	Mechanical behavior of porous commercially pure Ti and Tiâ€"TiB composite materials manufactured by selective laser melting. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2015, 625, 350-356.	2.6	235
34	Mechanical properties of Al-based metal matrix composites reinforced with Zr-based glassy particles produced by powder metallurgy. Acta Materialia, 2009, 57, 2029-2039.	3.8	229
35	Thermal stability and grain growth behavior of mechanically alloyed nanocrystalline Feâ€Cu alloys. Journal of Applied Physics, 1993, 73, 131-141.	1.1	227
36	Nanoindentation and wear properties of Ti and Ti-TiB composite materials produced by selective laser melting. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2017, 688, 20-26.	2.6	225

#	Article	IF	Citations
37	Comparison of wear properties of commercially pure titanium prepared by selective laser melting and casting processes. Materials Letters, 2015, 142, 38-41.	1.3	222
38	A Growth Mechanism for Free-Standing Vertical Graphene. Nano Letters, 2014, 14, 3064-3071.	4.5	221
39	High-strength materials produced by precipitation of icosahedral quasicrystals in bulk Zrâ€“Tiâ€“Cuâ€“Niâ€“Al amorphous alloys. Applied Physics Letters, 1999, 74, 664-666.	1.5	219
40	Improved superconducting properties in nanocrystalline bulk MgB2. Applied Physics Letters, 2002, 80, 2725-2727.	1.5	214
41	Unified Tensile Fracture Criterion. Physical Review Letters, 2005, 94, 094301.	2.9	213
42	Phase separation in metallic glasses. Progress in Materials Science, 2013, 58, 1103-1172.	16.0	209
43	Additive manufacturing of Cuâ€“10Sn bronze. Materials Letters, 2015, 156, 202-204.	1.3	208
44	Effect of Powder Particle Shape on the Properties of In Situ Tiâ€“TiB Composite Materials Produced by Selective Laser Melting. Journal of Materials Science and Technology, 2015, 31, 1001-1005.	5.6	201
45	Serrated flow and stickâ€“slip deformation dynamics in the presence of shear-band interactions for a Zr-based metallic glass. Acta Materialia, 2012, 60, 4160-4171.	3.8	193
46	Effect of crystalline precipitations on the mechanical behavior of bulk glass forming Zr-based alloys. Scripta Materialia, 1998, 10, 805-817.	0.5	189
47	Effect of heat treatment on microstructure and mechanical properties of 316L steel synthesized by selective laser melting. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2019, 748, 205-212.	2.6	185
48	Designing biocompatible Ti-based metallic glasses for implant applications. Materials Science and Engineering C, 2013, 33, 875-883.	3.8	178
49	The Role of Interfacial Oxygen Atoms in the Enhanced Mechanical Properties of Carbonâ€Nanotubeâ€Reinforced Metal Matrix Nanocomposites. Small, 2008, 4, 1936-1940.	5.2	177
50	Structural behavior of CuxZr100â^'x metallic glass (x=35â^'70). Journal of Non-Crystalline Solids, 2008, 354, 1054-1060.	1.5	177
51	An Energy Storage Principle using Bipolar Porous Polymeric Frameworks. Angewandte Chemie - International Edition, 2012, 51, 7850-7854.	7.2	177
52	Hydrothermal carbon-based nanostructured hollow spheres as electrode materials for high-power lithiumâ€“sulfur batteries. Physical Chemistry Chemical Physics, 2013, 15, 6080.	1.3	167
53	Deformation-induced martensitic transformation in Cuâ€“Zrâ€“(Al,Ti) bulk metallic glass composites. Scripta Materialia, 2009, 60, 431-434.	2.6	166
54	Lifetime vs. rate capability: Understanding the role of FEC and VC in high-energy Li-ion batteries with nano-silicon anodes. Energy Storage Materials, 2017, 6, 26-35.	9.5	166

#	Article	IF	Citations
55	Powder metallurgy of Al-based metal matrix composites reinforced with Î²-Al3Mg2 intermetallic particles: Analysis and modeling of mechanical properties. Acta Materialia, 2009, 57, 4529-4538.	3.8	165
56	Formation of quasicrystals by mechanical alloying. Applied Physics Letters, 1989, 55, 117-119.	1.5	163
57	Improved mechanical behavior of Cuâ€“Ti-based bulk metallic glass by in situ formation of nanoscale precipitates. Scripta Materialia, 2003, 48, 653-658.	2.6	161
58	Synergistically Enhanced Polysulfide Chemisorption Using a Flexible Hybrid Separator with N and S Dual-Doped Mesoporous Carbon Coating for Advanced Lithiumâ€“Sulfur Batteries. ACS Applied Materials & Interfaces, 2016, 8, 14586-14595.	4.0	153
59	Heterogeneity of a Cu47.5Zr47.5Al5 bulk metallic glass. Applied Physics Letters, 2006, 88, 051911.	1.5	152
60	High-strength Ti-base ultrafine eutectic with enhanced ductility. Applied Physics Letters, 2005, 87, 161907.	1.5	151
61	Melting behavior of nanocrystalline aluminum powders. Scripta Materialia, 1993, 2, 407-413.	0.5	150
62	Multimetallic Aerogels by Template-Free Self-Assembly of Au, Ag, Pt, and Pd Nanoparticles. Chemistry of Materials, 2014, 26, 1074-1083.	3.2	148
63	Selective laser melting of Al-Zn-Mg-Cu: Heat treatment, microstructure and mechanical properties. Journal of Alloys and Compounds, 2017, 707, 287-290.	2.8	147
64	Effect of aspect ratio on the compressive deformation and fracture behaviour of Zr-based bulk metallic glass. Philosophical Magazine Letters, 2005, 85, 513-521.	0.5	145
65	Influence of Annealing on Mechanical Properties of Al-20Si Processed by Selective Laser Melting. Metals, 2014, 4, 28-36.	1.0	144
66	Relation between short-range order and crystallization behavior in Zr-based amorphous alloys. Applied Physics Letters, 2000, 77, 1970-1972.	1.5	138
67	Tribological and corrosion properties of Alâ€“12Si produced by selective laser melting. Journal of Materials Research, 2014, 29, 2044-2054.	1.2	138
68	Microstructure and mechanical properties of the near-beta titanium alloy Ti-5553 processed by selective laser melting. Materials and Design, 2016, 105, 75-80.	3.3	138
69	Microstructure and properties of FeCrMoVC tool steel produced by selective laser melting. Materials and Design, 2016, 89, 335-341.	3.3	135
70	A heat treatable TiB2/Al-3.5Cu-1.5Mg-1Si composite fabricated by selective laser melting: Microstructure, heat treatment and mechanical properties. Composites Part B: Engineering, 2018, 147, 162-168.	5.9	134
71	High strength Tiâ€“Feâ€“Sn ultrafine composites with large plasticity. Scripta Materialia, 2007, 57, 101-104.	2.6	133
72	Triple yielding and deformation mechanisms in metastable Cu47.5Zr47.5Al5 composites. Acta Materialia, 2012, 60, 6000-6012.	3.8	133

#	Article	IF	Citations
73	Strategy for pinpointing the formation of B2 CuZr in metastable CuZr-based shape memory alloys. Acta Materialia, 2011, 59, 6620-6630.	3.8	131
74	Selective laser melting of a beta-solidifying TNM-B1 titanium aluminide alloy. Journal of Materials Processing Technology, 2014, 214, 1852-1860.	3.1	131
75	SEI-component formation on sub 5 nm sized silicon nanoparticles in Li-ion batteries: the role of electrode preparation, FEC addition and binders. Physical Chemistry Chemical Physics, 2015, 17, 24956-24967.	1.3	129
76	Improved plasticity of bulk metallic glasses upon cold rolling. Scripta Materialia, 2010, 62, 678-681.	2.6	128
77	Ultrafine composite microstructure in a bulk Ti alloy for high strength, strain hardening and tensile ductility. Acta Materialia, 2006, 54, 1349-1357.	3.8	125
78	In situ formed Tiâ€"Cuâ€"Niâ€"Snâ€"Ta nanostructure-dendrite composite with large plasticity. Acta Materialia, 2003, 51, 5223-5234.	3.8	123
79	High strength ductile Cu-base metallic glass. Intermetallics, 2006, 14, 876-881.	1.8	123
80	Short-range order of Cuâ€"Zr metallic glasses. Journal of Alloys and Compounds, 2009, 485, 163-169.	2.8	122
81	Microstructure and mechanical properties of a heat-treatable Al-3.5Cu-1.5Mg-1Si alloy produced by selective laser melting. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2018, 711, 562-570.	2.6	121
82	Hydrothermal nanocasting: Synthesis of hierarchically porous carbon monoliths and their application in lithiumâ€"sulfur batteries. Carbon, 2013, 61, 245-253.	5.4	120
83	Mesoporous Carbon Interlayers with Tailored Pore Volume as Polysulfide Reservoir for High-Energy Lithiumâ€"Sulfur Batteries. Journal of Physical Chemistry C, 2015, 119, 4580-4587.	1.5	120
84	Production of high strength Al85Nd8Ni5Co2 alloy by selective laser melting. Additive Manufacturing, 2015, 6, 1-5.	1.7	120
85	<i>In Situ</i> Observations of Free-Standing Graphene-like Mono- and Bilayer ZnO Membranes. ACS Nano, 2015, 9, 11408-11413.	7.3	118
86	Comparative study of microstructures and mechanical properties of in situ Tiâ€"TiB composites produced by selective laser melting, powder metallurgy, and casting technologies. Journal of Materials Research, 2014, 29, 1941-1950.	1.2	116
87	Improved cycling stability of lithiumâ€"sulfur batteries using a polypropylene-supported nitrogen-doped mesoporous carbon hybrid separator as polysulfide adsorbent. Journal of Power Sources, 2016, 303, 317-324.	4.0	114
88	Investigations on the electrochemical behaviour of Zr-based bulk metallic glasses. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 1999, 267, 294-300.	2.6	113
89	Friction welding of Alâ€"12Si parts produced by selective laser melting. Materials & Design, 2014, 57, 632-637.	5.1	113
90	Manipulation of free volumes in a metallic glass through Xe-ion irradiation. Acta Materialia, 2016, 106, 66-77.	3.8	113

#	Article	IF	Citations
91	Grain refinement assisted strengthening of carbon nanotube reinforced copper matrix nanocomposites. Applied Physics Letters, 2008, 92, .	1.5	112
92	Selective laser melting of La(Fe,Co,Si)13 geometries for magnetic refrigeration. Journal of Applied Physics, 2013, 114, .	1.1	111
93	Nanostructured Ti-based multi-component alloys with potential for biomedical applications. Biomaterials, 2003, 24, 5115-5120.	5.7	110
94	Composition dependence of the microstructure and the mechanical properties of nano/ultrafine-structured Tiâ€"Cuâ€"Niâ€"Snâ€"Nb alloys. Acta Materialia, 2004, 52, 3035-3046.	3.8	110
95	Reversible grain size changes in ball-milled nanocrystalline Feâ€"Cu alloys. Journal of Materials Research, 1992, 7, 1980-1983.	1.2	109
96	Effect of cooling rate on the precipitation of quasicrystals from the Zrâ€"Cuâ€"Alâ€"Niâ€"Ti amorphous alloy. Applied Physics Letters, 1998, 73, 2110-2112.	1.5	109
97	High-strength Zr-Nb-(Cu,Ni,Al) composites with enhanced plasticity. Applied Physics Letters, 2003, 82, 4690-4692.	1.5	108
98	Mechanical behavior of Fe65.5Cr4Mo4Ga4P12C5B5.5 bulk metallic glass. Intermetallics, 2005, 13, 764-769.	1.8	108
99	Comparison of different post processing technologies for SLM generated 316l steel parts. Rapid Prototyping Journal, 2013, 19, 173-179.	1.6	108
100	Self-Terminating Confinement Approach for Large-Area Uniform Monolayer Graphene Directly over Si/SiO_x by Chemical Vapor Deposition. ACS Nano, 2017, 11, 1946-1956.	7.3	108
101	Thermal stability and phase transformations of martensitic Tiâ€"Nb alloys. Science and Technology of Advanced Materials, 2013, 14, 055004.	2.8	107
102	A review of particulate-reinforced aluminum matrix composites fabricated by selective laser melting. Transactions of Nonferrous Metals Society of China, 2020, 30, 2001-2034.	1.7	106
103	Pitting corrosion of bulk glass-forming zirconium-based alloys. Journal of Alloys and Compounds, 2004, 377, 290-297.	2.8	104
104	Processing of Alâ€"12Siâ€"TNM composites by selective laser melting and evaluation of compressive and wear properties. Journal of Materials Research, 2016, 31, 55-65.	1.2	103
105	Synthesis and mechanical properties of cast quasicrystal-reinforced Al-alloys. Acta Materialia, 2001, 49, 1351-1361.	3.8	102
106	Stability, phase transformation and deformation behavior of Ti-base metallic glass and composites. Acta Materialia, 2003, 51, 1621-1631.	3.8	102
107	Structure-property relationships in nanoporous metallic glasses. Acta Materialia, 2016, 106, 199-207.	3.8	101
108	Effect of Ta on glass formation, thermal stability and mechanical properties of a Zr52.25Cu28.5Ni4.75Al9.5Ta5 bulk metallic glass. Acta Materialia, 2003, 51, 2383-2395.	3.8	100

#	Article	IF	Citations
109	Direct in situ observations of single Fe atom catalytic processes and anomalous diffusion at graphene edges. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 15641-15646.	3.3	100
110	Composition optimization of low modulus and high-strength TiNb-based alloys for biomedical applications. Journal of the Mechanical Behavior of Biomedical Materials, 2017, 65, 866-871.	1.5	100
111	Mechanically alloyed Zr55Al10Cu30Ni5 metallic glass composites containing nanocrystalline W particles. Journal of Applied Physics, 1999, 85, 7112-7119.	1.1	99
112	High-strength bulk Al-based bimodal ultrafine eutectic composite with enhanced plasticity. Journal of Materials Research, 2009, 24, 2605-2609.	1.2	98
113	Review on manufacture by selective laser melting and properties of titanium based materials for biomedical applications. Materials Technology, 2016, 31, 66-76.	1.5	97
114	Hierarchical Carbideâ€Derived Carbon Foams with Advanced Mesostructure as a Versatile Electrochemical Energyâ€Storage Material. Advanced Energy Materials, 2014, 4, 1300645.	10.2	96
115	Fabrication and mechanical properties of Niâ€“Nb metallic glass particle-reinforced Al-based metal matrix composite. Scripta Materialia, 2006, 54, 1445-1450.	2.6	95
116	High strength ultrafine eutectic Feâ€“Nbâ€“Al composites with enhanced plasticity. Intermetallics, 2008, 16, 642-650.	1.8	95
117	Microscopic deformation mechanism of a Ti66.1Nb13.9Ni4.8Cu8Sn7.2 nanostructureâ€“dendrite composite. Acta Materialia, 2006, 54, 3701-3711.	3.8	93
118	Phase stability and its effect on the deformation behavior of Tiâ€“Nbâ€“Taâ€“In/Cr Î² alloys. Scripta Materialia, 2006, 54, 1943-1948.	2.6	93
119	Direct Growth of Ultrafast Transparent Single-Layer Graphene Defoggers. Small, 2015, 11, 1840-1846.	5.2	92
120	Formation of quasicrystalline and amorphous phases in mechanically alloyed Al-based and Tiî—¸Ni-based alloys. Acta Metallurgica Et Materialia, 1991, 39, 1497-1506.	1.9	90
121	Nanostructured Î²-phase Tiâ€“31.0Feâ€“9.0Sn and sub-Î¼m structured Tiâ€“39.3Nbâ€“13.3Zrâ€“10.7Ta alloys for biomedical applications: Microstructure benefits on the mechanical and corrosion performances. Materials Science and Engineering C, 2012, 32, 2418-2425.	3.8	90
122	Origin of large plasticity and multiscale effects in iron-based metallic glasses. Nature Communications, 2018, 9, 1333.	5.8	89
123	Newtonian flow of Zr55Cu30Al10Ni5 bulk metallic glassy alloys. Scripta Materialia, 2000, 43, 459-464.	2.6	88
124	Short-range order of Zr62â^'xTixAl10Cu20Ni8 bulk metallic glasses. Acta Materialia, 2002, 50, 305-314.	3.8	88
125	Dynamic softening and indentation size effect in a Zr-based bulk glass-forming alloy. Scripta Materialia, 2007, 56, 605-608.	2.6	88
126	Production and mechanical properties of metallic glass-reinforced Al-based metal matrix composites. Journal of Materials Science, 2008, 43, 4518-4526.	1.7	88

#	ARTICLE	IF	CITATIONS
127	Effect of stacking fault energy on deformation behavior of cryo-rolled copper and copper alloys. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2011, 529, 230-236.	2.6	88
128	Cooling Rate Evaluation for Bulk Amorphous Alloys from Eutectic Microstructures in Casting Processes. Materials Transactions, 2002, 43, 1670-1675.	0.4	87
129	Structural bulk metallic glasses with different length-scale of constituent phases. Intermetallics, 2002, 10, 1183-1190.	1.8	87
130	Brittle-to-Ductile Transition in Metallic Glass Nanowires. Nano Letters, 2016, 16, 4467-4471.	4.5	87
131	Impact of the scanning strategy on the mechanical behavior of 316L steel synthesized by selective laser melting. Journal of Manufacturing Processes, 2019, 45, 255-261.	2.8	87
132	Behavior of multiple shear bands in Zr-based bulk metallic glass. Materials Chemistry and Physics, 2005, 93, 174-177.	2.0	86
133	Influence of embedded-carbon nanotubes on the thermal properties of copper matrix nanocomposites processed by molecular-level mixing. Scripta Materialia, 2011, 64, 181-184.	2.6	86
134	Fatigue and fracture behavior of bulk metallic glass. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2004, 35, 3489-3498.	1.1	85
135	Tiâ€"Cuâ€"Ni shape memory bulk metallic glass composites. Acta Materialia, 2013, 61, 151-162.	3.8	84
136	Microstructure and mechanical properties of Al-Cu alloys fabricated by selective laser melting of powder mixtures. Journal of Alloys and Compounds, 2018, 735, 2263-2266.	2.8	84
137	Wavy cleavage fracture of bulk metallic glass. Applied Physics Letters, 2006, 89, 251917.	1.5	83
138	Significant tensile ductility induced by cold rolling in Cu47.5Zr47.5Al5 bulk metallic glass. Intermetallics, 2011, 19, 1394-1398.	1.8	83
139	Macroscopic tensile plasticity of bulk metallic glass through designed artificial defects. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2012, 534, 365-373.	2.6	83
140	Local atomic arrangements and their topology in Niâ€"Zr and Cuâ€"Zr glassy and crystalline alloys. Acta Materialia, 2013, 61, 2509-2520.	3.8	83
141	Role of 1,3-Dioxolane and LiNO₃Addition on the Long Term Stability of Nanostructured Silicon/Carbon Anodes for Rechargeable Lithium Batteries. Journal of the Electrochemical Society, 2016, 163, A557-A564.	1.3	83
142	Atomic-scale origin of shear band multiplication in heterogeneous metallic glasses. Scripta Materialia, 2020, 178, 57-61.	2.6	83
143	Fabrication and mechanical properties of Al-based metal matrix composites reinforced with Mg65Cu20Zn5Y10 metallic glass particles. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2014, 600, 53-58.	2.6	82
144	Hybrid nanostructured aluminum alloy with super-high strength. NPG Asia Materials, 2015, 7, e229-e229.	3.8	82

#	Article	IF	Citations
145	Cold-consolidation of ball-milled Fe-based amorphous ribbons by high pressure torsion. Scripta Materialia, 2004, 50, 1221-1225.	2.6	81
146	Microstructure and thermal expansion behavior of spray-deposited Alâ€“50Si. Materials & Design, 2014, 57, 585-591.	5.1	81
147	Enhanced polysulphide redox reaction using a RuO₂ nanoparticle-decorated mesoporous carbon as functional separator coating for advanced lithiumâ€“sulphur batteries. Chemical Communications, 2016, 52, 8134-8137.	2.2	81
148	Giant thermal expansion and Î±-precipitation pathways in Ti-alloys. Nature Communications, 2017, 8, 1429.	5.8	81
149	Premature failure of an additively manufactured material. NPG Asia Materials, 2020, 12, .	3.8	81
150	Influence of processing parameters on the fabrication of a Cu-Al-Ni-Mn shape-memory alloy by selective laser melting. Additive Manufacturing, 2016, 11, 23-31.	1.7	80
151	Tailoring of microstructure and mechanical properties of a Ti-based bulk metallic glass-forming alloy. Scripta Materialia, 2007, 57, 1101-1104.	2.6	78
152	Corrosion behaviour of Zr-based bulk glass-forming alloys containing Nb or Ti. Materials Letters, 2002, 57, 173-177.	1.3	77
153	Modeling deformation behavior of Cuâ€“Zrâ€“Al bulk metallic glass matrix composites. Applied Physics Letters, 2009, 95, .	1.5	77
154	Production of Porous Î²-Type Tiâ€“40Nb Alloy for Biomedical Applications: Comparison of Selective Laser Melting and Hot Pressing. Materials, 2013, 6, 5700-5712.	1.3	77
155	Phase formation and thermal stability in Cuâ€“Zrâ€“Ti(Al) metallic glasses. Intermetallics, 2009, 17, 453-462.	1.8	76
156	Criteria for tensile plasticity in Cuâ€“Zrâ€“Al bulk metallic glasses. Acta Materialia, 2010, 58, 4883-4890.	3.8	76
157	Ductile bulk metallic glasses produced through designed heterogeneities. Scripta Materialia, 2011, 65, 815-818.	2.6	76
158	Interfacial tension, wetting and nucleation in Alâ€“Bi and Alâ€“Pb monotectic alloys. Acta Materialia, 2011, 59, 6880-6889.	3.8	76
159	Novel Approach for Alternating Current (AC)â€Driven Organic Lightâ€Emitting Devices. Advanced Functional Materials, 2012, 22, 210-217.	7.8	76
160	Phase formation and mechanical properties of Tiâ€“Cuâ€“Niâ€“Zr bulk metallic glass composites. Acta Materialia, 2014, 65, 259-269.	3.8	76
161	Formation of a bimodal eutectic structure in Tiâ€“Feâ€“Sn alloys with enhanced plasticity. Applied Physics Letters, 2008, 93, .	1.5	75
162	Structural evolution of Cuâ€“Zr metallic glasses under tension. Acta Materialia, 2009, 57, 4133-4139.	3.8	75

#	Article	IF	Citations
163	High-mobility graphene on liquid p-block elements by ultra-low-loss CVD growth. Scientific Reports, 2013, 3, 2670.	1.6	75
164	Selective Laser Melting of Ti-45Nb Alloy. Metals, 2015, 5, 686-694.	1.0	75
165	Oxide dispersion strengthened mechanically alloyed amorphous Zr-Al-Cu-Ni composites. Scripta Materialia, 1998, 38, 595-602.	2.6	74
166	Crystallization in Zr41.2Ti13.8Cu12.5Ni10Be22.5 bulk metallic glass under pressure. Applied Physics Letters, 2000, 77, 3553-3555.	1.5	74
167	Stability of the bulk glass-forming Mg65Y10Cu25 alloy in aqueous electrolytes. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2001, 299, 125-135.	2.6	74
168	Interfacial reaction during the fabrication of Ni60Nb40 metallic glass particles-reinforced Al based MMCs. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2007, 444, 206-213.	2.6	74
169	Metallic glasses: Notch-insensitive materials. Scripta Materialia, 2012, 66, 733-736.	2.6	73
170	Elastic softening of Î²-type Tiâ€"Nb alloys by indium (In) additions. Journal of the Mechanical Behavior of Biomedical Materials, 2014, 39, 162-174.	1.5	73
171	Origin of Intermittent Plastic Flow and Instability of Shear Band Sliding in Bulk Metallic Glasses. Physical Review Letters, 2013, 110, 225501.	2.9	72
172	Enhanced plasticity in a Ti-based bulk metallic glass-forming alloy by <i>in situ</i> formation of a composite microstructure. Journal of Materials Research, 2002, 17, 3015-3018.	1.2	71
173	Amorphization in mechanically alloyed (Ti, Zr, Nb)â€"(Cu, Ni)â€"Al equiatomic alloys. Journal of Alloys and Compounds, 2007, 428, 157-163.	2.8	70
174	CVD growth of 1D and 2D sp2 carbon nanomaterials. Journal of Materials Science, 2016, 51, 640-667.	1.7	70
175	Kinetics of the glass-transition and crystallization process of Fe72âˆ’xNbxAl5Ga2P11C6B4 (x=0,â€Š2) metallic glasses. Applied Physics Letters, 2001, 78, 2145-2147.	1.5	69
176	Rotation mechanism of shear fracture induced by high plasticity in Ti-based nano-structured composites containing ductile dendrites. Scripta Materialia, 2005, 52, 945-949.	2.6	69
177	Shear fracture and fragmentation mechanisms of bulk metallic glasses. Philosophical Magazine Letters, 2006, 86, 643-650.	0.5	69
178	Lithium dendrite and solid electrolyte interphase investigation using OsO4. Journal of Power Sources, 2014, 266, 198-207.	4.0	69
179	High Area Capacity Lithium-Sulfur Full-cell Battery with Prelitiathed Silicon Nanowire-Carbon Anodes for Long Cycling Stability. Scientific Reports, 2016, 6, 27982.	1.6	69
180	Reconfiguration of lithium sulphur batteries: â€œEnhancement of Liâ€"S cell performance by employing a highly porous conductive separator coatingâ€• Journal of Power Sources, 2016, 309, 76-81.	4.0	69

#	Article	IF	Citations
181	Mechanical alloying of highly processable glassy alloys. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 1997, 226-228, 364-373.	2.6	68
182	Transformation-mediated plasticity in CuZr based metallic glass composites: A quantitative mechanistic understanding. International Journal of Plasticity, 2016, 85, 34-51.	4.1	68
183	A novel high-throughput setup for<i>in situ</i>powder diffraction on coin cell batteries. Journal of Applied Crystallography, 2016, 49, 340-345.	1.9	68
184	Microstructure and phase formation in Alâ€“20Siâ€“5Feâ€“3Cuâ€“1Mg synthesized by selective laser melting. Journal of Alloys and Compounds, 2016, 657, 430-435.	2.8	68
185	On cryothermal cycling as a method for inducing structural changes in metallic glasses. NPG Asia Materials, 2018, 10, 137-145.	3.8	68
186	Pressure effect on crystallization of metallic glass Fe72P11C6Al5B4Ga2 alloy with wide supercooled liquid region. Journal of Applied Physics, 2000, 87, 2664-2666.	1.1	67
187	Mechanical alloying and milling of Alâ€“Mg alloys. Journal of Alloys and Compounds, 2009, 483, 2-7.	2.8	67
188	Phase transformations and mechanical properties of biocompatible Tiâ€“16.1Nb processed by severe plastic deformation. Journal of Alloys and Compounds, 2015, 628, 434-441.	2.8	67
189	Fracture surface morphology of compressed bulk metallic glass-matrix-composites and bulk metallic glass. Intermetallics, 2006, 14, 982-986.	1.8	66
190	Dynamics of serrated flow in a bulk metallic glass. AIP Advances, 2011, 1, .	0.6	66
191	Bipolar porous polymeric frameworks for low-cost, high-power, long-life all-organic energy storage devices. Journal of Power Sources, 2014, 245, 553-556.	4.0	66
192	Flash Joule heating for ductilization of metallic glasses. Nature Communications, 2015, 6, 7932.	5.8	66
193	Thermal stability and crystallization kinetics of mechanically alloyed TiCâˆ•Ti-based metallic glass matrix composite. Journal of Applied Physics, 2006, 100, 033514.	1.1	65
194	Effect of annealing on the mechanical properties and fracture mechanisms of aZr56.2Ti13.8Nb5.0Cu6.9Ni5.6Be12.5bulk-metallic-glass composite. Physical Review B, 2007, 75, .	1.1	65
195	Tensile fracture criterion of metallic glass. Journal of Applied Physics, 2011, 109, .	1.1	65
196	Composition-dependent magnitude of atomic shuffles in Tiâ€“Nb martensites. Journal of Applied Crystallography, 2014, 47, 1374-1379.	1.9	65
197	High strength beta titanium alloys: New design approach. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2015, 628, 297-302.	2.6	65
198	Microstructure and thermal expansion behavior of Al-50Si synthesized by selective laser melting. Journal of Alloys and Compounds, 2017, 699, 548-553.	2.8	65

#	Article	IF	Citations
199	As-cast quasicrystalline phase in a Zr-based multicomponent bulk alloy. Applied Physics Letters, 2000, 77, 3176-3178.	1.5	64
200	Ductile ultrafine-grained Ti-based alloys with high yield strength. Applied Physics Letters, 2007, 91, .	1.5	64
201	Strain distribution in Zr64.13Cu15.75Ni10.12Al10 bulk metallic glass investigated by <i>in situ</i> tensile tests under synchrotron radiation. Journal of Applied Physics, 2008, 104, .	1.1	64
202	Formation of an ultrafine-grained structure during equal-channel angular pressing of a Î²-titanium alloy with low phase stability. Scripta Materialia, 2009, 60, 1012-1015.	2.6	64
203	Surface treatment, corrosion behavior, and apatiteâ€forming ability of Tiâ€45Nb implant alloy. Journal of Biomedical Materials Research - Part B Applied Biomaterials, 2013, 101B, 269-278.	1.6	64
204	Al-based metal matrix composites reinforced with Alâ€"Cuâ€"Fe quasicrystalline particles: Strengthening by interfacial reaction. Journal of Alloys and Compounds, 2014, 607, 274-279.	2.8	64
205	Processing of Ti-5553 with improved mechanical properties via an in-situ heat treatment combining selective laser melting and substrate plate heating. Materials and Design, 2017, 130, 83-89.	3.3	64
206	Electrochemical hydrogenation of Mg65Cu25Y10 metallic glass. Journal of Alloys and Compounds, 2004, 364, 229-237.	2.8	63
207	Propagation of shear bands and accommodation of shear strain in the Fe56Nb4Al40 ultrafine eutectic-dendrite composite. Applied Physics Letters, 2008, 92, .	1.5	63
208	Factors influencing the elastic moduli, reversible strains and hysteresis loops in martensitic Tiâ€"Nb alloys. Materials Science and Engineering C, 2015, 48, 511-520.	3.8	63
209	Microstructure evolution and mechanical properties of carbon nanotubes reinforced Al matrix composites. Materials Characterization, 2017, 133, 122-132.	1.9	62
210	Role of Surface Functional Groups in Ordered Mesoporous Carbide-Derived Carbon/Ionic Liquid Electrolyte Double-Layer Capacitor Interfaces. ACS Applied Materials & Interfaces, 2014, 6, 2922-2928.	4.0	61
211	Effect of thermomechanical processing on the mechanical biofunctionality of a low modulus Ti-40Nb alloy. Journal of the Mechanical Behavior of Biomedical Materials, 2017, 65, 137-150.	1.5	61
212	Equation of state ofZr41Ti14Cu12.5Ni10Be22.5bulk metallic glass. Physical Review B, 2000, 61, 3166-3169.	1.1	60
213	Design of ductile bulk metallic glasses by adding â€œsoftâ€•atoms. Applied Physics Letters, 2012, 100, .	1.5	60
214	On the Role of Vapor Trapping for Chemical Vapor Deposition (CVD) Grown Graphene over Copper. Chemistry of Materials, 2013, 25, 4861-4866.	3.2	60
215	The thermal expansion behaviour of SiCp/Alâ€"20Si composites solidified under high pressures. Materials & Design, 2015, 65, 387-394.	5.1	60
216	Thermal stability and latent heat of Nbâ€"rich martensitic Ti-Nb alloys. Journal of Alloys and Compounds, 2017, 697, 300-309.	2.8	60

#	Article	IF	Citations
217	Glass-forming ability and soft magnetic properties of FeCoSiAlGaPCB amorphous alloys. Journal of Applied Physics, 2002, 92, 2073-2078.	1.1	59
218	Anomalous thermal stability of Ndâ€“Feâ€“Coâ€“Al bulk metallic glass. Acta Materialia, 2002, 50, 4357-4367.	3.8	59
219	Tensile properties of Al matrix composites reinforced with in situ devitrified Al84Gd6Ni7Co3 glassy particles. Journal of Alloys and Compounds, 2014, 586, S419-S422.	2.8	59
220	Synthesis of Niî—¸Ti and Feî—¸Ti alloys by mechanical alloying: formation of amorphous phases and extended solid solutions. Journal of Non-Crystalline Solids, 1991, 127, 90-96.	1.5	58
221	Effect of relaxation and primary nanocrystallization on the mechanical properties of Cu60Zr22Ti18 bulk metallic glass. Intermetallics, 2005, 13, 1214-1219.	1.8	58
222	A universal transfer route for graphene. Nanoscale, 2014, 6, 889-896.	2.8	58
223	Preparation of MgB2 tapes using a nanocrystalline partially reacted precursor. Applied Physics Letters, 2003, 83, 1803-1805.	1.5	57
224	Study of mechanical property and crystallization of a ZrCoAl bulk metallic glass. Intermetallics, 2011, 19, 567-571.	1.8	57
225	Modeling the strengthening effect of Alâ€“Cuâ€“Fe quasicrystalline particles in Al-based metal matrix composites. Journal of Alloys and Compounds, 2012, 536, S130-S133.	2.8	57
226	Advances in<i>in situ</i>powder diffraction of battery materials: a case study of the new beamline P02.1 at DESY, Hamburg. Journal of Applied Crystallography, 2013, 46, 1117-1127.	1.9	57
227	Oxidation as A Means to Remove Surface Contaminants on Cu Foil Prior to Graphene Growth by Chemical Vapor Deposition. Journal of Physical Chemistry C, 2015, 119, 13363-13368.	1.5	57
228	Deformation behavior of metallic glass composites reinforced with shape memory nanowires studied via molecular dynamics simulations. Applied Physics Letters, 2015, 106, .	1.5	57
229	A new type of La(Fe,Si)13-based magnetocaloric composite with amorphous metallic matrix. Scripta Materialia, 2015, 95, 50-53.	2.6	57
230	Transient nucleation and microstructural design in flash-annealed bulk metallic glasses. Acta Materialia, 2017, 127, 416-425.	3.8	57
231	Effect of casting conditions on microstructure and mechanical properties of high-strength Zr73.5Nb9Cu7Ni1Al9.5 in situ composites. Scripta Materialia, 2003, 49, 1189-1195.	2.6	56
232	Effect of casting conditions on dendrite-amorphous/nanocrystalline Zrâ€“Nbâ€“Cuâ€“Niâ€“Al in situ composites. Intermetallics, 2004, 12, 1153-1158.	1.8	56
233	Work hardening ability of ductile Ti45Cu40Ni7.5Zr5Sn2.5 and Cu47.5Zr47.5Al5 bulk metallic glasses. Applied Physics Letters, 2006, 89, 071908.	1.5	56
234	Atomic structure and transport properties of Cu50Zr45Al5 metallic liquids and glasses: Molecular dynamics simulations. Journal of Applied Physics, 2011, 110, .	1.1	56

#	Article	IF	Citations
235	Effect of cold rolling on compressive and tensile mechanical properties of Zr52.5Ti5Cu18Ni14.5Al10 bulk metallic glass. Journal of Alloys and Compounds, 2011, 509, S128-S130.	2.8	56
236	Correlation between internal states and plasticity in bulk metallic glass. Applied Physics Letters, 2011, 98, .	1.5	56
237	Thermal behaviour of Pd40Cu30Ni10P20 bulk metallic glass. Acta Materialia, 2012, 60, 517-524.	3.8	56
238	A size dependent evaluation of the cytotoxicity and uptake of nanographene oxide. Journal of Materials Chemistry B, 2015, 3, 2522-2529.	2.9	56
239	Characterization of 316L Steel Cellular Dodecahedron Structures Produced by Selective Laser Melting. Technologies, 2016, 4, 34.	3.0	56
240	Shear avalanches in plastic deformation of a metallic glass composite. International Journal of Plasticity, 2016, 77, 141-155.	4.1	56
241	Ductile Metallic Glasses in Supercooled Martensitic Alloys. Materials Transactions, 2006, 47, 2606-2609.	0.4	55
242	A bridge from monotectic alloys to liquid-phase-separated bulk metallic glasses: Design, microstructure and phase evolution. Acta Materialia, 2013, 61, 2102-2112.	3.8	55
243	Anisotropy in local microstructure â€“ Does it affect the tensile properties of the SLM samples?. Manufacturing Letters, 2018, 15, 33-37.	1.1	55
244	Selective Laser Melting of Aluminum and Its Alloys. Materials, 2020, 13, 4564.	1.3	55
245	Glass formation and extended solubilities in mechanically alloyed cobalt-transition metal alloys. Journal of the Less Common Metals, 1990, 166, 293-302.	0.9	54
246	Atomic ordering and magnetic properties in Nd57Fe20B8Co5Al10 solids. Journal of Applied Physics, 2000, 88, 3565-3569.	1.1	54
247	Microstructure and magnetic properties of amorphous/nanocrystalline Co40Fe22Ta8B30 alloy produced by mechanical alloying. Materials Chemistry and Physics, 2012, 134, 1214-1224.	2.0	54
248	Asymmetric first-order transition and interlocked particle state in magnetocaloric La(Fe,Si)₁₃. Physica Status Solidi - Rapid Research Letters, 2015, 9, 136-140.	1.2	54
249	Low Voltage Transmission Electron Microscopy of Graphene. Small, 2015, 11, 515-542.	5.2	54
250	Glass-forming Ability and Magnetic Properties of Nd_{70â^’<i>x</i>}Fe₂₀Al₁₀Co_{<i>x</i>} Alloys. Journal of Materials Research, 2000, 15, 1556-1563.	1.2	53
251	Crystallization kinetics and magnetic properties of Fe66Nb4B30 bulk metallic glass. Journal of Alloys and Compounds, 2009, 483, 632-637.	2.8	53
252	Tensile fracture morphologies of bulk metallic glass. Journal of Applied Physics, 2010, 108, .	1.1	53

#	Article	IF	Citations
253	Aqueous Solution Process for the Synthesis and Assembly of Nanostructured One-Dimensional Î±-MoO₃ Electrode Materials. Chemistry of Materials, 2013, 25, 2557-2563.	3.2	53
254	Formation of amorphous Zrâ€Alâ€Cuâ€Ni with a large supercooled liquid region by mechanical alloying. Journal of Applied Physics, 1995, 77, 5446-5448.	1.1	52
255	Glass-forming ability of REâ€“Alâ€“TM alloys (RE=Sm, Y; TM=Fe, Co, Cu). Acta Materialia, 2000, 48, 3823-3831.	3.8	52
256	Hydrogenation and its effect on the crystallisation behaviour of Zr55Cu30Al10Ni5 metallic glass. Journal of Alloys and Compounds, 2000, 298, 146-152.	2.8	52
257	Thermal stability and crystallization kinetics of Cu-reinforced Cu47Ti33Zr11Ni8Si1 metallic glass composite powders synthesized by ball milling: the effect of particulate reinforcement. Intermetallics, 2005, 13, 833-840.	1.8	52
258	Effect of sample size on ductility of metallic glass. Philosophical Magazine Letters, 2009, 89, 178-184.	0.5	52
259	Al-based metal matrix composites reinforced with Fe49.9Co35.1Nb7.7B4.5Si2.8 glassy powder: Mechanical behavior under tensile loading. Journal of Alloys and Compounds, 2014, 615, S382-S385.	2.8	52
260	Evolution of microstructure and mechanical properties of as-cast Al-50Si alloy due to heat treatment and P modifier content. Materials & Design, 2015, 74, 150-156.	5.1	52
261	Effect of cerium addition on microstructure and mechanical properties of high-strength Fe85Cr4Mo8V2C1 cast steel. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2016, 674, 366-374.	2.6	52
262	Enhancement of plastic deformability in Feâ€“Niâ€“Nbâ€“B bulk glassy alloys by controlling the Ni-to-Fe concentration ratio. Applied Physics Letters, 2010, 96, .	1.5	51
263	Influence of severe straining and strain rate on the evolution of dislocation structures during micro-/nanoindentation in high entropy lamellar eutectics. International Journal of Plasticity, 2018, 109, 121-136.	4.1	51
264	Nanostructure formation and steady-state grain size of ball-milled iron powders. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 1997, 226-228, 541-545.	2.6	50
265	Coercivity mechanism inNd60Fe30Al10andNd60Fe20Co10Al10alloys. Physical Review B, 2002, 66, .	1.1	50
266	Deformation-induced nanostructuring in a Tiâ€“Nbâ€“Taâ€“In Î² alloy. Applied Physics Letters, 2006, 89, 031906.	1.5	50
267	Microstructural inhomogeneities introduced in a Zr-based bulk metallic glass upon low-temperature annealing. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2008, 491, 124-130.	2.6	50
268	Crystallization behavior and consolidation of gas-atomized Al84Gd6Ni7Co3 glassy powder. Journal of Alloys and Compounds, 2010, 491, 137-142.	2.8	50
269	Self-Organized TiO₂/CoO Nanotubes as Potential Anode Materials for Lithium Ion Batteries. ACS Sustainable Chemistry and Engineering, 2015, 3, 909-919.	3.2	50
270	Mechano-chemical synthesis and characterization of microstructure and magnetic properties of nanocrystalline Mn1â^'xZnxFe2O4. Journal of Alloys and Compounds, 2006, 424, 13-20.	2.8	49

#	Article	IF	Citations
271	Structural evolution and strength change of a metallic glass at different temperatures. Scientific Reports, 2016, 6, 30876.	1.6	49
272	Plastic Deformation and Mechanical Softening of Pd40Cu30Ni10P20 Bulk Metallic Glass During Nanoindentation. Journal of Materials Research, 2005, 20, 2719-2725.	1.2	48
273	Multi-phase Al-based ultrafine composite with multi-scale microstructure. Intermetallics, 2010, 18, 1829-1833.	1.8	48
274	Thermal stability and magnetic properties of FeCoBSiNb bulk metallic glasses. Journal of Alloys and Compounds, 2010, 504, S123-S128.	2.8	48
275	Correlation between elastic structural behavior and yield strength of metallic glasses. Acta Materialia, 2012, 60, 3074-3083.	3.8	48
276	Correlation between the microstructures and the deformation mechanisms of CuZr-based bulk metallic glass composites. AIP Advances, 2013, 3, .	0.6	48
277	Silicon oxycarbide-derived carbons from a polyphenylsilsequioxane precursor for supercapacitor applications. Microporous and Mesoporous Materials, 2014, 188, 140-148.	2.2	48
278	Selective laser melting of high-strength, low-modulus Tiâ€“35Nbâ€“7Zrâ€“5Ta alloy. Materialia, 2020, 14, 100941.	1.3	48
279	Transformation-enhanced strength and ductility in a FeCoCrNiMn dual phase high-entropy alloy. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2020, 780, 139182.	2.6	48
280	Microstructure and mechanical properties of slowly cooled Cu47.5Zr47.5Al5. Journal of Materials Research, 2007, 22, 326-333.	1.2	47
281	Designing bulk metallic glass and glass matrix composites in martensitic alloys. Journal of Alloys and Compounds, 2009, 483, 97-101.	2.8	47
282	Crystallization kinetics and consolidation of mechanically alloyed Al70Y16Ni10Co4 glassy powders. Journal of Alloys and Compounds, 2009, 477, 171-177.	2.8	47
283	Magnetocaloric effect in Gd-based Gd60FexCo30â^’xAl10 metallic glasses. Journal of Magnetism and Magnetic Materials, 2010, 322, 2298-2303.	1.0	47
284	Elastic constants of single crystalline Î²-Ti70Nb30. Scripta Materialia, 2012, 66, 198-201.	2.6	47
285	Mapping of residual strains around a shear band in bulk metallic glass by nanobeam X-ray diffraction. Acta Materialia, 2016, 111, 187-193.	3.8	47
286	Medium-range order dictates local hardness in bulk metallic glasses. Materials Today, 2021, 44, 48-57.	8.3	47
287	Mechanical properties of a two-phase amorphous Niâ€“Nbâ€“Y alloy studied by nanoindentation. Scripta Materialia, 2007, 56, 85-88.	2.6	46
288	Understanding the relationship between atomic structures and transport properties in (Cu0.5Zr0.5)100â^’xAlx (â‰¤10) glass forming liquids: Molecular dynamics simulations. Journal of Alloys and Compounds, 2012, 514, 141-149.	2.8	46

#	Article	IF	Citations
289	Few-Layer Graphene Shells and Nonmagnetic Encapsulates: A Versatile and Nontoxic Carbon Nanomaterial. ACS Nano, 2013, 7, 10552-10562.	7.3	46
290	Magnetic compensation, field-dependent magnetization reversal, and complex magnetic ordering in<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>Co</mml:mi><mml:mn>2</mml:mn></mml: Physical Review B, 2015, 92, .	1.1	46
291	Micro-to-nano-scale deformation mechanisms of a bimodal ultrafine eutectic composite. Scientific Reports, 2014, 4, 6500.	1.6	46
292	Anodically fabricated TiO₂â€“SnO₂nanotubes and their application in lithium ion batteries. Journal of Materials Chemistry A, 2016, 4, 5542-5552.	5.2	46
293	Rapid and partial crystallization to design ductile CuZr-based bulk metallic glass composites. Materials and Design, 2018, 139, 132-140.	3.3	46
294	Thermal stability of grain structure and defects in submicrocrystalline and nanocrystalline nickel. Scripta Materialia, 2002, 46, 685-690.	2.6	45
295	Plasticity in bulk metallic glasses investigated via the strain distribution. Physical Review B, 2007, 76, .	1.1	45
296	Enhancement of oxidation resistance of the supercooled liquid in Cuâ€“Zr-based metallic glass by forming an amorphous oxide layer with high thermal stability. Corrosion Science, 2013, 66, 1-4.	3.0	45
297	Effect of Nb addition on microstructure evolution and nanomechanical properties of a glass-forming Tiâ€“Zrâ€“Si alloy. Intermetallics, 2014, 46, 156-163.	1.8	45
298	Tensile properties of Alâ€“12Si matrix composites reinforced with Tiâ€“Al-based particles. Journal of Alloys and Compounds, 2015, 630, 256-259.	2.8	45
299	High-temperature wetting and interfacial interaction between liquid Al and TiB2 ceramic. Journal of Materials Science, 2015, 50, 2682-2690.	1.7	45
300	Structural and mechanical characterization of heterogeneities in a CuZr-based bulk metallic glass processed by high pressure torsion. Acta Materialia, 2018, 160, 147-157.	3.8	45
301	Glass-forming ranges in transition metal-Zr alloys prepared by mechanical alloying. Journal of the Less Common Metals, 1988, 145, 283-291.	0.9	44
302	Propagation of shear bands in Ti66.1Cu8Ni4.8Sn7.2Nb13.9 nanostructure-dendrite composite during deformation. Applied Physics Letters, 2005, 86, 171909.	1.5	44
303	Crystallization kinetics of amorphous Fe67Co9.5Nd3Dy0.5B20. Journal of Alloys and Compounds, 2005, 397, 104-109.	2.8	44
304	Processing Routes, Microstructure and Mechanical Properties of Metallic Glasses and their Composites. Advanced Engineering Materials, 2007, 9, 443-453.	1.6	44
305	Martensite Formation in a Ductile Cu47.5Zr47.5Al5 Bulk Metallic Glass Composite. Advanced Engineering Materials, 2007, 9, 487-491.	1.6	44
306	Formation of Zrâ€“Coâ€“Al bulk metallic glasses with high strength and large plasticity. Intermetallics, 2012, 31, 282-286.	1.8	44

#	Article	IF	Citations
307	Effect of indium (In) on corrosion and passivity of a beta-type Tiâ€"Nb alloy in Ringer's solution. Applied Surface Science, 2015, 335, 213-222.	3.1	44
308	Friction welding of selective laser melted Ti6Al4V parts. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2017, 704, 66-71.	2.6	44
309	Deformation mechanism of amorphous and partially crystallized alloys. Scripta Materialia, 1999, 12, 503-506.	0.5	43
310	Corrosion behaviour of Mg65Y10Cu25 metallic glass. Scripta Materialia, 2000, 43, 279-283.	2.6	43
311	Bulk amorphous FeCrMoGaPCB: Preparation and magnetic properties. Journal of Magnetism and Magnetic Materials, 2005, 290-291, 1480-1482.	1.0	43
312	Influence of a bimodal eutectic structure on the plasticity of a (Ti70.5Fe29.5)91Sn9 ultrafine composite. Applied Physics Letters, 2008, 93, .	1.5	43
313	Promoting nano/ultrafine-duplex structure via accelerated Î± precipitation in a Î²-type titanium alloy severely deformed by high-pressure torsion. Scripta Materialia, 2013, 68, 67-70.	2.6	43
314	Universally scaling Hall-Petch-like relationship in metallic glass matrix composites. International Journal of Plasticity, 2018, 105, 225-238.	4.1	43
315	Quasicrystal formation and phase transitions by ball milling. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 1991, 133, 393-397.	2.6	42
316	Crystallization behaviour and nanocrystalline microstructure evolution of a Zr₅₇Cu₂₀A1₁₀Ni₈Ti₅bulk amorphous alloy. Philosophical Magazine A: Physics of Condensed Matter, Structure, Defects and Mechanical Properties, 1999, 79, 1095-1108.	0.8	42
317	Microstructure and mechanical properties of slowly cooled Zrâ€"Nbâ€"Cuâ€"Niâ€"Al composites with ductile bcc phase. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2004, 375-377, 322-326.	2.6	42
318	Bulk ultra-fine eutectic structure in Tiâ€"Feâ€"base alloys. Journal of Alloys and Compounds, 2007, 434-435, 28-31.	2.8	42
319	Interactions between mechanically generated defects and corrosion phenomena of Zr-based bulk metallic glasses. Acta Materialia, 2012, 60, 2300-2309.	3.8	42
320	Tailoring Hollow Siliconâ€"Carbon Nanocomposites As High-Performance Anodes in Secondary Lithium-Based Batteries through Economical Chemistry. Chemistry of Materials, 2015, 27, 37-43.	3.2	42
321	Ab-initio and experimental study of phase stability of Ti-Nb alloys. Journal of Alloys and Compounds, 2017, 696, 481-489.	2.8	42
322	Ductile bulk metallic glass by controlling structural heterogeneities. Scientific Reports, 2018, 8, 9174.	1.6	42
323	Microstructure and mechanical properties of Al-12Si and Al-3.5Cu-1.5Mg-1Si bimetal fabricated by selective laser melting. Journal of Materials Science and Technology, 2020, 36, 18-26.	5.6	42
324	Additive Manufacturing of Aluminumâ€Based Metal Matrix Compositesâ€"A Review. Advanced Engineering Materials, 2021, 23, 2100053.	1.6	42

#	Article	IF	Citations
325	Nanostructured materials in multicomponent alloy systems. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2001, 301, 1-11.	2.6	41
326	Phase formation and properties of mechanically alloyed amorphous Al85Y8Ni5Co2. Scripta Materialia, 2001, 45, 237-244.	2.6	41
327	Magnetocaloric (Feâ€"B)-based amorphous alloys. Journal of Magnetism and Magnetic Materials, 2013, 329, 101-104.	1.0	41
328	Effect of thermal stability of the amorphous substrate on the amorphous oxide growth on Zrâ€"Alâ€"(Cu,Ni) metallic glass surfaces. Corrosion Science, 2013, 73, 1-6.	3.0	41
329	Effects of high pressure and SiC content on microstructure and precipitation kinetics of Alâ€"20Si alloy. Journal of Alloys and Compounds, 2014, 586, 639-644.	2.8	41
330	Mechanical behavior of Al-based matrix composites reinforced with Mg58Cu28.5Gd11Ag2.5 metallic glasses. Advanced Powder Technology, 2014, 25, 635-639.	2.0	41
331	Local microstructure evolution at shear bands in metallic glasses with nanoscale phase separation. Scientific Reports, 2016, 6, 25832.	1.6	41
332	Laser surface remelting of a Cu-Al-Ni-Mn shape memory alloy. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2016, 661, 61-67.	2.6	41
333	Microstructure and abrasive wear behavior of a novel FeCrMoVC laser cladding alloy for high-performance tool steels. Wear, 2017, 382-383, 107-112.	1.5	41
334	Microstructure, mechanical behavior, and wear properties of FeCrMoVC steel prepared by selective laser melting and casting. Scripta Materialia, 2017, 126, 41-44.	2.6	41
335	Chemical nanoroughening of Ti40Nb surfaces and its effect on human mesenchymal stromal cell response. Journal of Biomedical Materials Research - Part B Applied Biomaterials, 2014, 102, 31-41.	1.6	40
336	Evaluation of hydrogen storage performance of ZrTiVNiCrFe in electrochemical and gas-solid reactions. International Journal of Hydrogen Energy, 2020, 45, 5347-5355.	3.8	40
337	Outstanding strengthening behavior and dynamic mechanical properties of in-situ Alâ€"Al3Ni composites by Cu addition. Composites Part B: Engineering, 2020, 189, 107891.	5.9	40
338	Quasicrystalline Al-alloys with high strength and good ductility. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2000, 294-296, 164-167.	2.6	39
339	Bulk nanostructured Zr-based multiphase alloys with high strength and good ductility. Scripta Materialia, 2001, 44, 1587-1590.	2.6	39
340	Strength asymmetry of ductile dendrites reinforced Zr- and Ti-based composites. Journal of Materials Research, 2006, 21, 2331-2336.	1.2	39
341	Microstructure and mechanical properties of Laves phase-reinforced Feâ€"Zrâ€"Cr alloys. Intermetallics, 2009, 17, 532-539.	1.8	39
342	Severe deformation twinning in pure copper by cryogenic wire drawing. Acta Materialia, 2011, 59, 7816-7823.	3.8	39

#	Article	IF	Citations
343	Correlation between glass-forming ability, thermal stability, and crystallization kinetics of Cu-Zr-Ag metallic glasses. Journal of Applied Physics, 2012, 112, .	1.1	39
344	Effect of microstructure on the mechanical properties of as-cast Tiâ€"Nbâ€"Alâ€"Cuâ€"Ni alloys for biomedical application. Materials Science and Engineering C, 2013, 33, 4795-4801.	3.8	39
345	Effect of high pressure solidification on tensile properties and strengthening mechanisms of Al-20Si. Journal of Alloys and Compounds, 2016, 688, 88-93.	2.8	39
346	Two-phase quasi-equilibrium in Î²-type Ti-based bulk metallic glass composites. Scientific Reports, 2016, 6, 19235.	1.6	39
347	Controlling the distribution of structural heterogeneities in severely deformed metallic glass. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2019, 752, 36-42.	2.6	39
348	Effect of hydrogen on Zr65Cu17.5Al7.5Ni10 metallic glass. Journal of Alloys and Compounds, 2001, 314, 170-176.	2.8	38
349	Spinodal decomposition of Niâ€"Nbâ€"Y metallic glasses. Acta Materialia, 2009, 57, 903-908.	3.8	38
350	Glass formation and mechanical properties of (Cu50Zr50)100â^'xAlx (x=0, 4, 5, 7) bulk metallic glasses. Journal of Alloys and Compounds, 2009, 483, 146-149.	2.8	38
351	Hollow carbon nano-onions with hierarchical porosity derived from commercial metal organic framework. Carbon, 2014, 79, 302-309.	5.4	38
352	Hierarchical densification and negative thermal expansion in Ce-based metallic glass under high pressure. Nature Communications, 2015, 6, 5703.	5.8	38
353	Electrochemical deposition of hydroxyapatite on beta-Ti-40Nb. Surface and Coatings Technology, 2016, 294, 186-193.	2.2	38
354	Additive Manufacturing: Reproducibility of Metallic Parts. Technologies, 2017, 5, 8.	3.0	38
355	Plastic deformation mechanisms in severely strained eutectic high entropy composites explained via strain rate sensitivity and activation volume. Composites Part B: Engineering, 2018, 150, 7-13.	5.9	38
356	Enhancing the interface bonding in carbon nanotubes reinforced Al matrix composites by the in situ formation of TiAl3 and TiC. Journal of Alloys and Compounds, 2018, 765, 98-105.	2.8	38
357	Metallic glass nanolaminates with shape memory alloys. Acta Materialia, 2018, 159, 344-351.	3.8	38
358	Relationships governing the grain size of nanocrystalline metals and alloys. Scripta Materialia, 1995, 6, 413-416.	0.5	37
359	Effect of microstructure on the magnetic properties of mold-cast and melt-spun Nd-Fe-Co-Al amorphous alloys. Acta Materialia, 2003, 51, 229-238.	3.8	37
360	Plastically deformable Cuâ€"Zr intermetallics. Scripta Materialia, 2010, 63, 336-338.	2.6	37

#	Article	IF	Citations
361	Influences of residual stresses on the serrated flow in bulk metallic glass under elastostatic four-point bending â€“ A nanoindentation and atomic force microscopy study. Acta Materialia, 2014, 70, 188-197.	3.8	37
362	Amorphization reaction during mechanical alloying: influence of the milling conditions. Journal of Materials Science, 1991, 26, 441-446.	1.7	36
363	Influence of oxygen on the viscosity of Zrâ€“Alâ€“Cuâ€“Ni metallic glasses in the undercooled liquid region. Journal of Applied Physics, 1998, 83, 3438-3440.	1.1	36
364	High-performance bulk Ti-Cu-Ni-Sn-Ta nanocomposites based on a dendrite-eutectic microstructure. Journal of Materials Research, 2004, 19, 2557-2566.	1.2	36
365	Thermal behavior and glass transition of Zr-based bulk metallic glasses. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2004, 375-377, 351-354.	2.6	36
366	Effect of Titanium on Microstructure and Mechanical Properties of Cu50Zr50â^’x Ti x (2.5Ââ‰ÂxÂâ‰Â7.5) Glass Matrix Composites. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2008, 39, 1868-1873.	1.1	36
367	Ti-base nanoeutectic-hexagonal structured (D019) dendrite composite. Scripta Materialia, 2008, 58, 631-634.	2.6	36
368	High strength Niâ€“Zr binary ultrafine eutectic-dendrite composite with large plastic deformability. Applied Physics Letters, 2008, 93, .	1.5	36
369	Rapid growth and formation mechanism of ultrafine structural oxide eutectic ceramics by laser direct forming. Applied Physics Letters, 2011, 99, 221913.	1.5	36
370	Ductile Ti-Based Bulk Metallic Glasses with High Specific Strength. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2011, 42, 1456-1462.	1.1	36
371	On the formation of an ultrafine-duplex structure facilitated by severe shear deformation in a Tiâ€“20Mo Î²-type titanium alloy. Acta Materialia, 2012, 60, 5067-5078.	3.8	36
372	First-principles study of the thermodynamic and elastic properties of eutectic Feâ€“Ti alloys. Acta Materialia, 2012, 60, 1594-1602.	3.8	36
373	Phase Formation, Thermal Stability and Mechanical Properties of a Cu-Al-Ni-Mn Shape Memory Alloy Prepared by Selective Laser Melting. Materials Research, 2015, 18, 35-38.	0.6	36
374	Tensile Properties of Al-12Si Fabricated via Selective Laser Melting (SLM) at Different Temperatures. Technologies, 2016, 4, 38.	3.0	36
375	Î²-type Ti-based bulk metallic glass composites with tailored structural metastability. Journal of Alloys and Compounds, 2017, 708, 972-981.	2.8	36
376	Deformation-induced microstructural changes in Fe₄₀Ni₄₀P₁₄B₆ metallic glass. Journal of Materials Research, 1999, 14, 3765-3774.	1.2	35
377	Thermal Relaxation and High Temperature Creep of Zr55Cu30Al10Ni5 Bulk Metallic Glass. Mechanics of Time-Dependent Materials, 2002, 6, 193-206.	2.3	35
378	Stoichiometry dependence of superconductivity and microstructure in mechanically alloyed MgB2. Journal of Applied Physics, 2005, 97, 056105.	1.1	35

#	Article	IF	Citations
379	Pronounced ductility in CuZrAl ternary bulk metallic glass composites with optimized microstructure through melt adjustment. AIP Advances, 2012, 2, 032176.	0.6	35
380	Formation of Cuâ€“Zrâ€“Alâ€“Er bulk metallic glass composites with enhanced deformability. Intermetallics, 2012, 30, 132-138.	1.8	35
381	Significant tensile ductility and toughness in an ultrafine-structured Ti 68.8 Nb 13.6 Co 6 Cu 5.1 Al 6.5 bi-modal alloy. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2014, 615, 457-463.	2.6	35
382	Confirming the Dual Role of Etchants during the Enrichment of Semiconducting Single Wall Carbon Nanotubes by Chemical Vapor Deposition. Chemistry of Materials, 2015, 27, 5964-5973.	3.2	35
383	Amorphous martensite in Î²-Ti alloys. Nature Communications, 2018, 9, 506.	5.8	35
384	Local nanoscale strain mapping of a metallic glass during <i>in situ</i> testing. Applied Physics Letters, 2018, 112, .	1.5	35
385	Microstructure and mechanical properties of hierarchical multi-phase composites based on Al-Ni-type intermetallic compounds in the Al-Ni-Cu-Si alloy system. Journal of Alloys and Compounds, 2018, 749, 205-210.	2.8	35
386	Signature of local stress states in the deformation behavior of metallic glasses. NPG Asia Materials, 2020, 12, .	3.8	35
387	Interfacial structure and wear properties of selective laser melted Ti/(TiC+TiN) composites with high content of reinforcements. Journal of Alloys and Compounds, 2021, 870, 159436.	2.8	35
388	Nanostructured Composites in Multicomponent Alloy Systems. Materials Transactions, 2003, 44, 1999-2006.	0.4	34
389	Vickers hardness and compressive properties of bulk metallic glasses and nanostructure-dendrite composites. Journal of Materials Research, 2005, 20, 2632-2638.	1.2	34
390	Polymeric Frameworks as Organic Semiconductors with Controlled Electronic Properties. Journal of Physical Chemistry Letters, 2013, 4, 2977-2981.	2.1	34
391	Spray forming of Cuâ€“11.85Alâ€“3.2Niâ€“3Mn (wt%) shape memory alloy. Journal of Alloys and Compounds, 2014, 615, S602-S606.	2.8	34
392	Phase separation in Zr56-Gd Co28Al16 metallic glasses (0 â©½xâ©½ 20). Acta Materialia, 2014, 66, 262-272.	3.8	34
393	Atomic structure and formation of CuZrAl bulk metallic glasses and composites. Acta Materialia, 2015, 100, 369-376.	3.8	34
394	Aluminum matrix composites reinforced with metallic glass particles with core-shell structure. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2020, 771, 138630.	2.6	34
395	Hydrogen storage performance of the multi-principal-component CoFeMnTiVZr alloy in electrochemical and gasâ€“solid reactions. RSC Advances, 2020, 10, 24613-24623.	1.7	34
396	Nanostructure formation and properties of ball-milled NiAl intermetallic compound. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 1997, 239-240, 619-624.	2.6	33

#	Article	IF	Citations
397	Synthesis and mechanical properties of mechanically alloyed Al-Cu-Fe quasicrystalline composites. Philosophical Magazine, 2003, 83, 1287-1305.	0.7	33
398	Low temperature preparation of MgB2tapes using mechanically alloyed powder. Superconductor Science and Technology, 2003, 16, 281-284.	1.8	33
399	Strain rate dependence of plastic flow in Ce-based bulk metallic glass during nanoindentation. Journal of Materials Research, 2007, 22, 258-263.	1.2	33
400	Ti-base bulk nanostructure-dendrite composites: Microstructure and deformation. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2007, 449-451, 24-29.	2.6	33
401	Phase separation in Niâ€“Nbâ€“Y metallic glasses. Journal of Alloys and Compounds, 2010, 495, 299-304.	2.8	33
402	Grain and crystallite size evaluation of cryomilled pure copper. Journal of Alloys and Compounds, 2011, 509, S343-S347.	2.8	33
403	Stable fracture of a malleable Zr-based bulk metallic glass. Journal of Applied Physics, 2012, 112, .	1.1	33
404	Intrinsic versus extrinsic effects on serrated flow of bulk metallic glasses. Intermetallics, 2015, 66, 31-39.	1.8	33
405	Al-based matrix composites reinforced with short Fe-based metallic glassy fiber. Journal of Alloys and Compounds, 2015, 651, 170-175.	2.8	33
406	Microstructure and mechanical properties of Mgâ€“Al-based alloy modified with cerium. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2015, 625, 46-49.	2.6	33
407	A comparative study on the isochronal and isothermal crystallization kinetics of Co46.45Fe25.55Ta8B20 soft magnetic metallic glass with high thermal stability. Journal of Alloys and Compounds, 2016, 675, 223-230.	2.8	33
408	Relaxation and crystallization of amorphous Zr65Al7.5Cu17.5Ni10. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 1997, 226-228, 468-473.	2.6	32
409	Formation and Properties of Zr-(Ti, Nb)-Cu-Ni-Al Bulk Metallic Glasses. Materials Transactions, 2001, 42, 587-591.	0.4	32
410	Hot water corrosion behaviour of Zrâ€“Cuâ€“Alâ€“Ni bulk metallic glass. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2001, 316, 60-65.	2.6	32
411	Polarisation behaviour of the Zr57Ti8Nb2.5Cu13.9Ni11.1Al7.5 alloy in different microstructural states in acid solutions. Scripta Materialia, 2004, 50, 1379-1384.	2.6	32
412	Effect of Sn on microstructure and mechanical properties of (Tiâ€“Cu)-based bulk metallic glasses. Philosophical Magazine Letters, 2006, 86, 479-486.	0.5	32
413	Propagation of shear bands in a Cu47.5Zr47.5Al5 bulk metallic glass. Journal of Materials Research, 2008, 23, 6-12.	1.2	32
414	Direct observations on the evolution of shear bands into cracks in metallic glass. Journal of Materials Research, 2009, 24, 3130-3135.	1.2	32

#	Article	IF	Citations
415	Fracture mechanism of some brittle metallic glasses. Journal of Applied Physics, 2009, 105, 103519.	1.1	32
416	Non-Isothermal Kinetic Analysis of the Crystallization of Metallic Glasses Using the Master Curve Method. Materials, 2011, 4, 2231-2243.	1.3	32
417	Fabrication and characterization of bulk glassy Co40Fe22Ta8B30 alloy with high thermal stability and excellent soft magnetic properties. Acta Materialia, 2013, 61, 6609-6621.	3.8	32
418	Correlation between atomic structure evolution and strength in a bulk metallic glass at cryogenic temperature. Scientific Reports, 2014, 4, 3897.	1.6	32
419	Direct synthesis of graphene from adsorbed organic solvent molecules over copper. RSC Advances, 2015, 5, 60884-60891.	1.7	32
420	Mechanochemical route to the synthesis of nanostructured Aluminium nitride. Scientific Reports, 2016, 6, 33375.	1.6	32
421	Phase formation, microstructure and deformation behavior of heavily alloyed TiNb- and TiV-based titanium alloys. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2018, 733, 80-86.	2.6	32
422	A comparative study of glass-forming ability, crystallization kinetics and mechanical properties of Zr55Co25Al20 and Zr52Co25Al23 bulk metallic glasses. Journal of Alloys and Compounds, 2019, 785, 422-428.	2.8	32
423	Effect of tempering and deep cryogenic treatment on microstructure and mechanical properties of Crâ€“Moâ€“Vâ€“Ni steel. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2020, 787, 139520.	2.6	32
424	Influence of microstructure and composition on the grain size of nanocrystalline Fe-Cu alloys. Scripta Metallurgica Et Materialia, 1992, 27, 1105-1110.	1.0	31
425	Coercivity mechanism in mold-cast Nd60FexCo30âˆ’xAl10 bulk amorphous alloys. Journal of Alloys and Compounds, 2003, 348, 309-313.	2.8	31
426	Tensile and fatigue fracture mechanisms of a Zr-based bulk metallic glass. Journal of Materials Research, 2003, 18, 456-465.	1.2	31
427	Glass formation and crystallization of Cu47Ti33Zr11Ni8X1 (X=Fe, Si, Sn, Pb) alloys. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2005, 392, 169-178.	2.6	31
428	Structural short-range order of the Î²-Ti phase in bulk Tiâ€“Feâ€“(Sn) nanoeutectic composites. Applied Physics Letters, 2006, 89, 261917.	1.5	31
429	Limited quasicrystal formation in Zrâ€“Tiâ€“Cuâ€“Niâ€“Al bulk metallic glasses. Acta Materialia, 2006, 54, 4685-4692.	3.8	31
430	Structureâ€“property relations in bulk metallic Cuâ€“Zrâ€“Al alloys. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2010, 527, 5867-5872.	2.6	31
431	Oxidation resistance of the supercooled liquid in Cu₅₀Zr₅₀ and Cu₄₆Zr₄₆Al₈ metallic glasses. Journal of Materials Research, 2012, 27, 1178-1186.	1.2	31
432	Effect of particle dispersion on the mechanical behavior of Al-based metal matrix composites reinforced with nanocrystalline Alâ€“Ca intermetallics. Journal of Alloys and Compounds, 2012, 536, S134-S137.	2.8	31

#	Article	IF	Citations
433	Designing Zr-Cu-Co-Al Bulk Metallic Glasses with Phase Separation Mediated Plasticity. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2012, 43, 2598-2603.	1.1	31
434	Enhanced strength and transformation-induced plasticity in rapidly solidified Zrâ€“Coâ€“(Al) alloys. Scripta Materialia, 2013, 68, 897-900.	2.6	31
435	New (Fe0.9Ni0.1)77Mo5P9C7.5B1.5 glassy alloys with enhanced glass-forming ability and large compressive strain. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2013, 560, 575-582.	2.6	31
436	Phase transformations in ball-milled Tiâ€“40Nb and Tiâ€“45Nb powders upon quenching from the ÃŸ-phase region. Powder Technology, 2014, 253, 166-171.	2.1	31
437	Electrical and magnetic properties of Fe-based bulk metallic glass with minor Co and Ni addition. Journal of Magnetism and Magnetic Materials, 2014, 364, 80-84.	1.0	31
438	Kinetic analysis of the non-isothermal crystallization process, magnetic and mechanical properties of FeCoBSiNb and FeCoBSiNbCu bulk metallic glasses. Journal of Applied Physics, 2016, 119, .	1.1	31
439	Hierarchically nanostructured hollow carbon nanospheres for ultra-fast and long-life energy storage. Carbon, 2016, 106, 306-313.	5.4	31
440	Tailoring the Bain strain of martensitic transformations in Ti Nb alloys by controlling the Nb content. International Journal of Plasticity, 2016, 85, 190-202.	4.1	31
441	Microstructure and strength of nano-/ultrafine-grained carbon nanotube-reinforced titanium composites processed by high-pressure torsion. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2018, 722, 122-128.	2.6	31
442	Additive Manufacturing of a 316L Steel Matrix Composite Reinforced with CeO2 Particles: Process Optimization by Adjusting the Laser Scanning Speed. Technologies, 2018, 6, 25.	3.0	31
443	In-situ explosive formation of NbSi2-Based nanocomposites by mechanical alloying. Scripta Materialia, 1999, 41, 1147-1151.	2.6	30
444	Progress of solid-state reaction and glass formation in mechanically alloyed Zr65Al7.5Cu17.5Ni10. Acta Materialia, 2000, 48, 3657-3670.	3.8	30
445	Magnetic Properties and Phase Transformations of Bulk Amorphous Fe-Based Alloys Obtained by Different Techniques. Materials Transactions, 2002, 43, 1966-1973.	0.4	30
446	Corrosion behaviour of a Ti-base nanostructure-dendrite composite. Electrochimica Acta, 2005, 50, 2461-2467.	2.6	30
447	Effect of short-term tempering on microstructure and mechanical properties of high-strength FeCrMoVC. Acta Materialia, 2012, 60, 4468-4476.	3.8	30
448	Production and Characterization of Brass-matrix Composites Reinforced with Ni59Zr20Ti16Si2Sn3 Glassy Particles. Metals, 2012, 2, 79-94.	1.0	30
449	Effect of Fe addition on glass forming ability and mechanical properties in Zrâ€“Coâ€“Alâ€“(Fe) bulk metallic glasses. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2012, 539, 124-127.	2.6	30
450	Porous low modulus Ti40Nb compacts with electrodeposited hydroxyapatite coating for biomedical applications. Materials Science and Engineering C, 2013, 33, 2280-2287.	3.8	30

#	Article	IF	Citations
451	High-strength ultrafine grain Mgâ€"7.4%Al alloy synthesized by consolidation of mechanically alloyed powders. Journal of Alloys and Compounds, 2014, 610, 456-461.	2.8	30
452	Atomic structure and magnetic properties of Feâ€"Nbâ€"B metallic glasses. Journal of Alloys and Compounds, 2014, 586, S189-S193.	2.8	30
453	Glass-forming ability, thermal stability of B2 CuZr phase, and crystallization kinetics for rapidly solidified Cuâ€"Zrâ€"Zn alloys. Journal of Alloys and Compounds, 2016, 664, 99-108.	2.8	30
454	Mechanism of formation of fibrous eutectic Si and thermal conductivity of SiC p /Al-20Si composites solidified under high pressure. Journal of Alloys and Compounds, 2017, 709, 329-336.	2.8	30
455	Hysteretic behavior of soft magnetic elastomer composites. Journal of Magnetism and Magnetic Materials, 2017, 426, 60-63.	1.0	30
456	Synthesis and characterization of novel mesoporous strontium-modified bioactive glass nanospheres for bone tissue engineering applications. Microporous and Mesoporous Materials, 2020, 294, 109889.	2.2	30
457	Glass-forming ranges of mechanically alloyed powders. Journal of the Less Common Metals, 1988, 140, 93-98.	0.9	29
458	Microstructure and impurity dependence in mechanically alloyed nanocrystalline MgB2superconductors. Superconductor Science and Technology, 2004, 17, 1148-1153.	1.8	29
459	Microstructure evolution upon devitrification and crystallization kinetics of Zr57Ti8Nb2.5Cu13.9Ni11.1Al7.5 melt-spun glassy ribbon. Journal of Applied Physics, 2004, 95, 3397-3403.	1.1	29
460	Nanostructured Composite Materials with Improved Deformation Behavior. Advanced Engineering Materials, 2005, 7, 587-596.	1.6	29
461	Superior mechanical properties of FeCrMoVC. Applied Physics Letters, 2007, 90, 261901.	1.5	29
462	Formation of ductile ultrafine eutectic structure in Tiâ€"Feâ€"Sn alloy. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2007, 449-451, 737-740.	2.6	29
463	Martensitic transformation and thermal cycling effect in Cuâ€"Coâ€"Zr alloys. Journal of Alloys and Compounds, 2011, 509, S334-S337.	2.8	29
464	Effect of uniaxial loading on the structural anisotropy and the dynamics of atoms of Cu50Zr50 metallic glasses within the elastic regime studied by molecular dynamics simulation. Acta Materialia, 2011, 59, 4303-4313.	3.8	29
465	Carbohydrate-Derived Nanoarchitectures: On a Synergistic Effect Toward an Improved Performance in Lithiumâ€"Sulfur Batteries. ACS Sustainable Chemistry and Engineering, 2014, 2, 126-129.	3.2	29
466	Effect of Particle Size on Microstructure and Mechanical Properties of Al-Based Composite Reinforced with 10 Vol.% Mechanically Alloyed Mg-7.4%Al Particles. Technologies, 2016, 4, 37.	3.0	29
467	Low Youngâ€™s modulus Ti-based porous bulk glassy alloy without cytotoxic elements. Acta Biomaterialia, 2016, 36, 323-331.	4.1	29
468	Selective laser melting of ultra-high-strength TRIP steel: processing, microstructure, and properties. Journal of Materials Science, 2017, 52, 4944-4956.	1.7	29

#	Article	IF	Citations
469	Chemical bonding effects on the brittle-to-ductile transition in metallic glasses. Acta Materialia, 2020, 188, 273-281.	3.8	29
470	Alâ€“Cuâ€“Fe QUASICRYSTALLINE PHASE FORMATION BY MECHANICAL ALLOYING. Materials and Manufacturing Processes, 2002, 17, 825-841.	2.7	28
471	Effect of cooling rate on microstructure and magnetic properties of Nd60Fe30Al10 hard magnetic alloys. Journal of Magnetism and Magnetic Materials, 2003, 261, 122-130.	1.0	28
472	What types of grain boundaries can be passed through by persistent slip bands?. Journal of Materials Research, 2003, 18, 1031-1034.	1.2	28
473	Critical current densities of superconducting MgB2 tapes prepared on the base of mechanically alloyed precursors. Physica C: Superconductivity and Its Applications, 2004, 406, 121-130.	0.6	28
474	Phase separation in amorphous Niâ€“Nbâ€“Y alloys. Scripta Materialia, 2007, 57, 29-32.	2.6	28
475	High-strength Al₈₇Ni₈La₅ bulk alloy produced by spark plasma sintering of gas atomized powders. Journal of Materials Research, 2009, 24, 2909-2916.	1.2	28
476	Medium range ordering and its effect on plasticity of Feâ€“Mnâ€“Bâ€“Yâ€“Nb bulk metallic glass. Philosophical Magazine, 2010, 90, 2619-2633.	0.7	28
477	Thermal stability and mechanical properties of Cu46Zr46Ag8 bulk metallic glass and its composites. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2013, 559, 711-718.	2.6	28
478	Influence of ejection temperature on structure and glass transition behavior for Zr-based rapidly quenched disordered alloys. Acta Materialia, 2016, 116, 370-381.	3.8	28
479	Influence of Ag and Co additions on glass-forming ability, thermal and mechanical properties of Cuâ€“Zrâ€“Al bulk metallic glasses. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2016, 673, 90-98.	2.6	28
480	Dichlorosilane-derived nano-silicon inside hollow carbon spheres as a high-performance anode for Li-ion batteries. Journal of Materials Chemistry A, 2017, 5, 9262-9271.	5.2	28
481	Cryogenic-temperature-induced structural transformation of a metallic glass. Materials Research Letters, 2017, 5, 284-291.	4.1	28
482	Electrosorption of Hydrogen in Pd-Based Metallic Glass Nanofilms. ACS Applied Energy Materials, 2018, 1, 2630-2646.	2.5	28
483	Microstructural characterization of medium entropy alloy thin films. Scripta Materialia, 2020, 177, 22-26.	2.6	28
484	Effects of electrochemical hydrogenation of Zr-based alloys with high glass-forming ability. Intermetallics, 2002, 10, 1207-1213.	1.8	27
485	Corrosion behaviour of the Mg65Y10Cu15Ag10 bulk metallic glass. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2004, 375-377, 280-284.	2.6	27
486	Fe-based bulk amorphous soft magnetic materials. Journal of Magnetism and Magnetic Materials, 2006, 304, 192-196.	1.0	27

#	Article	IF	Citations
487	Microstructural investigation of a deformed Ti66.1Cu8Ni4.8Sn7.2Nb13.9 nanostructureâ€"dendrite composite. Journal of Alloys and Compounds, 2007, 434-435, 106-109.	2.8	27
488	Phase transformations in mechanically milled and annealed single-phase Î²-Al3Mg2. Acta Materialia, 2008, 56, 1136-1143.	3.8	27
489	Topological and chemical ordering in<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mtext>Co</mml:mtext></mml:mrow><mml:mrow><mml:mn>3</mml: Physical Review B, 2009, 79, .	1.1	27
490	Deformationâ€induced microstructural heterogeneity in monolithic Zr₄₄Ti₁₁Cu_{9.8}Ni_{10.2}Be₂₅ bulk metallic glass. Physica Status Solidi - Rapid Research Letters, 2009, 3, 46-48.	1.2	27
491	Anisotropic mechanical behavior of ultrafine eutectic TiFe cast under non-equilibrium conditions. Intermetallics, 2011, 19, 327-335.	1.8	27
492	Study of direct relationship between atomic structures and glass forming abilities of Cu100-x Zrx (0â‰xâ‰10) liquids by molecular dynamics simulations. Journal of Applied Physics, 2012, 111, .	1.1	27
493	Insights into the Early Growth of Homogeneous Single-Layer Graphene over Niâ€"Mo Binary Substrates. Chemistry of Materials, 2013, 25, 3880-3887.	3.2	27
494	Effect of Ti substitution on glass-forming ability and mechanical properties of a brittle Cuâ€"Zrâ€"Al bulk metallic glass. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2013, 563, 112-116.	2.6	27
495	Structural contribution to the ferroelectric fatigue in lead zirconate titanate ceramics. Physical Review B, 2014, 90, .	1.1	27
496	Lithium Insertion into Li₂MoO₄: Reversible Formation of (Li₃Mo)O₄ with a Disordered Rock-Salt Structure. Chemistry of Materials, 2015, 27, 4485-4492.	3.2	27
497	Microstructure and Mechanical Properties of Alâ€"(12-20)Si Bi-Material Fabricated by Selective Laser Melting. Materials, 2019, 12, 2126.	1.3	27
498	Selective laser melting of 316L stainless steel: Influence of TiB2 addition on microstructure and mechanical properties. Materials Today Communications, 2019, 21, 100615.	0.9	27
499	Electrocatalytic Behavior of Hydrogenated Pd-Metallic Glass Nanofilms: Butler-Volmer, Tafel, and Impedance Analyses. Electrocatalysis, 2020, 11, 94-109.	1.5	27
500	Phase separation in Nd60â^'xYxFe30Al10 melt-spun ribbons. Applied Physics Letters, 2002, 80, 772-774.	1.5	26
501	Glass-forming ability and crystallization behavior of Co62â^'xFexNb6Zr2B30 (x=0,16) amorphous alloys with large supercooled liquid region. Journal of Applied Physics, 2002, 92, 6607-6611.	1.1	26
502	Microstructure and mechanical properties of the Zr66.4Cu10.5Ni8.7Al8Ta6.4 metallic glass-forming alloy. Scripta Materialia, 2003, 48, 1531-1536.	2.6	26
503	Inverse deformation-fracture responses between dendrite and matrix in Ti-based nanostructureâ€"dendrite composite. Philosophical Magazine Letters, 2004, 84, 365-372.	0.5	26
504	Conditions for quasicrystal formation from mechanically alloyed Zr-based glassy powders. Intermetallics, 2007, 15, 571-582.	1.8	26

#	Article	IF	Citations
505	Size Effect on Shear Fracture and Fragmentation of a Fe_{57.6}Co_{14.4}B_{19.2}Si_{4.8}Nb₄ Bulk Metallic Glass. Advanced Engineering Materials, 2008, 10, 727-730.	1.6	26
506	Effect of shot-peening on the corrosion resistance of a Zr-based bulk metallic glass. Scripta Materialia, 2010, 62, 635-638.	2.6	26
507	Improving the plasticity of a high strength Feâ€“Siâ€“Ti ultrafine composite by introduction of an immiscible element. Applied Physics Letters, 2010, 97, .	1.5	26
508	Giant irreversible positive to large reversible negative magnetic entropy change evolution in Tb-based bulk metallic glass. Physical Review B, 2010, 82, .	1.1	26
509	Fabrication and Response of Al₇₀Y₁₆Ni₁₀Co₄Glass Reinforced Metal Matrix Composites. Materials and Manufacturing Processes, 2011, 26, 1242-1247.	2.7	26
510	Phase separation in monotectic alloys as a route for liquid state fabrication of composite materials. Journal of Materials Science, 2012, 47, 8360-8366.	1.7	26
511	Internal structural evolution and enhanced tensile plasticity of Ti-based bulk metallic glass and composite via cold rolling. Journal of Alloys and Compounds, 2014, 615, S113-S117.	2.8	26
512	Structural aspects of elasto-plastic deformation of a Zr-based bulk metallic glass under uniaxial compression. Acta Materialia, 2015, 95, 30-36.	3.8	26
513	New Mg-Ca-Zn amorphous alloys: Biocompatibility, wettability and mechanical properties. Materialia, 2020, 12, 100799.	1.3	26
514	High pressure torsion induced lowering of Young's modulus in high strength TNZT alloy for bio-implant applications. Journal of the Mechanical Behavior of Biomedical Materials, 2020, 108, 103839.	1.5	26
515	Thermoplasticity of metallic glasses: Processing and applications. Progress in Materials Science, 2022, 127, 100941.	16.0	26
516	High strength AL-alloys with nanoquasicrystalline phase as main component. Scripta Materialia, 1999, 12, 107-110.	0.5	25
517	Thermal stability of mechanically alloyed Zrâ€“Cuâ€“Alâ€“Ni glass composites containing ZrC particles as a second phase. Scripta Materialia, 2002, 46, 31-35.	2.6	25
518	Influence of environment and grain size on magnetic properties of nanocrystalline Mnâ€“Zn ferrite. Journal of Magnetism and Magnetic Materials, 2006, 306, 9-15.	1.0	25
519	Influence of heterogeneities with different length scale on the plasticity of Fe-base ultrafine eutectic alloys. Journal of Materials Research, 2008, 23, 2003-2008.	1.2	25
520	Nanocrystalline body-centred cubic beta-titanium alloy processed by high-pressure torsion. International Journal of Materials Research, 2009, 100, 1662-1667.	0.1	25
521	Enhanced plastic deformation of Zr41.2Ti13.8Cu12.5Ni10Be22.5 bulk metallic glass by the optimization of frictional boundary restraints. Scripta Materialia, 2010, 62, 750-753.	2.6	25
522	Phase separation in Cu46Zr47âˆ’xAl7Gdx metallic glasses. Journal of Alloys and Compounds, 2011, 509, S23-S26.	2.8	25

#	Article	IF	Citations
523	Influence of sample geometry on determination of magnetocaloric effect for Gd60Co30Al10 glassy ribbons using direct and indirect methods. Journal of Magnetism and Magnetic Materials, 2011, 323, 1782-1786.	1.0	25
524	On the transformation-induced work-hardening behavior of Zr47.5Co47.5Al5 ultrafine-grained alloy. Intermetallics, 2013, 35, 116-119.	1.8	25
525	Temperature dependence of the short-range order of Cu65Zr35 metallic glass. Intermetallics, 2013, 32, 51-56.	1.8	25
526	Effect of Milling Time and the Consolidation Process on the Properties of Al Matrix Composites Reinforced with Fe-Based Glassy Particles. Metals, 2015, 5, 669-685.	1.0	25
527	Effect of cooling rate on the microstructure and properties of FeCrVC. Journal of Alloys and Compounds, 2015, 634, 200-207.	2.8	25
528	Alloying Behavior of Selfâ€Assembled Noble Metal Nanoparticles. Chemistry - A European Journal, 2016, 22, 13446-13450.	1.7	25
529	Localized crystallization in shear bands of a metallic glass. Scientific Reports, 2016, 6, 19358.	1.6	25
530	Micro-patterning by thermoplastic forming of Ni-free Ti-based bulk metallic glasses. Materials and Design, 2017, 120, 204-211.	3.3	25
531	Influence of the Ag concentration on the medium-range order in a CuZrAlAg bulk metallic glass. Scientific Reports, 2017, 7, 44903.	1.6	25
532	Hierarchical surface patterning of Ni- and Be-free Ti- and Zr-based bulk metallic glasses by thermoplastic net-shaping. Materials Science and Engineering C, 2017, 73, 398-405.	3.8	25
533	Effect of boron addition on thermal and mechanical properties of Co-Cr-Mo-C-(B) glass-forming alloys. Intermetallics, 2018, 99, 1-7.	1.8	25
534	Mechanical properties of the magnetocaloric intermetallic LaFe11.2Si1.8 alloy at different length scales. Acta Materialia, 2019, 165, 40-50.	3.8	25
535	Remanence enhancement in mechanically alloyed two-phase Nd-Fe-B magnetic material. Materials Letters, 1996, 26, 167-170.	1.3	24
536	Preparation of bulk amorphous Feâ€"Crâ€"Moâ€"Gaâ€"Pâ€"Câ€"B alloys by copper mold casting. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2004, 375-377, 399-402.	2.6	24
537	High strength hexagonal structured dendritic phase reinforced Zrâ€"Tiâ€"Ni bulk alloy with enhanced ductility. Applied Physics Letters, 2006, 88, 201920.	1.5	24
538	Enhancement of plasticity in Ti-rich Tiâ€"Zrâ€"Beâ€"Cuâ€"Niâ€"Ta bulk glassy alloy via introducing the structural inhomogeneity. Journal of Materials Research, 2008, 23, 2984-2989.	1.2	24
539	In situobservations of self-repairing single-walled carbon nanotubes. Physical Review B, 2010, 81, .	1.1	24
540	Mechanical Alloying of Î²â€Type Tiâ€"Nb for Biomedical Applications. Advanced Engineering Materials, 2013, 15, 262-268.	1.6	24

#	Article	IF	Citations
541	Controlled surface modification of Tiâ€“40Nb implant alloy by electrochemically assisted inductively coupled RF plasma oxidation. Acta Biomaterialia, 2013, 9, 9201-9210.	4.1	24
542	Possible Piezoelectric Materials Cs<i>M</i>Zr_{0.5}(MoO₄)₃ (<i>M</i> = Al, Sc, V, Cr, Fe, Ga, In) and CsCrTi_{0.5}(MoO₄)₃: Structure and Physical Properties. Journal of Physical Chemistry C, 2014, 118, 1763-1773.	1.5	24
543	Synthesis and characterization of amorphous Niâ€“Zr thin films. Thin Solid Films, 2014, 561, 48-52.	0.8	24
544	Plastic Flow of a Cu50Zr45Ti5 Bulk Metallic Glass Composite. Journal of Materials Science and Technology, 2014, 30, 609-615.	5.6	24
545	Mechanical behavior and tensile/compressive strength asymmetry of ultrafine structured Tiâ€“Nbâ€“Niâ€“Coâ€“Al alloys with bi-modal grain size distribution. Materials & Design, 2014, 62, 14-20.	5.1	24
546	Structural features of plastic deformation in bulk metallic glasses. Applied Physics Letters, 2015, 106, .	1.5	24
547	Deformation mechanisms to ameliorate the mechanical properties of novel TRIP/TWIP Co-Cr-Mo-(Cu) ultrafine eutectic alloys. Scientific Reports, 2017, 7, 39959.	1.6	24
548	Effect of replacing Nb with (Mo and Zr) on glass forming ability, magnetic and mechanical properties of FeCoBSiNb bulk metallic glass. Journal of Alloys and Compounds, 2017, 707, 78-81.	2.8	24
549	Structure-dynamics relationships in cryogenically deformed bulk metallic glass. Nature Communications, 2022, 13, 127.	5.8	24
550	Thermal and magnetic properties of bulk glass forming Fe-Al-P-C-B-(Ga) alloys. Journal Physics D: Applied Physics, 1999, 32, 855-861.	1.3	23
551	Mechanical Alloying of Bulk Metallic Glass Forming Systems. Materials Science Forum, 1999, 312-314, 3-12.	0.3	23
552	Al-Mn-Ce quasicrystalline composites: Phase formation and mechanical properties. Philosophical Magazine, 2003, 83, 807-825.	0.7	23
553	Improvement of the glass-forming ability of Zr55Cu30Al10Ni5 and Cu47Ti34Zr11Ni8 alloys by electro-deoxidation of the melts. Scripta Materialia, 2006, 55, 87-90.	2.6	23
554	Calorimetric study of the crystallization kinetics ofCu47Ti33Zr11Ni8Si1metallic glass. Physical Review B, 2007, 75, .	1.1	23
555	Thermal stability, microstructure and crystallization kinetics of melt-spun Zr-Ti-Cu-Ni metallic glass. Journal of Alloys and Compounds, 2008, 460, 263-267.	2.8	23
556	Effect of local chemistry, structure and length scale of heterogeneities on the mechanical properties of a Ti45Cu40Ni7.5Zr5Sn2.5 bulk metallic glass. Philosophical Magazine Letters, 2008, 88, 75-81.	0.5	23
557	Favorable microstructural modulation and enhancement of mechanical properties of Tiâ€“Feâ€“Nb ultrafine composites. Philosophical Magazine Letters, 2009, 89, 623-632.	0.5	23
558	FeCo-based multiphase composites with high strength and large plastic deformation. Intermetallics, 2010, 18, 134-139.	1.8	23

#	Article	IF	Citations
559	Currentâ€Induced Mass Transport in Filled Multiwalled Carbon Nanotubes. Advanced Materials, 2011, 23, 541-544.	11.1	23
560	Strain-induced structural transformation of single-phase Alâ€"Cuâ€"Fe icosahedral quasicrystal during mechanical milling. Philosophical Magazine, 2011, 91, 2482-2490.	0.7	23
561	Magnetocaloric effect of an Fe-based metallic glass compared to benchmark gadolinium. Journal of Applied Physics, 2012, 112, .	1.1	23
562	Microstructure and mechanical properties of new composite structured Tiâ€"Vâ€"Alâ€"Cuâ€"Ni alloys for spring applications. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2014, 603, 76-83.	2.6	23
563	Electrochemical oxidation of trivalent chromium in a phosphate matrix: Li3Cr2(PO4)3 as cathode material for lithium ion batteries. Electrochimica Acta, 2014, 139, 356-364.	2.6	23
564	Emulsion soft templating of carbide-derived carbon nanospheres with controllable porosity for capacitive electrochemical energy storage. Journal of Materials Chemistry A, 2015, 3, 17983-17990.	5.2	23
565	Length scale-dependent structural relaxation in Zr57.5Ti7.5Nb5Cu12.5Ni10Al7.5 metallic glass. Journal of Alloys and Compounds, 2015, 639, 465-469.	2.8	23
566	High pressure die casting of Fe-based metallic glass. Scientific Reports, 2016, 6, 35258.	1.6	23
567	Designing new biocompatible glassâ€forming Ti_{75â€}<i>_x</i>Zr₁₀Nb<i>_x</i>Si₁₅ (<i>x</i>â€‰=â€‰0, 15) alloys: corrosion, passivity, and apatite formation. Journal of Biomedical Materials Research - Part B Applied Biomaterials, 2016, 104, 27-38.	1.6	23
568	Micro-to-nano-scale deformation mechanism of a Ti-based dendritic-ultrafine eutectic alloy exhibiting large tensile ductility. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2017, 682, 673-678.	2.6	23
569	Metal release and cell biological compatibility of betaâ€type Tiâ€40Nb containing indium. Journal of Biomedical Materials Research - Part B Applied Biomaterials, 2018, 106, 1686-1697.	1.6	23
570	Analysis of interface impurities in electroplated Cu layers by using GDâ€OES and TOFâ€SIMS. Surface and Interface Analysis, 2008, 40, 418-422.	0.8	22
571	Nanoscale mechanism and intrinsic structure related deformation of Ti-alloys. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2008, 493, 71-78.	2.6	22
572	Effect of Sn on microstructure and mechanical properties of Ti-Fe-(Sn) ultrafine eutectic composites. Journal of Materials Research, 2010, 25, 943-956.	1.2	22
573	Thermal stability and magnetic properties of partially Co-substituted (Fe71.2B24Y4.8)96Nb4 bulk metallic glasses. Journal of Applied Physics, 2011, 109, .	1.1	22
574	Role of crystalline precipitates on the mechanical properties of (Cu0.50Zr0.50)100â^'xAlx (x=4, 5, 7) bulk metallic glasses. Journal of Alloys and Compounds, 2011, 509, S99-S104.	2.8	22
575	Methodological challenges in combining quantum-mechanical and continuum approaches for materials science applications. European Physical Journal Plus, 2011, 126, 1.	1.2	22
576	Solidification and melting of high temperature materials: in situ observations by synchrotron radiation. Journal of Materials Science, 2012, 47, 4497-4513.	1.7	22

#	Article	IF	Citations
577	Functionalised porous nanocomposites: a multidisciplinary approach to investigate designed structures for supercapacitor applications. Journal of Materials Chemistry A, 2013, 1, 4904.	5.2	22
578	Synthesis and Characterization of NanocrystallineMg-7.4%Al Powders Produced by Mechanical Alloying. Metals, 2013, 3, 58-68.	1.0	22
579	Influence of Co and Pd on the formation of nanostructured LaMg2Ni and its hydrogen reactivity. Journal of Alloys and Compounds, 2014, 582, 647-658.	2.8	22
580	Ordering of water in opals with different microstructures. European Journal of Mineralogy, 2015, 27, 203-213.	0.4	22
581	Mechanical and Corrosion Behavior of New Generation Ti-45Nb Porous Alloys Implant Devices. Technologies, 2016, 4, 33.	3.0	22
582	Atomic origin for rejuvenation of a Zr-based metallic glass at cryogenic temperature. Journal of Alloys and Compounds, 2017, 718, 254-259.	2.8	22
583	Influence of testing orientation on mechanical properties of Ti45Nb deformed by high pressure torsion. Materials and Design, 2017, 114, 40-46.	3.3	22
584	Structureâ€"Property Relationships in Shape Memory Metallic Glass Composites. Materials, 2019, 12, 1419.	1.3	22
585	Deformation behavior of designed dual-phase CuZr metallic glasses. Materials and Design, 2019, 168, 107662.	3.3	22
586	New para-magnetic (CoFeNi)50(CrMo)50-(CB) (xâ€‾=â€‾20, 25, 30) non-equiatomic high entropy metallic glasses with wide supercooled liquid region and excellent mechanical properties. Journal of Materials Science and Technology, 2020, 43, 135-143.	5.6	22
587	Effective electrocatalytic methanol oxidation of Pd-based metallic glass nanofilms. Nanoscale, 2020, 12, 22586-22595.	2.8	22
588	Synthesis of multicomponent Fe-based amorphous alloys with significant supercooled liquid region by mechanical alloying. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 1997, 226-228, 425-428.	2.6	21
589	Bulk Nanostructured Multicomponent Alloys. Advanced Engineering Materials, 2001, 3, 41-47.	1.6	21
590	Effect of preparation conditions on the short-range order in Zr-based bulk glass-forming alloys. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2003, 343, 194-198.	2.6	21
591	Effects of oxide particle addition on superconductivity in nanocrystalline MgB2 bulk samples. Physica C: Superconductivity and Its Applications, 2005, 432, 15-24.	0.6	21
592	Characterization of rate-dependent shear behavior of Zr-based bulk metallic glass using shear-punch testing. Journal of Materials Research, 2006, 21, 153-160.	1.2	21
593	Atomic structure evolution in bulk metallic glass under compressive stress. Applied Physics Letters, 2009, 95, .	1.5	21
594	Crystallization kinetics of Zr65Ag5Cu12.5Ni10Al7.5 glassy powders produced by ball milling of pre-alloyed ingots. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2009, 513-514, 279-285.	2.6	21

#	Article	IF	Citations
595	Mechanical properties of coldâ€rolled Zr₆₀Ti₅Ag₅Cu_{12.5}Ni₁₀Al_{7.5} metallic glass. Physica Status Solidi (A) Applications and Materials Science, 2010, 207, 1118-1121.	0.8	21
596	Li(Al_{1â€“<i>z</i>}Zn<i>_z</i>) alloys as anode materials for rechargeable Li-ion batteries. Journal of Materials Research, 2010, 25, 1492-1499.	1.2	21
597	Internal state modulation-mediated plasticity enhancement in monolithic Ti-based bulk metallic glass. Intermetallics, 2012, 29, 70-74.	1.8	21
598	NaAlH4 confined in ordered mesoporous carbon. International Journal of Hydrogen Energy, 2013, 38, 8829-8837.	3.8	21
599	Influence of boron and oxygen on the microstructure and mechanical properties of high-strength Ti66Nb13Cu8Ni6.8Al6.2 alloys. Acta Materialia, 2013, 61, 3324-3334.	3.8	21
600	Determination of the Youngâ€™s modulus of porous ÃŸ-type Tiâ€“40Nb by finite element analysis. Materials & Design, 2014, 64, 1-8.	5.1	21
601	Effect of ball milling on structure and thermal stability of Al84Gd6Ni7Co3 glassy powders. Intermetallics, 2014, 46, 97-102.	1.8	21
602	Thermal stability of B2 CuZr phase, microstructural evolution and martensitic transformation in Cuâ€“Zrâ€“Ti alloys. Intermetallics, 2015, 67, 177-184.	1.8	21
603	Structure evolution of soft magnetic (Fe36Co36B19.2Si4.8Nb4)100â^’Cu (x= 0 and 0.5) bulk glassy alloys. Acta Materialia, 2015, 95, 335-342.	3.8	21
604	Effect of boron on microstructure and mechanical properties of multicomponent titanium alloys. Materials Letters, 2015, 158, 111-114.	1.3	21
605	Viscosity and fragility of the supercooled liquids and melts from the Feâ€“Coâ€“Bâ€“Siâ€“Nb and Feâ€“Moâ€“Pâ€“Câ€“Bâ€“Si glass-forming alloy systems. Intermetallics, 2015, 66, 48-55.	1.8	21
606	Negentropic stabilization of metastable Î²-Ti in bulk metallic glass composites. Scripta Materialia, 2016, 125, 19-23.	2.6	21
607	Structural modifications in sub-Tg annealed CuZr-based metallic glass. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2017, 707, 245-252.	2.6	21
608	Cooperative deformation behavior between the shear band and boundary sliding of an Al-based nanostructure-dendrite composite. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2018, 735, 81-88.	2.6	21
609	Compositional dependence of quasicrystal formation in mechanically alloyed Alî—¸Cuî—¸Mn. Journal of the Less Common Metals, 1990, 167, 143-152.	0.9	20
610	Formation of ODS L12â€“(Al,Cr)3Ti by mechanical alloying. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 1997, 239-240, 652-657.	2.6	20
611	Serrated Plastic Flow in a Zr-based Bulk Metallic Glass During Nanoindentation. Chinese Physics Letters, 2004, 21, 1593-1595.	1.3	20
612	Structure and magnetic properties of hot pressed Co-based powder. Journal of Magnetism and Magnetic Materials, 2004, 278, 373-378.	1.0	20

#	Article	IF	Citations
613	Phase stability and consolidation of glassy/nanostructured Al85Ni9Nd4Co2 alloys. Journal of Materials Research, 2007, 22, 1145-1155.	1.2	20
614	Nanocrystallization at shear bands in bulk metallic glass matrix composites. Scripta Materialia, 2008, 58, 651-654.	2.6	20
615	Crack evolution in bulk metallic glasses. Journal of Applied Physics, 2009, 106, .	1.1	20
616	Thermomechanical characterization of Cu47.5Zr47.5Al5 bulk metallic glass within the homogeneous flow regime. Intermetallics, 2009, 17, 65-71.	1.8	20
617	Coupling effect of primary voids and secondary voids on the ductile fracture of heat-treatable aluminum alloys. Mechanics of Materials, 2011, 43, 556-566.	1.7	20
618	Capillary flow of amorphous metal for high performance electrode. Scientific Reports, 2013, 3, 2185.	1.6	20
619	Roles of hydrogenation, annealing and field in the structure and magnetic entropy change of Tb-based bulk metallic glasses. AIP Advances, 2013, 3, .	0.6	20
620	Deformation and fracture behavior of composite structured Ti-Nb-Al-Co(-Ni) alloys. Applied Physics Letters, 2014, 104, 071905.	1.5	20
621	Phase formation of Cu50â˜'xCoxZr50 (x=0â€"20at.%) alloys: Influence of cooling rate. Journal of Alloys and Compounds, 2014, 590, 428-434.	2.8	20
622	Crystallization kinetics of Co40Fe22Ta8B30 glassy alloy with high thermal stability and soft magnetic properties. Journal of Alloys and Compounds, 2014, 605, 199-207.	2.8	20
623	Investigation of early cellâ€"surface interactions of human mesenchymal stem cells on nanopatterned Î²-type titaniumâ€"niobium alloy surfaces. Interface Focus, 2014, 4, 20130046.	1.5	20
624	Layered-to-Tunnel Structure Transformation and Oxygen Redox Chemistry in LiRhO2 upon Li Extraction and Insertion. Inorganic Chemistry, 2016, 55, 7079-7089.	1.9	20
625	Reentrant spin-glass behavior and bipolar exchange-bias effect in â€œSnâ€•substituted cobalt-orthotitanate. Journal of Applied Physics, 2016, 119, .	1.1	20
626	Effect of reinforcement phase on the mechanical property of tungsten nanocomposite synthesized by spark plasma sintering. International Journal of Refractory Metals and Hard Materials, 2016, 54, 14-18.	1.7	20
627	Tuning the glass forming ability and mechanical properties of Ti-based bulk metallic glasses by Ga additions. Journal of Alloys and Compounds, 2019, 793, 552-563.	2.8	20
628	Interdiffusion reaction, phase sequence, and glass formation in Ni-Zr composites. Journal of Materials Research, 1991, 6, 1874-1885.	1.2	19
629	Mechanically alloyed Zr-Ti-Cu-Ni amorphous alloys with significant supercooled liquid region. Materials Letters, 1995, 23, 299-304.	1.3	19
630	Short-range order in bulk Zr- and Hf-based amorphous alloys. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2000, 278, 16-21.	2.6	19

#	Article	IF	Citations
631	Phase transformation and mechanical properties of Zr-base bulk glass-forming alloys. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2003, 352, 179-185.	2.6	19
632	Glass-forming ability and crystallization behavior of Tiâ€"Cuâ€"Niâ€"Snâ€"M (M=Zr, Mo, and Ta) metallic glasses. Journal of Applied Physics, 2004, 95, 1816-1821.	1.1	19
633	Superconducting properties of nanocrystalline MgB2. Superconductor Science and Technology, 2006, 19, 912-915.	1.8	19
634	Fe65.5Cr4Mo4Ga4P12C5B5.5 BMGs: Sample preparation, thermal stability and mechanical properties. Journal of Alloys and Compounds, 2007, 434-435, 171-175.	2.8	19
635	Deformation behavior of a Ti66Cu8Ni4.8Sn7.2Nb14 nanostructured composite containing ductile dendrites. Journal of Alloys and Compounds, 2007, 434-435, 13-17.	2.8	19
636	Tailoring of in situ Ti-based bulk glassy matrix composites with high mechanical performance. Intermetallics, 2010, 18, 1908-1911.	1.8	19
637	Atomic cluster arrangements in Reverse Monte Carlo and Molecular Dynamics structural models of binary Cuâ€"Zr Metallic Glasses. Intermetallics, 2011, 19, 657-661.	1.8	19
638	Sputter crater formation in the case of microsecond pulsed glow discharge in a Grimm-type source. Comparison of direct current and radio frequency modes. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2012, 76, 181-189.	1.5	19
639	Structural and magnetic nanoclusters in Cu50Zr50â^'xGdx (x=5at.%) metallic glasses. Acta Materialia, 2012, 60, 1946-1956.	3.8	19
640	Microstructural and mechanical characterization of an ultra-high-strength Fe86.7Cr4.4Mo0.6V1.1W2.5C4.7 alloy. Journal of Materials Science, 2012, 47, 267-271.	1.7	19
641	Formation of new Cu-based nanocrystalline powders by mechanical alloying technique. Powder Technology, 2013, 247, 172-177.	2.1	19
642	Various sizes of sliding event bursts in the plastic flow of metallic glasses based on a spatiotemporal dynamic model. Journal of Applied Physics, 2014, 116, .	1.1	19
643	Deformation-Induced Martensitic Transformation in Cu-Zr-Zn Bulk Metallic Glass Composites. Metals, 2015, 5, 2134-2147.	1.0	19
644	Crystallization Kinetics of Fe76.5â^'x C6.0Si3.3B5.5P8.7Cu x (xÂ=Â0, 0.5, and 1Âat.Âpct) Bulk Amorphous Alloy. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2015, 46, 2415-2421.	1.1	19
645	Tungsten/molybdenum thin films for application as interdigital transducers on high temperature stable piezoelectric substrates La3Ga5SiO14 and Ca3TaGa3Si2O14. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2015, 202, 31-38.	1.7	19
646	Comparing the pitting corrosion behavior of prominent Zr-based bulk metallic glasses. Journal of Materials Research, 2015, 30, 233-241.	1.2	19
647	Influencing the crystallization of Fe80Nb10B10 metallic glass by ball milling. Journal of Alloys and Compounds, 2017, 725, 227-236.	2.8	19
648	Influence of annealing on microstructure and mechanical properties of ultrafine-grained Ti45Nb. Materials and Design, 2019, 179, 107864.	3.3	19

#	Article	IF	Citations
649	Effect of mechanically induced structural rejuvenation on the deformation behaviour of CuZr based bulk metallic glass. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2020, 773, 138848.	2.6	19
650	Surface Functionalization of Biomedical Ti-6Al-7Nb Alloy by Liquid Metal Dealloying. Nanomaterials, 2020, 10, 1479.	1.9	19
651	Comparison of glass formation by mechanical alloying and solid-state interdiffusion in Niî—‚Zr composites. Journal of Non-Crystalline Solids, 1991, 130, 273-286.	1.5	18
652	Solid State Processing of Bulk Metallic Glass Forming Alloys. Materials Science Forum, 1997, 235-238, 23-28.	0.3	18
653	Formation of quasicrystals by partial devitrification of ball-milled amorphous Zr57Ti8Nb2.5Cu13.9Ni11.1Al7.5. Applied Physics Letters, 2003, 83, 2345-2347.	1.5	18
654	Formation of a metastable eutectic during the solidification of the alloy Ti60Cu14Ni12Sn4Ta10. Acta Materialia, 2005, 53, 5141-5149.	3.8	18
655	Mechanical properties and fracture behavior of the modified Ti-base bulk metallic glass-forming alloys. Materials Letters, 2006, 60, 656-661.	1.3	18
656	Formation of icosahedral phase in an Al93Fe3Cr2Ti2 bulk alloy. Journal of Alloys and Compounds, 2007, 436, L1-L4.	2.8	18
657	Changes in short-range order of Zr55Cu30Al10Ni5 and Zr55Cu20Al10Ni10Ti5 BMGs upon annealing. Journal of Alloys and Compounds, 2010, 506, 85-87.	2.8	18
658	Electrical properties of the Âµs pulsed glow discharge in a Grimm-type source: comparison of dc and rf modes. Journal of Analytical Atomic Spectrometry, 2011, 26, 784-791.	1.6	18
659	Phase separation and microstructure evolution of rapidly quenched Gdâ€“Hfâ€“Coâ€“Al alloys. Journal of Alloys and Compounds, 2011, 509, S42-S45.	2.8	18
660	Ti-Al Composite Wires with High Specific Strength. Metals, 2011, 1, 79-97.	1.0	18
661	Electrochemical micromachining of passive electrodes. Electrochimica Acta, 2013, 109, 562-569.	2.6	18
662	Thermal stability of amorphous oxide in Al87Ni3Y10 metallic glass. Corrosion Science, 2013, 77, 1-5.	3.0	18
663	Microstructure, electrical resistivity and stresses in sputter deposited W and Mo films and the influence of the interface on bilayer properties. Thin Solid Films, 2014, 571, 1-8.	0.8	18
664	Improving the glass-forming ability and plasticity of a TiCu-based bulk metallic glass composite by minor additions of Si. Journal of Alloys and Compounds, 2016, 663, 531-539.	2.8	18
665	Structural, elastic and electronic properties of CoZr in B2 and B33 structures under high pressure. Journal of Alloys and Compounds, 2017, 705, 445-455.	2.8	18
666	High strength nanostructured Al-based alloys through optimized processing of rapidly quenched amorphous precursors. Scientific Reports, 2018, 8, 1090.	1.6	18

#	Article	IF	Citations
667	Characteristics of Slowly Cooled Zr-Al-Cu-Ni Bulk Samples with Different Oxygen Content. Materials Science Forum, 1998, 269-272, 797-806.	0.3	17
668	Structural behavior of Zr52Ti5Cu18Ni15Al10 bulk metallic glass at high temperatures. Applied Physics Letters, 2002, 80, 4525-4527.	1.5	17
669	Effect of surface pretreatment on the electrochemical activity of a glass-forming Zrâ€"Tiâ€"Alâ€"Cuâ€"Ni alloy. Journal of Alloys and Compounds, 2002, 346, 222-229.	2.8	17
670	Processing dependence of Young's modulus of Ti-base nanostructured alloys. Solid State Communications, 2004, 129, 711-715.	0.9	17
671	Shear and distensile fracture behaviour of Ti-based composites with ductile dendrites. Philosophical Magazine, 2005, 85, 897-915.	0.7	17
672	Revisiting the Cu47Ti33Zr11Ni8Si1 glass-forming alloy. Scripta Materialia, 2006, 54, 835-840.	2.6	17
673	Consolidation and mechanical properties of ball milled Zr50Cu50 glassy ribbons. Journal of Alloys and Compounds, 2009, 483, 227-230.	2.8	17
674	Correlation between Poisson ratio and Mohrâ€"Coulomb coefficient in metallic glasses. Journal of Alloys and Compounds, 2009, 483, 125-131.	2.8	17
675	Effect of minor Cu addition on phase evolution and magnetic properties of {[(Fe_{0.5}Co_{0.5})_{0.75}Si_{0.05}B_{0.20}]_{0.96}Nb<sub>0.04</sub Journal of Physics: Conference Series, 2009, 144, 012042.	0.8	17
676	Mechanical response of metallic glasses: Insights from in-situ high energy X-ray diffraction. Jom, 2010, 62, 76-82.	0.9	17
677	In situ observations of fullerene fusion and ejection in carbon nanotubes. Nanoscale, 2010, 2, 2077.	2.8	17
678	Study of the Conversion Reaction Mechanism for Copper Borate as Electrode Material in Lithium-Ion Batteries. Journal of the Electrochemical Society, 2011, 158, A898.	1.3	17
679	Evolution of constitution, structure, and mechanical properties in Feâ€"Tiâ€"Zrâ€"B heterogeneous multiphase composites. Journal of Materials Research, 2011, 26, 365-371.	1.2	17
680	Replacement of oxide glass with metallic glass for Ag screen printing metallization on Si emitter. Applied Physics Letters, 2011, 98, 222112.	1.5	17
681	The effect of boron on microstructure and mechanical properties of high-strength cast FeCrVC. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2013, 586, 267-275.	2.6	17
682	Thickness dependent exchange bias in martensitic epitaxial Ni-Mn-Sn thin films. AIP Advances, 2013, 3, .	0.6	17
683	B1â€Mobilstor: Materials for Sustainable Energy Storage Techniques â€" Lithium Containing Compounds for Hydrogen and Electrochemical Energy Storage. Advanced Engineering Materials, 2014, 16, 1189-1195.	1.6	17
684	Structure of rapidly quenched (Cu0.5Zr0.5)100â^'Ag alloys (x= 0â€"40 at.%). Journal of Alloys and Compounds, 2014, 607, 285-290.	2.8	17

#	Article	IF	Citations
685	Microstructural Evolution and Mechanical Behaviour of Metastable Cuâ€“Zrâ€“Co Alloys. Journal of Materials Science and Technology, 2014, 30, 584-589.	5.6	17
686	Glow discharge plasma as a surface preparation tool for microstructure investigations. Materials Characterization, 2014, 91, 76-88.	1.9	17
687	Mechanical and Structural Investigation of Porous Bulk Metallic Glasses. Metals, 2015, 5, 920-933.	1.0	17
688	Towards the Better: Intrinsic Property Amelioration in Bulk Metallic Glasses. Scientific Reports, 2016, 6, 27271.	1.6	17
689	Thermomechanical processing of In-containing Î²-type Ti-Nb alloys. Journal of the Mechanical Behavior of Biomedical Materials, 2018, 79, 283-291.	1.5	17
690	Estimation of diffusivity from densification data obtained during spark plasma sintering. Scripta Materialia, 2019, 161, 36-39.	2.6	17
691	High remanence Ndî—‚Feî—‚Bî—‚X (X = Cu, Si, Nb3 Cu, Zr) powders by mechanical alloying. Journal of Magnetism and Magnetic Materials, 1996, 157-158, 61-62.	1.0	16
692	Preparation of bulk Nd2Fe14B/Fe3B nanocomposite magnets with high rare earth content. Intermetallics, 2008, 16, 341-344.	1.8	16
693	High strength porous Tiâ€“6Alâ€“4V foams synthesized by solid state powder processing. Journal Physics D: Applied Physics, 2008, 41, 105404.	1.3	16
694	Synthesis and morphological stability in CrO₂single crystals of a half-metallic ferromagnetic compound. Journal of Physics: Conference Series, 2009, 144, 012110.	0.3	16
695	Microstructure and mechanical properties of partially amorphous Al85Y8Ni5Co2 plate produced by spray forming. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2010, 527, 2747-2758.	2.6	16
696	Enhanced Ï€-Ï€ interactions between a C60 fullerene and a buckle bend on a double-walled carbon nanotube. Nano Research, 2010, 3, 92-97.	5.8	16
697	Transformation-induced plasticity in Feâ€“Crâ€“Vâ€“C. Journal of Materials Research, 2010, 25, 368-374.	1.2	16
698	[(Fe0.5Co0.5)0.75B0.20Si0.05]96Nb4 Metallic Glasses with Small Cu Additions. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2011, 42, 1476-1480.	1.1	16
699	Structural Changes in the LiCrMnO4Cathode Material during Electrochemical Li Extraction and Insertion. Journal of the Electrochemical Society, 2013, 160, A3082-A3089.	1.3	16
700	Ab initio based study of finite-temperature structural, elastic and thermodynamic properties of FeTi. Intermetallics, 2014, 45, 11-17.	1.8	16
701	Evaluation of a mobile vacuum transfer system for in vacuo XPS analysis using as-deposited Ti thin-films. Vacuum, 2015, 117, 81-84.	1.6	16
702	Designed heterogeneities improve the fracture reliability of a Zr-based bulk metallic glass. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2015, 646, 242-248.	2.6	16

#	Article	IF	Citations
703	Tungsten as a Chemically-Stable Electrode Material on Ga-Containing Piezoelectric Substrates Langasite and Catangasite for High-Temperature SAW Devices. Materials, 2016, 9, 101.	1.3	16
704	Ti/Al Multi-Layered Sheets: Accumulative Roll Bonding (Part A). Metals, 2016, 6, 30.	1.0	16
705	Local melting to design strong and plastically deformable bulk metallic glass composites. Scientific Reports, 2017, 7, 42518.	1.6	16
706	Micropatterning kinetics of different glass-forming systems investigated by thermoplastic net-shaping. Scripta Materialia, 2017, 137, 127-131.	2.6	16
707	Rapid fabrication of function-structure-integrated NiTi alloys: Towards a combination of excellent superelasticity and favorable bioactivity. Intermetallics, 2017, 82, 1-13.	1.8	16
708	Powder metallurgical processing of low modulus Î²-type Ti-45Nb to bulk and macro-porous compacts. Powder Technology, 2017, 322, 393-401.	2.1	16
709	Exceptional fracture resistance of ultrathin metallic glass films due to an intrinsic size effect. Scientific Reports, 2019, 9, 8281.	1.6	16
710	Mechanochemical synthesis and hydrogenation behavior of (TiFe)100-xNix alloys. Journal of Alloys and Compounds, 2019, 796, 42-46.	2.8	16
711	Ultrahigh hydrogen-sorbing palladium metallic-glass nanostructures. Materials Horizons, 2019, 6, 1481-1487.	6.4	16
712	In situ high-energy X-ray diffraction study of thermally-activated martensitic transformation far below room temperature in CuZr-based bulk metallic glass composites. Journal of Alloys and Compounds, 2020, 841, 155781.	2.8	16
713	Non-isothermal crystallization kinetics of a Feâ€“Crâ€“Moâ€“Bâ€“C amorphous powder. Journal of Alloys and Compounds, 2020, 823, 153783.	2.8	16
714	Composite of medium entropy alloys synthesized using spark plasma sintering. Scripta Materialia, 2021, 191, 46-51.	2.6	16
715	Transition metal-based high entropy alloy microfiber electrodes: Corrosion behavior and hydrogen activity. Corrosion Science, 2021, 193, 109880.	3.0	16
716	Incipient chemical instabilities of nanophase Fe-Cu alloys prepared by mechanical alloying. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 1996, 27, 2934-2946.	1.1	15
717	Magnetic properties of Ndâ€“Feâ€“Co(Cu)â€“Alâ€“B amorphous alloys prepared by nonequilibrium techniques. Journal of Applied Physics, 2002, 91, 3764-3768.	1.1	15
718	Mechanically alloyed Zrâ€“Cuâ€“Alâ€“Niâ€“C glassy powders. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2004, 375-377, 804-808.	2.6	15
719	Elevated Temperature Deformation Behavior of Zr-Based Bulk Metallic Glasses. Advanced Engineering Materials, 2005, 7, 833-841.	1.6	15
720	On the fragility of Cu47Ti33Zr11Ni8Si1metallic glass. Journal Physics D: Applied Physics, 2006, 39, 2600-2608.	1.3	15

#	Article	IF	Citations
721	Influence of sub-Tg annealing on the crystallization kinetics of Cu47Ti33Zr11Ni8Si1 metallic glass. Journal of Applied Physics, 2008, 104, .	1.1	15
722	Crystallization and magnetic properties of [(Fe,Co)_{0.75}Si_{0.05}B_{0.20}]₉₄Nb₆metallic glasses. Journal Physics D: Applied Physics, 2009, 42, 085006.	1.3	15
723	In situ high-energy x-ray diffraction observation of structural evolution in a Ti-based bulk metallic glass upon heating. Journal of Materials Research, 2010, 25, 2271-2277.	1.2	15
724	Irreversible and reversible magnetic entropy change in a Dy-based bulk metallic glass. Intermetallics, 2012, 30, 76-79.	1.8	15
725	Microstructure and magnetic properties of Gdâ€“Hfâ€“Coâ€“Al phase separated metallic glasses. Intermetallics, 2012, 20, 115-122.	1.8	15
726	Effect of Cobalt on Phase Formation, Microstructure, and Mechanical Properties of Cu50âˆ’xCoxZr50 (xÂ=Â2, 5, 10, 20Âat.Âpct) Alloys. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2012, 43, 2631-2636.	1.1	15
727	Liquidâ€“liquid demixing and microstructure of Coâ€“Cuâ€“Zr alloys with low Zr content. Intermetallics, 2013, 32, 250-258.	1.8	15
728	Synthesis of nanostructured AlN by solid state reaction of Al and diaminomaleonitrile. Journal of Solid State Chemistry, 2013, 198, 542-547.	1.4	15
729	Electrochemical Deposition of Co(Cu)/Cu Multilayered Nanowires. Journal of the Electrochemical Society, 2013, 160, D13-D19.	1.3	15
730	Processing of Intermetallic Titanium Aluminide Wires. Metals, 2013, 3, 188-201.	1.0	15
731	FeCoSiBNbCu bulk metallic glass with large compressive deformability studied by time-resolved synchrotron X-ray diffraction. Journal of Applied Physics, 2014, 115, 053520.	1.1	15
732	Chemical vapor deposition of twisted bilayer and few-layer MoSe₂over SiO_{<i>x</i>}substrates. Nanotechnology, 2014, 25, 365603.	1.3	15
733	Mechanochemical synthesis of nanostructured metal nitrides, carbonitrides and carbon nitride: a combined theoretical and experimental study. Physical Chemistry Chemical Physics, 2017, 19, 12414-12424.	1.3	15
734	Hardening of shear band in metallic glass. Scientific Reports, 2017, 7, 7076.	1.6	15
735	Anisotropic elastic properties and phase stability of B2 and B19 CuZr structures under hydrostatic pressure. Intermetallics, 2018, 98, 60-68.	1.8	15
736	Wetting, reactivity, and phase formation at interfaces between Niâ€“Al melts and TiB₂ ultrahighâ€temperature ceramic. Journal of the American Ceramic Society, 2018, 101, 911-918.	1.9	15
737	The preparation of surfactant-free highly dispersed ethylene glycol-based aluminum nitride-carbon nanofluids for heat transfer application. Advanced Powder Technology, 2019, 30, 2032-2041.	2.0	15
738	Effects of new beta-type Ti-40Nb implant materials, brain-derived neurotrophic factor, acetylcholine and nicotine on human mesenchymal stem cells of osteoporotic and non osteoporotic donors. PLoS ONE, 2018, 13, e0193468.	1.1	15

#	ARTICLE	IF	CITATIONS
739	Mg-based amorphous alloys with extended supercooled liquid region produced by mechanical alloying. Journal of Non-Crystalline Solids, 1996, 205-207, 514-517.	1.5	14
740	Nanocrystalline CaO and ZrC as a Second Phase in Amorphous Zr-Cu-Al-Ni Matrix Composites. Materials Science Forum, 2001, 360-362, 85-90.	0.3	14
741	Stability of the Mg₆₅Y₁₀Cu₁₅Ag₁₀metallic glass in neutral and weakly acidic media. Journal of Materials Research, 2003, 18, 97-105.	1.2	14
742	Structural behavior and glass transition of bulk metallic glasses. Journal of Non-Crystalline Solids, 2004, 345-346, 758-761.	1.5	14
743	Heterogeneous distribution of shear strains in deformed Ti66.1Cu8Ni4.8Sn7.2Nb13.9nanostructure-dendrite composite. Physica Status Solidi (A) Applications and Materials Science, 2005, 202, 2405-2412.	0.8	14
744	Glass-forming ability and fragility parameter of amorphous Fe67Co9.5Nd3Dy0.5B20. Journal of Applied Physics, 2006, 100, 023501.	1.1	14
745	Nanocrystallization of gas atomized Cu47Ti33Zr11Ni8Si1 metallic glass. Journal of Materials Research, 2006, 21, 597-607.	1.2	14
746	Severe plastic deformation of a Ti-based nanocomposite alloy studied by nanoindentation. Intermetallics, 2007, 15, 1038-1045.	1.8	14
747	Phase diagram studies on Er2PdSi3 and ErPd2Si2 intermetallic compounds. Journal of Alloys and Compounds, 2008, 454, 221-227.	2.8	14
748	On the structural relaxation of bulk metallic glass under warm deformation. Intermetallics, 2009, 17, 222-226.	1.8	14
749	Role of heterogeneity on deformation behavior of bulk metallic glasses. Journal of Alloys and Compounds, 2009, 486, 233-236.	2.8	14
750	Microstructural Modulations Enhance the Mechanical Properties in Alâ€"Cuâ€"(Si, Ga) Ultrafine Composites. Advanced Engineering Materials, 2010, 12, 1137-1141.	1.6	14
751	Improved Room Temperature Plasticity of Zr_{41.2}Ti_{13.8}Cu_{12.5}Ni₁₀Be_{22.5} Bulk Metallic Glass by Channelâ€Ðie Compression. Advanced Engineering Materials, 2010, 12, 1123-1126.	1.6	14
752	Effect of prestraining on the deformation and fracture behavior of Zr44Ti11Cu9.8Ni10.2Be25. Intermetallics, 2010, 18, 1902-1907.	1.8	14
753	Epitaxial Electrodeposition of Fe₃O₄ on Single-Crystal Ni(111). Chemistry of Materials, 2011, 23, 2017-2019.	3.2	14
754	Structural study of AsS2â€"Ag glasses over a wide concentration range. Journal of Non-Crystalline Solids, 2011, 357, 3430-3434.	1.5	14
755	Experimental and thermodynamic assessment of the Gdâ€"Zr system. Calphad: Computer Coupling of Phase Diagrams and Thermochemistry, 2012, 39, 27-32.	0.7	14
756	Study on the reversible Li-insertion of amorphous and partially crystalline Al86Ni8La6 and Al86Ni8Y6 alloys as anode materials for Li-ion batteries. Electrochimica Acta, 2012, 60, 85-94.	2.6	14

#	Article	IF	Citations
757	Structural behaviour of Pd40Cu30Ni10P20 metallic glass under high pressure. Intermetallics, 2013, 38, 9-13.	1.8	14
758	Glass forming ability, thermal stability, crystallization and magnetic properties of [(Fe,Co,Ni)0.75Si0.05B0.20]95Nb4Zr1 metallic glasses. Journal of Non-Crystalline Solids, 2013, 367, 30-36.	1.5	14
759	Mechanically driven phase transformation in single phase Al62.5Cu25Fe12.5 quasi-crystals: Effect of milling intensity. Acta Materialia, 2013, 61, 3819-3830.	3.8	14
760	Glass-forming ability and microstructural evolution of [(Fe0.6Co0.4)0.75Si0.05B0.20]96-xNb4Mx metallic glasses studied by MÃ¶ssbauer spectroscopy. Journal of Alloys and Compounds, 2017, 704, 748-759.	2.8	14
761	Reciprocating sliding wear behavior of high-strength nanocrystalline Al 84 Ni 7 Gd 6 Co 3 alloys. Wear, 2017, 382-383, 78-84.	1.5	14
762	Powder metallurgy of Al-based composites reinforced with Fe-based glassy particles: Effect of microstructural modification. Particulate Science and Technology, 2019, 37, 286-291.	1.1	14
763	Structural Properties and Compositional Dependence of Grain Size in Heavily Mechanically Deformed Nanophase NiAl. Materials Science Forum, 1996, 225-227, 377-382.	0.3	13
764	Domain studies on mechanically alloyed Fe-Zr-B-Cu-nanocrystalline powder. IEEE Transactions on Magnetics, 1996, 32, 4383-4385.	1.2	13
765	Magnetic properties of Nd60â^'xYxFe30Al10 (x=0,10,30) melt-spun ribbons containing two amorphous magnetic phases. Journal of Applied Physics, 2002, 91, 9267-9271.	1.1	13
766	Load relaxation behavior of a Zr41.2Ti13.8Cu12.5Ni10 Be22.5 bulk metallic glass. Journal of Non-Crystalline Solids, 2007, 353, 2515-2520.	1.5	13
767	trans-W(Cmesityl)(dmpe)2H:â€‰ Revealing a Highly Polar Wâ^'H Bond and H-Mobility in Liquid and Solid State. Journal of the American Chemical Society, 2007, 129, 7195-7205.	6.6	13
768	New Feâ€"Crâ€"Moâ€"Gaâ€"C composites with high compressive strength and large plasticity. Acta Materialia, 2007, 55, 3513-3520.	3.8	13
769	Deformation-induced grain refinement in body-centered cubic Coâ€"Fe alloys upon room temperature compression. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2010, 527, 5796-5800.	2.6	13
770	New real ternary and pseudoternary phases in the Liâ€"Auâ€"In system. Journal of Solid State Chemistry, 2011, 184, 1328-1332.	1.4	13
771	Enhanced plasticity of Feâ€"Nbâ€"Bâ€"(Ni, Cu) bulk metallic glasses by controlling the heterogeneity and elastic constants. Journal of Alloys and Compounds, 2012, 536, S70-S73.	2.8	13
772	Structural investigations of Ge₅As_{<i>x</i>}Se_{95â^'<i>x</i>}and Ge₁₅As_{<i>x</i>}Se_{85â^'<i>x</i>}glasses using x-ray diffraction and extended x-ray fine structure spectroscopy. Journal of Physics Condensed Matter, 2012, 24, 385802.	0.7	13
773	DSC, XRD and TEM characterization of glassy Co40Fe22Ta8B30 alloy with very high thermal stability. Materials Letters, 2013, 93, 322-325.	1.3	13
774	Investigation of Copper-Cobalt-Oxides as Model Systems for Composite Interactions in Conversion-Type Electrodes for Lithium-Ion Batteries. Journal of the Electrochemical Society, 2013, 160, A1333-A1339.	1.3	13

#	Article	IF	Citations
775	Retarding the corrosion of iron by inhomogeneous magnetic fields. Materials and Corrosion - Werkstoffe Und Korrosion, 2014, 65, 803-808.	0.8	13
776	Room Temperature in Situ Growth of B/BO_{<i>x</i>} Nanowires and BO_{<i>x</i>} Nanotubes. Nano Letters, 2014, 14, 799-805.	4.5	13
777	In situ studies of temperature-dependent behaviour and crystallisation of Ni36.5Pd36.5P27 metallic glass. Journal of Alloys and Compounds, 2014, 615, S208-S212.	2.8	13
778	Metallic glassâ€“steel composite with improved compressive plasticity. Materials & Design, 2014, 59, 241-245.	5.1	13
779	Challenges for lithium species identification in complementary Auger and X-ray photoelectron spectroscopy. Journal of Power Sources, 2015, 288, 434-440.	4.0	13
780	Effect of substrate material on the growth and field emission characteristics of large-area carbon nanotube forests. Journal of Applied Physics, 2016, 119, .	1.1	13
781	Designing a novel functional-structural NiTi/hydroxyapatite composite with enhanced mechanical properties and high bioactivity. Intermetallics, 2017, 84, 35-41.	1.8	13
782	Structural modification through pressurized sub-T<i>g</i> annealing of metallic glasses. Journal of Applied Physics, 2017, 122, .	1.1	13
783	Dual self-organised shear banding behaviours and enhanced ductility in phase separating Zr-based bulk metallic glasses. Philosophical Magazine, 2018, 98, 1744-1764.	0.7	13
784	Pressure-assisted sintering of Alâ€“Gdâ€“Niâ€“Co amorphous alloy powders. Materialia, 2018, 2, 157-166.	1.3	13
785	Stability of the B2 CuZr phase in Cu-Zr-Al-Sc bulk metallic glass matrix composites. Journal of Alloys and Compounds, 2019, 790, 657-665.	2.8	13
786	Annealing-assisted high-pressure torsion in Zr55Cu30Al10Ni5 metallic glass. Journal of Alloys and Compounds, 2019, 784, 1323-1333.	2.8	13
787	Microstructures, Mechanical Properties, and Corrosion Behaviors of Refractory High-Entropy ReTaWNbMo Alloys. Journal of Materials Engineering and Performance, 2020, 29, 399-409.	1.2	13
788	Mapping Shear Bands in Metallic Glasses: From Atomic Structure to Bulk Dynamics. Physical Review Letters, 2022, 128, .	2.9	13
789	Comparison of solid-state amorphization by mechanical alloying and interdiffusion in Niî—,Zr. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 1991, 134, 1389-1393.	2.6	12
790	Mechanically alloyed Fe-Zr-(B,Cu) alloys: effect of composition and heat treatment on the microstructure and the magnetic properties. Journal of Non-Crystalline Solids, 1996, 205-207, 620-623.	1.5	12
791	Co-based soft magnetic bulk amorphous ferromagnets prepared by powder consolidation. Physica Status Solidi A, 2003, 199, 299-304.	1.7	12
792	High density nanocrystalline MgB/sub 2/ bulk superconductors with improved pinning. IEEE Transactions on Applied Superconductivity, 2003, 13, 3064-3067.	1.1	12

#	Article	IF	Citations
793	Mechanism of internal friction in bulk Zr65Cu17.5Ni10Al7.5 metallic glass. Physical Review B, 2004, 70, .	1.1	12
794	Devitrification and phase transformation of (Ti0.5Cu0.25Ni0.15Sn0.05Zr0.05)100âˆ’xMox metallic glasses. Scripta Materialia, 2004, 50, 7-11.	2.6	12
795	Magnetic properties of bulk amorphous FeAlGaPCBSi samples prepared by ball-milling and subsequent hot pressing. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2004, 375-377, 265-269.	2.6	12
796	Hard magnetic properties of bulk amorphous Nd60Fe20Co10Al10 investigated by SANSPOL. Physica B: Condensed Matter, 2004, 350, E315-E318.	1.3	12
797	Synthesis of (Al65Cu20Fe15)100âˆ’xSix quasicrystalline alloys by mechanical alloying. Journal of Non-Crystalline Solids, 2004, 334-335, 44-47.	1.5	12
798	Phase Separation and Crystallization in Cu-Zr Metallic Glasses. Materials Transactions, 2007, 48, 1639-1643.	0.4	12
799	Electrode characteristics of two-phase glass-forming Niâ€“Nbâ€“Y alloys. Intermetallics, 2007, 15, 1183-1189.	1.8	12
800	Formation of Nanocrystalline Matrix Composite during Spray Forming of Al83La5Y5Ni5Co2. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2009, 40, 450-461.	1.1	12
801	Work-hardening mechanisms of the Ti₆₀Cu₁₄Ni₁₂Sn₄Nb₁₀ nanocomposite alloy. Journal of Materials Research, 2009, 24, 3146-3153.	1.2	12
802	Viscosity of the supercooled liquid in multi-component Zr-based metallic glasses. Journal of Physics: Conference Series, 2009, 144, 012097.	0.3	12
803	Glass formation, thermal properties, and elastic constants of Laâ€“Alâ€“Co alloys. Journal of Materials Research, 2010, 25, 1398-1404.	1.2	12
804	Corrosion and pitting behaviour of ultrafine eutectic Tiâ€“Feâ€“Sn alloys. Journal of Alloys and Compounds, 2010, 503, 19-24.	2.8	12
805	The influence of in situ formed precipitates on the plasticity of Feâ€“Nbâ€“Bâ€“Cu bulk metallic glasses. Journal of Materials Research, 2011, 26, 2080-2086.	1.2	12
806	Rapid Manufacturing of Cellular Structures of Steel or Titaniumalumide. Materials Science Forum, 0, 690, 103-106.	0.3	12
807	Micropatterning of Fe-based bulk metallic glass surfaces by pulsed electrochemical micromachining. Journal of Materials Research, 2012, 27, 3033-3040.	1.2	12
808	Microstructure and magnetic properties of soft magnetic composites based on silicon resin coated Co40Fe22Ta8B30 glassy powders. Intermetallics, 2013, 43, 1-7.	1.8	12
809	Structure of GP zones in Alâ€“Si matrix composites solidified under high pressure. Materials Letters, 2013, 109, 1-4.	1.3	12
810	Grain size softening effect in Al_{62.5}Cu₂₅Fe_{12.5} nanoquasicrystals. Applied Physics Letters, 2013, 103, 201914.	1.5	12

#	Article	IF	Citations
811	Naâ€“Sbâ€“Sn ternary phase diagram at room temperature for potential anode materials in sodium-ion batteries. Solid State Ionics, 2014, 268, 261-264.	1.3	12
812	Polarization Studies of Zr-Based Bulk Metallic Glasses for Electrochemical Machining. Journal of the Electrochemical Society, 2014, 161, E66-E73.	1.3	12
813	Microstructure evolution of gas-atomized Feâ€“6.5 wt% Si droplets. Journal of Materials Research, 2014, 29, 527-534.	1.2	12
814	Magnetic field templated patterning of the soft magnetic alloy CoFe. Electrochimica Acta, 2014, 123, 477-484.	2.6	12
815	Thermal and soft magnetic properties of Co40Fe22Ta8B30 glassy particles: <i>In-situ</i> X-ray diffraction and magnetometry studies. Journal of Applied Physics, 2014, 116, .	1.1	12
816	Processing of High Strength Lightâ€Weight Metallic Composites. Advanced Engineering Materials, 2014, 16, 1208-1216.	1.6	12
817	Stress corrosion cracking of a Zr-based bulk metallic glass. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2015, 639, 681-690.	2.6	12
818	Influence of annealing on microstructure and magnetic properties of cobalt-based amorphous/nanocrystalline powders synthesized by mechanical alloying. Journal of Alloys and Compounds, 2015, 632, 296-302.	2.8	12
819	Enhancement of glass-forming ability and mechanical behavior of zirconiumâ€“lanthanide two-phase bulk metallic glasses. Journal of Alloys and Compounds, 2015, 618, 795-802.	2.8	12
820	Microstructure and thermal conductivity of hypereutectic Al-high Si produced by casting and spray deposition. Journal of Materials Research, 2016, 31, 2948-2955.	1.2	12
821	Interfacial interactions between liquid Tiâ€“Al alloys and TiB2 ceramic. Journal of Materials Science, 2016, 51, 1779-1787.	1.7	12
822	Thermal expansion behavior of Alâ€“xSi alloys fabricated using selective laser melting. Progress in Additive Manufacturing, 2020, 5, 247-257.	2.5	12
823	Formation and Stability of Bulk Metallic Glass Forming Mg-Y-Cu Alloys Produced by Mechanical Alloying and Rapid Quenching. Materials Science Forum, 1998, 269-272, 761-766.	0.3	11
824	Synthesis and Properties of Mechanically Alloyed and Ball Milled High Strength Amorphous or Quasicrystalline Al-Alloys. Materials Science Forum, 1999, 312-314, 49-54.	0.3	11
825	Properties of Mg-Y-Cu glasses with nanocrystalline particles. Scripta Materialia, 1999, 12, 127-130.	0.5	11
826	Nanophase composites in easy glass forming systems. Scripta Materialia, 1999, 12, 439-442.	0.5	11
827	Formation of ultrafine nanostructure by crystallization of Zr52Al6Cu14Ni8Fe20 metallic glass. Applied Physics Letters, 2000, 77, 1153-1154.	1.5	11
828	Microstructure evolution and soft magnetic properties of Fe72ÂxNbxAl5Ga2P11C6B4(xÂ0,2) metallic glasses. Journal Physics D: Applied Physics, 2002, 35, 2247-2253.	1.3	11

#	Article	IF	Citations
829	Effect of Sn on microstructure and mechanical properties of Ti-base dendrite/ultrafine-structured multicomponent alloys. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2004, 35, 3605-3612.	1.1	11
830	Electrochemical removal of oxygen for processing glass-forming alloys. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2004, 375-377, 240-243.	2.6	11
831	Quasicrystal formation in mechanically alloyed Zrâ€"Tiâ€"Nbâ€"Cuâ€"Niâ€"Al glassy powders. Applied Physics Letters, 2004, 85, 4349.	1.5	11
832	Nanocrystal development in Cu47Ti33Zr11Ni8Si1 metallic glass powders. Journal of Alloys and Compounds, 2006, 415, 162-169.	2.8	11
833	Enhanced microhardness in nanocomposite Ti60Cu14Ni12Sn4Ta10 processed by high pressure torsion. Intermetallics, 2006, 14, 871-875.	1.8	11
834	Hydrogenation of Zrâ€"Cuâ€"Alâ€"Niâ€"Pd metallic glasses by electrochemical means. Journal of Alloys and Compounds, 2009, 480, 321-324.	2.8	11
835	Formation of nanostructured LaMg2Ni by rapid quenching and intensive milling and its hydrogen reactivity. Journal of Alloys and Compounds, 2009, 481, 144-151.	2.8	11
836	Structure and mechanical properties of Alâ€"Mg alloys produced by copper mold casting. Journal of Alloys and Compounds, 2010, 504, S483-S486.	2.8	11
837	Prediction of good glass formers in the Al-Ni-La and Al-Ni-Gd systems using topological instability and electronegativity. Journal of Applied Physics, 2011, 109, .	1.1	11
838	In situ martensitic phase reinforced Feâ€"Nbâ€"Niâ€"Mn ultrafine composite with enhanced mechanical properties. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2012, 531, 51-54.	2.6	11
839	Effect of cold-rolling on the crystallization behavior of a CuZr-based bulk metallic glass. Journal of Materials Science, 2013, 48, 6825-6832.	1.7	11
840	Size evaluation of nanostructured materials. Materials Letters, 2013, 108, 343-345.	1.3	11
841	Elastic and anelastic properties close to the Curie temperature of Fe-based bulk metallic glass. Applied Physics Letters, 2013, 102, 041904.	1.5	11
842	Deformation at ambient and high temperature of<i>in situ</i>Laves phases-ferrite composites. Science and Technology of Advanced Materials, 2014, 15, 034801.	2.8	11
843	XPS and AES sputterâ€depth profiling at surfaces of biocompatible passivated Tiâ€based alloys: concentration quantification considering chemical effects. Surface and Interface Analysis, 2014, 46, 683-688.	0.8	11
844	Structural evolution in Ti-Cu-Ni metallic glasses during heating. APL Materials, 2015, 3, .	2.2	11
845	Formation of nano-porous GeOx by de-alloying of an Alâ€"Geâ€"Mn amorphous alloy. Scripta Materialia, 2015, 104, 49-52.	2.6	11
846	Atomic structure and thermal behavior of (Co0.65,Fe0.35)72Ta8B20 metallic glass with excellent soft magnetic properties. Intermetallics, 2016, 69, 21-27.	1.8	11

#	Article	IF	Citations
847	A combined experimental and theoretical investigation of the Al-Melamine reactive milling system: A mechanistic study towards AlN-based ceramics. Journal of Alloys and Compounds, 2017, 729, 240-248.	2.8	11
848	Bond length deviation in CuZr metallic glasses. Physical Review B, 2017, 96, .	1.1	11
849	Optimization of the Hot Forging Processing Parameters for Powder Metallurgy Fe-Cu-C Connecting Rods Based on Finite Element Simulation. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2017, 48, 6027-6037.	1.1	11
850	Metal flow behavior of P/M connecting rod preform in flashless forging based on isothermal compression and numerical simulation. Journal of Materials Research and Technology, 2020, 9, 1200-1209.	2.6	11
851	Surface-governed electrochemical hydrogenation in FeNi-based metallic glass. Journal of Power Sources, 2020, 475, 228700.	4.0	11
852	Selective laser melting of nanostructured Al-Y-Ni-Co alloy. Manufacturing Letters, 2020, 25, 21-25.	1.1	11
853	Achieving work hardening by forming boundaries on the nanoscale in a Ti-based metallic glass matrix composite. Journal of Materials Science and Technology, 2020, 50, 192-203.	5.6	11
854	Metallic Glass Films with Nanostructured Periodic Density Fluctuations Supported on Si/SiO₂ as an Efficient Hydrogen Sorber. Chemistry - A European Journal, 2020, 26, 8244-8253.	1.7	11
855	Functionalized highly electron-rich redox-active electropolymerized 3,4-propylenedioxythiophenes as precursors and targets for bioelectronics and supercapacitors. Molecular Systems Design and Engineering, 2021, 6, 214-233.	1.7	11
856	Toughening mechanisms of a Ti-based nanostructured composite containing ductile dendrites. International Journal of Materials Research, 2005, 96, 675-680.	0.8	11
857	Nanoparticles in an amorphous Zr55Al10Cu30Ni5-matrix â€" The formation of composites by mechanical alloying. Scripta Materialia, 1999, 12, 443-446.	0.5	10
858	Glass Transition, Viscosity of the Supercooled Liquid and Crystallization Behaviour of Zr–Al–Cu–Ni–Fe Metallic Glasses. Materials Transactions, JIM, 2000, 41, 1415-1422.	0.9	10
859	Structural evaluation ofFe60Co10Zr8Mo5Nb2B15metallic glass under high pressure. Physical Review B, 2003, 68, .	1.1	10
860	NMRinvestigations of medium-range order and quasicrystal formation inZr59Cu20Al10Ni8Ti3metallic glass. Physical Review B, 2004, 70, .	1.1	10
861	Synthesis and thermal stability of ball-milled and melt-quenched amorphous and nanostructured Al-Ni-Nd-Co alloys. Journal of Materials Science, 2004, 39, 5295-5298.	1.7	10
862	Magnetic properties of amorphous Ndâ€"Feâ€"Coâ€"Al alloys. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2004, 375-377, 1083-1086.	2.6	10
863	Magnetic transitions in Dy-microalloyed Fe-based bulk metallic glasses. Journal Physics D: Applied Physics, 2005, 38, 2162-2165.	1.3	10
864	Deformation-induced nanoscale high-temperature phase separation in Coâ€"Fe alloys at room temperature. Applied Physics Letters, 2007, 90, 201908.	1.5	10

#	Article	IF	Citations
865	Structural behavior of amorphous and liquid metallic alloys at elevated temperatures. Journal of Non-Crystalline Solids, 2007, 353, 3327-3331.	1.5	10
866	High-Temperature Deformation Behavior and Formability of a Zr-Cu-Al-Ni Bulk Metallic Glass. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2008, 39, 1831-1837.	1.1	10
867	Solid-state processing of Al-Mg alloys. Journal of Physics: Conference Series, 2009, 144, 012019.	0.3	10
868	Damascene Lightâ€Weight Metals. Advanced Engineering Materials, 2010, 12, 1191-1197.	1.6	10
869	Structural and Mechanical Characterization of Zr58.5Ti8.2Cu14.2Ni11.4Al7.7 Bulk Metallic Glass. Materials, 2012, 5, 1-11.	1.3	10
870	Phase separation and magnetic properties in Gdâ€"(Hf,Ti,Y)â€"Coâ€"Al metallic glasses. Scripta Materialia, 2012, 67, 149-152.	2.6	10
871	Magnetic properties and magnetocaloric effect of rapidly quenched Gdâ€"Coâ€"Feâ€"Al alloys. Journal of Magnetism and Magnetic Materials, 2012, 324, 1581-1587.	1.0	10
872	Experimental and thermodynamic assessment of the Gdâ€"Ti system. Calphad: Computer Coupling of Phase Diagrams and Thermochemistry, 2013, 42, 19-26.	0.7	10
873	Predicted glass-forming ability of Cu-Zr-Co alloys and their crystallization behavior. Journal of Applied Physics, 2013, 113, 123505.	1.1	10
874	Phase Separation in Rapid Solidified Ag-rich Ag-Cu-Zr Alloys. Materials Research, 2015, 18, 120-126.	0.6	10
875	Inhomogeneous thermal expansion of metallic glasses in atomic-scale studied by in-situ synchrotron X-ray diffraction. Journal of Applied Physics, 2015, 117, 044902.	1.1	10
876	Investigation of Ni-B Alloys for Joining of TiB2 Ultra-High-Temperature Ceramic. Journal of Materials Engineering and Performance, 2016, 25, 3204-3210.	1.2	10
877	Structure and properties of sputter deposited crystalline and amorphous Cuâ€"Ti films. Thin Solid Films, 2016, 598, 184-188.	0.8	10
878	MnFePSi-based magnetocaloric packed bed regenerators: Structural details probed by X-ray tomography. Chemical Engineering Science, 2018, 175, 84-90.	1.9	10
879	Elastostatic reversibility in thermally formed bulk metallic glasses: nanobeam diffraction fluctuation electron microscopy. Nanoscale, 2018, 10, 1081-1089.	2.8	10
880	Influence of Nb on the Microstructure and Fracture Toughness of (Zr0.76Fe0.24)100â^'xNbx Nano-Eutectic Composites. Materials, 2018, 11, 113.	1.3	10
881	Strengthening Effects in Nano-/Ultrafine-Grained Carbon Nanotube Reinforced-Titanium Composites Investigated by Finite Element Modeling. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2018, 49, 6469-6478.	1.1	10
882	Martensitic Transformation and Plastic Deformation of TiCuNiZr-Based Bulk Metallic Glass Composites. Metals, 2018, 8, 196.	1.0	10

#	Article	IF	Citations
883	Evolution of Bimodal Microstructure and High-Temperature Wear Resistance of Al-Cu-Ni Alloys. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2020, 51, 109-115.	1.1	10
884	Mg-Based Metallic Glass-Polymer Composites: Investigation of Structure, Thermal Properties, and Biocompatibility. Metals, 2020, 10, 867.	1.0	10
885	Fabrication of Metastable Crystalline Nanocomposites by Flash Annealing of Cu47.5Zr47.5Al5 Metallic Glass Using Joule Heating. Nanomaterials, 2020, 10, 84.	1.9	10
886	Microstructure refinement and enhanced tensile properties of Al-11Mg2Si alloy modified by erbium. Journal of Alloys and Compounds, 2021, 860, 158421.	2.8	10
887	Molecular Dynamics Study of the Nanoindentation Behavior of Cu64Zr36/Cu Amorphous/Crystalline Nanolaminate Composites. Materials, 2021, 14, 2756.	1.3	10
888	Effects of Ni and Co alloying on thermal, magnetic and structural properties of Fe-(Ni,Co)-P-C metallic glass ribbons. Journal of Alloys and Compounds, 2021, 872, 159620.	2.8	10
889	Progress of solid-state reaction during mechanical alloying of Zr-Al-Cu-Ni bulk metallic glass-forming alloys. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 1997, 226-228, 383-387.	2.6	9
890	Deformation behavior and dilatometric measurements of Ndâ€"Fe based bulk metallic glass. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2004, 375-377, 1161-1164.	2.6	9
891	Novel In Situ Nanostructure-Dendrite Composites in Zr-Base Multicomponent Alloy System. Materials and Manufacturing Processes, 2004, 19, 423-437.	2.7	9
892	On the amorphous-to-quasicrystalline phase transformation in ball-milled and melt-spun Zr58.5Ti8.2Cu14.2Ni11.4Al7.7 glassy alloys. Journal of Non-Crystalline Solids, 2005, 351, 856-862.	1.5	9
893	Effect of cooling rate on microstructure and glass-forming ability of a (Ti33Zr33Hf33)70(Ni50Cu50)20Al10 alloy. Intermetallics, 2006, 14, 972-977.	1.8	9
894	Fabrication of bulk amorphous Fe67Co9.5Nd3Dy0.5B20 alloy by hot extrusion of ribbon and study of the magnetic properties. Journal of Materials Science, 2006, 41, 3445-3450.	1.7	9
895	Enhanced thermal stability of the devitrified nanoscale icosahedral phase in novel multicomponent amorphous alloys. Journal of Materials Research, 2006, 21, 823-831.	1.2	9
896	On the Kaiser effect in bulk metallic glasses. Journal of Non-Crystalline Solids, 2007, 353, 3769-3771.	1.5	9
897	The Physical Nature of Materials Strengths. Advanced Engineering Materials, 2007, 9, 143-146.	1.6	9
898	Devitrification of nano-scale icosahedral phase in multicomponent alloys. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2007, 449-451, 983-986.	2.6	9
899	DC- and RF-GD-OES measurements of adsorbed organic monolayers on copper. Analytical and Bioanalytical Chemistry, 2009, 395, 1893-1900.	1.9	9
900	Influence of the anode material on the characteristics of an analytical glow discharge cell. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2010, 65, 311-315.	1.5	9

#	Article	IF	Citations
901	TEM characterization of ALD layers in deep trenches using a dedicated FIB lamellae preparation method. Thin Solid Films, 2010, 518, 4553-4555.	0.8	9
902	Mechanical behavior of metallic glass reinforced nanostructured tungsten composites synthesized by spark plasma sintering. Intermetallics, 2010, 18, 2009-2013.	1.8	9
903	Computer simulation of the matrixâ€“inclusion interphase in bulk metallic glass based nanocomposites. Journal of Physics Condensed Matter, 2011, 23, 425403.	0.7	9
904	Effect of Al and Ag addition on phase formation, thermal stability, and mechanical properties of Cuâ€“Zr-based bulk metallic glasses. Journal of Materials Research, 2011, 26, 1702-1710.	1.2	9
905	New Lithium Copper Borates with BO₃ Triangles: Li₆CuB₄O₁₀, Li₃CuB₃O₇, Li₈Cu₇B₁₄O₃₂, and Li₂Cu₉B₁₂O₂₈. Inorganic Chemistry, 2013, 52, 13974-13983.	1.9	9
906	Pathways for novel magnetocaloric materials: A processing prospect. Physica Status Solidi C: Current Topics in Solid State Physics, 2014, 11, 1039-1042.	0.8	9
907	Analysis of surface preâ€treatment for SAWâ€substrate material (LiNbO₃) and deposited thin films of Ta/Ti using ARXPS. Surface and Interface Analysis, 2014, 46, 1033-1038.	0.8	9
908	Specific volume study of a bulk metallic glass far below its calorimetrically determined glass transition temperature. Physical Review B, 2014, 89, .	1.1	9
909	Experimental and thermodynamic assessment of the Ceâ€“Zr system. Calphad: Computer Coupling of Phase Diagrams and Thermochemistry, 2014, 46, 213-219.	0.7	9
910	Vickers-indentation-induced crystallization in a metallic glass. Applied Physics Letters, 2015, 106, 101909.	1.5	9
911	Glass formation in the Tiâ€“Cu system with and without Si additions. Journal of Alloys and Compounds, 2015, 618, 413-420.	2.8	9
912	Ion milling-induced micrometer-sized heterogeneities and partial crystallization in a TiZrCuFeBe bulk metallic glass. Intermetallics, 2016, 73, 5-11.	1.8	9
913	Compositional depth profiling of diamond-like carbon layers by glow discharge optical emission spectroscopy. Journal of Analytical Atomic Spectrometry, 2016, 31, 2207-2212.	1.6	9
914	Interplay of the Open Circuit Potential-Relaxation and the Dissolution Behavior of a Single H2Bubble Generated at a Pt Microelectrode. Journal of Physical Chemistry C, 2016, 120, 15137-15146.	1.5	9
915	Structure of glassy Cu47.5Zr47.5Ag5 investigated with neutron diffraction with isotopic substitution, X-ray diffraction, EXAFS and reverse Monte Carlo simulation. Journal of Non-Crystalline Solids, 2017, 459, 99-102.	1.5	9
916	Stability of shear banding process in bulk metallic glasses and composites. Journal of Materials Research, 2017, 32, 2560-2569.	1.2	9
917	Thermally-triggered Dual In-situ Self-healing Metallic Materials. Scientific Reports, 2018, 8, 2120.	1.6	9
918	Liquid ejection temperature dependence of structure and glass transition behavior for rapidly solidified Zr-Al-M (M=Ni, Cu or Co) ternary glassy alloys. Journal of Alloys and Compounds, 2018, 739, 1104-1114.	2.8	9

#	Article	IF	Citations
919	Thermal behavior, structural relaxation and magnetic study of a new Hf-microalloyed Co-based glassy alloy with high thermal stability. Journal of Alloys and Compounds, 2018, 748, 553-560.	2.8	9
920	Optimizing mechanical properties of Fe26.7Co26.7Ni26.7Si8.9B11 high entropy alloy by inducing hypoeutectic to quasi-duplex microstructural transition. Scientific Reports, 2019, 9, 360.	1.6	9
921	High-resolution transmission electron microscopy investigation of diffusion in metallic glass multilayer films. Materials Today Advances, 2019, 1, 100004.	2.5	9
922	Fast and direct determination of fragility in metallic glasses using chip calorimetry. Heliyon, 2019, 5, e01334.	1.4	9
923	Polymorphic Transformation and Magnetic Properties of Rapidly Solidified Fe26.7Co26.7Ni26.7Si8.9B11.0 High-Entropy Alloys. Materials, 2019, 12, 590.	1.3	9
924	Oligoether Ester-Functionalized ProDOT Copolymers on Si/Monolayer Graphene as Capacitive Thin Film Electrodes. Journal of the Electrochemical Society, 2020, 167, 070543.	1.3	9
925	Development and characterization of new Coâ€"Feâ€"Hfâ€"B bulk metallic glass with high thermal stability and superior soft magnetic performance. Journal of Alloys and Compounds, 2020, 823, 153890.	2.8	9
926	<i>In situ</i> TEM observation of phase transformation in bulk metallic glass composites. Materials Research Letters, 2021, 9, 189-194.	4.1	9
927	Selective Laser Melting of Al-7Si-0.5ÂMg-0.5Cu: Effect of Heat Treatment on Microstructure Evolution, Mechanical Properties and Wear Resistance. Acta Metallurgica Sinica (English Letters), 2022, 35, 389-396.	1.5	9
928	Effect of nanoparticles on morphology and size of primary silicon and property of selective laser melted Al-high Si content alloys. Vacuum, 2021, 191, 110405.	1.6	9
929	Structural and magnetic properties of mechanically alloyed (FexCu1 âˆ' x)93Zr7 (x = 0.5, 0.7) solid solutions. Journal of Magnetism and Magnetic Materials, 1999, 196-197, 214-215.	1.0	8
930	The synthesis and properties of Zr-based metallic glasses and glass-matrix composites. Jom, 2000, 52, 43-47.	0.9	8
931	Influence of iron additions on structure and properties of amorphous Zr65Al7.5Cu17.5Ni10. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2001, 304-306, 311-314.	2.6	8
932	Superposition of grain size and dispersion strengthening in ODS L12â€"(Al,Cr)3Ti. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2002, 329-331, 106-111.	2.6	8
933	Effect of Al on microstructure and magnetic properties of mould-cast Nd60Fe40âˆ'xAlx alloys. Scripta Materialia, 2003, 48, 321-325.	2.6	8
934	Structural evolution of nano-scale icosahedral phase in novel multicomponent amorphous alloys. Philosophical Magazine, 2006, 86, 281-286.	0.7	8
935	Effect of preannealing on glass transition and crystallization of gas atomized Cu47Ti33Zr11Ni8Si1 metallic glass powders. Intermetallics, 2006, 14, 1085-1090.	1.8	8
936	Effect of high pressure during the fabrication on the thermal and mechanical properties of amorphous Ni60Nb40 particle-reinforced Al-based metal matrix composites. Journal of Materials Research, 2007, 22, 1168-1173.	1.2	8

#	Article	IF	Citations
937	Structural Relaxation and Crystallization of a Zr₄₄Ti₁₁Cu_{9.8}Ni_{10.2}Be₂₅ Bulk Metallic Glass. Materials Transactions, 2007, 48, 1722-1728.	0.4	8
938	Impact of Microstructural Inhomogenities on the Ductility of Bulk Metallic Glasses. Materials Transactions, 2007, 48, 1806-1811.	0.4	8
939	Strengthening of multicomponent glass-forming alloys by microstructure design. Journal of Non-Crystalline Solids, 2007, 353, 3742-3749.	1.5	8
940	Studies on the crystallization kinetics of Cu-reinforced partially crystalline Cu47Ti33Zr11Ni8Si1 metallic glass composite. Journal of Alloys and Compounds, 2007, 434-435, 203-206.	2.8	8
941	TEM investigation of Ti and Ti/Al bilayer as alternative diffusion barriers for Cu metallization for SAW device applications. Microelectronic Engineering, 2008, 85, 2055-2058.	1.1	8
942	Al-based metal matrix composites reinforced with nanocrystalline Al-Ti-Ni particles. Journal of Physics: Conference Series, 2010, 240, 012154.	0.3	8
943	Shear band evolution during large plastic deformation of brittle and ductile metallic glasses. Philosophical Magazine Letters, 2010, 90, 573-579.	0.5	8
944	Transformationâ€induced plasticity in rapidly solidified Fe_{88.9}Cr_{4.3}V_{2.2}C_{4.6}. Steel Research International, 2011, 82, 51-55.	1.0	8
945	Locally fluctuating cooling rate as possible reason for non-crystalline plasticity in metallic glasses. Europhysics Letters, 2012, 98, 16003.	0.7	8
946	A Comparative Study of Various Supported Catalysts on the Growth of Aligned Carbon Nanotube Forests on Aluminum Foils. Chemical Vapor Deposition, 2012, 18, 326-335.	1.4	8
947	Theoretical approach to local and effective properties of BMG based matrix-inclusion nanocomposites. Intermetallics, 2012, 30, 40-47.	1.8	8
948	Strong correlation of atomic thermal motion in the first coordination shell of a Cu-Zr metallic glass. Applied Physics Letters, 2013, 102, 081901.	1.5	8
949	Texture development in Ti/Al filament wires produced by accumulative swaging and bundling. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2014, 607, 360-367.	2.6	8
950	Imprinting bulk amorphous alloy at room temperature. Scientific Reports, 2015, 5, 16540.	1.6	8
951	In Situ Electrochemical Analysis during Deformation of a Zrâ€Based Bulk Metallic Glass: A Sensitive Tool Revealing Early Shear Banding. Advanced Engineering Materials, 2015, 17, 1532-1535.	1.6	8
952	Nanostructured Tiâ€Zrâ€Pdâ€Siâ€(Nb) bulk metallic composites: Novel biocompatible materials with superior mechanical strength and elastic recovery. Journal of Biomedical Materials Research - Part B Applied Biomaterials, 2015, 103, 1569-1579.	1.6	8
953	Ti/Al Multi-Layered Sheets: Differential Speed Rolling (Part B). Metals, 2016, 6, 31.	1.0	8
954	Correlation between structural heterogeneity and plastic deformation for phase separating FeCu metallic glasses. Scientific Reports, 2016, 6, 34340.	1.6	8

#	Article	IF	Citations
955	Wettability and work of adhesion of liquid sulfur on carbon materials for electrical energy storage applications. Carbon, 2016, 98, 702-707.	5.4	8
956	Preparation of cast-iron-based nanocrystalline alloy with Cu and Nb addition. Intermetallics, 2016, 69, 54-61.	1.8	8
957	Designing a multifunctional Ti-2Cu-4Ca porous biomaterial with favorable mechanical properties and high bioactivity. Journal of Alloys and Compounds, 2017, 727, 338-345.	2.8	8
958	Interface and stability analysis of Tantalum- and Titanium nitride thin films onto Lithiumniobate. Applied Surface Science, 2017, 425, 254-260.	3.1	8
959	Fabrication and characterization of novel soft magnetic [(Fe0.7Co0.3)71.2B24Y4.8]96Nb4/V2O5 bulk metallic glassy/composite cores with excellent magnetic permeability and low core losses. Journal of Alloys and Compounds, 2020, 846, 156427.	2.8	8
960	Structural homology of the strength for metallic glasses. Journal of Materials Science and Technology, 2021, 81, 123-130.	5.6	8
961	Origin of Electrocatalytic Activity in Amorphous Nickelâ€“Metalloid Electrodeposits. ACS Applied Materials & Interfaces, 2021, 13, 23689-23701.	4.0	8
962	Enhancement of Interfacial Hydrogen Interactions with Nanoporous Gold-Containing Metallic Glass. ACS Applied Materials & Interfaces, 2021, 13, 42613-42623.	4.0	8
963	Metallographic Preparation of Aluminium-Titanium Composites. Praktische Metallographie/Practical Metallography, 2013, 50, 739-753.	0.1	8
964	Thermodynamic and kinetic interpretation of the glass-forming ability of Y-containing Cu-Zr-Al bulk metallic glasses. Journal of Non-Crystalline Solids, 2022, 576, 121266.	1.5	8
965	Effects of chemistry on the grain size refinement in nanocrystalline Ru and Ruî—‚C powders prepared by mechanical attrition. Scripta Materialia, 1993, 2, 433-439.	0.5	7
966	Bulk Metallic Glasses with Significant Supercooled Liquid Region Prepared by Mechanical Alloying. Materials Science Forum, 1996, 225-227, 113-118.	0.3	7
967	Structural and magnetic properties of amorphous alloys. Journal of Physics Condensed Matter, 1998, 10, L575-L581.	0.7	7
968	Thermal Stability and Consolidation Behavior of Mechanically Alloyed Zr-Al-Cu-Ni Powders with Varying Oxygen, Iron and Tungsten Content. Materials Science Forum, 1998, 269-272, 767-772.	0.3	7
969	Effect of Co and Cu Alloying on Nd-Fe-Al Based Bulk Amorphous Alloys. Materials Science Forum, 2000, 343-346, 97-102.	0.3	7
970	Bulk Metallic Glasses and Composites in Multicomponent Systems. Materials Transactions, 2001, 42, 650-655.	0.4	7
971	The Electrochemical Hydrogen Sorption Behaviour of Zr-Cu-Al-Ni Metallic Glasses. Materials Transactions, 2002, 43, 1133-1137.	0.4	7
972	High Strength Magnesium-based Glass Matrix Composites. Materials Transactions, 2002, 43, 1979-1984.	0.4	7

#	Article	IF	Citations
973	Formation of quasicrystals in ball-milled amorphous Zr-Ti-Nb-Cu-Ni-Al alloys with different Nb content. Journal of Materials Science, 2004, 39, 5483-5486.	1.7	7
974	Thermal stability and crystallization behavior of Fe77C5B4(AlGa)3(PSi)11 metallic glasses. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2004, 375-377, 297-301.	2.6	7
975	Bulk glass forming and thermal stability in Fe67.0Co9.5Nd3.0Dy0.5B20 alloy. Materials Letters, 2004, 58, 1844-1852.	1.3	7
976	Effect of Y addition on the microstructure and magnetic properties of Nd60âˆ’xYxFe30Al10 mould-cast alloys. Journal of Alloys and Compounds, 2004, 366, 248-253.	2.8	7
977	Formation, Thermal Stability and Deformation Behavior of High-Strength Cu-Based Bulk Glassy and Nanostructured Alloys. Advanced Engineering Materials, 2005, 7, 960-965.	1.6	7
978	Quasicrystalline phase formation in Zrâ€“Tiâ€“Nbâ€“Cuâ€“Niâ€“(Al) metallic glasses. Journal of Alloys and Compounds, 2005, 387, 269-273.	2.8	7
979	Cooling rate controlled microstructure and magnetic properties of metastable Fe20Nd80 alloys. Intermetallics, 2006, 14, 47-53.	1.8	7
980	Effect of Cu on local amorphization in bulk Niâ€“Tiâ€“Zrâ€“Si alloys during solidification. Acta Materialia, 2006, 54, 3141-3150.	3.8	7
981	Influence of annealing on the microstructure and hardness of Ti67.79Fe28.36Sn3.85 nanocomposite rods. Scripta Materialia, 2006, 55, 1087-1090.	2.6	7
982	Microstructural comparison of Zr73.5Nb9Cu7Ni1Al9.5 nanostructure-dendrite composites produced by different casting techniques. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2007, 449-451, 747-751.	2.6	7
983	Influence of oxygen on the devitrification of Zrâ€“Tiâ€“Nbâ€“Cuâ€“Niâ€“Al metallic glasses. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2007, 449-451, 493-496.	2.6	7
984	Spark plasma sintering of gas atomized Al₈₇Ni₈La₅amorphous powder. Journal of Physics: Conference Series, 2009, 144, 012079.	0.3	7
985	Microstructure, thermal, and mechanical characterization of rapidly solidified high strength Fe_{84.3}Cr_{4.3}Mo_{4.6}V_{2.2}C_{4.6}. Journal of Materials Research, 2010, 25, 1164-1171.	1.2	7
986	On the atomic structure of Zr₆₀Cu₂₀Fe₂₀metallic glass. Journal of Physics Condensed Matter, 2010, 22, 404208.	0.7	7
987	Combined in-situ SAXS/WAXS and HRTEM study on crystallization of (Cu60Co40)1âˆ’xZrx metallic glasses. Journal of Non-Crystalline Solids, 2011, 357, 1538-1546.	1.5	7
988	AlNiYCo Amorphous Matrix Composites Induced by Bismuth and Lead Additions. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2011, 42, 4100-4105.	1.1	7
989	Magnetic ordering and slow dynamics in a Ho-based bulk metallic glass with moderate random magnetic anisotropy. Journal of Applied Physics, 2011, 109, 113904.	1.1	7
990	Effect of crystallization on the surface area of porous Ni-based metallic glass foams. Philosophical Magazine Letters, 2011, 91, 582-590.	0.5	7

#	Article	IF	Citations
991	Study of structural anisotropy in Cu50Zr45Al5 metallic glass under uniaxial compression by molecular dynamics simulations. Intermetallics, 2012, 30, 154-157.	1.8	7
992	Improving the Mechanical Properties of Fe-Nb-(Ni-Mn) Dendrite-Ultrafine Eutectic Composites via Controlling the Primary Phase Features. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2012, 43, 2680-2686.	1.1	7
993	Effect of TaW particles on the microstructure and mechanical properties of metastable Cu47.5Zr47.5Al5 alloys. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2013, 587, 372-380.	2.6	7
994	Microstructural characteristics of spray formed and heat treated Alâ€"(Y, La)â€"Niâ€"Co system. Journal of Alloys and Compounds, 2013, 578, 471-480.	2.8	7
995	Tensile fracture dynamics and intrinsic plasticity of metallic glasses. Applied Physics Letters, 2013, 102, 031908.	1.5	7
996	Stress-Corrosion Interactions in Zr-Based Bulk Metallic Glasses. Metals, 2015, 5, 1262-1278.	1.0	7
997	Vertical Graphene Growth from Amorphous Carbon Films Using Oxidizing Gases. Journal of Physical Chemistry C, 2015, 119, 17965-17970.	1.5	7
998	Nanostructure formation mechanism during in-situ consolidation of copper by room-temperature ball milling. Materials & Design, 2015, 65, 1083-1090.	5.1	7
999	Compression behavior of inter-particle regions in high-strength Al84Ni7Gd6Co3 alloy. Materials Letters, 2016, 185, 25-28.	1.3	7
1000	Wetting behaviour of Cuâ€"Ga alloys on 304L steel. Materials and Design, 2016, 91, 11-18.	3.3	7
1001	Ti-based bulk glassy composites obtained by replacement of Ni with Ga. Intermetallics, 2016, 69, 28-34.	1.8	7
1002	Corrosion properties of high-strength nanocrystalline Al 84 Ni 7 Gd 6 Co 3 alloy produced by hot pressing of metallic glass. Journal of Alloys and Compounds, 2017, 707, 63-67.	2.8	7
1003	Deformation Behavior of Powder Metallurgy Connecting Rod Preform During Hot Forging Based on Hot Compression and Finite Element Method Simulation. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2017, 48, 2971-2978.	1.1	7
1004	Synthesis of new glassy Mg-Ca-Zn alloys with exceptionally low Young's Modulus: Exploring near eutectic compositions. Scripta Materialia, 2019, 173, 139-143.	2.6	7
1005	Phase transformation, thermal behavior and magnetic study of new Co80-xTaxSi5C15 (xÂ= 0, 5) glassy/nanocrystalline alloys prepared by mechanical alloying. Journal of Alloys and Compounds, 2020, 843, 155913.	2.8	7
1006	Anisotropic elastic and thermodynamic properties of the HCP-Titanium and the FCC-Titanium structure under different pressures. Journal of Materials Research and Technology, 2020, 9, 3488-3501.	2.6	7
1007	Nanoporous Pdâ€"Cuâ€"Si Amorphous Thin Films for Electrochemical Hydrogen Storage and Sensing. ACS Applied Energy Materials, 2021, 4, 2672-2680.	2.5	7
1008	Mechanochemical Synthesis of Rosin-Modified Montmorillonite: A Breakthrough Approach to the Next Generation of OMMT/Rubber Nanocomposites. Nanomaterials, 2021, 11, 1974.	1.9	7

#	Article	IF	Citations
1009	Wear Behavior of a Heat-Treatable Al-3.5Cu-1.5Mg-1Si Alloy Manufactured by Selective Laser Melting. Materials, 2021, 14, 7048.	1.3	7
1010	The Influence of Alloy Composition and Thermal Treatment on Structural and Magnetic Properties of Mechanically Alloyed Fe-Transition Metal-Based Alloys. Materials Science Forum, 1996, 225-227, 695-700.	0.3	6
1011	Mise en ordre locale dans les alliages amorphes massifs lors de la cristallisation. Annales De Chimie: Science Des Materiaux, 2002, 27, 69-75.	0.2	6
1012	Corrosion behaviour of carbon steel coated with Zr-based metallic glass. Materials and Corrosion - Werkstoffe Und Korrosion, 2002, 53, 85-90.	0.8	6
1013	A Comparative Study of MgB2 and Other Diborides. Journal of Low Temperature Physics, 2003, 131, 1159-1163.	0.6	6
1014	Stability and magnetic properties of Fe-based amorphous alloys with supercooled liquid region. Journal of Magnetism and Magnetic Materials, 2003, 254-255, 23-25.	1.0	6
1015	Glass forming ability of Nd60TM30Al10 (TM=Fe, Co, Ni, Cu, Mn) alloys. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2004, 375-377, 403-406.	2.6	6
1016	Magnetostriction of hard magnetic Nd80Fe20 mold-cast rod. Journal of Magnetism and Magnetic Materials, 2005, 285, 395-400.	1.0	6
1017	Formation of micrometer sized quasicrystals in slowly cooled Zr-Ti-Nb-Cu-Ni-Al alloys. Physica Status Solidi (A) Applications and Materials Science, 2005, 202, 2436-2441.	0.8	6
1018	Influence of annealing on structural relaxation, crystallization, and deformation behavior of a Zr41.2Ti13.8Cu12.5Ni10Be22.5 bulk metallic glass. Journal of Materials Research, 2007, 22, 1849-1858.	1.2	6
1019	Metallic glass formation in the Cu47Ti33Zr11Ni8Si1 alloy. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2007, 444, 257-264.	2.6	6
1020	Complete suppression of metastable phase and significant enhancement of magnetic properties of B-rich PrFeB nanocomposites prepared by devitrifying amorphous ribbons. Journal of Magnetism and Magnetic Materials, 2007, 308, 24-27.	1.0	6
1021	Microstructural changes induced by thermal treatment in Cu47Ti33Zr11Ni8Si1 metallic glass. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2008, 498, 335-340.	2.6	6
1022	FeCoBSiNb bulk metallic glasses with Cu additions. Physica Status Solidi C: Current Topics in Solid State Physics, 2010, 7, 1331-1335.	0.8	6
1023	Phase separation in Ni70Nb30âˆ’Y glasses. Intermetallics, 2010, 18, 1842-1845.	1.8	6
1024	Molecular dynamic simulation study of the structural anisotropy in Cu50Zr50 and Cu64.5Zr35.5 metallic glasses induced by static uniaxial loading within the elastic regime. Journal of Alloys and Compounds, 2011, 509, S74-S77.	2.8	6
1025	Predicting glass-forming compositions in the Alâ€“La and Alâ€“Laâ€“Ni systems. Journal of Alloys and Compounds, 2011, 509, S170-S174.	2.8	6
1026	Influence of Superheat on Microstructure and Mechanical Properties of Ductile Cu47.5Zr47.5Al5 Bulk Metallic Glass-Matrix Composite. Journal of Materials Engineering and Performance, 2011, 20, 1196-1205.	1.2	6

#	Article	IF	Citations
1027	Phase separation in ternary Coâ€"Gdâ€"Ti liquids. Journal of Physics Condensed Matter, 2013, 25, 245104.	0.7	6
1028	Local temperature determination in power loaded surface acoustic wave structures using Raman spectroscopy. Journal of Applied Physics, 2013, 114, 164317.	1.1	6
1029	Mechanism of nanostructure formation in ball-milled Cu and Cuâ€"3wt%Zn studied by X-ray diffraction line profile analysis. Journal of Alloys and Compounds, 2014, 588, 138-143.	2.8	6
1030	Experimental and thermodynamic assessment of the Ndâ€"Ti system. Calphad: Computer Coupling of Phase Diagrams and Thermochemistry, 2014, 47, 136-143.	0.7	6
1031	In situ observations of Pt nanoparticles coalescing inside carbon nanotubes. RSC Advances, 2014, 4, 49442-49445.	1.7	6
1032	Mechanism of high-pressure torsion-induced shear banding and lamellar thickness saturation in Coâ€"Crâ€"Feâ€"Niâ€"Nb high-entropy composites. Journal of Materials Research, 2019, 34, 2672-2682.	1.2	6
1033	Mechanochemical reaction of Al and melamine: a potential approach towards the <i>in situ</i> synthesis of aluminum nitrideâ€"carbon nanotube nanocomposites. Physical Chemistry Chemical Physics, 2019, 21, 22121-22131.	1.3	6
1034	Synthesis, characterization and thermodynamic stability of nanostructured Îµ-iron carbonitride powder prepared by a solid-state mechanochemical route. Journal of Alloys and Compounds, 2019, 778, 327-336.	2.8	6
1035	Co-Cr-Mo-C-B metallic glasses with wide supercooled liquid region obtained by systematic adjustment of the metalloid ratio. Journal of Non-Crystalline Solids, 2019, 505, 310-319.	1.5	6
1036	Thermomechanical and structural characterization of polybutadiene/poly(ethylene oxide)/<scp>CNT stretchable electrospun fibrous</scp> membranes. Polymers for Advanced Technologies, 2021, 32, 248-261.	1.6	6
1037	Fabrication of stainless-steel microfibers with amorphous-nanosized microstructure with enhanced mechanical properties. Scientific Reports, 2022, 12, .	1.6	6
1038	Synthesis and Properties of Mechanically Alloyed and Ball Milled High Strength Amorphous or Quasicrystalline Al-Alloys. Journal of Metastable and Nanocrystalline Materials, 1999, 2-6, 49-54.	0.1	5
1039	Nanocrystal formation, amorphization and superconductivity in YNi2B2C. Journal of Alloys and Compounds, 1999, 285, 27-36.	2.8	5
1040	MÃ¶ssbauer study of FeCoSiAlGaPCB amorphous alloys. Journal of Applied Physics, 2004, 95, 4151-4156.	1.1	5
1041	Possible influence of quenched-in nuclei on quasicrystal formation in mechanically alloyed Zr57Ti8Nb2.5Cu13.9Ni11.1Al7.5 glassy powder. Journal of Materials Research, 2004, 19, 2211-2215.	1.2	5
1042	Microstructure, mechanical properties, and fracture mechanism of As-cast (Ti0.5Cu0.25Ni0.15Sn0.05Zr0.05)100â^'x Mo x composites. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2004, 35, 1591-1601.	1.1	5
1043	Nanomechanical characterization of Ti-base nanostructure-dendrite composite. International Journal of Materials Research, 2004, 95, 317-319.	0.8	5
1044	Structure Formation and Mechanical Behavior of Two-phase Nanostructured Materials. , 2007, , 565-675.		5

#	Article	IF	Citations
1045	The role of nonmagnetic phases in improving the magnetic properties of devitrified Pr2Fe14B-based nanocomposites. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2008, 149, 73-76.	1.7	5
1046	Effect of Carbon Addition on the Microstructural Evolution and Mechanical Properties in Hypo-Eutectic Fe-Zr(-Nb) Alloys. Materials Transactions, 2010, 51, 799-802.	0.4	5
1047	High-strength ultrafine-grained Ti-Fe-Sn alloys with a bimodal structure. Journal of Physics: Conference Series, 2010, 240, 012103.	0.3	5
1048	Mechanical properties of rapidly solidified Feâ€“Alâ€“B ternary alloys. Journal of Alloys and Compounds, 2010, 504, S472-S475.	2.8	5
1049	Microstructure and mechanical properties of Feâ€“Siâ€“Tiâ€“(Cu, Al) heterostructured ultrafine composites. Journal of Alloys and Compounds, 2011, 509, S367-S370.	2.8	5
1050	Microstructures and magnetic properties of carbon nanotube/Co-oxide nanocomposite powders. Journal of Alloys and Compounds, 2011, 509, S412-S415.	2.8	5
1051	Improved Synthesis of Bulk Metallic Glasses by Currentâ€Assisted Copper Mold Casting. Advanced Engineering Materials, 2011, 13, 38-42.	1.6	5
1052	Sessile drop study of Gdâ€“Ti monotectic alloys on ceramic substrates: phase transformations, wetting, and reactivity. Journal of Materials Science, 2012, 47, 8381-8386.	1.7	5
1053	Phase-field modeling of eutectic Tiâ€“Fe alloy solidification. Computational Materials Science, 2012, 63, 319-328.	1.4	5
1054	Amorphous Li-Al-Based Compounds: A Novel Approach for Designing High Performance Electrode Materials for Li-Ion Batteries. Inorganics, 2013, 1, 14-31.	1.2	5
1055	Graphene Coatings for the Mitigation of Electron Stimulated Desorption and Fullerene Cap Formation. Chemistry of Materials, 2014, 26, 4998-5003.	3.2	5
1056	An O2 transport study in porous materials within the Liâ€“O2 â€“ system. Journal of Power Sources, 2014, 269, 825-833.	4.0	5
1057	Effect of Metallic Glass Particle Size on the Contact Resistance of Ag/Metallic Glass Electrode. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2015, 46, 2443-2448.	1.1	5
1058	Thermal oxidation behavior of glass-forming Tiâ€“Zrâ€“(Nb)â€“Si alloys. Journal of Materials Research, 2016, 31, 1264-1274.	1.2	5
1059	Processing, microstructure and mechanical properties of Al-based metal matrix composites reinforced with mechanically alloyed particles. Journal of Materials Research, 2016, 31, 1229-1236.	1.2	5
1060	Formation and phase evolution of liquid phase-separated metallic glasses with double glass transition, crystallization and melting. Materials Today Communications, 2016, 8, 64-71.	0.9	5
1061	Microstructures, Martensitic Transformation, and Mechanical Behavior of Rapidly Solidified Ti-Ni-Hf and Ti-Ni-Si Shape Memory Alloys. Journal of Materials Engineering and Performance, 2018, 27, 1005-1015.	1.2	5
1062	An investigation on diffusivity while achieving a cylindrical aluminide coating on metals using simultaneous spark plasma sintering of powders. Scripta Materialia, 2019, 170, 156-160.	2.6	5

#	Article	IF	Citations
1063	Electrospun polyacrylonitrile/2-(acryloyloxy)ethyl ferrocenecarboxylate polymer blend nanofibers. Molecular Systems Design and Engineering, 2021, 6, 476-492.	1.7	5
1064	Direct observation of nanocrystal-induced enhancement of tensile ductility in a metallic glass composite. Materials and Design, 2021, 209, 109970.	3.3	5
1065	Multilayer crystal-amorphous Pd-based nanosheets on Si/SiO2 with interface-controlled ion transport for efficient hydrogen storage. International Journal of Hydrogen Energy, 2022, 47, 6777-6788.	3.8	5
1066	Relaxation and Strain-Hardening Relationships in Highly Rejuvenated Metallic Glasses. Materials, 2022, 15, 1702.	1.3	5
1067	Formation of amorphous alloys with significant supercooled liquid region by mechanical alloying. Journal of Non-Crystalline Solids, 1996, 205-207, 500-503.	1.5	4
1068	Synthesis and properties of mechanically alloyed Y-Ni-B-C. Materials Letters, 1997, 31, 329-333.	1.3	4
1069	Metastable Phase Formation and Microstructure Evolution from Undercooled Eutectic Melts. Materials Science Forum, 1999, 312-314, 275-280.	0.3	4
1070	Superconductivity of Annealed and Consolidated Amorphous YNi2B2C Powders. Crystal Research and Technology, 2000, 35, 427-435.	0.6	4
1071	Structural and superconducting properties of mechanically alloyed Yâ€“Pd1âˆ’xTMxâ€“Bâ€“C (TM=Ni,Pt). Physica B: Condensed Matter, 2000, 284-288, 1107-1108.	1.3	4
1072	Drastic coercivity relaxation in amorphous Fe[sub 74]Al[sub 5]P[sub 11]C[sub 6]B[sub 4] and its dependence on the preparation method. Journal of Applied Physics, 2002, 91, 6601.	1.1	4
1073	Structure of Zr₅₂Ti₅Cu₁₈Ni₁₅Al₁₀ Bulk Metallic Glass at Elevated Temperatures. Materials Transactions, 2002, 43, 1947-1951.	0.4	4
1074	Formation and thermal stability of cluster structure in Nd55Cu15Ni10Co5Al15 bulk amorphous alloy. Materials Letters, 2002, 53, 305-315.	1.3	4
1075	Title is missing!. Journal of Materials Science Letters, 2002, 21, 893-896.	0.5	4
1076	Synthesis and Mechanical Properties of High Strength Aluminum-Based Quasicrystalline Composites. Journal of Metastable and Nanocrystalline Materials, 2003, 15-16, 245-252.	0.1	4
1077	Fracture-Induced Melting in Glassy and Nanostructured Composite Materials. Journal of Metastable and Nanocrystalline Materials, 2004, 20-21, 357-365.	0.1	4
1078	Crystallization Behaviour of Novel(Ti₃₃Zr₃₃Hf₃₃)_{100-x}(Ni₅₀Cu₅₀)_x Alloys with X=48 to 55. Journal of Metastable and Nanocrystalline Materials, 2005, 24-25, 657-660.	0.1	4
1079	Interfacial instability-driven amorphizationâˆ•nanocrystallization in a bulkNi45Cu5Ti33Zr16Si1alloy during solidification. Physical Review B, 2005, 72, .	1.1	4
1080	High-field magnetization and coercivity of hard magnetic mold-cast Nd80Fe20. Journal of Applied Physics, 2006, 99, 083904.	1.1	4

#	ARTICLE	IF	CITATIONS
1081	Formability Evaluation of both Monolithic and Multiphase Zr-Based Bulk Metallic Glasses. Key Engineering Materials, 2007, 345-346, 105-108.	0.4	4
1082	Influence of cooling rate on crystallization and microstructure of the monotectic Ni₅₄Nb₂₃Y₂₃alloy. Philosophical Magazine Letters, 2007, 87, 839-846.	0.5	4
1083	Deformation behavior and plastic instability of off-stoichiometric Coâ€“Fe alloys. Scripta Materialia, 2007, 57, 731-734.	2.6	4
1084	Inâ€situ Xâ€ray diffraction of mechanically milled Î²â€Al₃Mg₂ powders. Physica Status Solidi - Rapid Research Letters, 2008, 2, 272-274.	1.2	4
1085	Effect of crystalline phases on deformation and warm formability of a bulk metallic glass composite within supercooled liquid region. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2009, 526, 62-68.	2.6	4
1086	Mechanical Engineering Properties of CMAs. , 2010, , 273-315.		4
1087	Deformation induced structural evolution in bulk metallic glasses. Science Bulletin, 2011, 56, 3952-3959.	1.7	4
1088	Microstructure and stress in high-k Hfâ€“Yâ€“O thin films. Microelectronic Engineering, 2011, 88, 561-563.	1.1	4
1089	Thermal Stability and Crystallization Kinetics of Ti₄₀Zr₁₀Cu₃₄Pd₁₄Sn<sub>2</su Bulk Metallic Glass. Solid State Phenomena, 0, 188, 3-10.	[illegible]	4
1090	The precipitation of nanocrystalline structure in the joule heated Fe72Al5Ga2P11C6B4 metallic glasses. Journal of Mining and Metallurgy, Section B: Metallurgy, 2012, 48, 319-324.	0.3	4
1091	Effect of tungsten metal particle sizes on the solubility of molten alloy melt: Experimental observation of Gibbs-Thomson effect in nanocomposites. Applied Physics Letters, 2012, 101, 124103.	1.5	4
1092	Mechanism of the giant irreversible positive magnetic entropy change in a Tb-based bulk metallic glass. Applied Physics Letters, 2012, 101, 062411.	1.5	4
1093	Phase transitions in Al3Ca8 and Al14Ca13 intermetallic compounds induced by milling and annealing. Materials Letters, 2012, 79, 145-147.	1.3	4
1094	Evidence for viscous flow nature in Zr60Al15Ni25 metallic glass subjected to cold rolling. Applied Physics Letters, 2013, 103, 021907.	1.5	4
1095	Short hydrogen bonds in 2,4-dinitrobenzoic acid complexed with pyridine. Chemical Physics, 2013, 427, 87-94.	0.9	4
1096	Production of customized hybrid porous structures by powder metallurgy of Ni59Zr20Ti16Si2Sn3 glassy powders. Journal of Materials Research, 2013, 28, 2490-2498.	1.2	4
1097	Fabrication and characterization of Co40Fe22Ta8-xYxB30 (xâ€‰=â€‰0, 2.5, 4, 6, and 8) metallic glasses with high thermal stability and good soft magnetic properties. Journal of Applied Physics, 2014, 116, .	1.1	4
1098	Experimental and thermodynamic assessment of the Ndâ€“Zr system. Calphad: Computer Coupling of Phase Diagrams and Thermochemistry, 2014, 46, 103-107.	0.7	4

#	Article	IF	Citations
1099	Effect of Ga on the Wettability of CuGa10 on 304L Steel. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2015, 46, 1647-1653.	1.0	4
1100	Analysis of the thermal and temporal stability of Ta and Ti thin films onto SAWâ€"substrate materials (LiNbO₃ and LiTaO₃) using ARâ€XPS. Surface and Interface Analysis, 2016, 48, 570-574.	0.8	4
1101	Auger and Xâ€ray photoelectron spectroscopy on lithiated HOPG. Surface and Interface Analysis, 2016, 48, 501-504.	0.8	4
1102	A study of the micro- and nanoscale deformation behavior of individual austenitic dendrites in a FeCrMoVC cast alloy using micro- and nanoindentation experiments. Applied Physics Letters, 2016, 108, .	1.5	4
1103	Strain dependence of diffusion in Zr-based bulk amorphous alloy. Journal of Applied Physics, 2017, 122, 245105.	1.1	4
1104	Local-structure change rendered by electronic localization-delocalization transition in cerium-based metallic glasses. Physical Review B, 2018, 97, .	1.1	4
1105	Structural and Phase Evolution upon Annealing of Fe76Si9â^'xB10P5Mox (x = 0, 1, 2 and 3) Alloys. Metals, 2020, 10, 881.	1.0	4
1106	X-ray Diffraction Computed Nanotomography Applied to Solve the Structure of Hierarchically Phase-Separated Metallic Glass. ACS Nano, 2021, 15, 2386-2398.	7.3	4
1107	Additive Manufacturing of CoCrFeMnNi Highâ€Entropy Alloy/AISI 316L Stainless Steel Bimetallic Structures. Advanced Engineering Materials, 2023, 25, .	1.6	4
1108	Deformation-induced medium-range order changes in bulk metallic glasses. Physical Review Materials, 2022, 6, .	0.9	4
1109	Enhanced Oxygen Evolution Reaction of Zr-Cu-Ni-Al Metallic Glass with an Oxide Layer in Alkaline Media. ACS Catalysis, 2022, 12, 9190-9200.	5.5	4
1110	Mechanically Alloyed and Rapidly Quenched Fe-Zr-B-Cu: MÃ¶ssbauer Investigation. Materials Science Forum, 1998, 269-272, 425-430.	0.3	3
1111	Short-Range Order of Amorphous (Zr65Al7.5Cu17.5Ni10)100â€"xFex Alloys. Physica Status Solidi A, 1999, 175, 449-456.	1.7	3
1112	Corrosion Behaviour of Bulk Amorphous and Crystalline Zr₅₅Al₁₀Cu₃₀Ni₅ Alloys at Ambient and Elevated Temperature. Materials Science Forum, 2000, 343-346, 213-220.	0.3	3
1113	Low magnetostriction crystalline ribbons prepared by melt spinning and reactive annealing. Journal of Magnetism and Magnetic Materials, 2003, 254-255, 26-28.	1.0	3
1114	Electrochemical Reactivity of Zirconium-Based Bulk Metallic Glasses. Materials Research Society Symposia Proceedings, 2003, 806, 30.	0.1	3
1115	Influence of Al on Quasicrystal Formation in Zr-Ti-Nb-Cu-Ni-Al Metallic Glasses. Materials Research Society Symposia Proceedings, 2003, 806, 173.	0.1	3
1116	Structural and magnetic properties of Nd60Fe30â^'xCoxAl10 melt-spun ribbons. Journal of Applied Physics, 2003, 93, 6930-6932.	1.1	3

#	Article	IF	Citations
1117	Element segregation during crystal growth processes of Ce2PdxCo1â^'xSi3 intermetallic compounds. Journal of Crystal Growth, 2005, 275, e109-e114.	0.7	3
1118	Influence of additional elements on the development of nanoscale heterogeneities in (TiCu)-based bulk metallic glasses with enhanced ductility. Journal of Materials Research, 2007, 22, 2223-2229.	1.2	3
1119	Mixed viscous flow and softening of bulk metallic glasses. Journal of Non-Crystalline Solids, 2007, 353, 3754-3757.	1.5	3
1120	Crystallization behavior and consolidation of ball milled Zr60Ti5Ag5Cu12.5Ni10Al7.5 glassy powders. Journal of Alloys and Compounds, 2008, 456, 159-162.	2.8	3
1121	Formation of nano-scale Ï‰-phase in arc-melted micron-scale dendrite reinforced Zr73.5Nb9Cu7Ni1Al9.5 ultrafine composite during heat treatment. Intermetallics, 2008, 16, 538-543.	1.8	3
1122	Evolution of Constitution, Structure, and Morphology in FeCo-Based Multicomponent Alloys. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2010, 41, 1640-1645.	1.1	3
1123	Enhanced gas adsorption property of hybrid nanopore-structured copper oxide synthesized from the carbon nanotube/copper composites. Journal of Applied Physics, 2010, 108, 064303.	1.1	3
1124	Intrinsically Ductile Failure in a Nanocrystalline Beta Titanium Alloy. Advanced Engineering Materials, 2011, 13, 1108-1113.	1.6	3
1125	Atomic packing and short to medium range order in a U-Fe metallic glass. Applied Physics Letters, 2012, 101, 021909.	1.5	3
1126	Effect of geometrical constraint condition on the formation of nanoscale twins in the Ni-based metallic glass composite. Philosophical Magazine Letters, 2014, 94, 351-360.	0.5	3
1127	Thermosonic platinum wire bonding on platinum. , 2014, , .		3
1128	Influence of ball milling on atomic structure and magnetic properties of Co40Fe22Ta8B30 glassy alloy. Materials Characterization, 2014, 92, 96-105.	1.9	3
1129	Evaluation of the relationship between the effective strain and the springback behavior during the deformation of metallic glass ribbons. Applied Physics Letters, 2014, 105, 061906.	1.5	3
1130	Ideal shear banding in metallic glass. Philosophical Magazine, 2016, 96, 3159-3176.	0.7	3
1131	Coexistence of adjacent vacancy-ordered and eutectic phases in Alâ€"Cuâ€"Ni alloys. Philosophical Magazine Letters, 2018, 98, 486-493.	0.5	3
1132	Face centered cubic titanium in high pressure torsion processed carbon nanotubes reinforced titanium composites. Journal of Alloys and Compounds, 2019, 806, 939-945.	2.8	3
1133	Novel Î± + Î² Type Ti-Fe-Cu Alloys Containing Sn with Pertinent Mechanical Properties. Metals, 2020, 10, 34.	1.0	3
1134	Stability, elasticity and electronic structures of Co-Zr binary intermetallic compounds. Philosophical Magazine, 2020, 100, 874-893.	0.7	3

#	Article	IF	Citations
1135	Study of thermal and structural characteristics of mechanically milled nanostructured Al-Cu-Fe quasicrystals. Materials Chemistry and Physics, 2020, 251, 123071.	2.0	3
1136	Cryo-Casting for Controlled Decomposition of Cuâ€“Zrâ€“Al Bulk Metallic Glass into Nanomaterials: Implications for Design Optimization. ACS Applied Nano Materials, 2021, 4, 7771-7780.	2.4	3
1137	Effective Methanol Oxidation with Platinum Nanoparticles-Decorated Poly(2-bromomethyl-2-methyl-3,4-propylenedioxythiophene)-Coated Glassy Carbon Electrode. Journal of the Electrochemical Society, 2021, 168, 086503.	1.3	3
1138	Morphology of cracks and shear bands in polymer-supported thin film metallic glasses. Materials Today Communications, 2021, 28, 102547.	0.9	3
1139	Effect of cold rolling on the pressure coefficient of glass transition temperature in bulk metallic glasses. Thermochimica Acta, 2021, 706, 179071.	1.2	3
1140	Synthesis, thermodynamic analysis and magnetic study of novel ball- milled Co50Fe25Ta5Si5C15 glassy powders with high thermal stability. Journal of Alloys and Compounds, 2022, 894, 162509.	2.8	3
1141	Structural and magnetic properties of nanocrystalline (Fe-Cu)93Zr7 alloys prepared by mechanical alloying. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 1997, 226-228, 577-580.	2.6	2
1142	Effect of annealing in hydrogen on composition, structure and magnetic properties of rapidly quenched Feâ€“Coâ€“Siâ€“TMâ€“B ribbons. Journal of Magnetism and Magnetic Materials, 2000, 215-216, 434-436.	1.0	2
1143	Thermal Stability and Viscosity of Mg-Based Glasses and Composites. Journal of Metastable and Nanocrystalline Materials, 2000, 8, 129-134.	0.1	2
1144	Formation of Nanocrystals in Zr-Al-Cu-Ni Alloys. Journal of Metastable and Nanocrystalline Materials, 2000, 8, 185-190.	0.1	2
1145	Soft magnetic properties of FeCoSiAlGaPCB amorphous alloys. Journal of Magnetism and Magnetic Materials, 2003, 254-255, 444-446.	1.0	2
1146	The Effect of Nanosized Y₂O₃ as a Second Phase in Mechanically Alloyed Mg-Y-Cu Glass Matrix Composites. Journal of Metastable and Nanocrystalline Materials, 2003, 15-16, 37-42.	0.1	2
1147	Co-based Soft Magnetic Bulk Materials Prepared by Hot Powder Compaction. European Physical Journal D, 2004, 54, 81-84.	0.4	2
1148	Low magnetostriction crystalline ribbons prepared by meltâ€“spinning and reactive annealing. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2004, 375-377, 1125-1128.	2.6	2
1149	Influence of Nb addition on structural and magnetic properties of FeNbAlGaPCB metallic glasses. Journal of Magnetism and Magnetic Materials, 2005, 290-291, 1461-1464.	1.0	2
1150	Powder Metallurgy of Nanostructured High Strength Materials. Materials Science Forum, 2007, 534-536, 1405-1408.	0.3	2
1151	Effect of Zr on the crystallization behavior of multi-component Zr-based metallic glasses. Journal of Alloys and Compounds, 2007, 434-435, 217-220.	2.8	2
1152	Small angle neutron scattering studies of hard magnetic bulk amorphous alloys. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2007, 449-451, 448-451.	2.6	2

#	Article	IF	Citations
1153	The role of combined addition of Ti and B in magnetic hardening of devitrified Pr₂Fe₁₄B/(Fe₃B,Î±â€Fe) nanocomposite magnets. Physica Status Solidi (A) Applications and Materials Science, 2008, 205, 1207-1210.	0.8	2
1154	Propagation and Deflection of Shear Bands in Metallic Glass under Circumferential Constraint. Advanced Engineering Materials, 2008, 10, 1117-1121.	1.6	2
1155	Magnetic hardening mechanism of PrCo₅-based ribbons with C addition prepared by melt spinning. International Journal of Materials Research, 2008, 99, 67-69.	0.1	2
1156	Enhanced Work Hardening of Cu-Based Bulk Metallic Glass Composites by <i>In Situ</i> Formed Nano-Scale Heterogeneities. Materials Science Forum, 2009, 633-634, 665-673.	0.3	2
1157	Serrated flow behavior induced by blunt mechanism of shear crack propagation in metallic glass. Journal of Materials Research, 2009, 24, 436-440.	1.2	2
1158	Production of high-strength Al85Y8Ni5Co2bulk alloy by spark plasma sintering. Journal of Physics: Conference Series, 2010, 240, 012155.	0.3	2
1159	Deformation mechanisms of a bimodal eutectic Mg72Cu5Zn23 ultrafine composite. Materials Letters, 2010, 64, 534-536.	1.3	2
1160	Surface oxidation and magnetic properties of (Cu60Co40)68Zr32 glassy ribbons. Journal of Alloys and Compounds, 2010, 506, 520-525.	2.8	2
1161	Crystallization of Fe82Si2B16and Fe82Si4B14metallic glasses upon isothermal and non-isothermal annealing. EPJ Web of Conferences, 2011, 15, 01008.	0.1	2
1162	Synthesis of functional porous metallic material from metallic glass composites precursor by powder metallurgy route. Revue De Metallurgie, 2012, 109, 11-16.	0.3	2
1163	Mechanical behavior of the cold-rolled Zr57Ti8Nb2.5Cu13.9Ni11.1Al7.5 metallic glassâ€“quasicrystalline composite. International Journal of Materials Research, 2012, 103, 1113-1116.	0.1	2
1164	Influence of viscous flow on the deformation behavior of bulk metallic glassy alloys in supercooled liquid region. Intermetallics, 2012, 30, 72-75.	1.8	2
1165	Phase formation in rapid solidified Agâ€“Y alloys. Journal of Applied Physics, 2013, 113, 104308.	1.1	2
1166	Production and characterization of Al 2024 matrix composites reinforced with Î²-Al3Mg2 complex metallic alloy particles. Materials Research Society Symposia Proceedings, 2013, 1517, 1.	0.1	2
1167	Inverse Hall-Petch Like Mechanical Behaviour in Nanophase Al-Cu-Fe Quasicrystals: A New Phenomenon. Acta Physica Polonica A, 2014, 126, 543-548.	0.2	2
1168	Improved Electrochemical Performance of Cu₃B₂O₆-Based Conversion Model Electrodes by Composite Formation with Different Carbon Additives. Journal of the Electrochemical Society, 2014, 161, A1224-A1230.	1.3	2
1169	ARXPS measurement simulation for improved data interpretation at complex Ta/Liâ€niobate interfaces. Surface and Interface Analysis, 2014, 46, 1094-1098.	0.8	2
1170	Unusual oxidation behavior of light metal hydride by tetrahydrofuran solvent molecules confined in ordered mesoporous carbon. Journal of Materials Research, 2014, 29, 55-63.	1.2	2

#	ARTICLE	IF	CITATIONS
1171	Influence of Al on glass forming ability and nanocrystallization behavior of cast-iron based bulk amorphous alloy. Journal of Materials Research, 2015, 30, 818-824.	1.2	2
1172	Concurrent streams in Markov chain usage models for statistical testing of complex systems. , 2015, , .		2
1173	Effect of Cu and Gd on Structural and Magnetic Properties of Fe-Co-B-Si-Nb Metallic Glasses. Solid State Phenomena, 2016, 254, 60-64.	0.3	2
1174	In-situ Quasi-Instantaneous e-beam Driven Catalyst-Free Formation Of Crystalline Aluminum Borate Nanowires. Scientific Reports, 2016, 6, 22524.	1.6	2
1175	Granulation of Bulk Metallic Glass Forming Alloys as a Feedstock for Thermoplastic Forming and their Compaction into Bulk Samples. Materials Science Forum, 2016, 879, 589-594.	0.3	2
1176	Effect of Co additions on the phase formation, thermal stability, and mechanical properties of rapidly solidified Tiâ€"Cu-based alloys. Journal of Materials Research, 2017, 32, 2578-2584.	1.2	2
1177	Correlation between the atomic configurations and the amorphous-to-icosahedral phase transition in metallic glasses. Journal of Materials Research, 2018, 33, 2775-2783.	1.2	2
1178	Influence of directional microstructure on mechanical properties in Alâ€based ultrafine bimodal lamellar structured alloy. Material Design and Processing Communications, 2019, 1, e52.	0.5	2
1179	Strain perceptibility of elements on the diffusion in Zr-based amorphous alloys. Scientific Reports, 2020, 10, 4575.	1.6	2
1180	Soft Ferromagnetic Bulk Metallic Glass with Potential Self-Healing Ability. Materials, 2020, 13, 1319.	1.3	2
1181	Deformation-Mode-Sensitive Behavior of CuZr-Based Bulk Metallic Glasses Under Dynamic Loading. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2021, 52, 8-13.	1.1	2
1182	Wetting behaviour and reactivity between liquid Gd and ZrO2 substrate. Journal of Mining and Metallurgy, Section B: Metallurgy, 2017, 53, 285-293.	0.3	2
1183	Effect of supporting electrolyte on capacitance and morphology of electrodeposited poly(3,4-propylenedioxythiophene) derivatives bearing reactive functional groups. Molecular Systems Design and Engineering, 0, , .	1.7	2
1184	Nanostructural Transformation and Mechanical Property Variation of Zr-Ti-Al-Cu-Ni Bulk Amorphous Alloys. Materials Science Forum, 1998, 269-272, 785-790.	0.3	1
1185	Variation of Superconductivity in Mechanically Alloyed Pseudo-Quaternary Y-Pt/Pd-B-C. Journal of Metastable and Nanocrystalline Materials, 2000, 8, 924-932.	0.1	1
1186	Effect of Annealing in Hydrogen on Composition, Structure and Magnetic Properties of Rapidly Quenched Fe-Co-Si-TM-B Ribbons. Materials Science Forum, 2000, 343-346, 835-840.	0.3	1
1187	Viscosity of Mechanically Alloyed Amorphous Zr-Cu-Al-Ni Matrix Composites in the Supercooled Liquid Region. Materials Science Forum, 2002, 386-388, 71-76.	0.3	1
1188	PropriÃ©tÃ©s magnÃ©tiques et structurales d'alliages Nd-(Fe,Co)-Al bruts de coulÃ©e. Annales De Chimie: Science Des Materiaux, 2002, 27, 41-47.	0.2	1

#	Article	IF	Citations
1189	TEM and XAS Characterization of Hard Magnetic Phase in Nd-Fe Alloys. Materials Research Society Symposia Proceedings, 2003, 806, 143.	0.1	1
1190	MECHANICAL BEHAVIOR OF BULK GLASSY Fe65.5Cr4Mo4Ga4P12C5B5.5. Materials Research Society Symposia Proceedings, 2003, 806, 368.	0.1	1
1191	Formation of Quasicrystals in Zr-Ti-Nb-Cu-Ni-Al Melt-Spun and Ball-Milled Multicomponent Alloys. Journal of Metastable and Nanocrystalline Materials, 2003, 15-16, 67-72.	0.1	1
1192	Local Order Changes in Amorphous Zr_{52.5}Hf₂Ti_{7.5}Cu₂₀Al₁₀Ni₈ Alloy upon Crystallization. Journal of Metastable and Nanocrystalline Materials, 2004, 20-21, 499-504.	0.1	1
1193	Zr-Nb-Cu-Ni-Al Glass or Nanocrystalline Matrix Composites Containing Dendritic BCC Phase Precipitates. Journal of Metastable and Nanocrystalline Materials, 2004, 20-21, 41-46.	0.1	1
1194	Glass Transition and Crystallization of Zr₆₀Ti₂Al₁₀Cu₂₀Ni₈ Bulk Metallic Glass. Journal of Metastable and Nanocrystalline Materials, 2004, 20-21, 59-64.	0.1	1
1195	Magnetoresistance and Magnetoimpedance Effects in DC Joule Heated Fe72Al5Ga2P11C6B4 Amorphous Ribbons. European Physical Journal D, 2004, 54, 157-160.	0.4	1
1196	Magnetic properties and magnetic domain structure of bulk glass forming Nd60Al10Fe20Co10 alloy. Physica Status Solidi A, 2004, 201, 1563-1569.	1.7	1
1197	Microstructural and Nano-Mechanical Characterisation of Multicomponent Composites Nanocrystalline Matrix. Advanced Engineering Materials, 2005, 7, 197-201.	1.6	1
1198	Phase Formation in Quinary Ti-Based Nanocomposites and an Analogous Ternary System with a View to Thermodynamic Modelling. Journal of Metastable and Nanocrystalline Materials, 2005, 24-25, 53-56.	0.1	1
1199	In Situ Formed Bulk Nanostructured Ti-Base Composites. Journal of Metastable and Nanocrystalline Materials, 2005, 24-25, 31-36.	0.1	1
1200	Enhanced Critical Current Density in Nanocrystalline Mechanically Alloyed<tex>$rm MgB_2$</tex>Bulk and Fe Sheathed Tapes. IEEE Transactions on Applied Superconductivity, 2005, 15, 3192-3195.	1.1	1
1201	Superconducting gaps of nanocrystalline MgB2. Physica C: Superconductivity and Its Applications, 2007, 460-462, 553-554.	0.6	1
1202	Deformation and fracture of Ti-base nanostructured composite. International Journal of Materials Research, 2008, 99, 985-990.	0.1	1
1203	Stress-induced martensitic transformation in a Ti₄₅Zr₃₈Al₁₇cast rod. Journal of Physics: Conference Series, 2009, 144, 012090.	0.3	1
1204	The 13th International Conference on Rapidly Quenched and Metastable Materials. Journal of Physics: Conference Series, 2009, 144, 011001.	0.3	1
1205	Solid Solution Sr₂Sc_{1+<i>x</i>}Re_{1â€"<i>x</i>}O₆ with a PerovskiteÂâ€Like Structure: Phase Transitions and Magnetic Properties. European Journal of Inorganic Chemistry, 2010, 2010, 1196-1206.	1.0	1
1206	Nanocrystalline metals and alloys prepared by mechanical attrition. , 2011, , 59-84.		1

#	Article	IF	Citations
1207	EFFECT OF COPPER ADDITIVES ON IRREVERSIBLE MELTING IN [{(Fe0.5Co0.5)0.75B0.2Si0.05}96Nb4]100-xCux, x â‰ 3, ALLOYS. International Journal of Nanoscience, 2011, 10, 1013-1017.	0.4	1
1208	The Effect of Microstructural Changes Induced by Annealing on Mechanical Properties of FeCoCrMoCBY Bulk Glassy Alloy. Advanced Materials Research, 2012, 488-489, 861-865.	0.3	1
1209	Local stress gradients in Ti/Al composite wires determined by two-dimensional X-ray microdiffraction. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2014, 616, 44-54.	2.6	1
1210	Frontispiece: Alloying Behavior of Self-Assembled Noble Metal Nanoparticles. Chemistry - A European Journal, 2016, 22, .	1.7	1
1211	Advanced Engineering Materials 4â^•2017. Advanced Engineering Materials, 2017, 19, 1700108.	1.6	1
1212	Optimizing the magnetic properties of Fe-based amorphous powder by adjusting atomic structures from vitrification at different temperatures. Journal of Applied Physics, 2019, 126, .	1.1	1
1213	Removing the oxide layer in a nanostructured aluminum alloy by local shear deformation between nanoscale phases. Powder Technology, 2019, 343, 733-737.	2.1	1
1214	Cluster-Related Phenomena in the Properties and Transformations of Transition Metal-Based Glassy Alloys. Metals, 2020, 10, 1025.	1.0	1
1215	Highâ€entropy eutectic composites with high strength and low Young's modulus. Material Design and Processing Communications, 2020, 3, e211.	0.5	1
1216	On the Orowan stress in intermetallic ODS alloys and its superposition with grain size and solid solution hardening. International Journal of Materials Research, 2005, 96, 801-806.	0.8	1
1217	Powder Metallurgy of Nanostructured High Strength Materials. Materials Science Forum, 0, , 1405-1408.	0.3	1
1218	Production of Porous Metallic Glass Granule by Optimizing Chemical Processing. Journal of Korean Powder Metallurgy Institute, 2014, 21, 251-255.	0.2	1
1219	Crystallization of Amorphous Material. , 2007, , 6-1-6-27.		1
1220	Combining Time and Concurrency in Model-Based Statistical Testing of Embedded Real-Time Systems. Lecture Notes in Computer Science, 2015, , 22-31.	1.0	1
1221	Phase Transitions and Quasi-Crystal Formation in Al-Cu-Mn Induced by Ball Milling. Europhysics Letters, 1991, 14, 188-188.	0.7	0
1222	Investigations of the solid state reaction process in mechanically alloyed Zr-Al-Cu-Ni bulk metallic glasses by analytical transmission electron microscopy. Fresenius' Journal of Analytical Chemistry, 1998, 361, 740-742.	1.5	0
1223	Mechanically Attrited Superconducting Y-TM-Borocarbides (TM=Ni, Pd). Materials Science Forum, 1999, 312-314, 61-66.	0.3	0
1224	Pressure-Volume Relation of Zr-Ti-Cu-Ni-Be Bulk Metallic Glass. Journal of Metastable and Nanocrystalline Materials, 2000, 8, 146-150.	0.1	0

#	Article	IF	Citations
1225	Formation of Nanocrystals by Crystallisation of Zr-Al-Cu-Ni-Fe Metallic Glasses. Materials Transactions, 2001, 42, 1509-1516.	0.4	0
1226	Improvement of the soft magnetic properties of Fe-based glassy alloys with a large supercooled-liquid region. , 0, , .		0
1227	Free Volume Evolution in Bulk Metallic Glass during High Temperature Creep. Materials Research Society Symposia Proceedings, 2002, 754, 1.	0.1	0
1228	Nanocrystalline ZrN particles embedded in Zr-Fe-Cu-Al-Ni amorphous matrix.. Materials Research Society Symposia Proceedings, 2002, 754, 1.	0.1	0
1229	Surface coating on steel by pressure friction. Materials Science and Technology, 2002, 18, 1382-1384.	0.8	0
1230	The effect of current annealing on giant magneto-impedance of Fe/sub 72/Al/sub 5/Ga/sub 2/P/sub 11/C/sub 6/B/sub 4/ amorphous ribbons. , 0, , .		0
1231	Medium-Range Order and Crystallization in Zr59Cu20Al10Ni8Ti3 and Zr57Cu20Al10Ni8Ti5 Metallic Glasses Investigated by NMR. Materials Research Society Symposia Proceedings, 2003, 806, 214.	0.1	0
1232	Microstructure, thermal stability and mechanical properties of slowly cooled Zr-based composites containing dendritic bcc phase precipitates. Materials Research Society Symposia Proceedings, 2003, 806, 356.	0.1	0
1233	Nano-Mechanical Study of Mechanically Alloyed Zr-Cu-Al-Ni Glass Composite Containing Second-Phase ZrC Particles. Materials Research Society Symposia Proceedings, 2003, 806, 362.	0.1	0
1234	Influence of Al on Quasicrystal Formation in Zr-Ti-Nb-Cu-Ni-Al Metallic Glasses. Materials Research Society Symposia Proceedings, 2003, 805, 200.	0.1	0
1235	Formation of High-Strength Zr-Nb-Cu-Ni-Al Alloys by Warm Extrusion of Gas Atomized Powders. Materials Research Society Symposia Proceedings, 2003, 806, 114.	0.1	0
1236	Microstructure of Ti-Based, Dendrite/Nanostructured-Matrix Composites. Materials Research Society Symposia Proceedings, 2003, 806, 321.	0.1	0
1237	Mechanically Alloyed MgB₂ Superconductors: Microstructure, Tape Formation and Critical Currents. Journal of Metastable and Nanocrystalline Materials, 2005, 24-25, 559-564.	0.1	0
1238	Formation of Quasicrystals in Zr-Ti-Nb-Cu-Ni-Al Alloys by Casting or Annealing. Journal of Metastable and Nanocrystalline Materials, 2005, 24-25, 511-514.	0.1	0
1239	Mechanical Characterization of Cu₆₀Zr₂₂Ti₁₈ Bulk Metallic Glasses. Journal of Metastable and Nanocrystalline Materials, 2005, 24-25, 669-672.	0.1	0
1240	Is a particular quenched-in short-range order necessary for quasicrystal formation from glassy precursors?. Physica Status Solidi (B): Basic Research, 2006, 243, R34-R36.	0.7	0
1241	Influence of ball milling on quasicrystal formation in melt-spun Zr-based glassy ribbons. Philosophical Magazine, 2006, 86, 367-371.	0.7	0
1242	Consolidation and Mechanical Properties of Mechanically Alloyed Al-Mg Powders. Materials Research Society Symposia Proceedings, 2008, 1128, 54601.	0.1	0

#	Article	IF	Citations
1243	Microstructure and magnetic properties of binary Nd₈₀Fe₂₀with Ga additions. Journal of Physics: Conference Series, 2009, 144, 012103.	0.3	0
1244	Effect of Residual Stress on Mechanical Property of Monolithic Bulk Metallic Glass. Materials Science Forum, 2010, 654-656, 1050-1053.	0.3	0
1245	Preparation and Cycling Performance of Iron or Iron Oxide Containing Amorphous Al-Li Alloys as Electrodes. Inorganics, 2014, 2, 674-682.	1.2	0
1246	D2 Enertrode: Production Technologies and Component Integration of Nanostructured Carbon Electrodes for Energy Technologyâ€”Functionalized Carbon Materials for Efficient Electrical Energy Supply. Advanced Engineering Materials, 2014, 16, 1196-1201.	1.6	0
1247	Microstructure and mechanical properties of a newly developed high strength Mg54.7Cu11.5Ag3.3Gd5.5Sc25 alloy. Intermetallics, 2014, 45, 84-88.	1.8	0
1248	About Replacement of Nickel as Amorphization Element for Fabrication of Ultra-Rapidly Solidified Ti-Zr Alloys. Solid State Phenomena, 0, 216, 3-10.	0.3	0
1249	Effect of Alloying Elements in Melt Spun Mg-alloys for Hydrogen Storage. Materials Research, 2016, 19, 20-26.	0.6	0
1250	CenUMs â€“ concurrency enhanced usage models for statistical testing of complex systems with concurrent streams of use. Science of Computer Programming, 2016, 132, 173-189.	1.5	0
1251	Substitution effect on glass formation of NixCo60âˆ’xNb40 alloys. Materials Letters, 2016, 185, 541-544.	1.3	0
1252	Deformation localization in metallic glasses studied by in situ TEM deformation. Microscopy and Microanalysis, 2018, 24, 1820-1821.	0.2	0
1253	Microstructural Characterization of a Laser Surface Remelted Cu-Based Shape Memory Alloy. Materials Research, 2018, 21, .	0.6	0
1254	Nanodiffraction Strain Mapping of Metallic Glasses During In Situ Deformation. Structural Integrity, 2019, , 356-357.	0.8	0
1255	Firstâ€Principles Study of the Intrinsic Properties of the fcc/hcpâ€Ti Boundary in Carbon Nanotube/Ti Composites Prepared by Highâ€Pressure Torsion. Physica Status Solidi (B): Basic Research, 2021, 258, 2100093.	0.7	0
1256	High Strength Nanostructured Metastable Alloys. Journal of Korean Powder Metallurgy Institute, 2002, 9, 394-408.	0.2	0
1257	Extraction of boron Fe8B2 ribbons by annealing under hydrogen flow. European Physical Journal Special Topics, 2004, 120, 55-59.	0.2	0
1258	Annealing-induced phase transitions in a Zr-Ti-Nb-Cu-Ni-Al bulk metallic glassmatrix composite containing quasicrystalline precipitates. International Journal of Materials Research, 2006, 97, 996-1000.	0.1	0
1259	Prof. Dr. rer. nat. Ludwig Schultz. International Journal of Materials Research, 2012, 103, 648-649.	0.1	0
1260	Correlation Between Internal States and Strength in Bulk Metallic Glass. , 2013, , 3199-3206.		0

#	Article	IF	Citations
1261	Nanosized Magnetization Density Profiles in Hard Magnetic NdÏ£¿FeÏ£¿CoÏ£¿Al Glasses. , 0, , 263-276.		0