Juergen H Eckert

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/9150149/publications.pdf

Version: 2024-02-01

1,262	51,889	1893	4774
papers	citations	102 h-index	169 g-index

1283	1283	1283	24433
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Additive Manufacturing of CoCrFeMnNi Highâ€Entropy Alloy/AISI 316L Stainless Steel Bimetallic Structures. Advanced Engineering Materials, 2023, 25, .	3.5	4
2	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.	2.9	9
3	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.	5.5	3
4	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.	3.1	8
5	Structure-dynamics relationships in cryogenically deformed bulk metallic glass. Nature Communications, 2022, 13, 127.	12.8	24
6	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.	7.1	5
7	Relaxation and Strain-Hardening Relationships in Highly Rejuvenated Metallic Glasses. Materials, 2022, 15, 1702.	2.9	5
8	Thermoplasticity of metallic glasses: Processing and applications. Progress in Materials Science, 2022, 127, 100941.	32.8	26
9	Deformation-induced medium-range order changes in bulk metallic glasses. Physical Review Materials, 2022, 6, .	2.4	4
10	Mapping Shear Bands in Metallic Glasses: From Atomic Structure to Bulk Dynamics. Physical Review Letters, 2022, 128, .	7.8	13
11	Fabrication of stainless-steel microfibers with amorphous-nanosized microstructure with enhanced mechanical properties. Scientific Reports, 2022, 12, .	3.3	6
12	Enhanced Oxygen Evolution Reaction of Zr-Cu-Ni-Al Metallic Glass with an Oxide Layer in Alkaline Media. ACS Catalysis, 2022, 12, 9190-9200.	11.2	4
13	Structural homology of the strength for metallic glasses. Journal of Materials Science and Technology, 2021, 81, 123-130.	10.7	8
14	Composite of medium entropy alloys synthesized using spark plasma sintering. Scripta Materialia, 2021, 191, 46-51.	5.2	16
15	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.	2.2	2
16	Microstructure refinement and enhanced tensile properties of Al-11Mg2Si alloy modified by erbium. Journal of Alloys and Compounds, 2021, 860, 158421.	5.5	10
17	Thermomechanical and structural characterization of polybutadiene/poly(ethylene oxide)/<scp>CNT stretchable electrospun fibrous</scp> membranes. Polymers for Advanced Technologies, 2021, 32, 248-261.	3.2	6
18	X-ray Diffraction Computed Nanotomography Applied to Solve the Structure of Hierarchically Phase-Separated Metallic Glass. ACS Nano, 2021, 15, 2386-2398.	14.6	4

#	Article	IF	Citations
19	Electrospun polyacrylonitrile/2-(acryloyloxy)ethyl ferrocenecarboxylate polymer blend nanofibers. Molecular Systems Design and Engineering, 2021, 6, 476-492.	3.4	5
20	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.	3.4	11
21	In situ TEM observation of phase transformation in bulk metallic glass composites. Materials Research Letters, 2021, 9, 189-194.	8.7	9
22	Nanoporous Pdâ€“Cuâ€“Si Amorphous Thin Films for Electrochemical Hydrogen Storage and Sensing. ACS Applied Energy Materials, 2021, 4, 2672-2680.	5.1	7
23	Medium-range order dictates local hardness in bulk metallic glasses. Materials Today, 2021, 44, 48-57.	14.2	47
24	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.	1.5	0
25	Origin of Electrocatalytic Activity in Amorphous Nickelâ€“Metalloid Electrodeposits. ACS Applied Materials & Interfaces, 2021, 13, 23689-23701.	8.0	8
26	Molecular Dynamics Study of the Nanoindentation Behavior of Cu64Zr36/Cu Amorphous/Crystalline Nanolaminate Composites. Materials, 2021, 14, 2756.	2.9	10
27	Additive Manufacturing of Aluminumâ€Based Metal Matrix Compositesâ€”A Review. Advanced Engineering Materials, 2021, 23, 2100053.	3.5	42
28	Mechanochemical Synthesis of Rosin-Modified Montmorillonite: A Breakthrough Approach to the Next Generation of OMMT/Rubber Nanocomposites. Nanomaterials, 2021, 11, 1974.	4.1	7
29	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.	5.0	3
30	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.	5.5	35
31	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.	2.9	3
32	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.	5.5	10
33	Morphology of cracks and shear bands in polymer-supported thin film metallic glasses. Materials Today Communications, 2021, 28, 102547.	1.9	3
34	Enhancement of Interfacial Hydrogen Interactions with Nanoporous Gold-Containing Metallic Glass. ACS Applied Materials & Interfaces, 2021, 13, 42613-42623.	8.0	8
35	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.	3.5	9
36	Direct observation of nanocrystal-induced enhancement of tensile ductility in a metallic glass composite. Materials and Design, 2021, 209, 109970.	7.0	5

#	Article	IF	Citations
37	Transition metal-based high entropy alloy microfiber electrodes: Corrosion behavior and hydrogen activity. Corrosion Science, 2021, 193, 109880.	6.6	16
38	Effect of cold rolling on the pressure coefficient of glass transition temperature in bulk metallic glasses. Thermochimica Acta, 2021, 706, 179071.	2.7	3
39	Wear Behavior of a Heat-Treatable Al-3.5Cu-1.5Mg-1Si Alloy Manufactured by Selective Laser Melting. Materials, 2021, 14, 7048.	2.9	7
40	Microstructural characterization of medium entropy alloy thin films. Scripta Materialia, 2020, 177, 22-26.	5.2	28
41	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.	10.7	42
42	Evaluation of hydrogen storage performance of ZrTiVNiCrFe in electrochemical and gas-solid reactions. International Journal of Hydrogen Energy, 2020, 45, 5347-5355.	7.1	40
43	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.	5.6	34
44	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.	2.2	10
45	Atomic-scale origin of shear band multiplication in heterogeneous metallic glasses. Scripta Materialia, 2020, 178, 57-61.	5.2	83
46	Microstructures, Mechanical Properties, and Corrosion Behaviors of Refractory High-Entropy ReTaWNbMo Alloys. Journal of Materials Engineering and Performance, 2020, 29, 399-409.	2.5	13
47	Electrocatalytic Behavior of Hydrogenated Pd-Metallic Glass Nanofilms: Butler-Volmer, Tafel, and Impedance Analyses. Electrocatalysis, 2020, 11, 94-109.	3.0	27
48	Synthesis and characterization of novel mesoporous strontium-modified bioactive glass nanospheres for bone tissue engineering applications. Microporous and Mesoporous Materials, 2020, 294, 109889.	4.4	30
49	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.	10.7	22
50	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.	5.8	11
51	Novel Î± + Î² Type Ti-Fe-Cu Alloys Containing Sn with Pertinent Mechanical Properties. Metals, 2020, 10, 34.	2.3	3
52	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.	5.6	19
53	Selective Laser Melting of Aluminum and Its Alloys. Materials, 2020, 13, 4564.	2.9	55
54	Surface-governed electrochemical hydrogenation in FeNi-based metallic glass. Journal of Power Sources, 2020, 475, 228700.	7.8	11

#	Article	IF	Citations
55	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.	5.5	8
56	Mg-Based Metallic Glass-Polymer Composites: Investigation of Structure, Thermal Properties, and Biocompatibility. Metals, 2020, 10, 867.	2.3	10
57	Effective electrocatalytic methanol oxidation of Pd-based metallic glass nanofilms. Nanoscale, 2020, 12, 22586-22595.	5.6	22
58	Selective laser melting of high-strength, low-modulus Tiâ€“35Nbâ€“7Zrâ€“5Ta alloy. Materialia, 2020, 14, 100941.	2.7	48
59	Cluster-Related Phenomena in the Properties and Transformations of Transition Metal-Based Glassy Alloys. Metals, 2020, 10, 1025.	2.3	1
60	Surface Functionalization of Biomedical Ti-6Al-7Nb Alloy by Liquid Metal Dealloying. Nanomaterials, 2020, 10, 1479.	4.1	19
61	Signature of local stress states in the deformation behavior of metallic glasses. NPG Asia Materials, 2020, 12, .	7.9	35
62	A review of particulate-reinforced aluminum matrix composites fabricated by selective laser melting. Transactions of Nonferrous Metals Society of China, 2020, 30, 2001-2034.	4.2	106
63	Highâ€entropy eutectic composites with high strength and low Young's modulus. Material Design and Processing Communications, 2020, 3, e211.	0.9	1
64	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.	5.6	32
65	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.	5.5	16
66	New Mg-Ca-Zn amorphous alloys: Biocompatibility, wettability and mechanical properties. Materialia, 2020, 12, 100799.	2.7	26
67	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.	3.1	26
68	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.	5.5	7
69	Strain perceptibility of elements on the diffusion in Zr-based amorphous alloys. Scientific Reports, 2020, 10, 4575.	3.3	2
70	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.	5.8	7
71	Soft Ferromagnetic Bulk Metallic Glass with Potential Self-Healing Ability. Materials, 2020, 13, 1319.	2.9	2
72	Oligoether Ester-Functionalized ProDOT Copolymers on Si/Monolayer Graphene as Capacitive Thin Film Electrodes. Journal of the Electrochemical Society, 2020, 167, 070543.	2.9	9

#	Article	IF	Citations
73	Thermal expansion behavior of Alâ€“xSi alloys fabricated using selective laser melting. Progress in Additive Manufacturing, 2020, 5, 247-257.	4.8	12
74	Hydrogen storage performance of the multi-principal-component CoFeMnTiVZr alloy in electrochemical and gasâ€“solid reactions. RSC Advances, 2020, 10, 24613-24623.	3.6	34
75	Selective laser melting of nanostructured Al-Y-Ni-Co alloy. Manufacturing Letters, 2020, 25, 21-25.	2.2	11
76	Structural and Phase Evolution upon Annealing of Fe76Si9â^'xB10P5Mox (x = 0, 1, 2 and 3) Alloys. Metals, 2020, 10, 881.	2.3	4
77	Outstanding strengthening behavior and dynamic mechanical properties of in-situ Alâ€“Al3Ni composites by Cu addition. Composites Part B: Engineering, 2020, 189, 107891.	12.0	40
78	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.	5.6	48
79	Chemical bonding effects on the brittle-to-ductile transition in metallic glasses. Acta Materialia, 2020, 188, 273-281.	7.9	29
80	Non-isothermal crystallization kinetics of a Feâ€“Crâ€“Moâ€“Bâ€“C amorphous powder. Journal of Alloys and Compounds, 2020, 823, 153783.	5.5	16
81	Fabrication of Metastable Crystalline Nanocomposites by Flash Annealing of Cu47.5Zr47.5Al5 Metallic Glass Using Joule Heating. Nanomaterials, 2020, 10, 84.	4.1	10
82	Stability, elasticity and electronic structures of Co-Zr binary intermetallic compounds. Philosophical Magazine, 2020, 100, 874-893.	1.6	3
83	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.	5.5	9
84	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.	10.7	11
85	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.	3.3	11
86	Study of thermal and structural characteristics of mechanically milled nanostructured Al-Cu-Fe quasicrystals. Materials Chemistry and Physics, 2020, 251, 123071.	4.0	3
87	Premature failure of an additively manufactured material. NPG Asia Materials, 2020, 12, .	7.9	81
88	Nanodiffraction Strain Mapping of Metallic Glasses During In Situ Deformation. Structural Integrity, 2019, , 356-357.	1.4	0
89	Synthesis of new glassy Mg-Ca-Zn alloys with exceptionally low Young's Modulus: Exploring near eutectic compositions. Scripta Materialia, 2019, 173, 139-143.	5.2	7
90	Influence of directional microstructure on mechanical properties in Alâ€based ultrafine bimodal lamellar structured alloy. Material Design and Processing Communications, 2019, 1, e52.	0.9	2

#	Article	IF	Citations
91	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.	5.9	87
92	Face centered cubic titanium in high pressure torsion processed carbon nanotubes reinforced titanium composites. Journal of Alloys and Compounds, 2019, 806, 939-945.	5.5	3
93	Microstructure and Mechanical Properties of Alâ€“(12-20)Si Bi-Material Fabricated by Selective Laser Melting. Materials, 2019, 12, 2126.	2.9	27
94	Optimizing the magnetic properties of Fe-based amorphous powder by adjusting atomic structures from vitrification at different temperatures. Journal of Applied Physics, 2019, 126, .	2.5	1
95	Selective laser melting of 316L stainless steel: Influence of TiB2 addition on microstructure and mechanical properties. Materials Today Communications, 2019, 21, 100615.	1.9	27
96	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.	3.3	9
97	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.	5.6	185
98	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.	4.1	15
99	Exceptional fracture resistance of ultrathin metallic glass films due to an intrinsic size effect. Scientific Reports, 2019, 9, 8281.	3.3	16
100	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.	5.2	5
101	Influence of annealing on microstructure and mechanical properties of ultrafine-grained Ti45Nb. Materials and Design, 2019, 179, 107864.	7.0	19
102	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.	2.6	6
103	Mechanochemical synthesis and hydrogenation behavior of (TiFe)100-xNix alloys. Journal of Alloys and Compounds, 2019, 796, 42-46.	5.5	16
104	Structureâ€“Property Relationships in Shape Memory Metallic Glass Composites. Materials, 2019, 12, 1419.	2.9	22
105	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.	5.5	20
106	Ultrahigh hydrogen-sorbing palladium metallic-glass nanostructures. Materials Horizons, 2019, 6, 1481-1487.	12.2	16
107	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.	5.6	39
108	High-resolution transmission electron microscopy investigation of diffusion in metallic glass multilayer films. Materials Today Advances, 2019, 1, 100004.	5.2	9

#	Article	IF	Citations
109	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.	5.5	13
110	Fast and direct determination of fragility in metallic glasses using chip calorimetry. Heliyon, 2019, 5, e01334.	3.2	9
111	Deformation behavior of designed dual-phase CuZr metallic glasses. Materials and Design, 2019, 168, 107662.	7.0	22
112	Polymorphic Transformation and Magnetic Properties of Rapidly Solidified Fe26.7Co26.7Ni26.7Si8.9B11.0 High-Entropy Alloys. Materials, 2019, 12, 590.	2.9	9
113	Mechanochemical reaction of Al and melamine: a potential approach towards the in situ synthesis of aluminum nitrideâ€“carbon nanotube nanocomposites. Physical Chemistry Chemical Physics, 2019, 21, 22121-22131.	2.8	6
114	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.	5.5	6
115	Mechanical properties of the magnetocaloric intermetallic LaFe11.2Si1.8 alloy at different length scales. Acta Materialia, 2019, 165, 40-50.	7.9	25
116	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.	3.1	6
117	Removing the oxide layer in a nanostructured aluminum alloy by local shear deformation between nanoscale phases. Powder Technology, 2019, 343, 733-737.	4.2	1
118	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.	5.5	32
119	Annealing-assisted high-pressure torsion in Zr55Cu30Al10Ni5 metallic glass. Journal of Alloys and Compounds, 2019, 784, 1323-1333.	5.5	13
120	Estimation of diffusivity from densification data obtained during spark plasma sintering. Scripta Materialia, 2019, 161, 36-39.	5.2	17
121	Powder metallurgy of Al-based composites reinforced with Fe-based glassy particles: Effect of microstructural modification. Particulate Science and Technology, 2019, 37, 286-291.	2.1	14
122	Universally scaling Hall-Petch-like relationship in metallic glass matrix composites. International Journal of Plasticity, 2018, 105, 225-238.	8.8	43
123	On cryothermal cycling as a method for inducing structural changes in metallic glasses. NPG Asia Materials, 2018, 10, 137-145.	7.9	68
124	Origin of large plasticity and multiscale effects in iron-based metallic glasses. Nature Communications, 2018, 9, 1333.	12.8	89
125	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.	12.0	134
126	Thermally-triggered Dual In-situ Self-healing Metallic Materials. Scientific Reports, 2018, 8, 2120.	3.3	9

#	Article	IF	Citations
127	Anisotropy in local microstructure â€“ Does it affect the tensile properties of the SLM samples?. Manufacturing Letters, 2018, 15, 33-37.	2.2	55
128	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.	2.5	5
129	Local-structure change rendered by electronic localization-delocalization transition in cerium-based metallic glasses. Physical Review B, 2018, 97, .	3.2	4
130	Amorphous martensite in Î²-Ti alloys. Nature Communications, 2018, 9, 506.	12.8	35
131	High strength nanostructured Al-based alloys through optimized processing of rapidly quenched amorphous precursors. Scientific Reports, 2018, 8, 1090.	3.3	18
132	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.	5.5	9
133	Thermomechanical processing of In-containing Î²-type Ti-Nb alloys. Journal of the Mechanical Behavior of Biomedical Materials, 2018, 79, 283-291.	3.1	17
134	Anisotropic elastic properties and phase stability of B2 and B19 CuZr structures under hydrostatic pressure. Intermetallics, 2018, 98, 60-68.	3.9	15
135	Local nanoscale strain mapping of a metallic glass during in situ testing. Applied Physics Letters, 2018, 112, .	3.3	35
136	Dual self-organised shear banding behaviours and enhanced ductility in phase separating Zr-based bulk metallic glasses. Philosophical Magazine, 2018, 98, 1744-1764.	1.6	13
137	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.	5.5	35
138	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.	5.6	31
139	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.	5.5	9
140	MnFePSi-based magnetocaloric packed bed regenerators: Structural details probed by X-ray tomography. Chemical Engineering Science, 2018, 175, 84-90.	3.8	10
141	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.	3.8	15
142	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.	3.4	23
143	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.	5.5	84
144	Elastostatic reversibility in thermally formed bulk metallic glasses: nanobeam diffraction fluctuation electron microscopy. Nanoscale, 2018, 10, 1081-1089.	5.6	10

#	Article	IF	Citations
145	Rapid and partial crystallization to design ductile CuZr-based bulk metallic glass composites. Materials and Design, 2018, 139, 132-140.	7.0	46
146	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.	5.6	121
147	Coexistence of adjacent vacancy-ordered and eutectic phases in Alâ€“Cuâ€“Ni alloys. Philosophical Magazine Letters, 2018, 98, 486-493.	1.2	3
148	Influence of Nb on the Microstructure and Fracture Toughness of (Zr0.76Fe0.24)100â^'xNbx Nano-Eutectic Composites. Materials, 2018, 11, 113.	2.9	10
149	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.	2.2	10
150	Additive Manufacturing of a 316L Steel Matrix Composite Reinforced with CeO2 Particles: Process Optimization by Adjusting the Laser Scanning Speed. Technologies, 2018, 6, 25.	5.1	31
151	Structural and mechanical characterization of heterogeneities in a CuZr-based bulk metallic glass processed by high pressure torsion. Acta Materialia, 2018, 160, 147-157.	7.9	45
152	Electrosorption of Hydrogen in Pd-Based Metallic Glass Nanofilms. ACS Applied Energy Materials, 2018, 1, 2630-2646.	5.1	28
153	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.	12.0	38
154	Effect of boron addition on thermal and mechanical properties of Co-Cr-Mo-C-(B) glass-forming alloys. Intermetallics, 2018, 99, 1-7.	3.9	25
155	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.	8.8	51
156	Correlation between the atomic configurations and the amorphous-to-icosahedral phase transition in metallic glasses. Journal of Materials Research, 2018, 33, 2775-2783.	2.6	2
157	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.	5.5	38
158	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.	5.6	32
159	Pressure-assisted sintering of Alâ€“Gdâ€“Niâ€“Co amorphous alloy powders. Materialia, 2018, 2, 157-166.	2.7	13
160	Martensitic Transformation and Plastic Deformation of TiCuNiZr-Based Bulk Metallic Glass Composites. Metals, 2018, 8, 196.	2.3	10
161	Deformation localization in metallic glasses studied by in situ TEM deformation. Microscopy and Microanalysis, 2018, 24, 1820-1821.	0.4	0
162	Metallic glass nanolaminates with shape memory alloys. Acta Materialia, 2018, 159, 344-351.	7.9	38

#	Article	IF	Citations
163	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.	5.6	21
164	Microstructural Characterization of a Laser Surface Remelted Cu-Based Shape Memory Alloy. Materials Research, 2018, 21, .	1.3	0
165	Ductile bulk metallic glass by controlling structural heterogeneities. Scientific Reports, 2018, 8, 9174.	3.3	42
166	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.	2.5	15
167	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.	3.1	9
168	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.	5.5	7
169	Designing a novel functional-structural NiTi/hydroxyapatite composite with enhanced mechanical properties and high bioactivity. Intermetallics, 2017, 84, 35-41.	3.9	13
170	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.	5.6	225
171	Microstructure and thermal expansion behavior of Al-50Si synthesized by selective laser melting. Journal of Alloys and Compounds, 2017, 699, 548-553.	5.5	65
172	Deformation mechanisms to ameliorate the mechanical properties of novel TRIP/TWIP Co-Cr-Mo-(Cu) ultrafine eutectic alloys. Scientific Reports, 2017, 7, 39959.	3.3	24
173	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.	14.6	108
174	Transient nucleation and microstructural design in flash-annealed bulk metallic glasses. Acta Materialia, 2017, 127, 416-425.	7.9	57
175	Micro-patterning by thermoplastic forming of Ni-free Ti-based bulk metallic glasses. Materials and Design, 2017, 120, 204-211.	7.0	25
176	Selective laser melting of ultra-high-strength TRIP steel: processing, microstructure, and properties. Journal of Materials Science, 2017, 52, 4944-4956.	3.7	29
177	Local melting to design strong and plastically deformable bulk metallic glass composites. Scientific Reports, 2017, 7, 42518.	3.3	16
178	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.	5.5	14
179	Structural, elastic and electronic properties of CoZr in B2 and B33 structures under high pressure. Journal of Alloys and Compounds, 2017, 705, 445-455.	5.5	18
180	Micropatterning kinetics of different glass-forming systems investigated by thermoplastic net-shaping. Scripta Materialia, 2017, 137, 127-131.	5.2	16

#	Article	IF	Citations
181	Mechanochemical synthesis of nanostructured metal nitrides, carbonitrides and carbon nitride: a combined theoretical and experimental study. Physical Chemistry Chemical Physics, 2017, 19, 12414-12424.	2.8	15
182	Reciprocating sliding wear behavior of high-strength nanocrystalline Al 84 Ni 7 Gd 6 Co 3 alloys. Wear, 2017, 382-383, 78-84.	3.1	14
183	Is the energy density a reliable parameter for materials synthesis by selective laser melting?. Materials Research Letters, 2017, 5, 386-390.	8.7	294
184	Influence of the Ag concentration on the medium-range order in a CuZrAlAg bulk metallic glass. Scientific Reports, 2017, 7, 44903.	3.3	25
185	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.	7.0	64
186	Microstructure and abrasive wear behavior of a novel FeCrMoVC laser cladding alloy for high-performance tool steels. Wear, 2017, 382-383, 107-112.	3.1	41
187	Advanced Engineering Materials 4â•2017. Advanced Engineering Materials, 2017, 19, 1700108.	3.5	1
188	Atomic origin for rejuvenation of a Zr-based metallic glass at cryogenic temperature. Journal of Alloys and Compounds, 2017, 718, 254-259.	5.5	22
189	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.	5.5	30
190	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.	10.3	28
191	Î²-type Ti-based bulk metallic glass composites with tailored structural metastability. Journal of Alloys and Compounds, 2017, 708, 972-981.	5.5	36
192	Rapid fabrication of function-structure-integrated NiTi alloys: Towards a combination of excellent superelasticity and favorable bioactivity. Intermetallics, 2017, 82, 1-13.	3.9	16
193	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.	7.3	25
194	Formation of metastable cellular microstructures in selective laser melted alloys. Journal of Alloys and Compounds, 2017, 707, 27-34.	5.5	387
195	Defining the tensile properties of Al-12Si parts produced by selective laser melting. Acta Materialia, 2017, 126, 25-35.	7.9	304
196	Thermal stability and latent heat of Nbâ€“rich martensitic Ti-Nb alloys. Journal of Alloys and Compounds, 2017, 697, 300-309.	5.5	60
197	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.	5.5	24
198	Influence of testing orientation on mechanical properties of Ti45Nb deformed by high pressure torsion. Materials and Design, 2017, 114, 40-46.	7.0	22

#	Article	IF	Citations
199	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.	5.5	11
200	Microstructure evolution and mechanical properties of carbon nanotubes reinforced Al matrix composites. Materials Characterization, 2017, 133, 122-132.	4.4	62
201	Designing a multifunctional Ti-2Cu-4Ca porous biomaterial with favorable mechanical properties and high bioactivity. Journal of Alloys and Compounds, 2017, 727, 338-345.	5.5	8
202	Powder metallurgical processing of low modulus Î²-type Ti-45Nb to bulk and macro-porous compacts. Powder Technology, 2017, 322, 393-401.	4.2	16
203	Structural modifications in sub-Tg annealed CuZr-based metallic glass. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2017, 707, 245-252.	5.6	21
204	Cryogenic-temperature-induced structural transformation of a metallic glass. Materials Research Letters, 2017, 5, 284-291.	8.7	28
205	Influencing the crystallization of Fe80Nb10B10 metallic glass by ball milling. Journal of Alloys and Compounds, 2017, 725, 227-236.	5.5	19
206	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.	2.6	2
207	Stability of shear banding process in bulk metallic glasses and composites. Journal of Materials Research, 2017, 32, 2560-2569.	2.6	9
208	Interface and stability analysis of Tantalum- and Titanium nitride thin films onto Lithiumniobate. Applied Surface Science, 2017, 425, 254-260.	6.1	8
209	Hardening of shear band in metallic glass. Scientific Reports, 2017, 7, 7076.	3.3	15
210	Friction welding of selective laser melted Ti6Al4V parts. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2017, 704, 66-71.	5.6	44
211	Bond length deviation in CuZr metallic glasses. Physical Review B, 2017, 96, .	3.2	11
212	Giant thermal expansion and Î±-precipitation pathways in Ti-alloys. Nature Communications, 2017, 8, 1429.	12.8	81
213	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.	2.2	11
214	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.	2.2	7
215	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.	3.1	100
216	Hysteretic behavior of soft magnetic elastomer composites. Journal of Magnetism and Magnetic Materials, 2017, 426, 60-63.	2.3	30

#	Article	IF	Citations
217	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.	3.1	61
218	Microstructure, mechanical behavior, and wear properties of FeCrMoVC steel prepared by selective laser melting and casting. Scripta Materialia, 2017, 126, 41-44.	5.2	41
219	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.	18.0	166
220	Selective laser melting of Al-Zn-Mg-Cu: Heat treatment, microstructure and mechanical properties. Journal of Alloys and Compounds, 2017, 707, 287-290.	5.5	147
221	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.	5.6	23
222	Ab-initio and experimental study of phase stability of Ti-Nb alloys. Journal of Alloys and Compounds, 2017, 696, 481-489.	5.5	42
223	Structural modification through pressurized sub-Tg annealing of metallic glasses. Journal of Applied Physics, 2017, 122, .	2.5	13
224	Strain dependence of diffusion in Zr-based bulk amorphous alloy. Journal of Applied Physics, 2017, 122, 245105.	2.5	4
225	Additive Manufacturing Processes: Selective Laser Melting, Electron Beam Melting and Binder Jettingâ€"Selection Guidelines. Materials, 2017, 10, 672.	2.9	513
226	Additive Manufacturing: Reproducibility of Metallic Parts. Technologies, 2017, 5, 8.	5.1	38
227	Wetting behaviour and reactivity between liquid Gd and ZrO2 substrate. Journal of Mining and Metallurgy, Section B: Metallurgy, 2017, 53, 285-293.	0.8	2
228	Effect of Alloying Elements in Melt Spun Mg-alloys for Hydrogen Storage. Materials Research, 2016, 19, 20-26.	1.3	0
229	Mechanical and Corrosion Behavior of New Generation Ti-45Nb Porous Alloys Implant Devices. Technologies, 2016, 4, 33.	5.1	22
230	Characterization of 316L Steel Cellular Dodecahedron Structures Produced by Selective Laser Melting. Technologies, 2016, 4, 34.	5.1	56
231	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.	5.1	29
232	Tensile Properties of Al-12Si Fabricated via Selective Laser Melting (SLM) at Different Temperatures. Technologies, 2016, 4, 38.	5.1	36
233	Tungsten as a Chemically-Stable Electrode Material on Ga-Containing Piezoelectric Substrates Langasite and Catangasite for High-Temperature SAW Devices. Materials, 2016, 9, 101.	2.9	16
234	Ti/Al Multi-Layered Sheets: Accumulative Roll Bonding (Part A). Metals, 2016, 6, 30.	2.3	16

#	Article	IF	Citations
235	Ti/Al Multi-Layered Sheets: Differential Speed Rolling (Part B). Metals, 2016, 6, 31.	2.3	8
236	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.	1.8	4
237	Auger and Xâ€ray photoelectron spectroscopy on lithiated HOPG. Surface and Interface Analysis, 2016, 48, 501-504.	1.8	4
238	Layered-to-Tunnel Structure Transformation and Oxygen Redox Chemistry in LiRhO2 upon Li Extraction and Insertion. Inorganic Chemistry, 2016, 55, 7079-7089.	4.0	20
239	Influence of ejection temperature on structure and glass transition behavior for Zr-based rapidly quenched disordered alloys. Acta Materialia, 2016, 116, 370-381.	7.9	28
240	Effect of high pressure solidification on tensile properties and strengthening mechanisms of Al-20Si. Journal of Alloys and Compounds, 2016, 688, 88-93.	5.5	39
241	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, .	2.5	31
242	Microstructure and thermal conductivity of hypereutectic Al-high Si produced by casting and spray deposition. Journal of Materials Research, 2016, 31, 2948-2955.	2.6	12
243	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
244	In-situ Quasi-Instantaneous e-beam Driven Catalyst-Free Formation Of Crystalline Aluminum Borate Nanowires. Scientific Reports, 2016, 6, 22524.	3.3	2
245	Effect of substrate material on the growth and field emission characteristics of large-area carbon nanotube forests. Journal of Applied Physics, 2016, 119, .	2.5	13
246	Local microstructure evolution at shear bands in metallic glasses with nanoscale phase separation. Scientific Reports, 2016, 6, 25832.	3.3	41
247	Reentrant spin-glass behavior and bipolar exchange-bias effect in â€œSnâ€•substituted cobalt-orthotitanate. Journal of Applied Physics, 2016, 119, .	2.5	20
248	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, .	3.3	4
249	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.	5.5	33
250	Electrochemical deposition of hydroxyapatite on beta-Ti-40Nb. Surface and Coatings Technology, 2016, 294, 186-193.	4.8	38
251	Microstructure and mechanical properties of the near-beta titanium alloy Ti-5553 processed by selective laser melting. Materials and Design, 2016, 105, 75-80.	7.0	138
252	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.	2.6	103

#	Article	IF	Citations
253	Hierarchically nanostructured hollow carbon nanospheres for ultra-fast and long-life energy storage. Carbon, 2016, 106, 306-313.	10.3	31
254	Mapping of residual strains around a shear band in bulk metallic glass by nanobeam X-ray diffraction. Acta Materialia, 2016, 111, 187-193.	7.9	47
255	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.	5.6	41
256	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.	5.5	18
257	Ion milling-induced micrometer-sized heterogeneities and partial crystallization in a TiZrCuFeBe bulk metallic glass. Intermetallics, 2016, 73, 5-11.	3.9	9
258	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.	3.0	80
259	Thermal oxidation behavior of glass-forming Tiâ€“Zrâ€“(Nb)â€“Si alloys. Journal of Materials Research, 2016, 31, 1264-1274.	2.6	5
260	Compression behavior of inter-particle regions in high-strength Al84Ni7Gd6Co3 alloy. Materials Letters, 2016, 185, 25-28.	2.6	7
261	Frontispiece: Alloying Behavior of Self-Assembled Noble Metal Nanoparticles. Chemistry - A European Journal, 2016, 22, .	3.3	1
262	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.	5.6	52
263	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.	1.9	0
264	Tailoring the Bain strain of martensitic transformations in Ti Nb alloys by controlling the Nb content. International Journal of Plasticity, 2016, 85, 190-202.	8.8	31
265	Processing, microstructure and mechanical properties of Al-based metal matrix composites reinforced with mechanically alloyed particles. Journal of Materials Research, 2016, 31, 1229-1236.	2.6	5
266	Negentropic stabilization of metastable Î²-Ti in bulk metallic glass composites. Scripta Materialia, 2016, 125, 19-23.	5.2	21
267	Ideal shear banding in metallic glass. Philosophical Magazine, 2016, 96, 3159-3176.	1.6	3
268	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.	5.6	28
269	Formation and phase evolution of liquid phase-separated metallic glasses with double glass transition, crystallization and melting. Materials Today Communications, 2016, 8, 64-71.	1.9	5
270	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

#	Article	IF	Citations
271	Alloying Behavior of Selfâ€Assembled Noble Metal Nanoparticles. Chemistry - A European Journal, 2016, 22, 13446-13450.	3.3	25
272	Transformation-mediated plasticity in CuZr based metallic glass composites: A quantitative mechanistic understanding. International Journal of Plasticity, 2016, 85, 34-51.	8.8	68
273	Substitution effect on glass formation of NixCo60â^'xNb40 alloys. Materials Letters, 2016, 185, 541-544.	2.6	0
274	Two-phase quasi-equilibrium in Î²-type Ti-based bulk metallic glass composites. Scientific Reports, 2016, 6, 19235.	3.3	39
275	Towards the Better: Intrinsic Property Amelioration in Bulk Metallic Glasses. Scientific Reports, 2016, 6, 27271.	3.3	17
276	Structural evolution and strength change of a metallic glass at different temperatures. Scientific Reports, 2016, 6, 30876.	3.3	49
277	High pressure die casting of Fe-based metallic glass. Scientific Reports, 2016, 6, 35258.	3.3	23
278	Correlation between structural heterogeneity and plastic deformation for phase separating FeCu metallic glasses. Scientific Reports, 2016, 6, 34340.	3.3	8
279	Localized crystallization in shear bands of a metallic glass. Scientific Reports, 2016, 6, 19358.	3.3	25
280	Compositional depth profiling of diamond-like carbon layers by glow discharge optical emission spectroscopy. Journal of Analytical Atomic Spectrometry, 2016, 31, 2207-2212.	3.0	9
281	High Area Capacity Lithium-Sulfur Full-cell Battery with Prelitiathed Silicon Nanowire-Carbon Anodes for Long Cycling Stability. Scientific Reports, 2016, 6, 27982.	3.3	69
282	Mechanochemical route to the synthesis of nanostructured Aluminium nitride. Scientific Reports, 2016, 6, 33375.	3.3	32
283	Investigation of Ni-B Alloys for Joining of TiB2 Ultra-High-Temperature Ceramic. Journal of Materials Engineering and Performance, 2016, 25, 3204-3210.	2.5	10
284	Simultaneous enhancements of strength and toughness in an Al-12Si alloy synthesized using selective laser melting. Acta Materialia, 2016, 115, 285-294.	7.9	408
285	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.	8.0	153
286	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.	4.1	81
287	Brittle-to-Ductile Transition in Metallic Glass Nanowires. Nano Letters, 2016, 16, 4467-4471.	9.1	87
288	Low Youngâ€™s modulus Ti-based porous bulk glassy alloy without cytotoxic elements. Acta Biomaterialia, 2016, 36, 323-331.	8.3	29

#	Article	IF	Citations
289	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.	3.1	9
290	Designing new biocompatible glassâ€forming Ti_{75â€}_xZr₁₀Nb_xSi₁₅ (xâ€‰=â€‰0, 15) alloys: corrosion, passivity, and apatite formation. Journal of Biomedical Materials Research - Part B Applied Biomaterials, 2016, 104, 27-38.	3.4	23
291	A novel high-throughput setup forin situpowder diffraction on coin cell batteries. Journal of Applied Crystallography, 2016, 49, 340-345.	4.5	68
292	Structure-property relationships in nanoporous metallic glasses. Acta Materialia, 2016, 106, 199-207.	7.9	101
293	Manipulation of free volumes in a metallic glass through Xe-ion irradiation. Acta Materialia, 2016, 106, 66-77.	7.9	113
294	Interfacial interactions between liquid Tiâ€“Al alloys and TiB2 ceramic. Journal of Materials Science, 2016, 51, 1779-1787.	3.7	12
295	Wettability and work of adhesion of liquid sulfur on carbon materials for electrical energy storage applications. Carbon, 2016, 98, 702-707.	10.3	8
296	Preparation of cast-iron-based nanocrystalline alloy with Cu and Nb addition. Intermetallics, 2016, 69, 54-61.	3.9	8
297	Wetting behaviour of Cuâ€“Ga alloys on 304L steel. Materials and Design, 2016, 91, 11-18.	7.0	7
298	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.	5.5	30
299	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.	7.8	69
300	Review on manufacture by selective laser melting and properties of titanium based materials for biomedical applications. Materials Technology, 2016, 31, 66-76.	3.0	97
301	Anodically fabricated TiO₂â€“SnO₂nanotubes and their application in lithium ion batteries. Journal of Materials Chemistry A, 2016, 4, 5542-5552.	10.3	46
302	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.	2.9	83
303	Ti-based bulk glassy composites obtained by replacement of Ni with Ga. Intermetallics, 2016, 69, 28-34.	3.9	7
304	Microstructure and phase formation in Alâ€“20Siâ€“5Feâ€“3Cuâ€“1Mg synthesized by selective laser melting. Journal of Alloys and Compounds, 2016, 657, 430-435.	5.5	68
305	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.	7.8	114
306	Atomic structure and thermal behavior of (Co0.65,Fe0.35)72Ta8B20 metallic glass with excellent soft magnetic properties. Intermetallics, 2016, 69, 21-27.	3.9	11

#	Article	IF	Citations
307	Structure and properties of sputter deposited crystalline and amorphous Cuâ€“Ti films. Thin Solid Films, 2016, 598, 184-188.	1.8	10
308	CVD growth of 1D and 2D sp2 carbon nanomaterials. Journal of Materials Science, 2016, 51, 640-667.	3.7	70
309	Shear avalanches in plastic deformation of a metallic glass composite. International Journal of Plasticity, 2016, 77, 141-155.	8.8	56
310	Microstructure and properties of FeCrMoVC tool steel produced by selective laser melting. Materials and Design, 2016, 89, 335-341.	7.0	135
311	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.	3.8	20
312	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, .	3.2	46
313	Imprinting bulk amorphous alloy at room temperature. Scientific Reports, 2015, 5, 16540.	3.3	8
314	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.	3.5	8
315	Functional Mesoporous Carbonâ€Coated Separator for Longâ€Life, Highâ€Energy Lithiumâ€“Sulfur Batteries. Advanced Functional Materials, 2015, 25, 5285-5291.	14.9	374
316	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.	3.4	8
317	Phase Separation in Rapid Solidified Ag-rich Ag-Cu-Zr Alloys. Materials Research, 2015, 18, 120-126.	1.3	10
318	Mechanical and Structural Investigation of Porous Bulk Metallic Glasses. Metals, 2015, 5, 920-933.	2.3	17
319	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.	2.3	25
320	Stress-Corrosion Interactions in Zr-Based Bulk Metallic Glasses. Metals, 2015, 5, 1262-1278.	2.3	7
321	Deformation-Induced Martensitic Transformation in Cu-Zr-Zn Bulk Metallic Glass Composites. Metals, 2015, 5, 2134-2147.	2.3	19
322	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.	1.3	36
323	Lithium Insertion into Li₂MoO₄: Reversible Formation of (Li₃Mo)O₄ with a Disordered Rock-Salt Structure. Chemistry of Materials, 2015, 27, 4485-4492.	6.7	27
324	Structural aspects of elasto-plastic deformation of a Zr-based bulk metallic glass under uniaxial compression. Acta Materialia, 2015, 95, 30-36.	7.9	26

#	Article	IF	Citations
325	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.	2.2	19
326	Stress corrosion cracking of a Zr-based bulk metallic glass. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2015, 639, 681-690.	5.6	12
327	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.	3.1	57
328	Vickers-indentation-induced crystallization in a metallic glass. Applied Physics Letters, 2015, 106, 101909.	3.3	9
329	Additive manufacturing of Cuâ€“10Sn bronze. Materials Letters, 2015, 156, 202-204.	2.6	208
330	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.	3.5	19
331	Hybrid nanostructured aluminum alloy with super-high strength. NPG Asia Materials, 2015, 7, e229-e229.	7.9	82
332	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.	5.6	235
333	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.	5.5	12
334	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.	3.1	120
335	High strength beta titanium alloys: New design approach. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2015, 628, 297-302.	5.6	65
336	Structural features of plastic deformation in bulk metallic glasses. Applied Physics Letters, 2015, 106, .	3.3	24
337	Structural evolution in Ti-Cu-Ni metallic glasses during heating. APL Materials, 2015, 3, .	5.1	11
338	Tensile properties of Alâ€“12Si matrix composites reinforced with Tiâ€“Al-based particles. Journal of Alloys and Compounds, 2015, 630, 256-259.	5.5	45
339	High-temperature wetting and interfacial interaction between liquid Al and TiB2 ceramic. Journal of Materials Science, 2015, 50, 2682-2690.	3.7	45
340	Hierarchical densification and negative thermal expansion in Ce-based metallic glass under high pressure. Nature Communications, 2015, 6, 5703.	12.8	38
341	Phase transformations and mechanical properties of biocompatible Tiâ€“16.1Nb processed by severe plastic deformation. Journal of Alloys and Compounds, 2015, 628, 434-441.	5.5	67
342	Production of high strength Al85Nd8Ni5Co2 alloy by selective laser melting. Additive Manufacturing, 2015, 6, 1-5.	3.0	120

#	Article	IF	Citations
343	A size dependent evaluation of the cytotoxicity and uptake of nanographene oxide. Journal of Materials Chemistry B, 2015, 3, 2522-2529.	5.8	56
344	Fabrication of Fe-based bulk metallic glass by selective laser melting: A parameter study. Materials and Design, 2015, 86, 703-708.	7.0	261
345	Challenges for lithium species identification in complementary Auger and X-ray photoelectron spectroscopy. Journal of Power Sources, 2015, 288, 434-440.	7.8	13
346	Intrinsic versus extrinsic effects on serrated flow of bulk metallic glasses. Intermetallics, 2015, 66, 31-39.	3.9	33
347	Direct synthesis of graphene from adsorbed organic solvent molecules over copper. RSC Advances, 2015, 5, 60884-60891.	3.6	32
348	Vertical Graphene Growth from Amorphous Carbon Films Using Oxidizing Gases. Journal of Physical Chemistry C, 2015, 119, 17965-17970.	3.1	7
349	Ordering of water in opals with different microstructures. European Journal of Mineralogy, 2015, 27, 203-213.	1.3	22
350	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.	10.3	23
351	Evaluation of a mobile vacuum transfer system for in vacuo XPS analysis using as-deposited Ti thin-films. Vacuum, 2015, 117, 81-84.	3.5	16
352	Effect of cooling rate on the microstructure and properties of FeCrVC. Journal of Alloys and Compounds, 2015, 634, 200-207.	5.5	25
353	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.	6.1	44
354	Length scale-dependent structural relaxation in Zr57.5Ti7.5Nb5Cu12.5Ni10Al7.5 metallic glass. Journal of Alloys and Compounds, 2015, 639, 465-469.	5.5	23
355	Nanostructure formation mechanism during in-situ consolidation of copper by room-temperature ball milling. Materials & Design, 2015, 65, 1083-1090.	5.1	7
356	Formation of nano-porous GeOx by de-alloying of an Alâ€“Geâ€“Mn amorphous alloy. Scripta Materialia, 2015, 104, 49-52.	5.2	11
357	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.	2.2	5
358	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.	2.1	4
359	Selective Laser Melting of Ti-45Nb Alloy. Metals, 2015, 5, 686-694.	2.3	75
360	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

#	Article	IF	Citations
361	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.	2.6	2
362	Asymmetric first-order transition and interlocked particle state in magnetocaloric La(Fe,Si)₁₃. Physica Status Solidi - Rapid Research Letters, 2015, 9, 136-140.	2.4	54
363	Comparing the pitting corrosion behavior of prominent Zr-based bulk metallic glasses. Journal of Materials Research, 2015, 30, 233-241.	2.6	19
364	Self-Organized TiO₂/CoO Nanotubes as Potential Anode Materials for Lithium Ion Batteries. ACS Sustainable Chemistry and Engineering, 2015, 3, 909-919.	6.7	50
365	Thermal stability of B2 CuZr phase, microstructural evolution and martensitic transformation in Cuâ€“Zrâ€“Ti alloys. Intermetallics, 2015, 67, 177-184.	3.9	21
366	Al-based matrix composites reinforced with short Fe-based metallic glassy fiber. Journal of Alloys and Compounds, 2015, 651, 170-175.	5.5	33
367	Inhomogeneous thermal expansion of metallic glasses in atomic-scale studied by in-situ synchrotron X-ray diffraction. Journal of Applied Physics, 2015, 117, 044902.	2.5	10
368	Deformation behavior of metallic glass composites reinforced with shape memory nanowires studied via molecular dynamics simulations. Applied Physics Letters, 2015, 106, .	3.3	57
369	Flash Joule heating for ductilization of metallic glasses. Nature Communications, 2015, 6, 7932.	12.8	66
370	Concurrent streams in Markov chain usage models for statistical testing of complex systems. , 2015, , .		2
371	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.	10.7	201
372	In Situ Observations of Free-Standing Graphene-like Mono- and Bilayer ZnO Membranes. ACS Nano, 2015, 9, 11408-11413.	14.6	118
373	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.	6.7	35
374	Structure evolution of soft magnetic (Fe36Co36B19.2Si4.8Nb4)100â^'Cu (x= 0 and 0.5) bulk glassy alloys. Acta Materialia, 2015, 95, 335-342.	7.9	21
375	Effect of boron on microstructure and mechanical properties of multicomponent titanium alloys. Materials Letters, 2015, 158, 111-114.	2.6	21
376	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.	2.8	129
377	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.	3.9	21
378	Atomic structure and formation of CuZrAl bulk metallic glasses and composites. Acta Materialia, 2015, 100, 369-376.	7.9	34

#	Article	IF	Citations
379	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.	5.6	16
380	Low Voltage Transmission Electron Microscopy of Graphene. Small, 2015, 11, 515-542.	10.0	54
381	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.	5.6	33
382	Tailoring Hollow Siliconâ€“Carbon Nanocomposites As High-Performance Anodes in Secondary Lithium-Based Batteries through Economical Chemistry. Chemistry of Materials, 2015, 27, 37-43.	6.7	42
383	Direct Growth of Ultrafast Transparent Single-Layer Graphene Defoggers. Small, 2015, 11, 1840-1846.	10.0	92
384	Factors influencing the elastic moduli, reversible strains and hysteresis loops in martensitic Tiâ€“Nb alloys. Materials Science and Engineering C, 2015, 48, 511-520.	7.3	63
385	Comparison of wear properties of commercially pure titanium prepared by selective laser melting and casting processes. Materials Letters, 2015, 142, 38-41.	2.6	222
386	A new type of La(Fe,Si)13-based magnetocaloric composite with amorphous metallic matrix. Scripta Materialia, 2015, 95, 50-53.	5.2	57
387	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.	5.5	12
388	The thermal expansion behaviour of SiCp/Alâ€“20Si composites solidified under high pressures. Materials & Design, 2015, 65, 387-394.	5.1	60
389	Glass formation in the Tiâ€“Cu system with and without Si additions. Journal of Alloys and Compounds, 2015, 618, 413-420.	5.5	9
390	Combining Time and Concurrency in Model-Based Statistical Testing of Embedded Real-Time Systems. Lecture Notes in Computer Science, 2015, , 22-31.	1.3	1
391	Preparation and Cycling Performance of Iron or Iron Oxide Containing Amorphous Al-Li Alloys as Electrodes. Inorganics, 2014, 2, 674-682.	2.7	0
392	Influence of Annealing on Mechanical Properties of Al-20Si Processed by Selective Laser Melting. Metals, 2014, 4, 28-36.	2.3	144
393	Tribological and corrosion properties of Alâ€“12Si produced by selective laser melting. Journal of Materials Research, 2014, 29, 2044-2054.	2.6	138
394	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.	1.2	3
395	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.	5.6	35
396	Inverse Hall-Petch Like Mechanical Behaviour in Nanophase Al-Cu-Fe Quasicrystals: A New Phenomenon. Acta Physica Polonica A, 2014, 126, 543-548.	0.5	2

#	Article	IF	Citations
397	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
398	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, .	2.5	19
399	Deformation and fracture behavior of composite structured Ti-Nb-Al-Co(-Ni) alloys. Applied Physics Letters, 2014, 104, 071905.	3.3	20
400	Thermosonic platinum wire bonding on platinum. , 2014, , .		3
401	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.	3.5	0
402	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.	3.4	40
403	Retarding the corrosion of iron by inhomogeneous magnetic fields. Materials and Corrosion - Werkstoffe Und Korrosion, 2014, 65, 803-808.	1.5	13
404	Naâ€"Sbâ€"Sn ternary phase diagram at room temperature for potential anode materials in sodium-ion batteries. Solid State Ionics, 2014, 268, 261-264.	2.7	12
405	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, .	2.5	4
406	Deformation at ambient and high temperature ofin situLaves phases-ferrite composites. Science and Technology of Advanced Materials, 2014, 15, 034801.	6.1	11
407	Polarization Studies of Zr-Based Bulk Metallic Glasses for Electrochemical Machining. Journal of the Electrochemical Society, 2014, 161, E66-E73.	2.9	12
408	Microstructure evolution of gas-atomized Feâ€"6.5 wt% Si droplets. Journal of Materials Research, 2014, 29, 527-534.	2.6	12
409	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.	2.6	116
410	Selective laser melting of a beta-solidifying TNM-B1 titanium aluminide alloy. Journal of Materials Processing Technology, 2014, 214, 1852-1860.	6.3	131
411	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.	5.5	26
412	Lithium dendrite and solid electrolyte interphase investigation using OsO4. Journal of Power Sources, 2014, 266, 198-207.	7.8	69
413	Magnetic field templated patterning of the soft magnetic alloy CoFe. Electrochimica Acta, 2014, 123, 477-484.	5.2	12
414	Phase formation of Cu50â^'xCoxZr50 (x=0â€"20at.%) alloys: Influence of cooling rate. Journal of Alloys and Compounds, 2014, 590, 428-434.	5.5	20

#	Article	IF	Citations
415	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.	5.5	41
416	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.	7.9	37
417	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.	5.6	23
418	Microstructure and mechanical properties of a newly developed high strength Mg54.7Cu11.5Ag3.3Gd5.5Sc25 alloy. Intermetallics, 2014, 45, 84-88.	3.9	0
419	Friction welding of Alâ€“12Si parts produced by selective laser melting. Materials & Design, 2014, 57, 632-637.	5.1	113
420	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.	5.6	566
421	Ab initio based study of finite-temperature structural, elastic and thermodynamic properties of FeTi. Intermetallics, 2014, 45, 11-17.	3.9	16
422	Influence of Co and Pd on the formation of nanostructured LaMg2Ni and its hydrogen reactivity. Journal of Alloys and Compounds, 2014, 582, 647-658.	5.5	22
423	Free-Standing Single-Atom-Thick Iron Membranes Suspended in Graphene Pores. Science, 2014, 343, 1228-1232.	12.6	274
424	Influence of ball milling on atomic structure and magnetic properties of Co40Fe22Ta8B30 glassy alloy. Materials Characterization, 2014, 92, 96-105.	4.4	3
425	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.	5.6	82
426	FeCoSiBNbCu bulk metallic glass with large compressive deformability studied by time-resolved synchrotron X-ray diffraction. Journal of Applied Physics, 2014, 115, 053520.	2.5	15
427	Mechanical behavior of Al-based matrix composites reinforced with Mg58Cu28.5Gd11Ag2.5 metallic glasses. Advanced Powder Technology, 2014, 25, 635-639.	4.1	41
428	Room Temperature in Situ Growth of B/BO_x Nanowires and BO_x Nanotubes. Nano Letters, 2014, 14, 799-805.	9.1	13
429	Crystallization kinetics of Co40Fe22Ta8B30 glassy alloy with high thermal stability and soft magnetic properties. Journal of Alloys and Compounds, 2014, 605, 199-207.	5.5	20
430	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.	5.6	8
431	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.	8.0	61
432	Phase transformations in ball-milled Tiâ€“40Nb and Tiâ€“45Nb powders upon quenching from the ÃŸ-phase region. Powder Technology, 2014, 253, 166-171.	4.2	31

#	Article	IF	Citations
433	Multimetallic Aerogels by Template-Free Self-Assembly of Au, Ag, Pt, and Pd Nanoparticles. Chemistry of Materials, 2014, 26, 1074-1083.	6.7	148
434	Bipolar porous polymeric frameworks for low-cost, high-power, long-life all-organic energy storage devices. Journal of Power Sources, 2014, 245, 553-556.	7.8	66
435	A universal transfer route for graphene. Nanoscale, 2014, 6, 889-896.	5.6	58
436	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.	5.5	52
437	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.	5.5	6
438	In situ studies of temperature-dependent behaviour and crystallisation of Ni36.5Pd36.5P27 metallic glass. Journal of Alloys and Compounds, 2014, 615, S208-S212.	5.5	13
439	Phase formation and mechanical properties of Tiâ€“Cuâ€“Niâ€“Zr bulk metallic glass composites. Acta Materialia, 2014, 65, 259-269.	7.9	76
440	Possible Piezoelectric Materials CsMZr_{0.5}(MoO₄)₃ (M = 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.	3.1	24
441	Effect of Nb addition on microstructure evolution and nanomechanical properties of a glass-forming Tiâ€“Zrâ€“Si alloy. Intermetallics, 2014, 46, 156-163.	3.9	45
442	Tensile properties of Al matrix composites reinforced with in situ devitrified Al84Gd6Ni7Co3 glassy particles. Journal of Alloys and Compounds, 2014, 586, S419-S422.	5.5	59
443	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.	5.6	649
444	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.	7.1	100
445	Thermal and soft magnetic properties of Co40Fe22Ta8B30 glassy particles: In-situ X-ray diffraction and magnetometry studies. Journal of Applied Physics, 2014, 116, .	2.5	12
446	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.	1.8	9
447	Investigation of early cellâ€“surface interactions of human mesenchymal stem cells on nanopatterned Î²-type titaniumâ€“niobium alloy surfaces. Interface Focus, 2014, 4, 20130046.	3.0	20
448	Graphene Coatings for the Mitigation of Electron Stimulated Desorption and Fullerene Cap Formation. Chemistry of Materials, 2014, 26, 4998-5003.	6.7	5
449	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.	1.8	11
450	Hollow carbon nano-onions with hierarchical porosity derived from commercial metal organic framework. Carbon, 2014, 79, 302-309.	10.3	38

#	Article	IF	Citations
451	Experimental and thermodynamic assessment of the Ndâ€“Ti system. Calphad: Computer Coupling of Phase Diagrams and Thermochemistry, 2014, 47, 136-143.	1.6	6
452	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.	1.8	18
453	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
454	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.	5.2	23
455	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.	3.3	3
456	An O2 transport study in porous materials within the Liâ€“O2 â€“ system. Journal of Power Sources, 2014, 269, 825-833.	7.8	5
457	Composition-dependent magnitude of atomic shuffles in Tiâ€“Nb martensites. Journal of Applied Crystallography, 2014, 47, 1374-1379.	4.5	65
458	In situ observations of Pt nanoparticles coalescing inside carbon nanotubes. RSC Advances, 2014, 4, 49442-49445.	3.6	6
459	Structural contribution to the ferroelectric fatigue in lead zirconate titanate ceramics. Physical Review B, 2014, 90, .	3.2	27
460	Processing of High Strength Lightâ€Weight Metallic Composites. Advanced Engineering Materials, 2014, 16, 1208-1216.	3.5	12
461	Specific volume study of a bulk metallic glass far below its calorimetrically determined glass transition temperature. Physical Review B, 2014, 89, .	3.2	9
462	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.	3.5	17
463	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.	2.9	2
464	Chemical vapor deposition of twisted bilayer and few-layer MoSe₂over SiO_xsubstrates. Nanotechnology, 2014, 25, 365603.	2.6	15
465	ARXPS measurement simulation for improved data interpretation at complex Ta/Liâ€niobate interfaces. Surface and Interface Analysis, 2014, 46, 1094-1098.	1.8	2
466	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.	5.6	1
467	Elastic softening of Î²-type Tiâ€“Nb alloys by indium (In) additions. Journal of the Mechanical Behavior of Biomedical Materials, 2014, 39, 162-174.	3.1	73
468	Carbohydrate-Derived Nanoarchitectures: On a Synergistic Effect Toward an Improved Performance in Lithiumâ€“Sulfur Batteries. ACS Sustainable Chemistry and Engineering, 2014, 2, 126-129.	6.7	29

#	Article	IF	Citations
469	Synthesis and characterization of amorphous Niâ€“Zr thin films. Thin Solid Films, 2014, 561, 48-52.	1.8	24
470	Structure of rapidly quenched (Cu0.5Zr0.5)100â^'Ag alloys (x= 0â€“40 at.%). Journal of Alloys and Compounds, 2014, 607, 285-290.	5.5	17
471	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.	5.5	30
472	Plastic Flow of a Cu50Zr45Ti5 Bulk Metallic Glass Composite. Journal of Materials Science and Technology, 2014, 30, 609-615.	10.7	24
473	Effect of ball milling on structure and thermal stability of Al84Gd6Ni7Co3 glassy powders. Intermetallics, 2014, 46, 97-102.	3.9	21
474	Spray forming of Cuâ€“11.85Alâ€“3.2Niâ€“3Mn (wt%) shape memory alloy. Journal of Alloys and Compounds, 2014, 615, S602-S606.	5.5	34
475	Microstructure and thermal expansion behavior of spray-deposited Alâ€“50Si. Materials & Design, 2014, 57, 585-591.	5.1	81
476	Experimental and thermodynamic assessment of the Ndâ€“Zr system. Calphad: Computer Coupling of Phase Diagrams and Thermochemistry, 2014, 46, 103-107.	1.6	4
477	Microstructural Evolution and Mechanical Behaviour of Metastable Cuâ€“Zrâ€“Co Alloys. Journal of Materials Science and Technology, 2014, 30, 584-589.	10.7	17
478	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.	5.5	64
479	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
480	Phase separation in Zr56-Gd Co28Al16 metallic glasses (0 â©½xâ©½ 20). Acta Materialia, 2014, 66, 262-272.	7.9	34
481	Glow discharge plasma as a surface preparation tool for microstructure investigations. Materials Characterization, 2014, 91, 76-88.	4.4	17
482	Metallic glassâ€“steel composite with improved compressive plasticity. Materials & Design, 2014, 59, 241-245.	5.1	13
483	Silicon oxycarbide-derived carbons from a polyphenylsilsequioxane precursor for supercapacitor applications. Microporous and Mesoporous Materials, 2014, 188, 140-148.	4.4	48
484	A Growth Mechanism for Free-Standing Vertical Graphene. Nano Letters, 2014, 14, 3064-3071.	9.1	221
485	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.	2.3	31
486	Experimental and thermodynamic assessment of the Ceâ€“Zr system. Calphad: Computer Coupling of Phase Diagrams and Thermochemistry, 2014, 46, 213-219.	1.6	9

#	Article	IF	Citations
487	Selective laser melting of in situ titaniumâ€“titanium boride composites: Processing, microstructure and mechanical properties. Acta Materialia, 2014, 76, 13-22.	7.9	483
488	Atomic structure and magnetic properties of Feâ€“Nbâ€“B metallic glasses. Journal of Alloys and Compounds, 2014, 586, S189-S193.	5.5	30
489	Unusual oxidation behavior of light metal hydride by tetrahydrofuran solvent molecules confined in ordered mesoporous carbon. Journal of Materials Research, 2014, 29, 55-63.	2.6	2
490	Correlation between atomic structure evolution and strength in a bulk metallic glass at cryogenic temperature. Scientific Reports, 2014, 4, 3897.	3.3	32
491	Micro-to-nano-scale deformation mechanisms of a bimodal ultrafine eutectic composite. Scientific Reports, 2014, 4, 6500.	3.3	46
492	Hierarchical Carbideâ€Derived Carbon Foams with Advanced Mesostructure as a Versatile Electrochemical Energyâ€Storage Material. Advanced Energy Materials, 2014, 4, 1300645.	19.5	96
493	Production of Porous Metallic Glass Granule by Optimizing Chemical Processing. Journal of Korean Powder Metallurgy Institute, 2014, 21, 251-255.	0.3	1
494	Comparison of different post processing technologies for SLM generated 316l steel parts. Rapid Prototyping Journal, 2013, 19, 173-179.	3.2	108
495	Microstructure and magnetic properties of soft magnetic composites based on silicon resin coated Co40Fe22Ta8B30 glassy powders. Intermetallics, 2013, 43, 1-7.	3.9	12
496	Evidence for viscous flow nature in Zr60Al15Ni25 metallic glass subjected to cold rolling. Applied Physics Letters, 2013, 103, 021907.	3.3	4
497	Capillary flow of amorphous metal for high performance electrode. Scientific Reports, 2013, 3, 2185.	3.3	20
498	On the transformation-induced work-hardening behavior of Zr47.5Co47.5Al5 ultrafine-grained alloy. Intermetallics, 2013, 35, 116-119.	3.9	25
499	Effect of cold-rolling on the crystallization behavior of a CuZr-based bulk metallic glass. Journal of Materials Science, 2013, 48, 6825-6832.	3.7	11
500	Porous low modulus Ti40Nb compacts with electrodeposited hydroxyapatite coating for biomedical applications. Materials Science and Engineering C, 2013, 33, 2280-2287.	7.3	30
501	Mechanical Alloying of Î²â€Type Tiâ€“Nb for Biomedical Applications. Advanced Engineering Materials, 2013, 15, 262-268.	3.5	24
502	Phase formation in rapid solidified Agâ€“Y alloys. Journal of Applied Physics, 2013, 113, 104308.	2.5	2
503	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.	5.6	17
504	Insights into the Early Growth of Homogeneous Single-Layer Graphene over Niâ€“Mo Binary Substrates. Chemistry of Materials, 2013, 25, 3880-3887.	6.7	27

#	Article	IF	Citations
505	Experimental and thermodynamic assessment of the Gdâ€“Ti system. Calphad: Computer Coupling of Phase Diagrams and Thermochemistry, 2013, 42, 19-26.	1.6	10
506	Size evaluation of nanostructured materials. Materials Letters, 2013, 108, 343-345.	2.6	11
507	Electrochemical micromachining of passive electrodes. Electrochimica Acta, 2013, 109, 562-569.	5.2	18
508	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.	5.6	7
509	Microstructural characteristics of spray formed and heat treated Alâ€“(Y, La)â€“Niâ€“Co system. Journal of Alloys and Compounds, 2013, 578, 471-480.	5.5	7
510	Short hydrogen bonds in 2,4-dinitrobenzoic acid complexed with pyridine. Chemical Physics, 2013, 427, 87-94.	1.9	4
511	Few-Layer Graphene Shells and Nonmagnetic Encapsulates: A Versatile and Nontoxic Carbon Nanomaterial. ACS Nano, 2013, 7, 10552-10562.	14.6	46
512	Structural Changes in the LiCrMnO4Cathode Material during Electrochemical Li Extraction and Insertion. Journal of the Electrochemical Society, 2013, 160, A3082-A3089.	2.9	16
513	On the Role of Vapor Trapping for Chemical Vapor Deposition (CVD) Grown Graphene over Copper. Chemistry of Materials, 2013, 25, 4861-4866.	6.7	60
514	Controlled surface modification of Tiâ€“40Nb implant alloy by electrochemically assisted inductively coupled RF plasma oxidation. Acta Biomaterialia, 2013, 9, 9201-9210.	8.3	24
515	Hydrothermal nanocasting: Synthesis of hierarchically porous carbon monoliths and their application in lithiumâ€“sulfur batteries. Carbon, 2013, 61, 245-253.	10.3	120
516	Formation of new Cu-based nanocrystalline powders by mechanical alloying technique. Powder Technology, 2013, 247, 172-177.	4.2	19
517	Selective laser melting of La(Fe,Co,Si)13 geometries for magnetic refrigeration. Journal of Applied Physics, 2013, 114, .	2.5	111
518	Liquidâ€“liquid demixing and microstructure of Coâ€“Cuâ€“Zr alloys with low Zr content. Intermetallics, 2013, 32, 250-258.	3.9	15
519	Temperature dependence of the short-range order of Cu65Zr35 metallic glass. Intermetallics, 2013, 32, 51-56.	3.9	25
520	Magnetocaloric (Feâ€“B)-based amorphous alloys. Journal of Magnetism and Magnetic Materials, 2013, 329, 101-104.	2.3	41
521	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.	5.2	43
522	A bridge from monotectic alloys to liquid-phase-separated bulk metallic glasses: Design, microstructure and phase evolution. Acta Materialia, 2013, 61, 2102-2112.	7.9	55

#	Article	IF	Citations
523	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.	3.4	64
524	Processing metallic glasses by selective laser melting. Materials Today, 2013, 16, 37-41.	14.2	345
525	Fabrication and characterization of bulk glassy Co40Fe22Ta8B30 alloy with high thermal stability and excellent soft magnetic properties. Acta Materialia, 2013, 61, 6609-6621.	7.9	32
526	Structure of GP zones in Alâ€“Si matrix composites solidified under high pressure. Materials Letters, 2013, 109, 1-4.	2.6	12
527	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.	6.6	41
528	NaAlH4 confined in ordered mesoporous carbon. International Journal of Hydrogen Energy, 2013, 38, 8829-8837.	7.1	21
529	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.	5.6	27
530	Thermal stability of amorphous oxide in Al87Ni3Y10 metallic glass. Corrosion Science, 2013, 77, 1-5.	6.6	18
531	Enhanced strength and transformation-induced plasticity in rapidly solidified Zrâ€“Coâ€“(Al) alloys. Scripta Materialia, 2013, 68, 897-900.	5.2	31
532	Influence of boron and oxygen on the microstructure and mechanical properties of high-strength Ti66Nb13Cu8Ni6.8Al6.2 alloys. Acta Materialia, 2013, 61, 3324-3334.	7.9	21
533	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.	7.3	39
534	DSC, XRD and TEM characterization of glassy Co40Fe22Ta8B30 alloy with very high thermal stability. Materials Letters, 2013, 93, 322-325.	2.6	13
535	Aromatic porous-honeycomb electrodes for a sodium-organic energy storage device. Nature Communications, 2013, 4, 1485.	12.8	327
536	Structural behaviour of Pd40Cu30Ni10P20 metallic glass under high pressure. Intermetallics, 2013, 38, 9-13.	3.9	14
537	Functionalised porous nanocomposites: a multidisciplinary approach to investigate designed structures for supercapacitor applications. Journal of Materials Chemistry A, 2013, 1, 4904.	10.3	22
538	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.	3.1	14
539	Strong correlation of atomic thermal motion in the first coordination shell of a Cu-Zr metallic glass. Applied Physics Letters, 2013, 102, 081901.	3.3	8
540	Predicted glass-forming ability of Cu-Zr-Co alloys and their crystallization behavior. Journal of Applied Physics, 2013, 113, 123505.	2.5	10

#	Article	IF	Citations
541	Aqueous Solution Process for the Synthesis and Assembly of Nanostructured One-Dimensional Î±-MoO₃ Electrode Materials. Chemistry of Materials, 2013, 25, 2557-2563.	6.7	53
542	Mechanically driven phase transformation in single phase Al62.5Cu25Fe12.5 quasi-crystals: Effect of milling intensity. Acta Materialia, 2013, 61, 3819-3830.	7.9	14
543	Origin of Intermittent Plastic Flow and Instability of Shear Band Sliding in Bulk Metallic Glasses. Physical Review Letters, 2013, 110, 225501.	7.8	72
544	Hydrothermal carbon-based nanostructured hollow spheres as electrode materials for high-power lithiumâ€“sulfur batteries. Physical Chemistry Chemical Physics, 2013, 15, 6080.	2.8	167
545	Local atomic arrangements and their topology in Niâ€“Zr and Cuâ€“Zr glassy and crystalline alloys. Acta Materialia, 2013, 61, 2509-2520.	7.9	83
546	Phase separation in metallic glasses. Progress in Materials Science, 2013, 58, 1103-1172.	32.8	209
547	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.	6.6	45
548	Tiâ€“Cuâ€“Ni shape memory bulk metallic glass composites. Acta Materialia, 2013, 61, 151-162.	7.9	84
549	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.	5.6	28
550	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.	5.6	31
551	Designing biocompatible Ti-based metallic glasses for implant applications. Materials Science and Engineering C, 2013, 33, 875-883.	7.3	178
552	Advances inin situpowder diffraction of battery materials: a case study of the new beamline P02.1 at DESY, Hamburg. Journal of Applied Crystallography, 2013, 46, 1117-1127.	4.5	57
553	Synthesis of nanostructured AlN by solid state reaction of Al and diaminomaleonitrile. Journal of Solid State Chemistry, 2013, 198, 542-547.	2.9	15
554	New Lithium Copper Borates with BO₃ Triangles: Li₆CuB₄O₁₀, Li₃CuB₃O₇, Li₈Cu₇B₁₄O₃₂, and Li₂Cu₉B₁₂O₂₈. Inorganic Chemistry, 2013, 52, 13974-13983.	4.0	9
555	Polymeric Frameworks as Organic Semiconductors with Controlled Electronic Properties. Journal of Physical Chemistry Letters, 2013, 4, 2977-2981.	4.6	34
556	Phase separation in ternary Coâ€“Gdâ€“Ti liquids. Journal of Physics Condensed Matter, 2013, 25, 245104.	1.8	6
557	Production of customized hybrid porous structures by powder metallurgy of Ni59Zr20Ti16Si2Sn3 glassy powders. Journal of Materials Research, 2013, 28, 2490-2498.	2.6	4
558	Thermal stability and phase transformations of martensitic Tiâ€“Nb alloys. Science and Technology of Advanced Materials, 2013, 14, 055004.	6.1	107

#	Article	IF	Citations
559	Production of Porous Î²-Type Tiâ€“40Nb Alloy for Biomedical Applications: Comparison of Selective Laser Melting and Hot Pressing. Materials, 2013, 6, 5700-5712.	2.9	77
560	Elastic and anelastic properties close to the Curie temperature of Fe-based bulk metallic glass. Applied Physics Letters, 2013, 102, 041904.	3.3	11
561	Tensile fracture dynamics and intrinsic plasticity of metallic glasses. Applied Physics Letters, 2013, 102, 031908.	3.3	7
562	Local temperature determination in power loaded surface acoustic wave structures using Raman spectroscopy. Journal of Applied Physics, 2013, 114, 164317.	2.5	6
563	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.	2.9	13
564	Roles of hydrogenation, annealing and field in the structure and magnetic entropy change of Tb-based bulk metallic glasses. AIP Advances, 2013, 3, .	1.3	20
565	Electrochemical Deposition of Co(Cu)/Cu Multilayered Nanowires. Journal of the Electrochemical Society, 2013, 160, D13-D19.	2.9	15
566	Thickness dependent exchange bias in martensitic epitaxial Ni-Mn-Sn thin films. AIP Advances, 2013, 3, .	1.3	17
567	High-mobility graphene on liquid p-block elements by ultra-low-loss CVD growth. Scientific Reports, 2013, 3, 2670.	3.3	75
568	Grain size softening effect in Al_{62.5}Cu₂₅Fe_{12.5} nanoquasicrystals. Applied Physics Letters, 2013, 103, 201914.	3.3	12
569	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
570	Correlation between the microstructures and the deformation mechanisms of CuZr-based bulk metallic glass composites. AIP Advances, 2013, 3, .	1.3	48
571	Amorphous Li-Al-Based Compounds: A Novel Approach for Designing High Performance Electrode Materials for Li-Ion Batteries. Inorganics, 2013, 1, 14-31.	2.7	5
572	Synthesis and Characterization of NanocrystallineMg-7.4%Al Powders Produced by Mechanical Alloying. Metals, 2013, 3, 58-68.	2.3	22
573	Processing of Intermetallic Titanium Aluminide Wires. Metals, 2013, 3, 188-201.	2.3	15
574	Metallographic Preparation of Aluminium-Titanium Composites. Praktische Metallographie/Practical Metallography, 2013, 50, 739-753.	0.3	8
575	Correlation Between Internal States and Strength in Bulk Metallic Glass. , 2013, , 3199-3206.		0
576	Structural and Mechanical Characterization of Zr58.5Ti8.2Cu14.2Ni11.4Al7.7 Bulk Metallic Glass. Materials, 2012, 5, 1-11.	2.9	10

#	Article	IF	Citations
577	Correlation between glass-forming ability, thermal stability, and crystallization kinetics of Cu-Zr-Ag metallic glasses. Journal of Applied Physics, 2012, 112, .	2.5	39
578	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
579	The precipitation of nanocrystalline structure in the joule heated Fe72Al5Ga2P11C6B4 metallic glasses. Journal of Mining and Metallurgy, Section B: Metallurgy, 2012, 48, 319-324.	0.8	4
580	Design of ductile bulk metallic glasses by adding â€œsoftâ€•atoms. Applied Physics Letters, 2012, 100, .	3.3	60
581	Stable fracture of a malleable Zr-based bulk metallic glass. Journal of Applied Physics, 2012, 112, .	2.5	33
582	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.	3.3	4
583	Mechanism of the giant irreversible positive magnetic entropy change in a Tb-based bulk metallic glass. Applied Physics Letters, 2012, 101, 062411.	3.3	4
584	Pronounced ductility in CuZrAl ternary bulk metallic glass composites with optimized microstructure through melt adjustment. AIP Advances, 2012, 2, 032176.	1.3	35
585	Locally fluctuating cooling rate as possible reason for non-crystalline plasticity in metallic glasses. Europhysics Letters, 2012, 98, 16003.	2.0	8
586	RQ 14 â€“ â€œRapidly Quenched and Metastable Materialsâ€• International Journal of Materials Research, 2012, 103, 1082-1082.	0.3	0
587	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
588	Micropatterning of Fe-based bulk metallic glass surfaces by pulsed electrochemical micromachining. Journal of Materials Research, 2012, 27, 3033-3040.	2.6	12
589	Oxidation resistance of the supercooled liquid in Cu₅₀Zr₅₀ and Cu₄₆Zr₄₆Al₈ metallic glasses. Journal of Materials Research, 2012, 27, 1178-1186.	2.6	31
590	Mechanical behavior of the cold-rolled Zr57Ti8Nb2.5Cu13.9Ni11.1Al7.5 metallic glassâ€“quasicrystalline composite. International Journal of Materials Research, 2012, 103, 1113-1116.	0.3	2
591	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.	5.5	57
592	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.	1.3	8
593	Phase separation in monotectic alloys as a route for liquid state fabrication of composite materials. Journal of Materials Science, 2012, 47, 8360-8366.	3.7	26
594	Sessile drop study of Gdâ€“Ti monotectic alloys on ceramic substrates: phase transformations, wetting, and reactivity. Journal of Materials Science, 2012, 47, 8381-8386.	3.7	5

#	Article	IF	Citations
595	Study of structural anisotropy in Cu50Zr45Al5 metallic glass under uniaxial compression by molecular dynamics simulations. Intermetallics, 2012, 30, 154-157.	3.9	7
596	Formation of Cuâ€“Zrâ€“Alâ€“Er bulk metallic glass composites with enhanced deformability. Intermetallics, 2012, 30, 132-138.	3.9	35
597	Irreversible and reversible magnetic entropy change in a Dy-based bulk metallic glass. Intermetallics, 2012, 30, 76-79.	3.9	15
598	Influence of viscous flow on the deformation behavior of bulk metallic glassy alloys in supercooled liquid region. Intermetallics, 2012, 30, 72-75.	3.9	2
599	Theoretical approach to local and effective properties of BMG based matrix-inclusion nanocomposites. Intermetallics, 2012, 30, 40-47.	3.9	8
600	Internal state modulation-mediated plasticity enhancement in monolithic Ti-based bulk metallic glass. Intermetallics, 2012, 29, 70-74.	3.9	21
601	Formation of Zrâ€“Coâ€“Al bulk metallic glasses with high strength and large plasticity. Intermetallics, 2012, 31, 282-286.	3.9	44
602	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.	5.5	13
603	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.	5.5	31
604	Effect of short-term tempering on microstructure and mechanical properties of high-strength FeCrMoVC. Acta Materialia, 2012, 60, 4468-4476.	7.9	30
605	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.	7.9	36
606	Microstructure and magnetic properties of Gdâ€“Hfâ€“Coâ€“Al phase separated metallic glasses. Intermetallics, 2012, 20, 115-122.	3.9	15
607	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.	5.5	46
608	Phase-field modeling of eutectic Tiâ€“Fe alloy solidification. Computational Materials Science, 2012, 63, 319-328.	3.0	5
609	Triple yielding and deformation mechanisms in metastable Cu47.5Zr47.5Al5 composites. Acta Materialia, 2012, 60, 6000-6012.	7.9	133
610	Experimental and thermodynamic assessment of the Gdâ€“Zr system. Calphad: Computer Coupling of Phase Diagrams and Thermochemistry, 2012, 39, 27-32.	1.6	14
611	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.	2.9	19
612	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.	7.3	90

#	Article	IF	Citations
613	Structural investigations of Ge₅As_xSe_{95â^'x}and Ge₁₅As_xSe_{85â^'x}glasses using x-ray diffraction and extended x-ray fine structure spectroscopy. Journal of Physics Condensed Matter, 2012, 24, 385802.	1.8	13
614	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, .	2.5	27
615	Magnetocaloric effect of an Fe-based metallic glass compared to benchmark gadolinium. Journal of Applied Physics, 2012, 112, .	2.5	23
616	Production and Characterization of Brass-matrix Composites Reinforced with Ni59Zr20Ti16Si2Sn3 Glassy Particles. Metals, 2012, 2, 79-94.	2.3	30
617	An Energy Storage Principle using Bipolar Porous Polymeric Frameworks. Angewandte Chemie - International Edition, 2012, 51, 7850-7854.	13.8	177
618	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.	2.2	31
619	Atomic packing and short to medium range order in a U-Fe metallic glass. Applied Physics Letters, 2012, 101, 021909.	3.3	3
620	Effect of Cobalt on Phase Formation, Microstructure, and Mechanical Properties of Cu50â^'xCoxZr50 (xÂ=Â2, 5, 10, 20Âat.Âpct) Alloys. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2012, 43, 2631-2636.	2.2	15
621	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.	2.2	7
622	Thermal behaviour of Pd40Cu30Ni10P20 bulk metallic glass. Acta Materialia, 2012, 60, 517-524.	7.9	56
623	First-principles study of the thermodynamic and elastic properties of eutectic Feâ€“Ti alloys. Acta Materialia, 2012, 60, 1594-1602.	7.9	36
624	Interactions between mechanically generated defects and corrosion phenomena of Zr-based bulk metallic glasses. Acta Materialia, 2012, 60, 2300-2309.	7.9	42
625	Structural and magnetic nanoclusters in Cu50Zr50â^'xGdx (x=5at.%) metallic glasses. Acta Materialia, 2012, 60, 1946-1956.	7.9	19
626	Correlation between elastic structural behavior and yield strength of metallic glasses. Acta Materialia, 2012, 60, 3074-3083.	7.9	48
627	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.	7.9	193
628	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.	5.2	14
629	Microstructure and magnetic properties of amorphous/nanocrystalline Co40Fe22Ta8B30 alloy produced by mechanical alloying. Materials Chemistry and Physics, 2012, 134, 1214-1224.	4.0	54
630	Phase transitions in Al3Ca8 and Al14Ca13 intermetallic compounds induced by milling and annealing. Materials Letters, 2012, 79, 145-147.	2.6	4

#	Article	IF	Citations
631	Elastic constants of single crystalline Î²-Ti70Nb30. Scripta Materialia, 2012, 66, 198-201.	5.2	47
632	Metallic glasses: Notch-insensitive materials. Scripta Materialia, 2012, 66, 733-736.	5.2	73
633	Phase separation and magnetic properties in Gdâ€“(Hf,Ti,Y)â€“Coâ€“Al metallic glasses. Scripta Materialia, 2012, 67, 149-152.	5.2	10
634	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.	5.6	11
635	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.	5.6	83
636	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.	5.6	30
637	Magnetic properties and magnetocaloric effect of rapidly quenched Gdâ€“Coâ€“Feâ€“Al alloys. Journal of Magnetism and Magnetic Materials, 2012, 324, 1581-1587.	2.3	10
638	Caloric Effects in Ferroic Materials: New Concepts for Cooling. Advanced Engineering Materials, 2012, 14, 10-19.	3.5	278
639	Novel Approach for Alternating Current (AC)â€Driven Organic Lightâ€Emitting Devices. Advanced Functional Materials, 2012, 22, 210-217.	14.9	76
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.	3.7	19
641	Solidification and melting of high temperature materials: in situ observations by synchrotron radiation. Journal of Materials Science, 2012, 47, 4497-4513.	3.7	22
642	Prof. Dr. rer. nat. Ludwig Schultz. International Journal of Materials Research, 2012, 103, 648-649.	0.3	0
643	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.	3.0	18
644	Rapid growth and formation mechanism of ultrafine structural oxide eutectic ceramics by laser direct forming. Applied Physics Letters, 2011, 99, 221913.	3.3	36
645	Study of the Conversion Reaction Mechanism for Copper Borate as Electrode Material in Lithium-Ion Batteries. Journal of the Electrochemical Society, 2011, 158, A898.	2.9	17
646	Evolution of constitution, structure, and mechanical properties in Feâ€“Tiâ€“Zrâ€“B heterogeneous multiphase composites. Journal of Materials Research, 2011, 26, 365-371.	2.6	17
647	Epitaxial Electrodeposition of Fe₃O₄ on Single-Crystal Ni(111). Chemistry of Materials, 2011, 23, 2017-2019.	6.7	14
648	Computer simulation of the matrixâ€“inclusion interphase in bulk metallic glass based nanocomposites. Journal of Physics Condensed Matter, 2011, 23, 425403.	1.8	9

#	Article	IF	Citations
649	Thermal stability and magnetic properties of partially Co-substituted (Fe71.2B24Y4.8)96Nb4 bulk metallic glasses. Journal of Applied Physics, 2011, 109, .	2.5	22
650	Atomic structure and transport properties of Cu50Zr45Al5 metallic liquids and glasses: Molecular dynamics simulations. Journal of Applied Physics, 2011, 110, .	2.5	56
651	Phase separation in Cu46Zr47â^'xAl7Gdx metallic glasses. Journal of Alloys and Compounds, 2011, 509, S23-S26.	5.5	25
652	Microstructure and mechanical properties of Feâ€“Siâ€“Tiâ€“(Cu, Al) heterostructured ultrafine composites. Journal of Alloys and Compounds, 2011, 509, S367-S370.	5.5	5
653	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.	5.5	6
654	Predicting glass-forming compositions in the Alâ€“La and Alâ€“Laâ€“Ni systems. Journal of Alloys and Compounds, 2011, 509, S170-S174.	5.5	6
655	Phase separation and microstructure evolution of rapidly quenched Gdâ€“Hfâ€“Coâ€“Al alloys. Journal of Alloys and Compounds, 2011, 509, S42-S45.	5.5	18
656	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.	5.5	56
657	Microstructures and magnetic properties of carbon nanotube/Co-oxide nanocomposite powders. Journal of Alloys and Compounds, 2011, 509, S412-S415.	5.5	5
658	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.	5.5	22
659	Martensitic transformation and thermal cycling effect in Cuâ€“Coâ€“Zr alloys. Journal of Alloys and Compounds, 2011, 509, S334-S337.	5.5	29
660	Grain and crystallite size evaluation of cryomilled pure copper. Journal of Alloys and Compounds, 2011, 509, S343-S347.	5.5	33
661	Anisotropic mechanical behavior of ultrafine eutectic TiFe cast under non-equilibrium conditions. Intermetallics, 2011, 19, 327-335.	3.9	27
662	Study of mechanical property and crystallization of a ZrCoAl bulk metallic glass. Intermetallics, 2011, 19, 567-571.	3.9	57
663	Atomic cluster arrangements in Reverse Monte Carlo and Molecular Dynamics structural models of binary Cuâ€“Zr Metallic Glasses. Intermetallics, 2011, 19, 657-661.	3.9	19
664	Significant tensile ductility induced by cold rolling in Cu47.5Zr47.5Al5 bulk metallic glass. Intermetallics, 2011, 19, 1394-1398.	3.9	83
665	Combined in-situ SAXS/WAXS and HRTEM study on crystallization of (Cu60Co40)1â^'xZrx metallic glasses. Journal of Non-Crystalline Solids, 2011, 357, 1538-1546.	3.1	7
666	Structural study of AsS2â€“Ag glasses over a wide concentration range. Journal of Non-Crystalline Solids, 2011, 357, 3430-3434.	3.1	14

#	Article	IF	Citations
667	Crystallization of Fe82Si2B16and Fe82Si4B14metallic glasses upon isothermal and non-isothermal annealing. EPJ Web of Conferences, 2011, 15, 01008.	0.3	2
668	Ti-Al Composite Wires with High Specific Strength. Metals, 2011, 1, 79-97.	2.3	18
669	Tensile fracture criterion of metallic glass. Journal of Applied Physics, 2011, 109, .	2.5	65
670	Dynamics of serrated flow in a bulk metallic glass. AIP Advances, 2011, 1, .	1.3	66
671	Coupling effect of primary voids and secondary voids on the ductile fracture of heat-treatable aluminum alloys. Mechanics of Materials, 2011, 43, 556-566.	3.2	20
672	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.	5.6	88
673	Influence of embedded-carbon nanotubes on the thermal properties of copper matrix nanocomposites processed by molecular-level mixing. Scripta Materialia, 2011, 64, 181-184.	5.2	86
674	Manufacture by selective laser melting and mechanical behavior of a biomedical Tiâ€“24Nbâ€“4Zrâ€“8Sn alloy. Scripta Materialia, 2011, 65, 21-24.	5.2	482
675	Ductile bulk metallic glasses produced through designed heterogeneities. Scripta Materialia, 2011, 65, 815-818.	5.2	76
676	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, .	2.5	11
677	Methodological challenges in combining quantum-mechanical and continuum approaches for materials science applications. European Physical Journal Plus, 2011, 126, 1.	2.6	22
678	Strategy for pinpointing the formation of B2 CuZr in metastable CuZr-based shape memory alloys. Acta Materialia, 2011, 59, 6620-6630.	7.9	131
679	Interfacial tension, wetting and nucleation in Alâ€“Bi and Alâ€“Pb monotectic alloys. Acta Materialia, 2011, 59, 6880-6889.	7.9	76
680	Severe deformation twinning in pure copper by cryogenic wire drawing. Acta Materialia, 2011, 59, 7816-7823.	7.9	39
681	Deformation induced structural evolution in bulk metallic glasses. Science Bulletin, 2011, 56, 3952-3959.	1.7	4
682	Ductile Ti-Based Bulk Metallic Glasses with High Specific Strength. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2011, 42, 1456-1462.	2.2	36
683	[(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.	2.2	16
684	AlNiYCo Amorphous Matrix Composites Induced by Bismuth and Lead Additions. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2011, 42, 4100-4105.	2.2	7

#	Article	IF	Citations
685	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.	2.5	6
686	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.	1.8	8
687	Improved Synthesis of Bulk Metallic Glasses by Currentâ€Assisted Copper Mold Casting. Advanced Engineering Materials, 2011, 13, 38-42.	3.5	5
688	Intrinsically Ductile Failure in a Nanocrystalline Beta Titanium Alloy. Advanced Engineering Materials, 2011, 13, 1108-1113.	3.5	3
689	Currentâ€Induced Mass Transport in Filled Multiwalled Carbon Nanotubes. Advanced Materials, 2011, 23, 541-544.	21.0	23
690	Towards Ultrastrong Glasses. Advanced Materials, 2011, 23, 4578-4586.	21.0	314
691	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.	7.9	29
692	Microstructure and stress in high-k Hfâ€“Yâ€“O thin films. Microelectronic Engineering, 2011, 88, 561-563.	2.4	4
693	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.	2.3	25
694	New real ternary and pseudoternary phases in the Liâ€“Auâ€“In system. Journal of Solid State Chemistry, 2011, 184, 1328-1332.	2.9	13
695	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.	2.6	9
696	Correlation between internal states and plasticity in bulk metallic glass. Applied Physics Letters, 2011, 98, .	3.3	56
697	Fabrication and Response of Al₇₀Y₁₆Ni₁₀Co₄Glass Reinforced Metal Matrix Composites. Materials and Manufacturing Processes, 2011, 26, 1242-1247.	4.7	26
698	Nanocrystalline metals and alloys prepared by mechanical attrition. , 2011, , 59-84.		1
699	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.	0.7	1
700	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.	2.6	12
701	Strain-induced structural transformation of single-phase Alâ€“Cuâ€“Fe icosahedral quasicrystal during mechanical milling. Philosophical Magazine, 2011, 91, 2482-2490.	1.6	23
702	Replacement of oxide glass with metallic glass for Ag screen printing metallization on Si emitter. Applied Physics Letters, 2011, 98, 222112.	3.3	17

#	Article	IF	Citations
703	Non-Isothermal Kinetic Analysis of the Crystallization of Metallic Glasses Using the Master Curve Method. Materials, 2011, 4, 2231-2243.	2.9	32
704	Magnetic ordering and slow dynamics in a Ho-based bulk metallic glass with moderate random magnetic anisotropy. Journal of Applied Physics, 2011, 109, 113904.	2.5	7
705	Effect of crystallization on the surface area of porous Ni-based metallic glass foams. Philosophical Magazine Letters, 2011, 91, 582-590.	1.2	7
706	Production of high-strength Al85Y8Ni5Co2bulk alloy by spark plasma sintering. Journal of Physics: Conference Series, 2010, 240, 012155.	0.4	2
707	Al-based metal matrix composites reinforced with nanocrystalline Al-Ti-Ni particles. Journal of Physics: Conference Series, 2010, 240, 012154.	0.4	8
708	Mechanical Engineering Properties of CMAs. , 2010, , 273-315.		4
709	Effect of Carbon Addition on the Microstructural Evolution and Mechanical Properties in Hypo-Eutectic Fe-Zr(-Nb) Alloys. Materials Transactions, 2010, 51, 799-802.	1.2	5
710	Criteria for tensile plasticity in Cuâ€“Zrâ€“Al bulk metallic glasses. Acta Materialia, 2010, 58, 4883-4890.	7.9	76
711	Influence of the anode material on the characteristics of an analytical glow discharge cell. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2010, 65, 311-315.	2.9	9
712	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.	5.6	16
713	Structureâ€“property relations in bulk metallic Cuâ€“Zrâ€“Al alloys. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2010, 527, 5867-5872.	5.6	31
714	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.	5.6	13
715	Enhanced Ï€-Ï€ interactions between a C60 fullerene and a buckle bend on a double-walled carbon nanotube. Nano Research, 2010, 3, 92-97.	10.4	16
716	Mechanical response of metallic glasses: Insights from in-situ high energy X-ray diffraction. Jom, 2010, 62, 76-82.	1.9	17
717	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.	2.2	3
718	Deformation mechanisms of a bimodal eutectic Mg72Cu5Zn23 ultrafine composite. Materials Letters, 2010, 64, 534-536.	2.6	2
719	Effect of shot-peening on the corrosion resistance of a Zr-based bulk metallic glass. Scripta Materialia, 2010, 62, 635-638.	5.2	26
720	Improved plasticity of bulk metallic glasses upon cold rolling. Scripta Materialia, 2010, 62, 678-681.	5.2	128

#	Article	IF	Citations
721	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.	5.2	25
722	Plastically deformable Cuâ€“Zr intermetallics. Scripta Materialia, 2010, 63, 336-338.	5.2	37
723	Solid Solution Sr₂Sc_{1+x}Re_{1â€“x}O₆ with a PerovskiteÂâ€Like Structure: Phase Transitions and Magnetic Properties. European Journal of Inorganic Chemistry, 2010, 2010, 1196-1206.	2.0	1
724	Microstructural Modulations Enhance the Mechanical Properties in Alâ€“Cuâ€“(Si, Ga) Ultrafine Composites. Advanced Engineering Materials, 2010, 12, 1137-1141.	3.5	14
725	Improved Room Temperature Plasticity of Zr_{41.2}Ti_{13.8}Cu_{12.5}Ni₁₀Be_{22.5} Bulk Metallic Glass by Channelâ€Die Compression. Advanced Engineering Materials, 2010, 12, 1123-1126.	3.5	14
726	Damascene Lightâ€Weight Metals. Advanced Engineering Materials, 2010, 12, 1191-1197.	3.5	10
727	Magnetocaloric effect in Gd-based Gd60FexCo30â^'xAl10 metallic glasses. Journal of Magnetism and Magnetic Materials, 2010, 322, 2298-2303.	2.3	47
728	TEM characterization of ALD layers in deep trenches using a dedicated FIB lamellae preparation method. Thin Solid Films, 2010, 518, 4553-4555.	1.8	9
729	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.	1.8	21
730	FeCoBSiNb bulk metallic glasses with Cu additions. Physica Status Solidi C: Current Topics in Solid State Physics, 2010, 7, 1331-1335.	0.8	6
731	Transformation-mediated ductility in CuZr-based bulk metallic glasses. Nature Materials, 2010, 9, 473-477.	27.5	454
732	Glass formation, thermal properties, and elastic constants of Laâ€“Alâ€“Co alloys. Journal of Materials Research, 2010, 25, 1398-1404.	2.6	12
733	Effect of Residual Stress on Mechanical Property of Monolithic Bulk Metallic Glass. Materials Science Forum, 2010, 654-656, 1050-1053.	0.3	0
734	Transformation-induced plasticity in Feâ€“Crâ€“Vâ€“C. Journal of Materials Research, 2010, 25, 368-374.	2.6	16
735	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.	2.6	7
736	Li(Al_{1â€“z}Zn_z) alloys as anode materials for rechargeable Li-ion batteries. Journal of Materials Research, 2010, 25, 1492-1499.	2.6	21
737	Tensile fracture morphologies of bulk metallic glass. Journal of Applied Physics, 2010, 108, .	2.5	53
738	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, .	3.3	51

#	Article	IF	Citations
739	Improving the plasticity of a high strength Feâ€“Siâ€“Ti ultrafine composite by introduction of an immiscible element. Applied Physics Letters, 2010, 97, .	3.3	26
740	Giant irreversible positive to large reversible negative magnetic entropy change evolution in Tb-based bulk metallic glass. Physical Review B, 2010, 82, .	3.2	26
741	In situobservations of self-repairing single-walled carbon nanotubes. Physical Review B, 2010, 81, .	3.2	24
742	Enhanced gas adsorption property of hybrid nanopore-structured copper oxide synthesized from the carbon nanotube/copper composites. Journal of Applied Physics, 2010, 108, 064303.	2.5	3
743	Effect of Sn on microstructure and mechanical properties of Ti-Fe-(Sn) ultrafine eutectic composites. Journal of Materials Research, 2010, 25, 943-956.	2.6	22
744	Shear band evolution during large plastic deformation of brittle and ductile metallic glasses. Philosophical Magazine Letters, 2010, 90, 573-579.	1.2	8
745	Medium range ordering and its effect on plasticity of Feâ€“Mnâ€“Bâ€“Yâ€“Nb bulk metallic glass. Philosophical Magazine, 2010, 90, 2619-2633.	1.6	28
746	High-strength ultrafine-grained Ti-Fe-Sn alloys with a bimodal structure. Journal of Physics: Conference Series, 2010, 240, 012103.	0.4	5
747	FeCo-based multiphase composites with high strength and large plastic deformation. Intermetallics, 2010, 18, 134-139.	3.9	23
748	Tailoring of in situ Ti-based bulk glassy matrix composites with high mechanical performance. Intermetallics, 2010, 18, 1908-1911.	3.9	19
749	Effect of prestraining on the deformation and fracture behavior of Zr44Ti11Cu9.8Ni10.2Be25. Intermetallics, 2010, 18, 1902-1907.	3.9	14
750	Phase separation in Ni70Nb30âˆ’Y glasses. Intermetallics, 2010, 18, 1842-1845.	3.9	6
751	Multi-phase Al-based ultrafine composite with multi-scale microstructure. Intermetallics, 2010, 18, 1829-1833.	3.9	48
752	Mechanical behavior of metallic glass reinforced nanostructured tungsten composites synthesized by spark plasma sintering. Intermetallics, 2010, 18, 2009-2013.	3.9	9
753	Phase separation in Niâ€“Nbâ€“Y metallic glasses. Journal of Alloys and Compounds, 2010, 495, 299-304.	5.5	33
754	Crystallization behavior and consolidation of gas-atomized Al84Gd6Ni7Co3 glassy powder. Journal of Alloys and Compounds, 2010, 491, 137-142.	5.5	50
755	Mechanical properties of rapidly solidified Feâ€“Alâ€“B ternary alloys. Journal of Alloys and Compounds, 2010, 504, S472-S475.	5.5	5
756	Structure and mechanical properties of Alâ€“Mg alloys produced by copper mold casting. Journal of Alloys and Compounds, 2010, 504, S483-S486.	5.5	11

#	Article	IF	Citations
757	Thermal stability and magnetic properties of FeCoBSiNb bulk metallic glasses. Journal of Alloys and Compounds, 2010, 504, S123-S128.	5.5	48
758	Corrosion and pitting behaviour of ultrafine eutectic Tiâ€“Feâ€“Sn alloys. Journal of Alloys and Compounds, 2010, 503, 19-24.	5.5	12
759	Changes in short-range order of Zr55Cu30Al10Ni5 and Zr55Cu20Al10Ni10Ti5 BMGs upon annealing. Journal of Alloys and Compounds, 2010, 506, 85-87.	5.5	18
760	Surface oxidation and magnetic properties of (Cu60Co40)68Zr32 glassy ribbons. Journal of Alloys and Compounds, 2010, 506, 520-525.	5.5	2
761	In situ observations of fullerene fusion and ejection in carbon nanotubes. Nanoscale, 2010, 2, 2077.	5.6	17
762	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.	2.6	15
763	On the atomic structure of Zr₆₀Cu₂₀Fe₂₀metallic glass. Journal of Physics Condensed Matter, 2010, 22, 404208.	1.8	7
764	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>73</mml:n Physical Review B, 2009, 79, .	3.2	47
765	Atomic structure evolution in bulk metallic glass under compressive stress. Applied Physics Letters, 2009, 95, .	3.3	21
766	Modeling deformation behavior of Cuâ€“Zrâ€“Al bulk metallic glass matrix composites. Applied Physics Letters, 2009, 95, .	3.3	77
767	Direct observations on the evolution of shear bands into cracks in metallic glass. Journal of Materials Research, 2009, 24, 3130-3135.	2.6	32
768	Solid-state processing of Al-Mg alloys. Journal of Physics: Conference Series, 2009, 144, 012019.	0.4	10
769	Fracture mechanism of some brittle metallic glasses. Journal of Applied Physics, 2009, 105, 103519.	2.5	32
770	Crack evolution in bulk metallic glasses. Journal of Applied Physics, 2009, 106, .	2.5	20
771	Enhanced Work Hardening of Cu-Based Bulk Metallic Glass Composites by In Situ Formed Nano-Scale Heterogeneities. Materials Science Forum, 2009, 633-634, 665-673.	0.3	2
772	High-strength Al₈₇Ni₈La₅ bulk alloy produced by spark plasma sintering of gas atomized powders. Journal of Materials Research, 2009, 24, 2909-2916.	2.6	28
773	Serrated flow behavior induced by blunt mechanism of shear crack propagation in metallic glass. Journal of Materials Research, 2009, 24, 436-440.	2.6	2
774	Deformation-induced martensitic transformation in Cuâ€“Zrâ€“(Al,Ti) bulk metallic glass composites. Scripta Materialia, 2009, 60, 431-434.	5.2	166

#	Article	IF	Citations
775	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.	5.2	64
776	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.	5.6	21
777	Formation of Nanocrystalline Matrix Composite during Spray Forming of Al83La5Y5Ni5Co2. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2009, 40, 450-461.	2.2	12
778	DC- and RF-GD-OES measurements of adsorbed organic monolayers on copper. Analytical and Bioanalytical Chemistry, 2009, 395, 1893-1900.	3.7	9
779	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.	5.6	4
780	Spinodal decomposition of Niâ€“Nbâ€“Y metallic glasses. Acta Materialia, 2009, 57, 903-908.	7.9	38
781	Mechanical properties of Al-based metal matrix composites reinforced with Zr-based glassy particles produced by powder metallurgy. Acta Materialia, 2009, 57, 2029-2039.	7.9	229
782	Structural evolution of Cuâ€“Zr metallic glasses under tension. Acta Materialia, 2009, 57, 4133-4139.	7.9	75
783	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.	7.9	165
784	Microstructural heterogeneities governing the deformation of Cu47.5Zr47.5Al5 bulk metallic glass composites. Acta Materialia, 2009, 57, 5445-5453.	7.9	241
785	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.	2.4	27
786	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.	2.8	15
787	On the structural relaxation of bulk metallic glass under warm deformation. Intermetallics, 2009, 17, 222-226.	3.9	14
788	Thermomechanical characterization of Cu47.5Zr47.5Al5 bulk metallic glass within the homogeneous flow regime. Intermetallics, 2009, 17, 65-71.	3.9	20
789	Phase formation and thermal stability in Cuâ€“Zrâ€“Ti(Al) metallic glasses. Intermetallics, 2009, 17, 453-462.	3.9	76
790	Microstructure and mechanical properties of Laves phase-reinforced Feâ€“Zrâ€“Cr alloys. Intermetallics, 2009, 17, 532-539.	3.9	39
791	Crystallization kinetics and magnetic properties of Fe66Nb4B30 bulk metallic glass. Journal of Alloys and Compounds, 2009, 483, 632-637.	5.5	53
792	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.	5.5	38

#	Article	IF	Citations
793	Consolidation and mechanical properties of ball milled Zr50Cu50 glassy ribbons. Journal of Alloys and Compounds, 2009, 483, 227-230.	5.5	17
794	Mechanical alloying and milling of Alâ€“Mg alloys. Journal of Alloys and Compounds, 2009, 483, 2-7.	5.5	67
795	Correlation between Poisson ratio and Mohrâ€“Coulomb coefficient in metallic glasses. Journal of Alloys and Compounds, 2009, 483, 125-131.	5.5	17
796	Designing bulk metallic glass and glass matrix composites in martensitic alloys. Journal of Alloys and Compounds, 2009, 483, 97-101.	5.5	47
797	Crystallization kinetics and consolidation of mechanically alloyed Al70Y16Ni10Co4 glassy powders. Journal of Alloys and Compounds, 2009, 477, 171-177.	5.5	47
798	Hydrogenation of Zrâ€“Cuâ€“Alâ€“Niâ€“Pd metallic glasses by electrochemical means. Journal of Alloys and Compounds, 2009, 480, 321-324.	5.5	11
799	Formation of nanostructured LaMg2Ni by rapid quenching and intensive milling and its hydrogen reactivity. Journal of Alloys and Compounds, 2009, 481, 144-151.	5.5	11
800	Short-range order of Cuâ€“Zr metallic glasses. Journal of Alloys and Compounds, 2009, 485, 163-169.	5.5	122
801	Role of heterogeneity on deformation behavior of bulk metallic glasses. Journal of Alloys and Compounds, 2009, 486, 233-236.	5.5	14
802	Synthesis and morphological stability in CrO₂single crystals of a half-metallic ferromagnetic compound. Journal of Physics: Conference Series, 2009, 144, 012110.	0.4	16
803	Effect of sample size on ductility of metallic glass. Philosophical Magazine Letters, 2009, 89, 178-184.	1.2	52
804	Work-hardening mechanisms of the Ti₆₀Cu₁₄Ni₁₂Sn₄Nb₁₀ nanocomposite alloy. Journal of Materials Research, 2009, 24, 3146-3153.	2.6	12
805	Favorable microstructural modulation and enhancement of mechanical properties of Tiâ€“Feâ€“Nb ultrafine composites. Philosophical Magazine Letters, 2009, 89, 623-632.	1.2	23
806	High-strength bulk Al-based bimodal ultrafine eutectic composite with enhanced plasticity. Journal of Materials Research, 2009, 24, 2605-2609.	2.6	98
807	Nanocrystalline body-centred cubic beta-titanium alloy processed by high-pressure torsion. International Journal of Materials Research, 2009, 100, 1662-1667.	0.3	25
808	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_{0.04} Journal of Physics: Conference Series, 2009, 144, 012042.	0.4	17
809	Stress-induced martensitic transformation in a Ti₄₅Zr₃₈Al₁₇cast rod. Journal of Physics: Conference Series, 2009, 144, 012090.	0.4	1
810	The 13th International Conference on Rapidly Quenched and Metastable Materials. Journal of Physics: Conference Series, 2009, 144, 011001.	0.4	1

#	Article	IF	Citations
811	Spark plasma sintering of gas atomized Al₈₇Ni₈La₅amorphous powder. Journal of Physics: Conference Series, 2009, 144, 012079.	0.4	7
812	Viscosity of the supercooled liquid in multi-component Zr-based metallic glasses. Journal of Physics: Conference Series, 2009, 144, 012097.	0.4	12
813	Microstructure and magnetic properties of binary Nd₈₀Fe₂₀with Ga additions. Journal of Physics: Conference Series, 2009, 144, 012103.	0.4	0
814	Microstructural changes induced by thermal treatment in Cu47Ti33Zr11Ni8Si1 metallic glass. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2008, 498, 335-340.	5.6	6
815	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.	3.5	5
816	Production and mechanical properties of metallic glass-reinforced Al-based metal matrix composites. Journal of Materials Science, 2008, 43, 4518-4526.	3.7	88
817	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.	2.2	10
818	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.	2.2	36
819	Analysis of interface impurities in electroplated Cu layers by using GDâ€OES and TOFâ€SIMS. Surface and Interface Analysis, 2008, 40, 418-422.	1.8	22
820	The Role of Interfacial Oxygen Atoms in the Enhanced Mechanical Properties of Carbonâ€Nanotubeâ€Reinforced Metal Matrix Nanocomposites. Small, 2008, 4, 1936-1940.	10.0	177
821	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.	1.8	2
822	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.	3.5	26
823	Propagation and Deflection of Shear Bands in Metallic Glass under Circumferential Constraint. Advanced Engineering Materials, 2008, 10, 1117-1121.	3.5	2
824	Nanoscale mechanism and intrinsic structure related deformation of Ti-alloys. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2008, 493, 71-78.	5.6	22
825	Phase transformations in mechanically milled and annealed single-phase Î²-Al3Mg2. Acta Materialia, 2008, 56, 1136-1143.	7.9	27
826	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.	2.4	8
827	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.	5.6	50
828	Inâ€situ Xâ€ray diffraction of mechanically milled Î²â€Al₃Mg₂ powders. Physica Status Solidi - Rapid Research Letters, 2008, 2, 272-274.	2.4	4

#	Article	IF	Citations
829	Ti-base nanoeutectic-hexagonal structured (D019) dendrite composite. Scripta Materialia, 2008, 58, 631-634.	5.2	36
830	Nanocrystallization at shear bands in bulk metallic glass matrix composites. Scripta Materialia, 2008, 58, 651-654.	5.2	20
831	Structural behavior of CuxZr100â^'x metallic glass (x=35â^'70). Journal of Non-Crystalline Solids, 2008, 354, 1054-1060.	3.1	177
832	Phase diagram studies on Er2PdSi3 and ErPd2Si2 intermetallic compounds. Journal of Alloys and Compounds, 2008, 454, 221-227.	5.5	14
833	Crystallization behavior and consolidation of ball milled Zr60Ti5Ag5Cu12.5Ni10Al7.5 glassy powders. Journal of Alloys and Compounds, 2008, 456, 159-162.	5.5	3
834	Thermal stability, microstructure and crystallization kinetics of melt-spun Zr-Ti-Cu-Ni metallic glass. Journal of Alloys and Compounds, 2008, 460, 263-267.	5.5	23
835	Preparation of bulk Nd2Fe14B/Fe3B nanocomposite magnets with high rare earth content. Intermetallics, 2008, 16, 341-344.	3.9	16
836	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.	3.9	3
837	High strength ultrafine eutectic Feâ€“Nbâ€“Al composites with enhanced plasticity. Intermetallics, 2008, 16, 642-650.	3.9	95
838	Influence of heterogeneities with different length scale on the plasticity of Fe-base ultrafine eutectic alloys. Journal of Materials Research, 2008, 23, 2003-2008.	2.6	25
839	Formation of a bimodal eutectic structure in Tiâ€“Feâ€“Sn alloys with enhanced plasticity. Applied Physics Letters, 2008, 93, .	3.3	75
840	Grain refinement assisted strengthening of carbon nanotube reinforced copper matrix nanocomposites. Applied Physics Letters, 2008, 92, .	3.3	112
841	Propagation of shear bands in a Cu47.5Zr47.5Al5 bulk metallic glass. Journal of Materials Research, 2008, 23, 6-12.	2.6	32
842	Consolidation and Mechanical Properties of Mechanically Alloyed Al-Mg Powders. Materials Research Society Symposia Proceedings, 2008, 1128, 54601.	0.1	0
843	High strength porous Tiâ€“6Alâ€“4V foams synthesized by solid state powder processing. Journal Physics D: Applied Physics, 2008, 41, 105404.	2.8	16
844	Propagation of shear bands and accommodation of shear strain in the Fe56Nb4Al40 ultrafine eutectic-dendrite composite. Applied Physics Letters, 2008, 92, .	3.3	63
845	Magnetic hardening mechanism of PrCo₅-based ribbons with C addition prepared by melt spinning. International Journal of Materials Research, 2008, 99, 67-69.	0.3	2
846	Influence of a bimodal eutectic structure on the plasticity of a (Ti70.5Fe29.5)91Sn9 ultrafine composite. Applied Physics Letters, 2008, 93, .	3.3	43

#	Article	IF	Citations
847	High strength Niâ€“Zr binary ultrafine eutectic-dendrite composite with large plastic deformability. Applied Physics Letters, 2008, 93, .	3.3	36
848	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.	1.2	23
849	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.	2.6	24
850	Strain distribution in Zr64.13Cu15.75Ni10.12Al10 bulk metallic glass investigated by in situ tensile tests under synchrotron radiation. Journal of Applied Physics, 2008, 104, .	2.5	64
851	Influence of sub-Tg annealing on the crystallization kinetics of Cu47Ti33Zr11Ni8Si1 metallic glass. Journal of Applied Physics, 2008, 104, .	2.5	15
852	Deformation and fracture of Ti-base nanostructured composite. International Journal of Materials Research, 2008, 99, 985-990.	0.3	1
853	Mechanical Properties of Bulk Metallic Glasses. MRS Bulletin, 2007, 32, 635-638.	3.5	328
854	Formability Evaluation of both Monolithic and Multiphase Zr-Based Bulk Metallic Glasses. Key Engineering Materials, 2007, 345-346, 105-108.	0.4	4
855	Structure Formation and Mechanical Behavior of Two-phase Nanostructured Materials. , 2007, , 565-675.		5
856	Superior mechanical properties of FeCrMoVC. Applied Physics Letters, 2007, 90, 261901.	3.3	29
857	Deformation-induced nanoscale high-temperature phase separation in Coâ€“Fe alloys at room temperature. Applied Physics Letters, 2007, 90, 201908.	3.3	10
858	Ductile ultrafine-grained Ti-based alloys with high yield strength. Applied Physics Letters, 2007, 91, .	3.3	64
859	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, .	3.2	65
860	Calorimetric study of the crystallization kinetics ofCu47Ti33Zr11Ni8Si1metallic glass. Physical Review B, 2007, 75, .	3.2	23
861	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.	2.6	8
862	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.	2.6	3
863	Powder Metallurgy of Nanostructured High Strength Materials. Materials Science Forum, 2007, 534-536, 1405-1408.	0.3	2
864	Influence of cooling rate on crystallization and microstructure of the monotectic Ni₅₄Nb₂₃Y₂₃alloy. Philosophical Magazine Letters, 2007, 87, 839-846.	1.2	4

#	Article	IF	Citations
865	Microstructure and mechanical properties of slowly cooled Cu47.5Zr47.5Al5. Journal of Materials Research, 2007, 22, 326-333.	2.6	47
866	Structural Relaxation and Crystallization of a Zr₄₄Ti₁₁Cu_{9.8}Ni_{10.2}Be₂₅ Bulk Metallic Glass. Materials Transactions, 2007, 48, 1722-1728.	1.2	8
867	Phase Separation and Crystallization in Cu-Zr Metallic Glasses. Materials Transactions, 2007, 48, 1639-1643.	1.2	12
868	Impact of Microstructural Inhomogenities on the Ductility of Bulk Metallic Glasses. Materials Transactions, 2007, 48, 1806-1811.	1.2	8
869	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.	2.6	6
870	Load relaxation behavior of a Zr41.2Ti13.8Cu12.5Ni10 Be22.5 bulk metallic glass. Journal of Non-Crystalline Solids, 2007, 353, 2515-2520.	3.1	13
871	Structural behavior of amorphous and liquid metallic alloys at elevated temperatures. Journal of Non-Crystalline Solids, 2007, 353, 3327-3331.	3.1	10
872	Mixed viscous flow and softening of bulk metallic glasses. Journal of Non-Crystalline Solids, 2007, 353, 3754-3757.	3.1	3
873	On the Kaiser effect in bulk metallic glasses. Journal of Non-Crystalline Solids, 2007, 353, 3769-3771.	3.1	9
874	Strengthening of multicomponent glass-forming alloys by microstructure design. Journal of Non-Crystalline Solids, 2007, 353, 3742-3749.	3.1	8
875	Amorphization in mechanically alloyed (Ti, Zr, Nb)â€“(Cu, Ni)â€“Al equiatomic alloys. Journal of Alloys and Compounds, 2007, 428, 157-163.	5.5	70
876	Formation of icosahedral phase in an Al93Fe3Cr2Ti2 bulk alloy. Journal of Alloys and Compounds, 2007, 436, L1-L4.	5.5	18
877	Microstructural investigation of a deformed Ti66.1Cu8Ni4.8Sn7.2Nb13.9 nanostructureâ€“dendrite composite. Journal of Alloys and Compounds, 2007, 434-435, 106-109.	5.5	27
878	Studies on the crystallization kinetics of Cu-reinforced partially crystalline Cu47Ti33Zr11Ni8Si1 metallic glass composite. Journal of Alloys and Compounds, 2007, 434-435, 203-206.	5.5	8
879	Effect of Zr on the crystallization behavior of multi-component Zr-based metallic glasses. Journal of Alloys and Compounds, 2007, 434-435, 217-220.	5.5	2
880	Bulk ultra-fine eutectic structure in Tiâ€“Feâ€“base alloys. Journal of Alloys and Compounds, 2007, 434-435, 28-31.	5.5	42
881	Fe65.5Cr4Mo4Ga4P12C5B5.5 BMGs: Sample preparation, thermal stability and mechanical properties. Journal of Alloys and Compounds, 2007, 434-435, 171-175.	5.5	19
882	Deformation behavior of a Ti66Cu8Ni4.8Sn7.2Nb14 nanostructured composite containing ductile dendrites. Journal of Alloys and Compounds, 2007, 434-435, 13-17.	5.5	19

#	Article	IF	Citations
883	Conditions for quasicrystal formation from mechanically alloyed Zr-based glassy powders. Intermetallics, 2007, 15, 571-582.	3.9	26
884	Severe plastic deformation of a Ti-based nanocomposite alloy studied by nanoindentation. Intermetallics, 2007, 15, 1038-1045.	3.9	14
885	Electrode characteristics of two-phase glass-forming Niâ€“Nbâ€“Y alloys. Intermetallics, 2007, 15, 1183-1189.	3.9	12
886	Plasticity in bulk metallic glasses investigated via the strain distribution. Physical Review B, 2007, 76, .	3.2	45
887	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.	13.7	13
888	Mechanical properties of bulk metallic glasses and composites. Journal of Materials Research, 2007, 22, 285-301.	2.6	386
889	Phase stability and consolidation of glassy/nanostructured Al85Ni9Nd4Co2 alloys. Journal of Materials Research, 2007, 22, 1145-1155.	2.6	20
890	Strain rate dependence of plastic flow in Ce-based bulk metallic glass during nanoindentation. Journal of Materials Research, 2007, 22, 258-263.	2.6	33
891	The Physical Nature of Materials Strengths. Advanced Engineering Materials, 2007, 9, 143-146.	3.5	9
892	Processing Routes, Microstructure and Mechanical Properties of Metallic Glasses and their Composites. Advanced Engineering Materials, 2007, 9, 443-453.	3.5	44
893	Martensite Formation in a Ductile Cu47.5Zr47.5Al5 Bulk Metallic Glass Composite. Advanced Engineering Materials, 2007, 9, 487-491.	3.5	44
894	New Feâ€“Crâ€“Moâ€“Gaâ€“C composites with high compressive strength and large plasticity. Acta Materialia, 2007, 55, 3513-3520.	7.9	13
895	Ti-base bulk nanostructure-dendrite composites: Microstructure and deformation. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2007, 449-451, 24-29.	5.6	33
896	Devitrification of nano-scale icosahedral phase in multicomponent alloys. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2007, 449-451, 983-986.	5.6	9
897	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.	5.6	7
898	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.	5.6	29
899	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.	5.6	74
900	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.	5.6	7

#	Article	IF	Citations
901	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.	5.6	2
902	Metallic glass formation in the Cu47Ti33Zr11Ni8Si1 alloy. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2007, 444, 257-264.	5.6	6
903	Superconducting gaps of nanocrystalline MgB2. Physica C: Superconductivity and Its Applications, 2007, 460-462, 553-554.	1.2	1
904	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.	2.3	6
905	Mechanical properties of a two-phase amorphous Niâ€“Nbâ€“Y alloy studied by nanoindentation. Scripta Materialia, 2007, 56, 85-88.	5.2	46
906	Dynamic softening and indentation size effect in a Zr-based bulk glass-forming alloy. Scripta Materialia, 2007, 56, 605-608.	5.2	88
907	Phase separation in amorphous Niâ€“Nbâ€“Y alloys. Scripta Materialia, 2007, 57, 29-32.	5.2	28
908	High strength Tiâ€“Feâ€“Sn ultrafine composites with large plasticity. Scripta Materialia, 2007, 57, 101-104.	5.2	133
909	Deformation behavior and plastic instability of off-stoichiometric Coâ€“Fe alloys. Scripta Materialia, 2007, 57, 731-734.	5.2	4
910	Tailoring of microstructure and mechanical properties of a Ti-based bulk metallic glass-forming alloy. Scripta Materialia, 2007, 57, 1101-1104.	5.2	78
911	Crystallization of Amorphous Material. , 2007, , 6-1-6-27.		1
912	Structural evolution of nano-scale icosahedral phase in novel multicomponent amorphous alloys. Philosophical Magazine, 2006, 86, 281-286.	1.6	8
913	High-field magnetization and coercivity of hard magnetic mold-cast Nd80Fe20. Journal of Applied Physics, 2006, 99, 083904.	2.5	4
914	Deformation-induced nanostructuring in a Tiâ€“Nbâ€“Taâ€“In Î² alloy. Applied Physics Letters, 2006, 89, 031906.	3.3	50
915	Work hardening ability of ductile Ti45Cu40Ni7.5Zr5Sn2.5 and Cu47.5Zr47.5Al5 bulk metallic glasses. Applied Physics Letters, 2006, 89, 071908.	3.3	56
916	Structural short-range order of the Î²-Ti phase in bulk Tiâ€“Feâ€“(Sn) nanoeutectic composites. Applied Physics Letters, 2006, 89, 261917.	3.3	31
917	Thermal stability and crystallization kinetics of mechanically alloyed TiCâ•Ti-based metallic glass matrix composite. Journal of Applied Physics, 2006, 100, 033514.	2.5	65
918	Nanocrystal development in Cu47Ti33Zr11Ni8Si1 metallic glass powders. Journal of Alloys and Compounds, 2006, 415, 162-169.	5.5	11

#	Article	IF	Citations
919	Mechano-chemical synthesis and characterization of microstructure and magnetic properties of nanocrystalline Mn1â^'xZnxFe2O4. Journal of Alloys and Compounds, 2006, 424, 13-20.	5.5	49
920	Cooling rate controlled microstructure and magnetic properties of metastable Fe20Nd80 alloys. Intermetallics, 2006, 14, 47-53.	3.9	7
921	High strength ductile Cu-base metallic glass. Intermetallics, 2006, 14, 876-881.	3.9	123
922	Effect of cooling rate on microstructure and glass-forming ability of a (Ti33Zr33Hf33)70(Ni50Cu50)20Al10 alloy. Intermetallics, 2006, 14, 972-977.	3.9	9
923	Fracture surface morphology of compressed bulk metallic glass-matrix-composites and bulk metallic glass. Intermetallics, 2006, 14, 982-986.	3.9	66
924	Effect of preannealing on glass transition and crystallization of gas atomized Cu47Ti33Zr11Ni8Si1 metallic glass powders. Intermetallics, 2006, 14, 1085-1090.	3.9	8
925	Enhanced microhardness in nanocomposite Ti60Cu14Ni12Sn4Ta10 processed by high pressure torsion. Intermetallics, 2006, 14, 871-875.	3.9	11
926	Ductile Metallic Glasses in Supercooled Martensitic Alloys. Materials Transactions, 2006, 47, 2606-2609.	1.2	55
927	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.	1.5	0
928	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.	7.9	246
929	Ultrafine composite microstructure in a bulk Ti alloy for high strength, strain hardening and tensile ductility. Acta Materialia, 2006, 54, 1349-1357.	7.9	125
930	Effect of Cu on local amorphization in bulk Niâ€“Tiâ€“Zrâ€“Si alloys during solidification. Acta Materialia, 2006, 54, 3141-3150.	7.9	7
931	Microscopic deformation mechanism of a Ti66.1Nb13.9Ni4.8Cu8Sn7.2 nanostructureâ€“dendrite composite. Acta Materialia, 2006, 54, 3701-3711.	7.9	93
932	Limited quasicrystal formation in Zrâ€“Tiâ€“Cuâ€“Niâ€“Al bulk metallic glasses. Acta Materialia, 2006, 54, 4685-4692.	7.9	31
933	Influence of environment and grain size on magnetic properties of nanocrystalline Mnâ€“Zn ferrite. Journal of Magnetism and Magnetic Materials, 2006, 306, 9-15.	2.3	25
934	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.	3.7	9
935	Fe-based bulk amorphous soft magnetic materials. Journal of Magnetism and Magnetic Materials, 2006, 304, 192-196.	2.3	27
936	Revisiting the Cu47Ti33Zr11Ni8Si1 glass-forming alloy. Scripta Materialia, 2006, 54, 835-840.	5.2	17

#	Article	IF	Citations
937	Fabrication and mechanical properties of Niâ€“Nb metallic glass particle-reinforced Al-based metal matrix composite. Scripta Materialia, 2006, 54, 1445-1450.	5.2	95
938	Phase stability and its effect on the deformation behavior of Tiâ€“Nbâ€“Taâ€“In/Cr Î² alloys. Scripta Materialia, 2006, 54, 1943-1948.	5.2	93
939	Improvement of the glass-forming ability of Zr55Cu30Al10Ni5 and Cu47Ti34Zr11Ni8 alloys by electro-deoxidation of the melts. Scripta Materialia, 2006, 55, 87-90.	5.2	23
940	Influence of annealing on the microstructure and hardness of Ti67.79Fe28.36Sn3.85 nanocomposite rods. Scripta Materialia, 2006, 55, 1087-1090.	5.2	7
941	Mechanical properties and fracture behavior of the modified Ti-base bulk metallic glass-forming alloys. Materials Letters, 2006, 60, 656-661.	2.6	18
942	On the fragility of Cu47Ti33Zr11Ni8Si1metallic glass. Journal Physics D: Applied Physics, 2006, 39, 2600-2608.	2.8	15
943	Superconducting properties of nanocrystalline MgB2. Superconductor Science and Technology, 2006, 19, 912-915.	3.5	19
944	Influence of ball milling on quasicrystal formation in melt-spun Zr-based glassy ribbons. Philosophical Magazine, 2006, 86, 367-371.	1.6	0
945	Effect of Sn on microstructure and mechanical properties of (Tiâ€“Cu)-based bulk metallic glasses. Philosophical Magazine Letters, 2006, 86, 479-486.	1.2	32
946	Enhanced thermal stability of the devitrified nanoscale icosahedral phase in novel multicomponent amorphous alloys. Journal of Materials Research, 2006, 21, 823-831.	2.6	9
947	Characterization of rate-dependent shear behavior of Zr-based bulk metallic glass using shear-punch testing. Journal of Materials Research, 2006, 21, 153-160.	2.6	21
948	Strength asymmetry of ductile dendrites reinforced Zr- and Ti-based composites. Journal of Materials Research, 2006, 21, 2331-2336.	2.6	39
949	Wavy cleavage fracture of bulk metallic glass. Applied Physics Letters, 2006, 89, 251917.	3.3	83
950	Heterogeneity of a Cu47.5Zr47.5Al5 bulk metallic glass. Applied Physics Letters, 2006, 88, 051911.	3.3	152
951	Glass-forming ability and fragility parameter of amorphous Fe67Co9.5Nd3Dy0.5B20. Journal of Applied Physics, 2006, 100, 023501.	2.5	14
952	High strength hexagonal structured dendritic phase reinforced Zrâ€“Tiâ€“Ni bulk alloy with enhanced ductility. Applied Physics Letters, 2006, 88, 201920.	3.3	24
953	Shear fracture and fragmentation mechanisms of bulk metallic glasses. Philosophical Magazine Letters, 2006, 86, 643-650.	1.2	69
954	Nanocrystallization of gas atomized Cu47Ti33Zr11Ni8Si1 metallic glass. Journal of Materials Research, 2006, 21, 597-607.	2.6	14

#	Article	IF	Citations
955	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.	0.3	0
956	Magnetostriction of hard magnetic Nd80Fe20 mold-cast rod. Journal of Magnetism and Magnetic Materials, 2005, 285, 395-400.	2.3	6
957	Influence of Nb addition on structural and magnetic properties of FeNbAlGaPCB metallic glasses. Journal of Magnetism and Magnetic Materials, 2005, 290-291, 1461-1464.	2.3	2
958	Bulk amorphous FeCrMoGaPCB: Preparation and magnetic properties. Journal of Magnetism and Magnetic Materials, 2005, 290-291, 1480-1482.	2.3	43
959	Element segregation during crystal growth processes of Ce2PdxCo1â^'xSi3 intermetallic compounds. Journal of Crystal Growth, 2005, 275, e109-e114.	1.5	3
960	Effects of oxide particle addition on superconductivity in nanocrystalline MgB2 bulk samples. Physica C: Superconductivity and Its Applications, 2005, 432, 15-24.	1.2	21
961	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.	5.6	31
962	Corrosion behaviour of a Ti-base nanostructure-dendrite composite. Electrochimica Acta, 2005, 50, 2461-2467.	5.2	30
963	Formation of a metastable eutectic during the solidification of the alloy Ti60Cu14Ni12Sn4Ta10. Acta Materialia, 2005, 53, 5141-5149.	7.9	18
964	Behavior of multiple shear bands in Zr-based bulk metallic glass. Materials Chemistry and Physics, 2005, 93, 174-177.	4.0	86
965	Rotation mechanism of shear fracture induced by high plasticity in Ti-based nano-structured composites containing ductile dendrites. Scripta Materialia, 2005, 52, 945-949.	5.2	69
966	Microstructural and Nano-Mechanical Characterisation of Multicomponent Composites Nanocrystalline Matrix. Advanced Engineering Materials, 2005, 7, 197-201.	3.5	1
967	Nanostructured Composite Materials with Improved Deformation Behavior. Advanced Engineering Materials, 2005, 7, 587-596.	3.5	29
968	Elevated Temperature Deformation Behavior of Zr-Based Bulk Metallic Glasses. Advanced Engineering Materials, 2005, 7, 833-841.	3.5	15
969	Formation, Thermal Stability and Deformation Behavior of High-Strength Cu-Based Bulk Glassy and Nanostructured Alloys. Advanced Engineering Materials, 2005, 7, 960-965.	3.5	7
970	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.	1.8	14
971	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.	1.8	6
972	Vickers hardness and compressive properties of bulk metallic glasses and nanostructure-dendrite composites. Journal of Materials Research, 2005, 20, 2632-2638.	2.6	34

#	Article	IF	Citations
973	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.		
974	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
975	In Situ Formed Bulk Nanostructured Ti-Base Composites. Journal of Metastable and Nanocrystalline Materials, 2005, 24-25, 31-36.	0.1	1
976	Mechanically Alloyed MgB₂ Superconductors: Microstructure, Tape Formation and Critical Currents. Journal of Metastable and Nanocrystalline Materials, 2005, 24-25, 559-564.	0.1	0
977	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
978	Magnetic transitions in Dy-microalloyed Fe-based bulk metallic glasses. Journal Physics D: Applied Physics, 2005, 38, 2162-2165.	2.8	10
979	High-strength Ti-base ultrafine eutectic with enhanced ductility. Applied Physics Letters, 2005, 87, 161907.	3.3	151
980	Propagation of shear bands in Ti66.1Cu8Ni4.8Sn7.2Nb13.9 nanostructure-dendrite composite during deformation. Applied Physics Letters, 2005, 86, 171909.	3.3	44
981	Interfacial instability-driven amorphizationâ•nanocrystallization in a bulkNi45Cu5Ti33Zr16Si1alloy during solidification. Physical Review B, 2005, 72, .	3.2	4
982	Stoichiometry dependence of superconductivity and microstructure in mechanically alloyed MgB2. Journal of Applied Physics, 2005, 97, 056105.	2.5	35
983	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.	1.7	1
984	Plastic Deformation and Mechanical Softening of Pd40Cu30Ni10P20 Bulk Metallic Glass During Nanoindentation. Journal of Materials Research, 2005, 20, 2719-2725.	2.6	48
985	Mechanical Characterization of Cu₆₀Zr₂₂Ti₁₈ Bulk Metallic Glasses. Journal of Metastable and Nanocrystalline Materials, 2005, 24-25, 669-672.	0.1	0
986	Shear and distensile fracture behaviour of Ti-based composites with ductile dendrites. Philosophical Magazine, 2005, 85, 897-915.	1.6	17
987	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.	3.1	9
988	Quasicrystalline phase formation in Zrâ€“Tiâ€“Nbâ€“Cuâ€“Niâ€“(Al) metallic glasses. Journal of Alloys and Compounds, 2005, 387, 269-273.	5.5	7
989	Crystallization kinetics of amorphous Fe67Co9.5Nd3Dy0.5B20. Journal of Alloys and Compounds, 2005, 397, 104-109.	5.5	44
990	Mechanical behavior of Fe65.5Cr4Mo4Ga4P12C5B5.5 bulk metallic glass. Intermetallics, 2005, 13, 764-769.	3.9	108

#	Article	IF	Citations
991	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.	3.9	52
992	Effect of relaxation and primary nanocrystallization on the mechanical properties of Cu60Zr22Ti18 bulk metallic glass. Intermetallics, 2005, 13, 1214-1219.	3.9	58
993	Unified Tensile Fracture Criterion. Physical Review Letters, 2005, 94, 094301.	7.8	213
994	Effect of aspect ratio on the compressive deformation and fracture behaviour of Zr-based bulk metallic glass. Philosophical Magazine Letters, 2005, 85, 513-521.	1.2	145
995	â€œWork-Hardenableâ€•Ductile Bulk Metallic Glass. Physical Review Letters, 2005, 94, 205501.	7.8	857
996	Toughening mechanisms of a Ti-based nanostructured composite containing ductile dendrites. International Journal of Materials Research, 2005, 96, 675-680.	0.8	11
997	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
998	Serrated Plastic Flow in a Zr-based Bulk Metallic Glass During Nanoindentation. Chinese Physics Letters, 2004, 21, 1593-1595.	3.3	20
999	Microstructure and impurity dependence in mechanically alloyed nanocrystalline MgB2superconductors. Superconductor Science and Technology, 2004, 17, 1148-1153.	3.5	29
1000	NMRinvestigations of medium-range order and quasicrystal formation inZr59Cu20Al10Ni8Ti3metallic glass. Physical Review B, 2004, 70, .	3.2	10
1001	Mechanism of internal friction in bulk Zr65Cu17.5Ni10Al7.5 metallic glass. Physical Review B, 2004, 70, .	3.2	12
1002	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.	2.5	19
1003	MÃ¶ssbauer study of FeCoSiAlGaPCB amorphous alloys. Journal of Applied Physics, 2004, 95, 4151-4156.	2.5	5
1004	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
1005	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
1006	Glass Transition and Crystallization of Zr₆₀Ti₂Al₁₀Cu₂₀Ni₈ Bulk Metallic Glass. Journal of Metastable and Nanocrystalline Materials, 2004, 20-21, 59-64.	0.1	1
1007	High-performance bulk Ti-Cu-Ni-Sn-Ta nanocomposites based on a dendrite-eutectic microstructure. Journal of Materials Research, 2004, 19, 2557-2566.	2.6	36
1008	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.	2.6	5

#	Article	IF	Citations
1009	Inverse deformation-fracture responses between dendrite and matrix in Ti-based nanostructureâ€“dendrite composite. Philosophical Magazine Letters, 2004, 84, 365-372.	1.2	26
1010	Correlation between enthalpy change and free volume reduction during structural relaxation of Zr55Cu30Al10Ni5 metallic glass. Scripta Materialia, 2004, 50, 39-44.	5.2	483
1011	Devitrification and phase transformation of (Ti0.5Cu0.25Ni0.15Sn0.05Zr0.05)100â^'xMox metallic glasses. Scripta Materialia, 2004, 50, 7-11.	5.2	12
1012	Cold-consolidation of ball-milled Fe-based amorphous ribbons by high pressure torsion. Scripta Materialia, 2004, 50, 1221-1225.	5.2	81
1013	Polarisation behaviour of the Zr57Ti8Nb2.5Cu13.9Ni11.1Al7.5 alloy in different microstructural states in acid solutions. Scripta Materialia, 2004, 50, 1379-1384.	5.2	32
1014	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.	3.7	10
1015	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.	3.7	7
1016	Mechanically alloyed Zrâ€“Cuâ€“Alâ€“Niâ€“C glassy powders. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2004, 375-377, 804-808.	5.6	15
1017	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.	5.6	24
1018	Co-based Soft Magnetic Bulk Materials Prepared by Hot Powder Compaction. European Physical Journal D, 2004, 54, 81-84.	0.4	2
1019	Magnetoresistance and Magnetoimpedance Effects in DC Joule Heated Fe72Al5Ga2P11C6B4 Amorphous Ribbons. European Physical Journal D, 2004, 54, 157-160.	0.4	1
1020	Fatigue and fracture behavior of bulk metallic glass. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2004, 35, 3489-3498.	2.2	85
1021	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.	2.2	11
1022	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.	2.2	5
1023	Magnetic properties and magnetic domain structure of bulk glass forming Nd60Al10Fe20Co10 alloy. Physica Status Solidi A, 2004, 201, 1563-1569.	1.7	1
1024	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.	1.2	28
1025	Processing dependence of Young's modulus of Ti-base nanostructured alloys. Solid State Communications, 2004, 129, 711-715.	1.9	17
1026	Structure and magnetic properties of hot pressed Co-based powder. Journal of Magnetism and Magnetic Materials, 2004, 278, 373-378.	2.3	20

#	Article	IF	Citations
1027	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.	5.6	12
1028	Corrosion behaviour of the Mg65Y10Cu15Ag10 bulk metallic glass. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2004, 375-377, 280-284.	5.6	27
1029	Electrochemical removal of oxygen for processing glass-forming alloys. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2004, 375-377, 240-243.	5.6	11
1030	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.	5.6	42
1031	Magnetic properties of amorphous Ndâ€“Feâ€“Coâ€“Al alloys. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2004, 375-377, 1083-1086.	5.6	10
1032	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.	5.6	36
1033	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.	5.6	7
1034	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.	5.6	6
1035	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.	5.6	9
1036	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.	5.6	2
1037	Hard magnetic properties of bulk amorphous Nd60Fe20Co10Al10 investigated by SANSPOL. Physica B: Condensed Matter, 2004, 350, E315-E318.	2.7	12
1038	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.	7.9	110
1039	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.	2.5	29
1040	Quasicrystal formation in mechanically alloyed Zrâ€“Tiâ€“Nbâ€“Cuâ€“Niâ€“Al glassy powders. Applied Physics Letters, 2004, 85, 4349.	3.3	11
1041	Fracture-Induced Melting in Glassy and Nanostructured Composite Materials. Journal of Metastable and Nanocrystalline Materials, 2004, 20-21, 357-365.	0.1	4
1042	Pitting corrosion of bulk glass-forming zirconium-based alloys. Journal of Alloys and Compounds, 2004, 377, 290-297.	5.5	104
1043	Effect of casting conditions on dendrite-amorphous/nanocrystalline Zrâ€“Nbâ€“Cuâ€“Niâ€“Al in situ composites. Intermetallics, 2004, 12, 1153-1158.	3.9	56
1044	Bulk glass forming and thermal stability in Fe67.0Co9.5Nd3.0Dy0.5B20 alloy. Materials Letters, 2004, 58, 1844-1852.	2.6	7

#	Article	IF	Citations
1045	Synthesis of (Al65Cu20Fe15)100â^'xSix quasicrystalline alloys by mechanical alloying. Journal of Non-Crystalline Solids, 2004, 334-335, 44-47.	3.1	12
1046	Structural behavior and glass transition of bulk metallic glasses. Journal of Non-Crystalline Solids, 2004, 345-346, 758-761.	3.1	14
1047	Electrochemical hydrogenation of Mg65Cu25Y10 metallic glass. Journal of Alloys and Compounds, 2004, 364, 229-237.	5.5	63
1048	Effect of Y addition on the microstructure and magnetic properties of Nd60â^'xYxFe30Al10 mould-cast alloys. Journal of Alloys and Compounds, 2004, 366, 248-253.	5.5	7
1049	Novel In Situ Nanostructure-Dendrite Composites in Zr-Base Multicomponent Alloy System. Materials and Manufacturing Processes, 2004, 19, 423-437.	4.7	9
1050	Nanomechanical characterization of Ti-base nanostructure-dendrite composite. International Journal of Materials Research, 2004, 95, 317-319.	0.8	5
1051	Extraction of boron Fe8B2 ribbons by annealing under hydrogen flow. European Physical Journal Special Topics, 2004, 120, 55-59.	0.2	0
1052	A Comparative Study of MgB2 and Other Diborides. Journal of Low Temperature Physics, 2003, 131, 1159-1163.	1.4	6
1053	Effect of Al on microstructure and magnetic properties of mould-cast Nd60Fe40â^'xAlx alloys. Scripta Materialia, 2003, 48, 321-325.	5.2	8
1054	Improved mechanical behavior of Cuâ€"Ti-based bulk metallic glass by in situ formation of nanoscale precipitates. Scripta Materialia, 2003, 48, 653-658.	5.2	161
1055	Microstructure and mechanical properties of the Zr66.4Cu10.5Ni8.7Al8Ta6.4 metallic glass-forming alloy. Scripta Materialia, 2003, 48, 1531-1536.	5.2	26
1056	Stability and magnetic properties of Fe-based amorphous alloys with supercooled liquid region. Journal of Magnetism and Magnetic Materials, 2003, 254-255, 23-25.	2.3	6
1057	Low magnetostriction crystalline ribbons prepared by melt spinning and reactive annealing. Journal of Magnetism and Magnetic Materials, 2003, 254-255, 26-28.	2.3	3
1058	Soft magnetic properties of FeCoSiAlGaPCB amorphous alloys. Journal of Magnetism and Magnetic Materials, 2003, 254-255, 444-446.	2.3	2
1059	Effect of cooling rate on microstructure and magnetic properties of Nd60Fe30Al10 hard magnetic alloys. Journal of Magnetism and Magnetic Materials, 2003, 261, 122-130.	2.3	28
1060	Effect of casting conditions on microstructure and mechanical properties of high-strength Zr73.5Nb9Cu7Ni1Al9.5 in situ composites. Scripta Materialia, 2003, 49, 1189-1195.	5.2	56
1061	Nanostructured Ti-based multi-component alloys with potential for biomedical applications. Biomaterials, 2003, 24, 5115-5120.	11.4	110
1062	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.	5.6	21

#	Article	IF	Citations
1063	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.	5.6	19
1064	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.	7.9	37
1065	Difference in compressive and tensile fracture mechanisms of Zr59Cu20Al10Ni8Ti3 bulk metallic glass. Acta Materialia, 2003, 51, 1167-1179.	7.9	797
1066	Stability, phase transformation and deformation behavior of Ti-base metallic glass and composites. Acta Materialia, 2003, 51, 1621-1631.	7.9	102
1067	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.	7.9	100
1068	Co-based soft magnetic bulk amorphous ferromagnets prepared by powder consolidation. Physica Status Solidi A, 2003, 199, 299-304.	1.7	12
1069	Novel Ti-base nanostructureâ€“dendrite composite with enhanced plasticity. Nature Materials, 2003, 2, 33-37.	27.5	684
1070	High-strength Zr-Nb-(Cu,Ni,Al) composites with enhanced plasticity. Applied Physics Letters, 2003, 82, 4690-4692.	3.3	108
1071	Synthesis and mechanical properties of mechanically alloyed Al-Cu-Fe quasicrystalline composites. Philosophical Magazine, 2003, 83, 1287-1305.	1.6	33
1072	TEM and XAS Characterization of Hard Magnetic Phase in Nd-Fe Alloys. Materials Research Society Symposia Proceedings, 2003, 806, 143.	0.1	1
1073	In situ formed Tiâ€“Cuâ€“Niâ€“Snâ€“Ta nanostructure-dendrite composite with large plasticity. Acta Materialia, 2003, 51, 5223-5234.	7.9	123
1074	Coercivity mechanism in mold-cast Nd60FexCo30â^'xAl10 bulk amorphous alloys. Journal of Alloys and Compounds, 2003, 348, 309-313.	5.5	31
1075	Fracture Mechanisms in Bulk Metallic Glassy Materials. Physical Review Letters, 2003, 91, 045505.	7.8	318
1076	Al-Mn-Ce quasicrystalline composites: Phase formation and mechanical properties. Philosophical Magazine, 2003, 83, 807-825.	1.6	23
1077	Electrochemical Reactivity of Zirconium-Based Bulk Metallic Glasses. Materials Research Society Symposia Proceedings, 2003, 806, 30.	0.1	3
1078	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
1079	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
1080	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

#	Article	IF	Citations
1081	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
1082	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
1083	What types of grain boundaries can be passed through by persistent slip bands?. Journal of Materials Research, 2003, 18, 1031-1034.	2.6	28
1084	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
1085	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
1086	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
1087	Low temperature preparation of MgB2tapes using mechanically alloyed powder. Superconductor Science and Technology, 2003, 16, 281-284.	3.5	33
1088	MECHANICAL BEHAVIOR OF BULK GLASSY Fe65.5Cr4Mo4Ga4P12C5B5.5. Materials Research Society Symposia Proceedings, 2003, 806, 368.	0.1	1
1089	Microstructure of Ti-Based, Dendrite/Nanostructured-Matrix Composites. Materials Research Society Symposia Proceedings, 2003, 806, 321.	0.1	0
1090	Structural and magnetic properties of Nd60Fe30â^'xCoxAl10 melt-spun ribbons. Journal of Applied Physics, 2003, 93, 6930-6932.	2.5	3
1091	High density nanocrystalline MgB/sub 2/ bulk superconductors with improved pinning. IEEE Transactions on Applied Superconductivity, 2003, 13, 3064-3067.	1.7	12
1092	Preparation of MgB2 tapes using a nanocrystalline partially reacted precursor. Applied Physics Letters, 2003, 83, 1803-1805.	3.3	57
1093	Structural evaluation ofFe60Co10Zr8Mo5Nb2B15metallic glass under high pressure. Physical Review B, 2003, 68, .	3.2	10
1094	Formation of quasicrystals by partial devitrification of ball-milled amorphous Zr57Ti8Nb2.5Cu13.9Ni11.1Al7.5. Applied Physics Letters, 2003, 83, 2345-2347.	3.3	18
1095	Tensile and fatigue fracture mechanisms of a Zr-based bulk metallic glass. Journal of Materials Research, 2003, 18, 456-465.	2.6	31
1096	Stability of the Mg₆₅Y₁₀Cu₁₅Ag₁₀metallic glass in neutral and weakly acidic media. Journal of Materials Research, 2003, 18, 97-105.	2.6	14
1097	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
1098	Nanostructured Composites in Multicomponent Alloy Systems. Materials Transactions, 2003, 44, 1999-2006.	1.2	34

#	Article	IF	Citations
1099	Phase separation in Nd60â^'xYxFe30Al10 melt-spun ribbons. Applied Physics Letters, 2002, 80, 772-774.	3.3	26
1100	Glass-forming ability and soft magnetic properties of FeCoSiAlGaPCB amorphous alloys. Journal of Applied Physics, 2002, 92, 2073-2078.	2.5	59
1101	Improved superconducting properties in nanocrystalline bulk MgB2. Applied Physics Letters, 2002, 80, 2725-2727.	3.3	214
1102	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.	2.5	26
1103	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.	2.5	13
1104	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.	2.5	4
1105	Magnetic properties of Ndâ€“Feâ€“Co(Cu)â€“Alâ€“B amorphous alloys prepared by nonequilibrium techniques. Journal of Applied Physics, 2002, 91, 3764-3768.	2.5	15
1106	Enhanced plasticity in a Ti-based bulk metallic glass-forming alloy by in situ formation of a composite microstructure. Journal of Materials Research, 2002, 17, 3015-3018.	2.6	71
1107	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
1108	Microstructure evolution and soft magnetic properties of Fe72ÂxNbxAl5Ga2P11C6B4(xÂ0,2) metallic glasses. Journal Physics D: Applied Physics, 2002, 35, 2247-2253.	2.8	11
1109	Cooling Rate Evaluation for Bulk Amorphous Alloys from Eutectic Microstructures in Casting Processes. Materials Transactions, 2002, 43, 1670-1675.	1.2	87
1110	Structure of Zr₅₂Ti₅Cu₁₈Ni₁₅Al₁₀ Bulk Metallic Glass at Elevated Temperatures. Materials Transactions, 2002, 43, 1947-1951.	1.2	4
1111	Magnetic Properties and Phase Transformations of Bulk Amorphous Fe-Based Alloys Obtained by Different Techniques. Materials Transactions, 2002, 43, 1966-1973.	1.2	30
1112	The Electrochemical Hydrogen Sorption Behaviour of Zr-Cu-Al-Ni Metallic Glasses. Materials Transactions, 2002, 43, 1133-1137.	1.2	7
1113	High Strength Magnesium-based Glass Matrix Composites. Materials Transactions, 2002, 43, 1979-1984.	1.2	7
1114	Free Volume Evolution in Bulk Metallic Glass during High Temperature Creep. Materials Research Society Symposia Proceedings, 2002, 754, 1.	0.1	0
1115	Nanocrystalline ZrN particles embedded in Zr-Fe-Cu-Al-Ni amorphous matrix.. Materials Research Society Symposia Proceedings, 2002, 754, 1.	0.1	0
1116	Surface coating on steel by pressure friction. Materials Science and Technology, 2002, 18, 1382-1384.	1.6	0

#	Article	IF	Citations
1117	ZrNbCuNiAl bulk metallic glass matrix composites containing dendritic bcc phase precipitates. Applied Physics Letters, 2002, 80, 2478-2480.	3.3	257
1118	Alâ€“Cuâ€“Fe QUASICRYSTALLINE PHASE FORMATION BY MECHANICAL ALLOYING. Materials and Manufacturing Processes, 2002, 17, 825-841.	4.7	28
1119	Coercivity mechanism inNd60Fe30Al10andNd60Fe20Co10Al10alloys. Physical Review B, 2002, 66, .	3.2	50
1120	Structural behavior of Zr52Ti5Cu18Ni15Al10 bulk metallic glass at high temperatures. Applied Physics Letters, 2002, 80, 4525-4527.	3.3	17
1121	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.	5.5	17
1122	Structural bulk metallic glasses with different length-scale of constituent phases. Intermetallics, 2002, 10, 1183-1190.	3.9	87
1123	Effects of electrochemical hydrogenation of Zr-based alloys with high glass-forming ability. Intermetallics, 2002, 10, 1207-1213.	3.9	27
1124	Formation and thermal stability of cluster structure in Nd55Cu15Ni10Co5Al15 bulk amorphous alloy. Materials Letters, 2002, 53, 305-315.	2.6	4
1125	Corrosion behaviour of Zr-based bulk glass-forming alloys containing Nb or Ti. Materials Letters, 2002, 57, 173-177.	2.6	77
1126	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.	0.4	1
1127	Mise en ordre locale dans les alliages amorphes massifs lors de la cristallisation. Annales De Chimie: Science Des Materiaux, 2002, 27, 69-75.	0.4	6
1128	Thermal stability of mechanically alloyed Zrâ€“Cuâ€“Alâ€“Ni glass composites containing ZrC particles as a second phase. Scripta Materialia, 2002, 46, 31-35.	5.2	25
1129	Thermal stability of grain structure and defects in submicrocrystalline and nanocrystalline nickel. Scripta Materialia, 2002, 46, 685-690.	5.2	45
1130	Corrosion behaviour of carbon steel coated with Zr-based metallic glass. Materials and Corrosion - Werkstoffe Und Korrosion, 2002, 53, 85-90.	1.5	6
1131	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.	5.6	8
1132	Short-range order of Zr62â^'xTixAl10Cu20Ni8 bulk metallic glasses. Acta Materialia, 2002, 50, 305-314.	7.9	88
1133	Anomalous thermal stability of Ndâ€“Feâ€“Coâ€“Al bulk metallic glass. Acta Materialia, 2002, 50, 4357-4367.	7.9	59
1134	Thermal Relaxation and High Temperature Creep of Zr55Cu30Al10Ni5 Bulk Metallic Glass. Mechanics of Time-Dependent Materials, 2002, 6, 193-206.	4.4	35

#	Article	IF	Citations
1135	Title is missing!. Journal of Materials Science Letters, 2002, 21, 893-896.	0.5	4
1136	High Strength Nanostructured Metastable Alloys. Journal of Korean Powder Metallurgy Institute, 2002, 9, 394-408.	0.3	0
1137	Kinetics of the glass-transition and crystallization process of Fe72â^'xNbxAl5Ga2P11C6B4 (x=0,â€Š2) metallic glasses. Applied Physics Letters, 2001, 78, 2145-2147.	3.3	69
1138	Effect of hydrogen on Zr65Cu17.5Al7.5Ni10 metallic glass. Journal of Alloys and Compounds, 2001, 314, 170-176.	5.5	38
1139	Formation of Nanocrystals by Crystallisation of Zr-Al-Cu-Ni-Fe Metallic Glasses. Materials Transactions, 2001, 42, 1509-1516.	1.2	0
1140	Formation and Properties of Zr-(Ti, Nb)-Cu-Ni-Al Bulk Metallic Glasses. Materials Transactions, 2001, 42, 587-591.	1.2	32
1141	Bulk Metallic Glasses and Composites in Multicomponent Systems. Materials Transactions, 2001, 42, 650-655.	1.2	7
1142	Synthesis and mechanical properties of cast quasicrystal-reinforced Al-alloys. Acta Materialia, 2001, 49, 1351-1361.	7.9	102
1143	Nanostructured materials in multicomponent alloy systems. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2001, 301, 1-11.	5.6	41
1144	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.	5.6	74
1145	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.	5.6	8
1146	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.	5.6	32
1147	Bulk Nanostructured Multicomponent Alloys. Advanced Engineering Materials, 2001, 3, 41-47.	3.5	21
1148	Bulk nanostructured Zr-based multiphase alloys with high strength and good ductility. Scripta Materialia, 2001, 44, 1587-1590.	5.2	39
1149	Phase formation and properties of mechanically alloyed amorphous Al85Y8Ni5Co2. Scripta Materialia, 2001, 45, 237-244.	5.2	41
1150	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
1151	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
1152	Superconductivity of Annealed and Consolidated Amorphous YNi2B2C Powders. Crystal Research and Technology, 2000, 35, 427-435.	1.3	4

#	Article	IF	Citations
1153	Structural and superconducting properties of mechanically alloyed Yâ€“Pd1â^'xTMxâ€“Bâ€“C (TM=Ni,Pt). Physica B: Condensed Matter, 2000, 284-288, 1107-1108.	2.7	4
1154	Quasicrystalline Al-alloys with high strength and good ductility. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2000, 294-296, 164-167.	5.6	39
1155	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.	5.6	19
1156	Progress of solid-state reaction and glass formation in mechanically alloyed Zr65Al7.5Cu17.5Ni10. Acta Materialia, 2000, 48, 3657-3670.	7.9	30
1157	Glass-forming ability of REâ€“Alâ€“TM alloys (RE=Sm, Y; TM=Fe, Co, Cu). Acta Materialia, 2000, 48, 3823-3831.	7.9	52
1158	Corrosion behaviour of Mg65Y10Cu25 metallic glass. Scripta Materialia, 2000, 43, 279-283.	5.2	43
1159	Newtonian flow of Zr55Cu30Al10Ni5 bulk metallic glassy alloys. Scripta Materialia, 2000, 43, 459-464.	5.2	88
1160	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.	2.3	2
1161	The synthesis and properties of Zr-based metallic glasses and glass-matrix composites. Jom, 2000, 52, 43-47.	1.9	8
1162	Relation between short-range order and crystallization behavior in Zr-based amorphous alloys. Applied Physics Letters, 2000, 77, 1970-1972.	3.3	138
1163	Equation of state ofZr41Ti14Cu12.5Ni10Be22.5bulk metallic glass. Physical Review B, 2000, 61, 3166-3169.	3.2	60
1164	As-cast quasicrystalline phase in a Zr-based multicomponent bulk alloy. Applied Physics Letters, 2000, 77, 3176-3178.	3.3	64
1165	Atomic ordering and magnetic properties in Nd57Fe20B8Co5Al10 solids. Journal of Applied Physics, 2000, 88, 3565-3569.	2.5	54
1166	Formation of ultrafine nanostructure by crystallization of Zr52Al6Cu14Ni8Fe20 metallic glass. Applied Physics Letters, 2000, 77, 1153-1154.	3.3	11
1167	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
1168	Thermal Stability and Viscosity of Mg-Based Glasses and Composites. Journal of Metastable and Nanocrystalline Materials, 2000, 8, 129-134.	0.1	2
1169	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
1170	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

#	Article	IF	Citations
1171	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
1172	Glass-forming Ability and Magnetic Properties of Nd_{70â^'x}Fe₂₀Al₁₀Co_x Alloys. Journal of Materials Research, 2000, 15, 1556-1563.	2.6	53
1173	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
1174	Formation of Nanocrystals in Zr-Al-Cu-Ni Alloys. Journal of Metastable and Nanocrystalline Materials, 2000, 8, 185-190.	0.1	2
1175	Hydrogenation and its effect on the crystallisation behaviour of Zr55Cu30Al10Ni5 metallic glass. Journal of Alloys and Compounds, 2000, 298, 146-152.	5.5	52
1176	Pressure effect on crystallization of metallic glass Fe72P11C6Al5B4Ga2 alloy with wide supercooled liquid region. Journal of Applied Physics, 2000, 87, 2664-2666.	2.5	67
1177	Crystallization in Zr41.2Ti13.8Cu12.5Ni10Be22.5 bulk metallic glass under pressure. Applied Physics Letters, 2000, 77, 3553-3555.	3.3	74
1178	Thermal and magnetic properties of bulk glass forming Fe-Al-P-C-B-(Ga) alloys. Journal Physics D: Applied Physics, 1999, 32, 855-861.	2.8	23
1179	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
1180	Mechanically Attrited Superconducting Y-TM-Borocarbides (TM=Ni, Pd). Materials Science Forum, 1999, 312-314, 61-66.	0.3	0
1181	Metastable Phase Formation and Microstructure Evolution from Undercooled Eutectic Melts. Materials Science Forum, 1999, 312-314, 275-280.	0.3	4
1182	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
1183	Deformation-induced microstructural changes in Fe₄₀Ni₄₀P₁₄B₆ metallic glass. Journal of Materials Research, 1999, 14, 3765-3774.	2.6	35
1184	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.	3.3	219
1185	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.	5.6	113
1186	Structural and magnetic properties of mechanically alloyed (FexCu1 â^' x)93Zr7 (x = 0.5, 0.7) solid solutions. Journal of Magnetism and Magnetic Materials, 1999, 196-197, 214-215.	2.3	8
1187	In-situ explosive formation of NbSi2-Based nanocomposites by mechanical alloying. Scripta Materialia, 1999, 41, 1147-1151.	5.2	30
1188	Short-Range Order of Amorphous (Zr65Al7.5Cu17.5Ni10)100â€”xFex Alloys. Physica Status Solidi A, 1999, 175, 449-456.	1.7	3

#	Article	IF	Citations
1189	Mechanically alloyed Zr55Al10Cu30Ni5 metallic glass composites containing nanocrystalline W particles. Journal of Applied Physics, 1999, 85, 7112-7119.	2.5	99
1190	High strength AL-alloys with nanoquasicrystalline phase as main component. Scripta Materialia, 1999, 12, 107-110.	0.5	25
1191	Properties of Mg-Y-Cu glasses with nanocrystalline particles. Scripta Materialia, 1999, 12, 127-130.	0.5	11
1192	Nanophase composites in easy glass forming systems. Scripta Materialia, 1999, 12, 439-442.	0.5	11
1193	Nanoparticles in an amorphous Zr55Al10Cu30Ni5-matrix â€" The formation of composites by mechanical alloying. Scripta Materialia, 1999, 12, 443-446.	0.5	10
1194	Deformation mechanism of amorphous and partially crystallized alloys. Scripta Materialia, 1999, 12, 503-506.	0.5	43
1195	Nanocrystal formation, amorphization and superconductivity in YNi2B2C. Journal of Alloys and Compounds, 1999, 285, 27-36.	5.5	5
1196	Mechanical Alloying of Bulk Metallic Glass Forming Systems. Materials Science Forum, 1999, 312-314, 3-12.	0.3	23
1197	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.	0.6	42
1198	Oxide dispersion strengthened mechanically alloyed amorphous Zr-Al-Cu-Ni composites. Scripta Materialia, 1998, 38, 595-602.	5.2	74
1199	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
1200	Effect of oxygen on phase formation and thermal stability of slowly cooled Zr65Al7.5Cu17.5Ni10 metallic glass. Acta Materialia, 1998, 46, 5475-5482.	7.9	293
1201	Effect of crystalline precipitations on the mechanical behavior of bulk glass forming Zr-based alloys. Scripta Materialia, 1998, 10, 805-817.	0.5	189
1202	Structural and magnetic properties of amorphous alloys. Journal of Physics Condensed Matter, 1998, 10, L575-L581.	1.8	7
1203	Mechanically Alloyed and Rapidly Quenched Fe-Zr-B-Cu: MÃ¶ssbauer Investigation. Materials Science Forum, 1998, 269-272, 425-430.	0.3	3
1204	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
1205	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
1206	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

#	Article	IF	Citations
1207	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
1208	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.	2.5	36
1209	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.	3.3	109
1210	Crystallization Behavior and Phase Formation in Zr–Al–Cu–Ni Metallic Glass Containing Oxygen. Materials Transactions, JIM, 1998, 39, 623-632.	0.9	349
1211	Solid State Processing of Bulk Metallic Glass Forming Alloys. Materials Science Forum, 1997, 235-238, 23-28.	0.3	18
1212	Synthesis and properties of mechanically alloyed Y-Ni-B-C. Materials Letters, 1997, 31, 329-333.	2.6	4
1213	Mechanical alloying of highly processable glassy alloys. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 1997, 226-228, 364-373.	5.6	68
1214	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.	5.6	9
1215	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.	5.6	21
1216	Relaxation and crystallization of amorphous Zr65Al7.5Cu17.5Ni10. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 1997, 226-228, 468-473.	5.6	32
1217	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.	5.6	33
1218	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.	5.6	20
1219	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.	5.6	50
1220	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.	5.6	2
1221	Remanence enhancement in mechanically alloyed two-phase Nd-Fe-B magnetic material. Materials Letters, 1996, 26, 167-170.	2.6	24
1222	Formation of amorphous alloys with significant supercooled liquid region by mechanical alloying. Journal of Non-Crystalline Solids, 1996, 205-207, 500-503.	3.1	4
1223	Mg-based amorphous alloys with extended supercooled liquid region produced by mechanical alloying. Journal of Non-Crystalline Solids, 1996, 205-207, 514-517.	3.1	14
1224	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.	3.1	12

#	Article	IF	Citations
1225	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.	2.2	15
1226	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.	2.3	16
1227	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
1228	Bulk Metallic Glasses with Significant Supercooled Liquid Region Prepared by Mechanical Alloying. Materials Science Forum, 1996, 225-227, 113-118.	0.3	7
1229	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
1230	Domain studies on mechanically alloyed Fe-Zr-B-Cu-nanocrystalline powder. IEEE Transactions on Magnetics, 1996, 32, 4383-4385.	2.1	13
1231	Formation of amorphous Zrâ€Alâ€Cuâ€Ni with a large supercooled liquid region by mechanical alloying. Journal of Applied Physics, 1995, 77, 5446-5448.	2.5	52
1232	Relationships governing the grain size of nanocrystalline metals and alloys. Scripta Materialia, 1995, 6, 413-416.	0.5	37
1233	Mechanically alloyed Zr-Ti-Cu-Ni amorphous alloys with significant supercooled liquid region. Materials Letters, 1995, 23, 299-304.	2.6	19
1234	Thermal stability and grain growth behavior of mechanically alloyed nanocrystalline Feâ€Cu alloys. Journal of Applied Physics, 1993, 73, 131-141.	2.5	227
1235	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
1236	Melting behavior of nanocrystalline aluminum powders. Scripta Materialia, 1993, 2, 407-413.	0.5	150
1237	Mechanically driven alloying and grain size changes in nanocrystalline Feâ€Cu powders. Journal of Applied Physics, 1993, 73, 2794-2802.	2.5	285
1238	Reversible grain size changes in ball-milled nanocrystalline Feâ€“Cu alloys. Journal of Materials Research, 1992, 7, 1980-1983.	2.6	109
1239	Structural and thermodynamic properties of nanocrystalline fcc metals prepared by mechanical attrition. Journal of Materials Research, 1992, 7, 1751-1761.	2.6	443
1240	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
1241	Comparison of glass formation by mechanical alloying and solid-state interdiffusion in Niî—¸Zr composites. Journal of Non-Crystalline Solids, 1991, 130, 273-286.	3.1	18
1242	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.	3.1	58

#	Article	IF	Citations
1243	Formation of quasicrystalline and amorphous phases in mechanically alloyed Al-based and Tiî—¸Ni-based alloys. Acta Metallurgica Et Materialia, 1991, 39, 1497-1506.	1.8	90
1244	Phase Transitions and Quasi-Crystal Formation in Al-Cu-Mn Induced by Ball Milling. Europhysics Letters, 1991, 14, 188-188.	2.0	0
1245	Quasicrystal formation and phase transitions by ball milling. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 1991, 133, 393-397.	5.6	42
1246	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.	5.6	12
1247	Amorphization reaction during mechanical alloying: influence of the milling conditions. Journal of Materials Science, 1991, 26, 441-446.	3.7	36
1248	Interdiffusion reaction, phase sequence, and glass formation in Ni-Zr composites. Journal of Materials Research, 1991, 6, 1874-1885.	2.6	19
1249	Glass formation and extended solubilities in mechanically alloyed cobalt-transition metal alloys. Journal of the Less Common Metals, 1990, 166, 293-302.	0.8	54
1250	Compositional dependence of quasicrystal formation in mechanically alloyed Alî—¸Cuî—¸Mn. Journal of the Less Common Metals, 1990, 167, 143-152.	0.8	20
1251	Formation of quasicrystals by mechanical alloying. Applied Physics Letters, 1989, 55, 117-119.	3.3	163
1252	Glass-forming ranges in transition metal-Zr alloys prepared by mechanical alloying. Journal of the Less Common Metals, 1988, 145, 283-291.	0.8	44
1253	Glass-forming ranges of mechanically alloyed powders. Journal of the Less Common Metals, 1988, 140, 93-98.	0.8	29
1254	Glassâ€forming range in mechanically alloyed Niâ€Zr and the influence of the milling intensity. Journal of Applied Physics, 1988, 64, 3224-3228.	2.5	257
1255	Improvement of the soft magnetic properties of Fe-based glassy alloys with a large supercooled-liquid region. , 0, , .		0
1256	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
1257	Rapid Manufacturing of Cellular Structures of Steel or Titaniumalumide. Materials Science Forum, 0, 690, 103-106.	0.3	12
1258	Thermal Stability and Crystallization Kinetics of Ti₄₀Zr₁₀Cu₃₄Pd₁₄Sn<sub>2</su Bulk Metallic Glass. Solid State Phenomena, 0, 188, 3-10.		
1259	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
1260	Powder Metallurgy of Nanostructured High Strength Materials. Materials Science Forum, 0, , 1405-1408.	0.3	1

#	Article	IF	Citations
1261	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, , .	3.4	2
1262	Nanosized Magnetization Density Profiles in Hard Magnetic Ndï£¿Feï£¿Coï£¿Al Glasses. , 0, , 263-276.		0