Yongjiang Huang

List of Publications by Year
in descending order

181	3,671	126708	182168
papers	citations	33 h-index	51 g-index

182	182	182	2193
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Shrinked bifilms in Mg-Gd-Y-Zr alloy. Materials Letters, 2022, 306, 130906.	1.3	2
2	Overcoming the strength-ductility trade-off in an additively manufactured CoCrFeMnNi high entropy alloy via deep cryogenic treatment. Additive Manufacturing, 2022, 50, 102546.	1.7	12
3	Enhanced tensile properties and wear resistance of additively manufactured CoCrFeMnNi high-entropy alloy at cryogenic temperature. Rare Metals, 2022, 41, 1210-1216.	3.6	19
4	Intermediate-Temperature Tensile Behavior of a Hot-Rolled Mg-Li-Al-Cd-Zn Alloy. Materials, 2022, 15, 1686.	1.3	2
5	Atomic study on deformation behaviors of crystal-glass nanocomposite with a typical hierarchical structure. Computational Materials Science, 2022, 206, 111287.	1.4	7
6	A new strategy to overcome the strength-ductility trade off of high entropy alloy. Scripta Materialia, 2022, 214, 114678.	2.6	17
7	Strengthening CrFeCoNiMn0.75Cu0.25 high entropy alloy via laser shock peening. International Journal of Plasticity, 2022, 154, 103296.	4.1	60
8	Enhancing the magnetocaloric response of high-entropy metallic-glass by microstructural control. Science China Materials, 2022, 65, 1134-1142.	3.5	24
9	Tensile Properties of Melt-Extracted and Annealed Ni/Fe-Based Amorphous Metallic Fibers. Metals, 2022, 12, 918.	1.0	2
10	A virtual velocity-based integrated navigation method for strapdown inertial navigation system and Doppler velocity logÂcoupled with unknown current. Review of Scientific Instruments, 2022, 93, .	0.6	3
11	The relationship between thermo-mechanical history, microstructure and mechanical properties in additively manufactured CoCrFeMnNi high entropy alloy. Journal of Materials Science and Technology, 2021, 77, 187-195.	5.6	41
12	Manufacture and characterization of HoErCo medium-entropy alloy microwires with excellent magnetic entropy change. Journal of Non-Crystalline Solids, 2021, 556, 120570.	1.5	3
13	Structure of oxide bifilms in nickel-aluminium bronze alloys. Applied Surface Science, 2021, 541, 148491.	3.1	3
14	Columnar to equiaxed transition in additively manufactured CoCrFeMnNi high entropy alloy. Materials and Design, 2021, 197, 109262.	3.3	62
15	Three-dimensional reconstruction of bifilm defects. Scripta Materialia, 2021, 191, 179-184.	2.6	13
16	Real-Time Terrain-Following of an Autonomous Quadrotor by Multi-Sensor Fusion and Control. Applied Sciences (Switzerland), 2021, 11, 1065.	1.3	5
17	Oxide bifilm defects in aluminum alloy castings. Materials Letters, 2021, 285, 129089.	1.3	8
18	Temperature-dependent deformation behavior of a CuZr-based bulk metallic glass composite. Journal of Alloys and Compounds, 2021, 858, 158368.	2.8	10

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19	Controllable additive manufacturing of gradient bulk metallic glass composite with high strength and tensile ductility. Acta Materialia, 2021, 206, 116632.	3.8	78
20	Precipitation behavior in a Nb-5W-2Mo-1Zr niobium alloy fabricated by electron beam selective melting. Materials Characterization, 2021, 174, 111019.	1.9	8
21	In situ study on the bending strain field of a Zr-based bulk metallic glass with notch. Materials Characterization, 2021, 174, 111001.	1.9	5
22	Etching Behaviors of Sapphire's C- Plane Cavity. Surface Science, 2021, 707, 121805.	0.8	4
23	Relative contributions of different substrates to soil N2O emission and their responses to N addition in a temperate forest. Science of the Total Environment, 2021, 767, 144126.	3.9	4
24	Hot deformation and dynamic recrystallization behavior of a powder metallurgy Tiâ€45Alâ€6Nbâ€0.3W alloy. Material Design and Processing Communications, 2021, 3, e224.	0.5	0
25	Surface microstructural design to improve mechanical and giant magneto-impedance properties of melt-extracted CoFe-based amorphous wires. Materials and Design, 2021, 204, 109642.	3.3	11
26	Determining deformation behaviors in a CuZr-based bulk metallic glass composite. Journal of Non-Crystalline Solids, 2021, 561, 120768.	1.5	5
27	Dislocation Etching Morphology on the A Plane of Sapphire Crystal. Crystal Research and Technology, 2021, 56, 2100022.	0.6	3
28	Thermal Expansion Behavior of Co-Spray Formed Al-20Si/7075 Bimetallic Gradient Alloy. Materials, 2021, 14, 4100.	1.3	3
29	Biocompatibility of a micro-arc oxidized ZrCuAlAg bulk metallic glass. Journal of Materials Research and Technology, 2021, 13, 486-497.	2.6	6
30	Enhanced ablation resistance of HfB2-HfC/SiBCN ceramics under an oxyacetylene torch environment. Corrosion Science, 2021, 187, 109509.	3.0	19
31	Engineering Microdomains of Oxides in Highâ€Entropy Alloy Electrodes toward Efficient Oxygen Evolution. Advanced Materials, 2021, 33, e2101845.	11.1	90
32	Hot Deformation Behavior of a Co-Spray-Formed Al-Si/7075 Bimetallic Gradient Alloy. Metals, 2021, 11, 1266.	1.0	0
33	Tunable Linear Dependence of Giant Magnetoimpedance Response of Microwires Annealed under Fluid Oil for Sensor Applications. Physica Status Solidi (A) Applications and Materials Science, 2021, 218, 2100154.	0.8	2
34	Preliminary study on deformation behaviors of spray droplet impacting on nonrigid deposited layer. Material Design and Processing Communications, 2021, 3, e263.	0.5	0
35	Elucidating the transition of cryogenic deformation mechanism of CrMnFeCoNi high entropy alloy. Journal of Alloys and Compounds, 2021, 872, 159606.	2.8	13
36	Structural evolution of a CuZr-based bulk metallic glass composite during cryogenic treatment observed by in-situ high-energy X-ray diffraction. Journal of Alloys and Compounds, 2021, 871, 159570.	2.8	13

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37	Design of Fe-containing GdTbCoAl high-entropy-metallic-glass composite microwires with tunable Curie temperatures and enhanced cooling efficiency. Materials and Design, 2021, 206, 109824.	3.3	24
38	Microstructure evolution and globularization mechanism of lamellar phases in Ti6.5Al2Zr1Mo1V produced by electron beam melting. Journal of Materials Research and Technology, 2021, 14, 1921-1933.	2.6	7
39	Creep behaviors of a Mgâ€“Li based alloy at elevated temperatures. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2021, 827, 142063.	2.6	5
40	Shear punching of a Co20Cr20Fe20Ni20Mn15Cu5 high entropy alloy. Journal of Alloys and Compounds, 2021, 887, 161415.	2.8	4
41	Diverse microstructure of Ti6.5Al2Zr1Mo1V fabricated via electron beam selective melting. Materials Letters, 2021, 304, 130597.	1.3	4
42	Stochastic deformation and shear transformation zones of the glassy matrix in CuZr-based metallic-glass composites. International Journal of Plasticity, 2020, 125, 52-62.	4.1	64
43	Hierarchical microstructure of a titanium alloy fabricated by electron beam selective melting. Journal of Materials Science and Technology, 2020, 42, 1-9.	5.6	12
44	Dataset on comparable magnetocaloric properties of melt-extracted Gd36Tb20Co20Al24 metallic glass microwires. Data in Brief, 2020, 28, 104960.	0.5	0
45	Cryogenic-temperature-induced phase transformation in a CuZr-based bulk metallic glass composite under tensile stress. Materials Letters, 2020, 262, 127065.	1.3	9
46	Long-term room-temperature aging treatment of a bulk metallic glass composite. Journal of Alloys and Compounds, 2020, 820, 153165.	2.8	5
47	Comparable magnetocaloric properties of melt-extracted Gd36Tb20Co20Al24 metallic glass microwires. Journal of Alloys and Compounds, 2020, 815, 150983.	2.8	14
48	Cavity etching evolution on the A-plane of sapphire crystal in molten KOH etchant. Journal of Crystal Growth, 2020, 552, 125926.	0.7	7
49	Tensile deformation mechanism of a bulk metallic glass matrix composite using in situ neutron diffraction. Journal of Non-Crystalline Solids, 2020, 546, 120267.	1.5	5
50	Influence of Fe-doping amounts on magnetocaloric properties of Gd-based amorphous microfibers. Journal of Alloys and Compounds, 2020, 845, 156190.	2.8	5
51	Magnetocaloric effect and microstructure of amorphous/nanocrystalline HoErFe melt-extracted microwires. Intermetallics, 2020, 127, 106974.	1.8	2
52	Shear transformation zone dependence of creep behaviors of amorphous phase in a CuZr-based bulk metallic glass composite. Science China Technological Sciences, 2020, 63, 1560-1565.	2.0	2
53	Magnetocaloric effect of melt-extracted high-entropy Gd19Tb19Er18Fe19Al25 amorphous microwires. Journal of Magnetism and Magnetic Materials, 2020, 507, 166856.	1.0	17
54	Cryogenic mechanical behaviors of CrMnFeCoNi high-entropy alloy. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2020, 789, 139579.	2.6	31

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55	New DyHoCo medium entropy amorphous microwires of large magnetic entropy change. Journal of Alloys and Compounds, 2020, 837, 155431.	2.8	12
56	Study on stochastic nature of plasticity of Cu/Zr metallic glass micropillars. Journal of Alloys and Compounds, 2020, 831, 154719.	2.8	7
57	Hot Deformation Behavior and Microstructural Evolution of PM Ti43Al9V0.3Y with Fine Equiaxed Î³ and B2 Grain Microstructure. Materials, 2020, 13, 896.	1.3	2
58	Hot deformation behavior of A390 alloy produced by semiâ€€continuous cast. Material Design and Processing Communications, 2020, 2, e148.	0.5	0
59	Microstructure Evolution and Mechanical Properties of PM-Ti43Al9V0.3Y Alloy. Materials, 2020, 13, 198.	1.3	9
60	Magnetocaloric effect in Niâ€“Feâ€“Mnâ€“Sn microwires with nano-sized Î³ precipitates. Applied Physics Letters, 2020, 116, .	1.5	8
61	In situ study of the shear band features of a CuZr-based bulk metallic glass composite. Intermetallics, 2019, 112, 106523.	1.8	19
62	Enhanced tensile plasticity of a CuZr-based bulk metallic glass composite induced by ion irradiation. Journal of Materials Science and Technology, 2019, 35, 2221-2226.	5.6	36
63	Nanoscratching and mechanical behaviors of high-entropy alloys with different phase constituents. Journal of Iron and Steel Research International, 2019, 26, 1240-1248.	1.4	4
64	Temperature-induced atomic structural evolution in a liquid Ga-based alloy. Vacuum, 2019, 170, 108966.	1.6	4
65	Oxidation and Ignition Behaviors of Molten Mg-Nd-Zr Alloy in Resin-Sand Mold. Journal of Materials Engineering and Performance, 2019, 28, 5344-5351.	1.2	2
66	The Application of Canned Deformation to a Hard-Deformed Spray-Deposited Al-Zn-Mg-Cu Alloy. Journal of Materials Engineering and Performance, 2019, 28, 3531-3538.	1.2	0
67	Microstructure and mechanical properties of Fe CoCrNiMn high-entropy alloys. Journal of Materials Science and Technology, 2019, 35, 2331-2335.	5.6	66
68	The Magnetocaloric Composite Designed by Multiâ€Gdâ€Alâ€Co Microwires with Close Performances. Physica Status Solidi (A) Applications and Materials Science, 2019, 216, 1900090.	0.8	8
69	Serration and shear avalanches in a ZrCu based bulk metallic glass composite in different loading methods. Journal of Materials Science and Technology, 2019, 35, 2079-2085.	5.6	21
70	Fine tuning the microstructure and mechanical properties of a Zr-based bulk metallic glass using electropulsing treatment. Journal of Alloys and Compounds, 2019, 789, 704-711.	2.8	6
71	Visualizing flow-unit-mediated deformation in a simple glass. Scripta Materialia, 2019, 165, 154-158.	2.6	0
72	Elucidating how correlated operation of shear transformation zones leads to shear localization and fracture in metallic glasses: Tensile tests on Cu Zr based metallic-glass microwires, molecular dynamics simulations, and modelling. International Journal of Plasticity, 2019, 119, 1-20.	4.1	42

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73	Quantitatively determining the martensitic transformation in a CuZr-based bulk metallic glass composite. Journal of Alloys and Compounds, 2019, 782, 961-966.	2.8	16
74	Atomic structure evolution of high entropy metallic glass microwires at cryogenic temperature. Scripta Materialia, 2019, 163, 29-33.	2.6	23
75	Low-modulus biomedical Tiâ€“30Nbâ€“5Taâ€“3Zr additively manufactured by Selective Laser Melting and its biocompatibility. Materials Science and Engineering C, 2019, 97, 275-284.	3.8	58
76	Atomization Characteristics of Droplet and Morphologies of Arc Sprayed Ni-Al Particles and Composition Coatings. Materials Research, 2019, 22, .	0.6	0
77	Understanding the structure-Poissonâ€™s ratio relation in bulk metallic glass. Journal of Materials Science, 2018, 53, 7891-7899.	1.7	10
78	Microstructure and crystallization mechanism of Ti-based bulk metallic glass by electron beam welding. Journal of Manufacturing Processes, 2018, 32, 93-99.	2.8	16
79	Dilatancy of Shear Transformations in a Colloidal Glass. Physical Review Applied, 2018, 9, .	1.5	20
80	A CuZr-based bulk metallic glass composite with excellent mechanical properties by optimizing microstructure. Journal of Non-Crystalline Solids, 2018, 483, 94-98.	1.5	54
81	Tunable Magnetocaloric Effect in Ni-Mn-Ga Microwires. Scientific Reports, 2018, 8, 16574.	1.6	22
82	Graded structure of laser direct manufacturing bulk metallic glass. Intermetallics, 2018, 103, 67-71.	1.8	25
83	316L Stainless Steel Manufactured by Selective Laser Melting and Its Biocompatibility with or without Hydroxyapatite Coating. Metals, 2018, 8, 548.	1.0	31
84	Dataset on the microstructure Ni50Mn38Sb9Si3 alloy and compositions of Ni50Mn38Sb12âˆ’Si (x=2.5, 3) ferromagnetic shape memory alloys. Data in Brief, 2018, 19, 222-225.	0.5	0
85	Laser additive manufacturing of structural-graded bulk metallic glass. Journal of Alloys and Compounds, 2018, 766, 506-510.	2.8	32
86	Tensile Creep Characterization and Prediction of Zr-Based Metallic Glass at High Temperatures. Metals, 2018, 8, 457.	1.0	7
87	In-mold oxidation behavior of Mgâ€“4.32Yâ€“2.83Ndâ€“0.41Zr alloy. Journal of Materials Science, 2018, 53, 11091-11103.	1.7	10
88	Table-like magnetocaloric behavior and enhanced cooling efficiency of a Bi-constituent Gd alloy wire-based composite. Journal of Alloys and Compounds, 2018, 764, 789-793.	2.8	20
89	Resistance spot welding of Ti40Zr25Ni3Cu12Be20 bulk metallic glass: experiments and finite element modeling. Rare Metals, 2017, 36, 123-128.	3.6	8
90	Effect of Double Oxide Film Defects on Mechanical Properties of As-Cast C95800 Alloy. Acta Metallurgica Sinica (English Letters), 2017, 30, 541-549.	1.5	12

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91	Enhanced Curie temperature and cooling efficiency in melt-extracted Gd50(Co69.25Fe4.25Si13B13.5)50 microwires. Journal of Alloys and Compounds, 2017, 708, 678-684.	2.8	13
92	MÃ¶ssbauer study of the ultrahigh glass-forming ability in FeCoCrMoCBY alloy system. Vacuum, 2017, 141, 173-175.	1.6	8
93	Plasticity improvement of a Zr-based bulk metallic glass by micro-arc oxidation. Journal of Iron and Steel Research International, 2017, 24, 416-420.	1.4	4
94	The effect of stress concentration on the bending behavior of a ZrCuNiAl bulk metallic glass. Journal of Non-Crystalline Solids, 2017, 469, 19-26.	1.5	7
95	Strain-field evolution in a CuZr-based bulk metallic glass composite during tensile deformation. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2017, 697, 233-237.	2.6	10
96	The study of preparation process of spray formed 7075/Alâ€“Si bimetallic gradient composite plate. Journal of Materials Research, 2017, 32, 3109-3116.	1.2	6
97	Evolved gas analysis of PEP-SET sand by TG and FTIR. Journal of Analytical and Applied Pyrolysis, 2017, 127, 490-495.	2.6	9
98	Bending behavior of as-cast and annealed ZrCuNiAl bulk metallic glass. Journal of Materials Science and Technology, 2017, 33, 1153-1158.	5.6	29
99	Magnetocaloric effect of Ni-Fe-Mn-Sn microwires prepared by melt-extraction technique. Materials and Design, 2017, 114, 1-9.	3.3	45
100	Cooling-rate induced softening in a colloidal glass. Scientific Reports, 2017, 7, 16882.	1.6	3
101	Tensile Strength Reliability Analysis of Cu48Zr48Al4 Amorphous Microwires. Metals, 2016, 6, 296.	1.0	9
102	Magnetostructural coupling and magnetocaloric effect in Ni-Mn-Ga-Cu microwires. Applied Physics Letters, 2016, 108, .	1.5	30
103	Microstructure and thermal conductivity of hypereutectic Al-high Si produced by casting and spray deposition. Journal of Materials Research, 2016, 31, 2948-2955.	1.2	12
104	Liquid-solid joining of bulk metallic glasses. Scientific Reports, 2016, 6, 30674.	1.6	6
105	Crystallization of a Ti-based Bulk Metallic Glass Induced by Electropulsing Treatment. Journal of Iron and Steel Research International, 2016, 23, 69-73.	1.4	4
106	Composite electroplating to enhance the GMI output stability of melt-extracted wires. Materials and Design, 2016, 96, 251-256.	3.3	10
107	High tensile plasticity and strength of a CuZr-based bulk metallic glass composite. Materials and Design, 2016, 90, 145-150.	3.3	59
108	Electrochemical and XPS studies of a Nb-containing Ti-based glass-forming alloy system in H 2 SO 4 solution. Electrochemistry Communications, 2015, 60, 139-143.	2.3	31

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109	Brazing of Ti2AlNb based alloy with amorphous Ti-Cu-Zr-Ni filler. Journal Wuhan University of Technology, Materials Science Edition, 2015, 30, 617-621.	0.4	10
110	Magnetocaloric effect and critical behavior in melt-extracted Gd₆₀Co₁₅Al₂₅microwires (Phys. Status Solidi A 9âˆ•2015). Physica Status Solidi (A) Applications and Materials Science, 2015, 212, n/a-n/a.	0.8	0
111	Magnetocaloric effect and critical behavior in melt-extracted Gd₆₀Co₁₅Al₂₅microwires. Physica Status Solidi (A) Applications and Materials Science, 2015, 212, 1905-1910.	0.8	12
112	Specific heat capacities of Feâ€“Coâ€“Crâ€“Moâ€“Câ€“Bâ€“Y bulk metallic glasses and their correlation with glass-forming ability. Materials Letters, 2015, 143, 191-193.	1.3	15
113	Martensite transformation and magnetic properties of Ni₅₀Mn₂₅Ga_{25â€“}_xFe_x ferromagnetic microwires for application in microdevices. Physica Status Solidi (A) Applications and Materials Science, 2015, 212, 855-861.	0.8	7
114	Influence of microstructure evolution on GMI properties and magnetic domains of melt-extracted Zr-doped amorphous wires with accumulated DC annealing. Journal of Alloys and Compounds, 2015, 644, 180-185.	2.8	21
115	Joining of Zr 51 Ti 5 Ni 10 Cu 25 Al 9 BMG to aluminum alloy by friction stir welding. Vacuum, 2015, 120, 47-49.	1.6	19
116	Structure and mechanical property modification of a Ti-based metallic glass by ion irradiation. Scripta Materialia, 2015, 103, 41-44.	2.6	37
117	In vitro and in vivo biocompatibility of an Ag-bearing Zr-based bulk metallic glass for potential medical use. Journal of Non-Crystalline Solids, 2015, 419, 82-91.	1.5	36
118	The Formation Mechanism of Porosity for Spray-deposited 7075 Alloy. Materials Research, 2015, 18, 89-94.	0.6	6
119	Combined current-modulation annealing induced enhancement of giant magnetoimpedance effect of Co-rich amorphous microwires. Journal of Applied Physics, 2014, 115, 17A326.	1.1	54
120	Optimization of mechanical and giant magnetoâ€impedance (GMI) properties of meltâ€extracted Coâ€rich amorphous microwires. Physica Status Solidi (A) Applications and Materials Science, 2014, 211, 1668-1673.	0.8	20
121	Shape memory effects of Ni_{49.7} Mn_{25.0} Ga_{19.8} Fe_{5.5} microwires prepared by rapid solidification. Physica Status Solidi (A) Applications and Materials Science, 2014, 211, 2532-2536.	0.8	7
122	Understanding the deformation mechanism of individual phases of a ZrTi-based bulk metallic glass matrix composite using in situ diffraction and imaging methods. Applied Physics Letters, 2014, 104, 031912.	1.5	18
123	Optimization of GMI properties by AC Joule annealing in meltâ€extracted Coâ€rich amorphous wires for sensor applications. Physica Status Solidi (A) Applications and Materials Science, 2014, 211, 1577-1582.	0.8	21
124	Comparison of mechanical behaviors of several bulk metallic glasses for biomedical application. Journal of Non-Crystalline Solids, 2014, 406, 144-150.	1.5	20
125	Effect of Co addition on the shear viscosity of Fe-based bulk metallic glasses. Journal of Non-Crystalline Solids, 2014, 403, 62-66.	1.5	17
126	Enhanced magnetocaloric properties of melt-extracted GdAlCo metallic glass microwires. Journal of Magnetism and Magnetic Materials, 2014, 372, 23-26.	1.0	32

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127	Enhanced magnetocaloric and mechanical properties of melt-extracted Gd55Al25Co20 micro-fibers. Journal of Alloys and Compounds, 2014, 603, 167-171.	2.8	41
128	The effect of cooling rate on the wear performance of a ZrCuAlAg bulk metallic glass. Materials & Design, 2014, 58, 284-289.	5.1	49
129	The onset of plasticity of a Zr-based bulk metallic glass. International Journal of Plasticity, 2014, 60, 87-100.	4.1	52
130	Effect of ion irradiation in an Al90Fe2Ce8 metallic glass. Materials & Design, 2014, 62, 133-136.	5.1	17
131	A new TiCuHfSi bulk metallic glass with potential for biomedical applications. Materials & Design, 2014, 54, 251-255.	5.1	39
132	Effect of grain size on the microstructure and mechanical properties of Mg-4Y-3Nd-0.5Zr alloy. International Journal of Materials Research, 2014, 105, 607-609.	0.1	5
133	The effects of annealing on the microstructure and the dynamic mechanical strength of a ZrCuNiAl bulk metallic glass. Intermetallics, 2013, 42, 192-197.	1.8	24
134	Shear punching of a Ti-based bulk metallic glass. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2013, 561, 220-225.	2.6	23
135	The local structure nature for a Ti-based bulk metallic glass. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2013, 178, 117-121.	1.7	0
136	Differences in crystallisation behaviours during cooling and post-heating processes of Ti based metallic powders. Powder Metallurgy, 2013, 56, 32-37.	0.9	0
137	Single crystal titanateâ€“zirconate nanoleaf: Synthesis, growth mechanism and enhanced photocatalytic hydrogen evolution properties. CrystEngComm, 2012, 14, 1874.	1.3	15
138	Close correlation between transport properties and glass-forming ability of an FeCoCrMoCBY alloy system. Intermetallics, 2012, 30, 144-147.	1.8	25
139	Bending behavior of TiZrNiCuBe bulk metallic glass. Journal of Alloys and Compounds, 2012, 541, 359-364.	2.8	10
140	Tridimensional morphology and kinetics of etch pit on the {0001} plane of sapphire crystal. Journal of Solid State Chemistry, 2012, 192, 60-67.	1.4	12
141	The temperature dependent dynamic mechanical response of a ZrCuNiAl bulk metallic glass. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2012, 551, 100-103.	2.6	17
142	Free volume and viscosity of Feâ€“Coâ€“Crâ€“Moâ€“Câ€“Bâ€“Y bulk metallic glasses and their correlation with glass-forming ability. Journal of Non-Crystalline Solids, 2012, 358, 1274-1277.	1.5	17
143	Ductile Ti-based metallic glass spheres. Scripta Materialia, 2012, 67, 661-664.	2.6	12
144	Synthesis of Feâ€“Crâ€“Moâ€“Câ€“B amorphous coating with high corrosion resistance. Materials Letters, 2012, 89, 229-232.	1.3	67

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145	Influence of the Crystalline Phase on Strain-Rate Sensitivity of a Zr-Cu-Ni-Al Bulk Metallic Glass at Room Temperature. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2012, 43, 5202-5208.	1.1	2
146	Process design for the shape control of crystals grown by Kyropoulos or SAPMAC method. Crystal Research and Technology, 2012, 47, 175-182.	0.6	6
147	Nanocrystallization enabled tensile ductility of Co-based amorphous microwires. Scripta Materialia, 2012, 66, 1041-1044.	2.6	28
148	Bonding Layer Microstructures and Mechanical Behavior of Sapphire/Sapphire Joints Diffusion-bonded using MgO-Al2O3-SiO2 Interlayer. International Journal of Applied Ceramic Technology, 2011, 8, 1183-1191.	1.1	7
149	First-principle calculations for electronic structure and bonding properties in layered Na2Ti3O7. Open Physics, 2011, 9, .	0.8	11
150	Improvement of giant magneto impedance of Co-rich melt extraction wires by stress-current annealing. Rare Metals, 2011, 30, 327-331.	3.6	6
151	Bulk amorphous Al85Ni10Ce5 composite fabricated by cold hydro-mechanical pressing of partially amorphous powders. Science Bulletin, 2011, 56, 3965-3971.	1.7	5
152	Fabrication and Characterization of Melt-Extracted Co-Based Amorphous Wires. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2011, 42, 1103-1108.	1.1	46
153	Haze in sapphire crystals grown by SAPMAC method. Crystal Research and Technology, 2011, 46, 669-675.	0.6	5
154	Theoretical analysis of the shape evolution of crystals grown by pulling. Crystal Research and Technology, 2011, 46, 1019-1026.	0.6	6
155	The electronic structure origin for ultrahigh glass-forming ability of the FeCoCrMoCBY alloy system. Journal of Applied Physics, 2011, 110, .	1.1	15
156	DIAMETER DEPENDENCE OF GIANT MAGNETO-IMPEDANCE EFFECT IN Co-BASED MELT EXTRACTED AMORPHOUS WIRES. , 2011, , .		0
157	Quantitative process design of 1-D crystallization for pure melt. Metals and Materials International, 2010, 16, 725-730.	1.8	1
158	Calculating activation energy of amorphous phase with the Lambert W function. Journal of Thermal Analysis and Calorimetry, 2010, 100, 3-10.	2.0	5
159	Indentation size effect of hardness of metallic glasses. Materials & Design, 2010, 31, 1563-1566.	5.1	43
160	Temperature influence on sintering with concurrent crystallization behavior in Ti-based metallic glassy powders. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2010, 527, 2662-2668.	2.6	20
161	Mechanical performance of metallic glasses during nanoscratch tests. Intermetallics, 2010, 18, 1056-1061.	1.8	47
162	Tuning the mechanical performance of a Ti-based bulk metallic glass by pre-deformation. Intermetallics, 2010, 18, 2044-2050.	1.8	38

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163	Cooling rate effect of nanomechanical response for a Ti-based bulk metallic glass. Journal of Non-Crystalline Solids, 2010, 356, 966-970.	1.5	8
164	High temperature deformation behaviors of Ti40Zr25Ni3Cu12Be20 bulk metallic glass. Journal of Alloys and Compounds, 2010, 504, S82-S85.	2.8	26
165	MECHANICAL PROPERTY OF A NEW Zr-BASED BULK METALLIC GLASS WITH CERTAIN PLASTICITY AT LOW TEMPERATURE. International Journal of Modern Physics B, 2009, 23, 1331-1336.	1.0	4
166	Zrâ€“Cuâ€“Niâ€“Al bulk metallic glasses with superhigh glass-forming ability. Acta Materialia, 2009, 57, 1290-1299.	3.8	118
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