Shu-Jie Pang

List of Publications by Year
in descending order

67 papers	1,987 citations	236925 25 h-index	254184 43 g-index
68 all docs	68 docs citations	68 times ranked	1297 citing authors

#	Article	IF	Citations
1	Design and properties of novel Tiâ€“Zrâ€“Hfâ€“Nbâ€“Ta high-entropy alloys for biomedical applications. Intermetallics, 2022, 141, 107421.	3.9	45
2	Effect of element Zr in Ti-Zrâ€“Ni-Nb system brazing filler alloys on the microstructure and strength of TiAl/TiAl joints. Welding in the World, Le Soudage Dans Le Monde, 2022, 66, 1437-1446.	2.5	2
3	Tiâ€“Zrâ€“Hfâ€“Nbâ€“Taâ€“Sn high-entropy alloys with good properties as potential biomaterials. Rare Metals, 2022, 41, 2305-2315.	7.1	9
4	Magnetic softening of the Fe83Si3B11P2Cu1 amorphous/nanocrystalline alloys with large-size pre-existing Î±-Fe grains by high heating-rate annealing. Journal of Materials Research and Technology, 2022, 20, 161-168.	5.8	8
5	Ti-Cu-Zr-Fe-Sn-Si-Ag-Pd Bulk Metallic Glasses with Potential for Biomedical Applications. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2021, 52, 1559-1567.	2.2	2
6	Al0.3CrxFeCoNi high-entropy alloys with high corrosion resistance and good mechanical properties. Journal of Alloys and Compounds, 2021, 860, 158436.	5.5	81
7	Nanocrystalline Fe83Si4B10P2Cu1 ribbons with improved soft magnetic properties and bendability prepared via rapid annealing of the amorphous precursor. Journal of Magnetism and Magnetic Materials, 2021, 523, 167583.	2.3	19
8	Formation and properties of biocompatible Ti-based bulk metallic glasses in the Tiâ€“Cuâ€“Zrâ€“Feâ€“Snâ€“Siâ€“Ag system. Journal of Non-Crystalline Solids, 2021, 571, 121060.	3.1	9
9	Tiâ€“Zrâ€“Cuâ€“Feâ€“Snâ€“Siâ€“Agâ€“Ta bulk metallic glasses with good corrosion resistance as potential biomaterials. Rare Metals, 2020, 39, 688-694.	7.1	14
10	Bio-corrosion behavior and in vitro biocompatibility of equimolar TiZrHfNbTa high-entropy alloy. Intermetallics, 2020, 124, 106845.	3.9	74
11	Recent Advances in Spectroscopy Technology for Trace Analysis of Persistent Organic Pollutants. Applied Sciences (Switzerland), 2019, 9, 3439.	2.5	7
12	Glass formation and properties of Ti-based bulk metallic glasses as potential biomaterials with Nb additions. Rare Metals, 2018, 37, 831-837.	7.1	15
13	Formation and properties of a Zr-based amorphous coating by laser cladding. Rare Metals, 2018, , 1.	7.1	3
14	Coherent Precipitation and Strengthening in Compositionally Complex Alloys: A Review. Entropy, 2018, 20, 878.	2.2	100
15	Effect of Ti substitution for Al on the cuboidal nanoprecipitates in Al_{0.7}NiCoFeCr₂ high-entropy alloys. Journal of Materials Research, 2018, 33, 3266-3275.	2.6	12
16	Tribological behaviors of a Ni-free Ti-based bulk metallic glass in air and a simulated physiological environment. Journal of Alloys and Compounds, 2018, 766, 1030-1036.	5.5	22
17	Surface vitrification of alloys by pulsed electrical discharge treatment. Journal of Alloys and Compounds, 2017, 707, 148-154.	5.5	7
18	Thermal stability, mechanical properties and corrosion behavior of a Mgâ€“Cuâ€“Agâ€“Gd metallic glass with Nd addition. Rare Metals, 2017, 36, 183-187.	7.1	9

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19	Enhanced Wear Resistance of Zr-Based Bulk Metallic Glass by Thermal Oxidation Treatment. Materials Transactions, 2017, 58, 520-523.	1.2	7
20	Corrosion fatigue behavior of a Mg-based bulk metallic glass in a simulated physiological environment. Intermetallics, 2016, 73, 31-39.	3.9	18
21	Formation and mechanical properties of Zr-Nb-Cu-Ni-Al-Lu bulk glassy alloys with superior glass-forming ability. Journal Wuhan University of Technology, Materials Science Edition, 2016, 31, 186-190.	1.0	2
22	Ti Cu Zr Fe Sn Si Sc bulk metallic glasses with good mechanical properties for biomedical applications. Journal of Alloys and Compounds, 2016, 679, 341-349.	5.5	29
23	In vitro responses of bone-forming MC3T3-E1 pre-osteoblasts to biodegradable Mg-based bulk metallic glasses. Materials Science and Engineering C, 2016, 68, 632-641.	7.3	21
24	General synthesis of sponge-like ultrafine nanoporous metals by dealloying in citric acid. Nano Research, 2016, 9, 2467-2477.	10.4	26
25	Formation and properties of Ti-based Tiâ€"Zrâ€"Cuâ€"Feâ€"Snâ€"Si bulk metallic glasses with different (TiÂ+ÂZr)/Cu ratios for biomedical application. Intermetallics, 2016, 72, 36-43.	3.9	32
26	In vitro investigation of Mgâ€"Znâ€"Caâ€"Ag bulk metallic glasses for biomedical applications. Journal of Non-Crystalline Solids, 2015, 427, 134-138.	3.1	32
27	Biodegradable Mgâ€"Znâ€"Caâ€"Sr bulk metallic glasses with enhanced corrosion performance for biomedical applications. Materials & Design, 2015, 67, 9-19.	5.1	137
28	New Ti-based Tiâ€"Cuâ€"Zrâ€"Feâ€"Snâ€"Siâ€"Ag bulk metallic glass for biomedical applications. Journal of Alloys and Compounds, 2015, 625, 323-327.	5.5	79
29	Correlation of glass-forming ability to thermal properties in Ti-based bulk metallic glasses. Journal of Alloys and Compounds, 2013, 546, 7-13.	5.5	7
30	Tiâ€"Cuâ€"Zrâ€"Feâ€"Nb ultrafine structure-dendrite composites with good mechanical properties and biocompatibility. Progress in Natural Science: Materials International, 2013, 23, 557-561.	4.4	1
31	High-zirconium bulk metallic glasses with high strength and large ductility. Science China: Physics, Mechanics and Astronomy, 2013, 56, 540-544.	5.1	12
32	Surface vitrification of alloys by laser surface treatment. Journal of Alloys and Compounds, 2012, 511, 215-220.	5.5	37
33	Niâ€free Zrâ€"Cuâ€"Alâ€"Nbâ€"Pd bulk metallic glasses with different Zr/Cu ratios for biomedical applications. Journal of Biomedical Materials Research - Part B Applied Biomaterials, 2012, 100B, 1472-1482.	3.4	30
34	Formation and biocorrosion behavior of Zr-Al-Co-Nb bulk metallic glasses. Science Bulletin, 2012, 57, 1723-1727.	1.7	11
35	Effects of crystallization on corrosion behaviours of a Ni-based bulk metallic glass. International Journal of Minerals, Metallurgy and Materials, 2012, 19, 146-150.	4.9	8
36	Optimization of mechanical properties of bulk metallic glasses by residual stress adjustment using laser surface melting. Scripta Materialia, 2012, 66, 1057-1060.	5.2	32

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37	Effect of microstructure on corrosion behaviours of a Ni-based metallic glass. Rare Metals, 2011, 30, 529-532.	7.1	5
38	Correlation between supercooled liquid region and crystallization behavior with alloy composition of La-Al-Cu metallic glasses. Science China: Physics, Mechanics and Astronomy, 2011, 54, 1608-1611.	5.1	2
39	Effect of Ni addition on the glass-forming ability and soft-magnetic properties of FeNiBPNb metallic glasses. Science Bulletin, 2011, 56, 3932-3936.	1.7	24
40	Centimeter-scale-diameter Co-based bulk metallic glasses with fracture strength exceeding 5000 MPa. Science Bulletin, 2011, 56, 3972-3977.	1.7	31
41	Influence of laser surface melting on glass formation and tribological behaviors of Zr₅₅Al₁₀Ni₅Cu₃₀ alloy. Journal of Materials Research, 2011, 26, 2642-2652.	2.6	13
42	Ni- and Cu-free Zrâ€"Alâ€"Coâ€"Ag bulk metallic glasses with superior glass-forming ability. Journal of Materials Research, 2011, 26, 539-546.	2.6	69
43	Ductile Fe-based amorphous alloys with high iron content. International Journal of Minerals, Metallurgy and Materials, 2010, 17, 199-203.	4.9	1
44	Effect of the cooling rate on plastic deformability of a Zr-based bulk metallic glass. Science China: Physics, Mechanics and Astronomy, 2010, 53, 415-418.	5.1	14
45	FORMATION OF ICOSAHEDRAL CLUSTERS IN AMORPHOUS Ni-Zr ALLOY. International Journal of Modern Physics B, 2010, 24, 2332-2337.	2.0	0
46	Formation of Tiâ€"Zrâ€"Cuâ€"Niâ€"Snâ€"Si bulk metallic glasses with good plasticity. Journal of Alloys and Compounds, 2010, 504, S10-S13.	5.5	15
47	COMPOSITION DESIGN AND GLASS-FORMING ABILITY OF Ti-BASED BULK METALLIC GLASSES. International Journal of Modern Physics B, 2010, 24, 2326-2331.	2.0	2
48	EFFECT OF COEXISTENCE OF SIMILAR ELEMENTS La AND Ce ON FORMATION OF (La-Ce)-Al-Cu BULK METALLIC GLASSES. International Journal of Modern Physics B, 2009, 23, 1235-1240.	2.0	5
49	Bio-corrosion study on zirconium-based bulk-metallic glasses. Intermetallics, 2009, 17, 195-199.	3.9	74
50	Effect of similar elements on improving glass-forming ability of Laâ€"Ce-based alloys. Journal of Alloys and Compounds, 2009, 483, 60-63.	5.5	59
51	Chill-zone aluminum alloys with GPa strength and good plasticity. Journal of Materials Research, 2009, 24, 1513-1521.	2.6	14
52	Precipitation of Icosahedral Phase in Zr-Ni-Nb-Cu-Al Metallic Glasses. Materials Transactions, 2009, 50, 1838-1842.	1.2	3
53	Ductile Fe-Based BMGs with High Glass Forming Ability and High Strength. Materials Transactions, 2008, 49, 231-234.	1.2	25
54	Ductile Fe-Based Bulk Metallic Glass with Good Soft-Magnetic Properties. Materials Transactions, 2007, 48, 1157-1160.	1.2	93

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55	The Influence of Similar Element Coexistence in (La-Ce)-Al-(Co-Cu) Bulk Metallic Glasses. Materials Transactions, 2007, 48, 1680-1683.	1.2	19
56	Influence of similar atom substitution on glass formation in (Laâ€"Ce)â€"Alâ€"Co bulk metallic glasses. Acta Materialia, 2007, 55, 3719-3726.	7.9	169
57	Effects of Yttrium and Erbium Additions on Glass-Forming Ability and Mechanical Properties of Bulk Glassy Zr–Al–Ni–Cu Alloys. Materials Transactions, 2006, 47, 450-453.	1.2	59
58	Formation and Mechanical Properties of Bulk Glassy (Cu_{0.55}Zr_{0.40}Al_{0.05})₉₉RE₁ (RE=Y, Pr,) Tj ET Qq0 0 0 rgBT /Ove	1.2	4
59	Formation and Thermal Stability of Cu_{46.25}Zr_{44.25}Al_{7.5}Er₂ Bulk Metallic Glass with a Diameter of 12 mm. Materials Transactions, 2006, 47, 2882-2884.	1.2	7
60	New Ti-Based Bulk Metallic Glasses with Significant Plasticity. Materials Transactions, 2005, 46, 2218-2220.	1.2	66
61	Ce-Rich Misch Metal-Based Bulk Metallic Glasses with High Glass-Forming Ability. Materials Transactions, 2005, 46, 2291-2294.	1.2	7
62	Effect of Minor Au Addition on Glass-Forming Ability and Mechanical Properties of Pd–Cu–Au–Si–P Alloys. Materials Transactions, 2005, 46, 2945-2948.	1.2	11
63	Glass-Forming Ability and Mechanical Properties of Sm-Doped Fe–Cr–Mo–C–B Glassy Alloys. Materials Transactions, 2005, 46, 2949-2953.	1.2	14
64	Bulk glassy Ni(Coâ€")Nbâ€"Tiâ€"Zr alloys with high corrosion resistance and high strength. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2004, 375-377, 368-371.	5.6	50
65	Formation, corrosion behavior, and mechanical properties of bulk glassy Zrâ€"Alâ€"Coâ€"Nb alloys. Journal of Materials Research, 2003, 18, 1652-1658.	2.6	53
66	Formation of Bulk Glassy Ni-(Co-)Nb-Ti-Zr Alloys with High Corrosion Resistance. Materials Transactions, 2002, 43, 1771-1773.	1.2	38
67	Corrosion Behavior of Zr–(Nb–)Al–Ni–Cu Glassy Alloys. Materials Transactions, JIM, 2000, 41, 1490-1494.	0.9	80