

CITATION REPORT

List of articles citing

Dynamic evolution of nanoscale shear bands in a bulk-metallic glass

DOI: 10.1063/1.1891302

Applied Physics Letters, 2005, 86, 141904.

Source: <https://exaly.com/paper-pdf/39456388/citation-report.pdf>

Version: 2024-04-28

This report has been generated based on the citations recorded by exaly.com for the above article. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

#	Paper	IF	Citations
164	Modeling the dynamic propagation of shear bands in bulk metallic glasses. <i>Scripta Materialia</i> , 2005 , 53, 881-885	5.6	8
163	Atomistic simulation of shear localization in Cu ₅₇ Zr bulk metallic glass. <i>Intermetallics</i> , 2006 , 14, 1033-1037	3.5	110
162	Fatigue and fracture behavior of (Zr ₅₈ Ni _{13.6} Cu ₁₈ Al _{10.4}) ₉₉ Nb ₁ bulk-amorphous alloy. <i>Intermetallics</i> , 2006 , 14, 1043-1050	3.5	29
161	Shear-Band Deformation in Amorphous Alloys and Composites. 2006 , 47, 817-821		11
160	Temperature rise at shear bands in metallic glasses. 2006 , 5, 15-18		736
159	Yield point of metallic glass. <i>Acta Materialia</i> , 2006 , 54, 4293-4298	8.4	200
158	Mode II fracture behavior of a Zr-based bulk metallic glass. <i>Journal of the Mechanics and Physics of Solids</i> , 2006 , 54, 2418-2435	5	59
157	Effects of frequency on fatigue behavior of type 316 low-carbon, nitrogen-added stainless steel in air and mercury for the spallation neutron source. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2006 , 37, 163-173	2.3	11
156	On the origin of nanocrystals in the shear band in a quasicrystal forming bulk metallic glass Ti ₄₀ Zr ₂₉ Cu ₉ Ni ₈ Be ₁₄ . <i>Scripta Materialia</i> , 2006 , 55, 509-512	5.6	19
155	Ductility of a Zr-based bulk-metallic glass with different specimen geometries. 2006 , 60, 3537-3540		60
154	Compressive Behavior of a Zr-Based Metallic Glass at Cryogenic Temperatures. 2006 , 18, 752-754		122
153	Unified equation for the strength of bulk metallic glasses. <i>Applied Physics Letters</i> , 2006 , 88, 221911	3.4	171
152	A 200nm thick glass-forming metallic film for fatigue-property enhancements. <i>Applied Physics Letters</i> , 2006 , 88, 131902	3.4	55
151	Evolution of nanoscale morphology on fracture surface of brittle metallic glass. <i>Applied Physics Letters</i> , 2006 , 89, 121909	3.4	63
150	Negative strain rate sensitivity in bulk metallic glass and its similarities with the dynamic strain aging effect during deformation. <i>Applied Physics Letters</i> , 2006 , 89, 091918	3.4	68
149	Structural evolution in TiCu-based bulk metallic glass with large compressive plasticity. <i>Applied Physics Letters</i> , 2006 , 89, 251909	3.4	29
148	Effect of temperature on mechanical behavior of Zr-based bulk metallic glasses. <i>Applied Physics Letters</i> , 2006 , 89, 041921	3.4	36

147	Rate dependence of shear banding and serrated flows in a bulk metallic glass. <i>Journal of Materials Research</i> , 2006 , 21, 2164-2167	2.5	54
146	Shear strain in a shear band of a bulk-metallic glass in compression. <i>Applied Physics Letters</i> , 2007 , 90, 181903	3.4	44
145	In situ thermographic observations on the compression behavior of a relaxed Zr-based bulk-metallic glass. <i>Journal of Materials Research</i> , 2007 , 22, 368-373	2.5	6
144	Enhance plasticity of bulk metallic glasses by geometric confinement. <i>Journal of Materials Research</i> , 2007 , 22, 2384-2388	2.5	37
143	Relations between the Thermal and Mechanical Properties of Cast Zr-TM-Al (TM: Cu, Ni, or Co) Bulk Glassy Alloys. 2007 , 48, 1846-1849		16
142	Theory of Shear Banding in Metallic Glasses and Molecular Dynamics Calculations. 2007 , 48, 2923-2927		681
141	Temperature, Strain and Strain Rate Dependence of Serrated Flow in Bulk Metallic Glasses. 2007 , 48, 1774-1780		22
140	Cu ₄₅ Zr ₄₅ Al ₅ Ag ₅ Bulk Glassy Alloy with Enhanced Compressive Strength and Plasticity at Cryogenic Temperature. 2007 , 48, 2787-2790		20
139	Oxidation Behavior of Ca-Based Bulk Amorphous Materials. 2007 , 48, 1870-1878		11
138	Volume change in Zr ₅₀ Cu ₄₀ Al ₁₀ glassy alloys. <i>Journal of Alloys and Compounds</i> , 2007 , 434-435, 160-163	5.7	5
137	Nanoscale periodic morphologies on the fracture surface of brittle metallic glasses. 2007 , 98, 235501		139
136	Local temperature rises during mechanical testing of metallic glasses. <i>Journal of Materials Research</i> , 2007 , 22, 419-427	2.5	81
135	Initiation of shear bands near a stress concentration in metallic glass. <i>Acta Materialia</i> , 2007 , 55, 5348-5358	5.4	202
134	TiO ₂ nanoparticle trails in garnet: implications of inclusion pressure-induced microcracks and spontaneous metamorphic-reaction healing during exhumation. 2007 , 25, 451-460		11
133	Fracture of a Commercial Zr _{41.2} Ti _{13.8} Cu _{12.5} Ni _{10.0} Be _{22.5} Bulk-Metallic Glass. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2007 , 38, 2001-2005	2.3	5
132	Shear Band Patterns in Metallic Glasses under Static Indentation, Dynamic Indentation, and Scratch Processes. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2007 , 38, 2936-2942	2.3	16
131	Spatiotemporally inhomogeneous plastic flow of a bulk-metallic glass. <i>International Journal of Plasticity</i> , 2008 , 24, 1-16	7.6	91
130	Rate-Dependent Temperature Increases in Shear Bands of a Bulk-Metallic Glass. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2008 , 39, 1822-1830	2.3	25

129	Evolution of shear bands in bulk metallic glasses under dynamic loading. <i>Journal of the Mechanics and Physics of Solids</i> , 2008 , 56, 2171-2187	5	36
128	An electron microscopy appraisal of tensile fracture in metallic glasses. <i>Acta Materialia</i> , 2008 , 56, 1762-1873	7.3	94
127	Shear striations and deformation kinetics in highly deformed Zr-based bulk metallic glasses. <i>Acta Materialia</i> , 2008 , 56, 4635-4646	8.4	93
126	Instability of crack propagation in brittle bulk metallic glass. <i>Acta Materialia</i> , 2008 , 56, 5845-5860	8.4	54
125	Basic mechanical behaviors and mechanics of shear banding in BMGs. <i>International Journal of Impact Engineering</i> , 2008 , 35, 704-716	4	73
124	Deformation macrolocalisation and fracture in ultrafine-grained armco iron. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2008 , 486, 267-272	5.3	16
123	Fatigue behavior of Zr-based bulk-metallic glasses. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2008 , 494, 314-323	5.3	41
122	Glass forming ability and reliability in fracture stress for Mg ₇₀ Cu ₁₀ Ni ₁₀ bulk metallic glasses. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2008 , 491, 420-424	5.3	25
121	Compressive fracture characteristics of Ni ₄₂ Cu ₅ Ti ₁₉ Zr _{22.5} Al ₈ Si _{3.5} bulk metallic glass. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2008 , 497, 378-382	5.3	7
120	Temperature effects on mechanical properties, deformation behavior and formability of Zr ₅₀ Ti ₂₀ Cu ₁₀ Ni ₁₀ Be ₁₀ B bulk metallic glass composite. 2008 , 14, 297-306		12
119	The critical length of shear bands in metallic glass. <i>Scripta Materialia</i> , 2008 , 59, 107-110	5.6	25
118	Mechanical Behavior of Metallic Glasses: Microscopic Understanding of Strength and Ductility. 2008 , 38, 445-469		468
117	Microstructure and stored energy evolutions during rolling of Cu ₆₀ Zr ₂₀ Ti ₂₀ bulk metallic glass. <i>Journal of Non-Crystalline Solids</i> , 2008 , 354, 5353-5362	3.9	8
116	On the deformation and fracture behaviour of a Zr-based glassy alloy. 2008 , 88, 2979-2987		20
115	Temperature increases caused by shear banding in as-cast and relaxed Zr-based bulk metallic glasses under compression. <i>Journal of Materials Research</i> , 2008 , 23, 2967-2974	2.5	7
114	Inhomogeneous deformation in metallic glasses. 2008 , 24, 379-391		13
113	Plasticity of bulk metallic glasses improved by controlling the solidification condition. <i>Journal of Materials Research</i> , 2008 , 23, 941-948	2.5	42
112	Ductile to brittle transition in dynamic fracture of brittle bulk metallic glass. <i>Journal of Applied Physics</i> , 2008 , 103, 093520	2.5	18

111	Nanocrystallization induced by quasi-static fracture of metallic glasses at room temperature. <i>Philosophical Magazine Letters</i> , 2008 , 88, 837-843	1	4
110	MECHANICAL PROPERTIES OF BULK METALLIC GLASSES AT CRYOGENIC TEMPERATURES. 2009 , 23, 2703-2722		8
109	Initiation and evolution of shear bands in bulk metallic glass under tension. An in situ scanning electron microscopy observation. <i>Journal of Materials Research</i> , 2009 , 24, 2924-2930	2.5	1
108	Synergistic effect of crystalline metal on the plasticity of bulk metallic glasses under uniaxial synchro-compression. <i>Journal of Materials Research</i> , 2009 , 24, 3099-3107	2.5	3
107	Cooperative shear and catastrophic fracture of bulk metallic glasses from a shear-band instability perspective. <i>Journal of Materials Research</i> , 2009 , 24, 3620-3627	2.5	20
106	Complexity of shear localization in a Zr-based bulk metallic glass. <i>Scripta Materialia</i> , 2009 , 61, 1145-1148	5.6	22
105	Advances in transmission electron microscopy: in situ straining and in situ compression experiments on metallic glasses. 2009 , 72, 250-60		32
104	Effect of crystalline phases on deformation and warm formability of a bulk metallic glass composite within supercooled liquid region. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2009 , 526, 62-68	5.3	4
103	MgCuAgEr bulk metallic glasses with high glass forming ability and compressive strength. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2009 , 502, 148-152	5.3	20
102	On the origin of shear banding instability in metallic glasses. <i>Journal of the Mechanics and Physics of Solids</i> , 2009 , 57, 1267-1292	5	160
101	Structural processes that initiate shear localization in metallic glass. <i>Acta Materialia</i> , 2009 , 57, 5146-5155	8.4	304
100	Estimation of shear-banding resistance in metallic glass containing nano-crystalline particles. <i>Journal of Non-Crystalline Solids</i> , 2009 , 355, 29-32	3.9	7
99	Cryogenic temperature plasticity of a bulk amorphous alloy. <i>Acta Materialia</i> , 2010 , 58, 5295-5304	8.4	43
98	Jerky-flow characteristics for a Zr-based bulk metallic glass. <i>Scripta Materialia</i> , 2010 , 63, 1081-1084	5.6	23
97	Structural rejuvenation in a bulk metallic glass induced by severe plastic deformation. <i>Acta Materialia</i> , 2010 , 58, 429-438	8.4	132
96	Effect of pre-existing shear bands on the tensile mechanical properties of a bulk metallic glass. <i>Acta Materialia</i> , 2010 , 58, 1276-1292	8.4	103
95	Quasi-static and dynamic deformation behaviors of in situ Zr-based bulk-metallic-glass-matrix composites. <i>Journal of Materials Research</i> , 2010 , 25, 2264-2270	2.5	24
94	Fatigue initiation and propagation behavior in bulk-metallic glasses under a bending load. <i>Journal of Applied Physics</i> , 2010 , 108, 113512	2.5	24

93	COMPUTATIONAL STUDY OF TENSILE DEFORMATION OF A CONSTRAINED NANOSCALE METALLIC GLASS. 2010 , 24, 305-310		2
92	Evolution of shear bands and its correlation with mechanical response of a ductile Zr55Pd10Cu20Ni5Al10 bulk metallic glass. <i>Intermetallics</i> , 2010 , 18, 1455-1464	3.5	39
91	Deformation behavior and formability of a Ti ₄₀ Zr ₄₀ Ni ₁₀ Be bulk metallic glass within supercooled liquid region. <i>Intermetallics</i> , 2010 , 18, 1537-1543	3.5	26
90	Serrated flow kinetics in a Zr-based bulk metallic glass. <i>Intermetallics</i> , 2010 , 18, 2057-2064	3.5	64
89	Comparative analysis of inhomogeneous plastic flow in bulk and ribbon metallic glasses monitored by acoustic emission. <i>Journal of Alloys and Compounds</i> , 2010 , 504, S60-S64	5.7	4
88	Effects of pores on shear bands in metallic glasses: A molecular dynamics study. 2010 , 50, 211-217		35
87	Dynamic response of Cu ₄₆ Zr ₅₄ metallic glass to high-strain-rate shock loading: Plasticity, spall, and atomic-level structures. <i>Physical Review B</i> , 2010 , 81,	3.3	63
86	Temperature-dependent shear band dynamics in a Zr-based bulk metallic glass. <i>Applied Physics Letters</i> , 2010 , 96, 061901	3.4	63
85	Assessing the shear band velocity in metallic glasses using a coupled thermo-mechanical model. <i>Philosophical Magazine Letters</i> , 2011 , 91, 705-712	1	12
84	Dual character of stable shear banding in bulk metallic glasses. <i>Intermetallics</i> , 2011 , 19, 1005-1013	3.5	9
83	Effect of shear bands initiated in the pre-yield region on the deformation behaviour of Zr-based metallic glasses. <i>Scripta Materialia</i> , 2011 , 64, 713-716	5.6	12
82	Local heating in shear banding of bulk metallic glasses. <i>Scripta Materialia</i> , 2011 , 65, 493-496	5.6	17
81	Probing shear-band initiation in metallic glasses. 2011 , 107, 185502		121
80	Quasi phase transition model of shear bands in metallic glasses. <i>Acta Materialia</i> , 2011 , 59, 7416-7424	8.4	32
79	Spark plasma sintering of amorphous-crystalline laminated composites. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2011 , 528, 1901-1905	5.3	14
78	Deformation and Fracture Behavior of Metallic Glassy Alloys and Glassy-Crystal Composites. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2011 , 42, 1504-1510 ^{2,3}		18
77	Propagation dynamics of individual shear bands during inhomogeneous flow in a Zr-based bulk metallic glass. <i>Acta Materialia</i> , 2011 , 59, 3205-3213	8.4	157
76	Shear-band toughness of bulk metallic glasses. <i>Acta Materialia</i> , 2011 , 59, 4525-4537	8.4	46

75	Plasticity in small-sized metallic systems: Intrinsic versus extrinsic size effect. <i>Progress in Materials Science</i> , 2011 , 56, 654-724	42.2	1272
74	Compression-compression fatigue study on model metallic glass nanowires by molecular dynamics simulations. <i>Journal of Applied Physics</i> , 2011 , 110, 023523	2.5	20
73	Stick-slip dynamics and recent insights into shear banding in metallic glasses. <i>Journal of Materials Research</i> , 2011 , 26, 1453-1463	2.5	95
72	Metallic Glasses. 2012 ,		1
71	Thermographic studies of temperature evolutions in bulk metallic glasses: An overview. <i>Intermetallics</i> , 2012 , 30, 1-11	3.5	16
70	Ductility enhancement of a Ti-based bulk metallic glass through annealing treatment below the glass transition temperature. <i>Intermetallics</i> , 2012 , 20, 47-54	3.5	15
69	Constitutive model for high temperature deformation behavior of TiZrNiBe bulk metallic glass in supercooled liquid region. 2012 , 61, 213-223		7
68	Mesostructural effects on the mechanical properties of Zr-based bulk metallic glasses. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2012 , 555, 57-62	5.3	5
67	Shear Banding in Bulk Metallic Glasses. 2012 , 311-361		4
66	In situ Transmission Electron Microscopy on Metals. 2012 , 1099-1151		1
65	The Effects of Fatigue on the Atomic Structure with Cyclic Loading in Zr ₅₀ Cu ₄₀ Al ₁₀ and Zr ₆₀ Cu ₃₀ Al ₁₀ Glasses. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2012 , 43, 2676-2679	2.3	4
64	Characterization of shear bands/cracks induced by fatigue experiment in a ZrCuAl bulk metallic glass. <i>Scripta Materialia</i> , 2012 , 66, 443-446	5.6	7
63	Enhancing the plasticity of metallic glasses: Shear band formation, nanocomposites and nanoglasses investigated by molecular dynamics simulations. <i>Mechanics of Materials</i> , 2013 , 67, 94-103	3.3	132
62	Heterogeneously randomized STZ model of metallic glasses: Softening and extreme value statistics during deformation. <i>International Journal of Plasticity</i> , 2013 , 40, 1-22	7.6	65
61	La-based bulk metallic glass failure analysis under static and dynamic loading. <i>International Journal of Impact Engineering</i> , 2013 , 60, 37-43	4	16
60	Strain rate dependent shear banding behavior of a Zr-based bulk metallic glass composite. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2013 , 576, 134-139	5.3	37
59	Transition of nano-scale to micro-scale on fracture surface of Zr ₆₅ Cu _{17.5} Ni ₁₀ Al _{7.5} bulk metallic glass. <i>Engineering Fracture Mechanics</i> , 2013 , 105, 101-109	4.2	2
58	Strength softening at shear bands in metallic glasses. <i>Philosophical Magazine Letters</i> , 2013 , 93, 221-230	1	7

57	Shear bands in metallic glasses. <i>Materials Science and Engineering Reports</i> , 2013 , 74, 71-132	30.9	1018
56	Collective evolution dynamics of multiple shear bands in bulk metallic glasses. <i>International Journal of Plasticity</i> , 2013 , 50, 18-36	7.6	56
55	Temperature dependent dynamics transition of intermittent plastic flow in a metallic glass. II. Dynamics analysis. <i>Journal of Applied Physics</i> , 2013 , 114, 033521	2.5	16
54	Mechanical Properties and Deformation Behavior of Bulk Metallic Glasses. <i>Metals</i> , 2013 , 3, 1-22	2.3	45
53	Plastic deformation studies of Zr-based bulk metallic glassy samples with a low aspect ratio. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2014 , 616, 288-296	5.3	22
52	Tensile Mechanical Behaviors of In Situ Metallic Glass Matrix Composites at Ambient Temperature and in Supercooled Liquid Region. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2014 , 45, 2382-2388	2.3	5
51	Nanostructured solids [From nano-glasses to quantum transistors. <i>Nano Today</i> , 2014 , 9, 17-68	17.9	91
50	Effects of microscopic boundary conditions on the deformation behavior of small-volume metallic glasses. <i>International Journal of Solids and Structures</i> , 2014 , 51, 4580-4595	3.1	12
49	Thin-film metallic glasses for substrate fatigue-property improvements. <i>Thin Solid Films</i> , 2014 , 561, 2-27	2.2	69
48	Production and properties of high strength Ni free Zr-based BMGs. <i>IOP Conference Series: Materials Science and Engineering</i> , 2014 , 60, 012003	0.4	1
47	The local stress state of a running shear band in amorphous solids. <i>Journal of Materials Research</i> , 2015 , 30, 1979-1987	2.5	5
46	Femtosecond laser ablation of Cu _x Zr _{1-x} bulk metallic glasses: A molecular dynamics study. <i>Physical Review B</i> , 2015 , 92,	3.3	13
45	Strain Localization and Shear Band Propagation in Ductile Materials. <i>Frontiers in Materials</i> , 2015 , 2,	4	14
44	Temperature dependent dynamic flow behavior of an in-situ Ti-based bulk metallic glass composite. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2015 , 627, 21-26	5.3	5
43	Atomic structure of shear bands in Cu ₆₄ Zr ₃₆ metallic glasses studied by molecular dynamics simulations. <i>Acta Materialia</i> , 2015 , 95, 236-243	8.4	77
42	On the compressive failure of tungsten fiber reinforced Zr-based bulk metallic glass composite. <i>International Journal of Solids and Structures</i> , 2015 , 69-70, 428-441	3.1	18
41	Plasticity enhancement in Ni ²⁺ amorphous alloy/Ni/Zr-based metallic glass composites with a sandwich structure. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2015 , 643, 175-182	5.3	9
40	Laser Shock Peening on Zr-based Bulk Metallic Glass and Its Effect on Plasticity: Experiment and Modeling. <i>Scientific Reports</i> , 2015 , 5, 10789	4.9	46

39	Strain-rate-dependent deformation behavior in a Ti-based bulk metallic glass composite upon dynamic deformation. <i>Journal of Alloys and Compounds</i> , 2015 , 639, 131-138	5.7	27
38	Non-localized deformation in Cu Zr multi-layer amorphous films under tension. <i>Journal of Alloys and Compounds</i> , 2016 , 678, 410-420	5.7	29
37	Interdiffusion cross crystal-amorphous interface: An atomistic simulation. <i>Acta Materialia</i> , 2016 , 112, 378-389	8.4	16
36	Quasi-static and dynamic deformation of an in-situ Ti-based metallic glass composite in supercooled liquid region. <i>Journal of Alloys and Compounds</i> , 2016 , 679, 239-246	5.7	9
35	Phase-field slip-line theory of plasticity. <i>Journal of the Mechanics and Physics of Solids</i> , 2016 , 94, 257-272	5	27
34	Strain-energy transport during fracture of metallic glasses. <i>Journal of Alloys and Compounds</i> , 2016 , 680, 43-53	5.7	15
33	Self-organized Criticality Behavior in Bulk Metallic Glasses. <i>Journal of Iron and Steel Research International</i> , 2016 , 23, 7-13	1.2	15
32	Tensile deformation mechanisms of an in-situ Ti-based metallic glass matrix composite at cryogenic temperature. <i>Scientific Reports</i> , 2016 , 6, 32287	4.9	17
31	Mechanical Properties of Amorphous Metallic Alloys and Their Relation to the Viscosity Characteristic Parameters. 2016 , 207-215		
30	Shear avalanches in plastic deformation of a metallic glass composite. <i>International Journal of Plasticity</i> , 2016 , 77, 141-155	7.6	50
29	The ductility and toughness improvement in metallic glass through the dual effects of graphene interface. <i>Journal of Materials Research</i> , 2017 , 32, 392-403	2.5	9
28	Micro-patterning by thermoplastic forming of Ni-free Ti-based bulk metallic glasses. <i>Materials and Design</i> , 2017 , 120, 204-211	8.1	17
27	Seeing the unseen: uncover the bulk heterogeneous deformation processes in metallic glasses through surface temperature decoding. <i>Materials Today</i> , 2017 , 20, 9-15	21.8	4
26	Anomalous shear band characteristics and extra-deep shock-affected zone in Zr-based bulk metallic glass treated with nanosecond laser peening. <i>Scientific Reports</i> , 2017 , 7, 43948	4.9	6
25	Mutual interaction of shear bands in metallic glasses. <i>Intermetallics</i> , 2017 , 85, 48-53	3.5	18
24	Nanoindentation in Metallic Glasses. 2017 , 287-311		
23	Tuning plasticity of in-situ dendrite metallic glass composites via the dendrite-volume-fraction-dependent shear banding. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2017 , 680, 121-129	5.3	14
22	Temperature rise in shear bands in a simulated metallic glass. <i>Physical Review B</i> , 2018 , 98,	3.3	5

21	Constitutive Modeling in Metallic Glasses for Predictions and Designs. 2018 , 1-27		
20	Fatigue and fracture behavior of bulk metallic glasses and their composites. <i>Progress in Materials Science</i> , 2018 , 98, 168-248	42.2	52
19	Investigation on Explosive Welding of Zr53Cu35Al12 Bulk Metallic Glass with Crystalline Copper. <i>Journal of Materials Engineering and Performance</i> , 2018 , 27, 2932-2937	1.6	9
18	Rejuvenation, embryonic shear bands and improved tensile plasticity of metallic glasses by nanosecond laser shock wave. <i>Journal of Non-Crystalline Solids</i> , 2019 , 513, 76-83	3.9	13
17	Dynamic localized shear failure influenced by changing rates in brittle solids containing initial microcracks. <i>International Journal of Impact Engineering</i> , 2020 , 135, 103408	4	0
16	Coordinate transformation methodology for simulating quasistatic elastoplastic solids. <i>Physical Review E</i> , 2020 , 101, 053304	2.4	1
15	Parallel three-dimensional simulations of quasi-static elastoplastic solids. <i>Computer Physics Communications</i> , 2020 , 257, 107254	4.2	5
14	Plastic deformation and yield strength of metals. 2021 , 235-312		
13	Tuning of mechanical properties of Tantalum-based metallic glasses. <i>International Journal of Mechanical Sciences</i> , 2021 , 204, 106546	5.5	6
12	Critical growth and energy barriers of atomic-scale plastic flow units in metallic glasses. <i>Scripta Materialia</i> , 2021 , 202, 114033	5.6	0
11	Evaluation Of Glass-Forming Ability. 2008 , 87-115		5
10	An atomic-level perspective of shear band formation and interaction in monolithic metallic glasses. <i>Applied Materials Today</i> , 2020 , 21, 100828	6.6	7
9	The mechanism of shear-band blocking in monolithic metallic glasses. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2017 , 703, 162-166	5.3	5
8	Fatigue of Metallic Glasses. <i>Applied Mechanics Reviews</i> , 2020 , 72,	8.6	9
7	Rapid Solidification and Bulk Metallic Glasses [Processing and Properties. 2007 , 17-1-17-44		
6	Influence of Stress-strain on the Microstructural Change in the Metallic Glass and Metallic Glass Matrix Composite. <i>Applied Microscopy</i> , 2015 , 45, 44-51	1.1	0
5	Constitutive Modeling in Metallic Glasses for Predictions and Designs. 2020 , 2021-2047		
4	Shear Banding in Binary Cu-Zr Metallic Glass: Comparison of the G-Phase With L-Phase. <i>Frontiers in Materials</i> , 2022 , 9,	4	

- 3 The formation and propagation mechanism of shear band in bulk metallic glasses under dynamic compression. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2022**, 143165 5.3 ○
- 2 Failure behavior and criteria of metallic glasses. *Acta Mechanica Sinica/Lixue Xuebao*, **2022**, 38, 2 ○
- 1 Hidden shear bands of diversified structures in a bent heterogeneous metallic glass. **2023**, 869, 144726 ○