

The elastic properties, elastic models and elastic perspe

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Citation Report

#	ARTICLE	IF	CITATIONS
1	Dynamic mechanical analysis in La-based bulk metallic glasses: Secondary ($\hat{\Gamma}^2$) and main ($\hat{\Gamma}^{\pm}$) relaxations. Journal of Applied Physics, 2012, 112, .	1.1	38
2	Signature of viscous flow units in apparent elastic regime of metallic glasses. Applied Physics Letters, 2012, 101, .	1.5	134
3	Stable fracture of a malleable Zr-based bulk metallic glass. Journal of Applied Physics, 2012, 112, .	1.1	33
4	A "universal" criterion for metallic glass formation. Applied Physics Letters, 2012, 100, 261913.	1.5	43
5	Properties inheritance in metallic glasses. Journal of Applied Physics, 2012, 111, .	1.1	33
6	Family traits. Nature Materials, 2012, 11, 275-276.	13.3	90
7	The instantaneous shear modulus in the shoving model. Journal of Chemical Physics, 2012, 136, 224108.	1.2	64
8	Long-range n-body potential and applied to atomistic modeling the formation of ternary metallic glasses. Intermetallics, 2012, 31, 292-320.	1.8	18
9	Relating residual stress and microstructure to mechanical and giant magneto-impedance properties in cold-drawn Co-based amorphous microwires. Acta Materialia, 2012, 60, 5425-5436.	3.8	77
10	Saffman "Taylor fingering in nanosecond pulse laser ablating bulk metallic glass in water. Intermetallics, 2012, 31, 325-329.	1.8	25
11	Synthesis of Al/SiC nanocomposite and evaluation of its mechanical properties using pulse echo overlap method. Journal of Alloys and Compounds, 2012, 542, 51-58.	2.8	45
12	Large size metallic glass gratings by embossing. Journal of Applied Physics, 2012, 112, .	1.1	17
13	Ultrasonication as a Method of Investigation of the Mechanical Properties of Doped Hafnium Barium Titanate. Ferroelectrics, 2012, 436, 87-95.	0.3	14
14	Mechanical relaxation in a Zr-based bulk metallic glass: Analysis based on physical models. Journal of Applied Physics, 2012, 112, .	1.1	45
15	Stress relaxation in metallic glasses of the system Pd " Cu " Ni " P prepared from melts with different glass-forming capacity. Metal Science and Heat Treatment, 2012, 54, 224-228.	0.2	0
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18	Mechanical and corrosion behaviour of as-cast and annealed Zr60Cu20Al10Fe5Ti5 bulk metallic glass. Intermetallics, 2012, 28, 149-155.	1.8	31

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19	Room temperature gaseous hydrogen storage properties of Mg-based metallic glasses with ultrahigh Mg contents. <i>Journal of Non-Crystalline Solids</i> , 2012, 358, 1387-1390.	1.5	29
20	Regenerator performance below 4K in Tm-based bulk metallic glasses. <i>Journal of Non-Crystalline Solids</i> , 2012, 358, 1716-1719.	1.5	7
21	Perspective: Supercooled liquids and glasses. <i>Journal of Chemical Physics</i> , 2012, 137, 080901.	1.2	427
22	Relaxation of the high-frequency shear modulus in bulk metallic glass Zr ₄₆ (Cu ₄ /5Ag ₁ /5) ₄₆ Al ₈ . <i>Physics of the Solid State</i> , 2012, 54, 2145-2149.	0.2	1
23	Nanorobots grab cellular control. <i>Nature Materials</i> , 2012, 11, 276-277.	13.3	90
24	Sound Velocity in Soap Foams. <i>Chinese Physics Letters</i> , 2012, 29, 104301.	1.3	0
25	Mechanical behavior of emerging materials. <i>Materials Today</i> , 2012, 15, 486-498.	8.3	43
26	Hidden order in the fracture surface morphology of metallic glasses. <i>Acta Materialia</i> , 2012, 60, 6952-6960.	3.8	18
27	Transition from homogeneous-like to shear-band deformation in nanolayered crystalline Cu/amorphous Cu–Zr micropillars: Intrinsic vs. extrinsic size effect. <i>Acta Materialia</i> , 2012, 60, 7183-7196.	3.8	108
28	Relation between ideal and real strengths of metallic glasses. <i>Journal of Non-Crystalline Solids</i> , 2012, 358, 3119-3123.	1.5	2
29	Formation and properties of strontium-based bulk metallic glasses with ultralow glass transition temperature. <i>Journal of Materials Research</i> , 2012, 27, 2593-2600.	1.2	17
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32	Correlation between elastic structural behavior and yield strength of metallic glasses. <i>Acta Materialia</i> , 2012, 60, 3074-3083.	3.8	48
33	Evaluation of dynamic behaviors of metallic glass-forming liquids by elastic constants. <i>Materials Letters</i> , 2012, 75, 179-182.	1.3	6
34	The activation energy and volume of flow units of metallic glasses. <i>Scripta Materialia</i> , 2012, 67, 9-12.	2.6	148
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36	Origin of ultrafast Ag radiotracer diffusion in shear bands of deformed bulk metallic glass Pd ₄₀ Ni ₄₀ P ₂₀ . <i>Journal of Applied Physics</i> , 2013, 113, .	1.1	18

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38	The $\hat{\Gamma}^2$ relaxation in metallic glasses: an overview. <i>Materials Today</i> , 2013, 16, 183-191.	8.3	303
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40	Crossover from stochastic activation to cooperative motions of shear transformation zones in metallic glasses. <i>Applied Physics Letters</i> , 2013, 103, 081904.	1.5	38
41	Shear avalanches in metallic glasses under nanoindentation: Deformation units and rate dependent strain burst cut-off. <i>Applied Physics Letters</i> , 2013, 103, .	1.5	49
42	The dependence of shear modulus on dynamic relaxation and evolution of local structural heterogeneity in a metallic glass. <i>Acta Materialia</i> , 2013, 61, 4329-4338.	3.8	141
43	Synthesis and compressive fracture behavior of a CuZr-based bulk amorphous alloy with Ti addition. <i>Journal of Central South University</i> , 2013, 20, 1137-1141.	1.2	3
44	Bending behavior of electrodeposited glassy Pd-P and Pd-Ni-P thin films. <i>Scripta Materialia</i> , 2013, 68, 455-458.	2.6	6
45	Effects of Ar ion irradiation on the diffusion bonding joints of Zr55Cu30Ni5Al10 bulk metallic glass to aluminum alloy. <i>Journal of Non-Crystalline Solids</i> , 2013, 364, 53-56.	1.5	9
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50	Chemical influence on $\hat{\Gamma}^2$ -relaxations and the formation of molecule-like metallic glasses. <i>Nature Communications</i> , 2013, 4, 2204.	5.8	124
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54	Relation between the activation energy of oxygen diffusion and the instantaneous shear modulus in propylene carbonate near the glass transition temperature. <i>Journal of Chemical Physics</i> , 2013, 139, 114506.	1.2	5

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55	Analysis of atomic mobility in a Cu ₃₈ Zr ₄₆ Ag ₈ Al ₈ bulk metallic glass. <i>Journal of Alloys and Compounds</i> , 2013, 549, 370-374.	2.8	25
56	Characterizing thermodynamic properties of Ti-Cu-Ni-Zr bulk metallic glasses by hyperbolic expression. <i>Journal of Alloys and Compounds</i> , 2013, 550, 221-225.	2.8	4
57	Signature of properties in elastic constants of no-metalloid bulk metallic glasses. <i>Intermetallics</i> , 2013, 35, 1-8.	1.8	4
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59	Surface-activated supercooled liquid brazing. <i>Scripta Materialia</i> , 2013, 68, 699-702.	2.6	3
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65	Effect of stress gradient on the deformation behavior of a bulk metallic glass under uniaxial tension. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2013, 574, 262-265.	2.6	33
66	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.	2.6	37
67	Effects of pre-introduced shear origin zones on mechanical property of ZrCu metallic glass. <i>Journal of Non-Crystalline Solids</i> , 2013, 373-374, 1-4.	1.5	13
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74	A connection between the structural α -relaxation and the β -relaxation found in bulk metallic glass-formers. <i>Journal of Chemical Physics</i> , 2013, 139, 014502.	1.2	37
75	Novel centimeter-sized Fe-based bulk metallic glass with high corrosion resistance in simulated acid rain and seawater. <i>Journal of Non-Crystalline Solids</i> , 2013, 369, 29-33.	1.5	38
76	Fabrication of silicon carbide reinforced aluminum matrix nanocomposites and characterization of its mechanical properties using non-destructive technique. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2013, 559, 384-393.	2.6	39
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78	Collective evolution dynamics of multiple shear bands in bulk metallic glasses. <i>International Journal of Plasticity</i> , 2013, 50, 18-36.	4.1	72
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103	Ductile-to-brittle transition in spallation of metallic glasses. <i>Journal of Applied Physics</i> , 2014, 116, .	1.1	30
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111	The β -relaxation in metallic glasses. <i>National Science Review</i> , 2014, 1, 429-461.	4.6	199
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122	Nanoindentation study of Cu ₅₂ Zr ₃₇ Ti ₈ In ₃ bulk metallic glass. <i>Applied Physics A: Materials Science and Processing</i> , 2014, 115, 305-312.	1.1	10
123	Effects of Crystallization on the Corrosion Resistance of Arc-Sprayed FeBSiNb Coatings. <i>Journal of Thermal Spray Technology</i> , 2014, 23, 373-379.	1.6	23
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130	Study of nanoindentation behavior of amorphous alloy using molecular dynamics. <i>Applied Surface Science</i> , 2014, 305, 101-110.	3.1	107
131	Liquid fragility calculations from thermal analyses for metallic glasses. <i>Journal of Non-Crystalline Solids</i> , 2014, 386, 46-50.	1.5	5
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144	Evolution of atomic rearrangements in deformation in metallic glasses. <i>Physical Review E</i> , 2014, 90, 042303.	0.8	11

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149	Effect of physical aging on Johari-Goldstein relaxation in La-based bulk metallic glass. <i>Journal of Chemical Physics</i> , 2014, 141, 104510.	1.2	35
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152	Improved plasticity of bulk metallic glasses by electrodeposition. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2014, 615, 240-246.	2.6	15
153	Flow Unit Perspective on Room Temperature Homogeneous Plastic Deformation in Metallic Glasses. <i>Physical Review Letters</i> , 2014, 113, 045501.	2.9	165
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156	Correlation between Atomic Size Ratio and Poisson's Ratio in Metallic Glasses. <i>Chinese Physics Letters</i> , 2014, 31, 066102.	1.3	2
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174	Polymer films of nanoscale thickness: linear chain and star-shaped macromolecular architectures. <i>MRS Communications</i> , 2015, 5, 423-434.	0.8	16
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946	Enhanced mechanical properties of Zr ₆₅ Cu ₁₅ Ni ₁₀ Al ₁₀ bulk metallic glass by simultaneously introducing surface grooves and multiple shear bands. <i>Journal of Materials Research and Technology</i> , 2022, 21, 1490-1506.	2.6	5
947	Boson peak: Damped phonon in solids. <i>Applied Physics Letters</i> , 2022, 121, .	1.5	4
948	Quasi-static and dynamic deformation behavior of Hf ₂₈ Be ₁₈ Ti ₁₇ Zr ₁₇ Cu _{7.5} Ni _{12.5} high-entropy bulk metallic glass. <i>Journal of Materials Research and Technology</i> , 2022, 21, 1331-1343.	2.6	7
949	Effect of Fe addition on the glass-forming ability, stability, and mechanical properties of Zr ₅₀ Cu ₃₄ -Fe ₁₈ Ag ₈ metallic glasses. <i>Journal of Alloys and Compounds</i> , 2022, 929, 167334.	2.8	8
950	Shear Band Control for Improved Strength-Ductility Synergy in Metallic Glasses. <i>Applied Mechanics Reviews</i> , 2022, 74, .	4.5	8
951	Structural Changes in Metallic Glass-Forming Liquids on Cooling and Subsequent Vitrification in Relationship with Their Properties. <i>Materials</i> , 2022, 15, 7285.	1.3	16
952	Atomistic insights into the effect of cooling rates on the structural and mechanical properties of Vanadium monatomic metallic glass. <i>Chinese Journal of Physics</i> , 2022, 79, 503-513.	2.0	6
953	On the Evolution of Nano-Structures at the Alâ€™Cu Interface and the Influence of Annealing Temperature on the Interfacial Strength. <i>Nanomaterials</i> , 2022, 12, 3658.	1.9	2
954	Intrinsic Correlation between the Fraction of Liquidlike Zones and the $\langle mml:math display="inline">\langle mml:mi>I^2</mml:mi></mml:math>$ Relaxation in High-Entropy Metallic Glasses. <i>Physical Review Letters</i> , 2022, 129, .	2.9	31
955	Creep Behavior of Cr-Fe-Ni-Co-Mo-Si Amorphous Coating. <i>Jom</i> , 0, , .	0.9	0
956	Applicability of Pre-Plastic Deformation Method for Improving Mechanical Properties of Bulk Metallic Glasses. <i>Materials</i> , 2022, 15, 7574.	1.3	1
957	Influence of structural heterogeneity on shear bands in fracture-affected zones of metallic glasses. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2022, 858, 144197.	2.6	0
958	Effect of nanoindentation experimental parameters on the estimation of the plastic events in metallic glasses employing various analysis methods. <i>Intermetallics</i> , 2022, 151, 107748.	1.8	0
959	1.7 Times thermal expansion from glass to liquid. <i>Acta Materialia</i> , 2023, 242, 118450.	3.8	2
960	Influence from connection of atomic clusters on the second peak splitting of pair distribution function in metallic glasses. <i>Journal of Non-Crystalline Solids</i> , 2023, 600, 122021.	1.5	1
961	Percolation-like transition from nanoscale structural heterogeneities to shear bands in metallic glass detected by static force microscopy. <i>Applied Surface Science</i> , 2023, 611, 155730.	3.1	3

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962	Indentation creep dynamics in metallic glasses under different structural states. International Journal of Mechanical Sciences, 2023, 240, 107941.	3.6	8
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964	Atomistic investigation of modulating structural heterogeneities to achieve strength-ductility synergy in metallic glasses. Computational Materials Science, 2023, 217, 111918.	1.4	4
965	Prediction of Vickers hardness of amorphous alloys based on interpretable machine learning. Journal of Non-Crystalline Solids, 2023, 602, 122095.	1.5	13
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969	Metallic glacial glass. , 2023, 2, 20220049.		3
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972	Effect of Cu content on the corrosion behavior of Ti-based bulk amorphous alloys in HCl solution. Materials Letters, 2023, 337, 133742.	1.3	5
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975	Modification of structural, mechanical, corrosion and biocompatibility properties of Ti ₄₀ Zr ₁₀ Cu ₃₆ Pd ₁₄ metallic glass by minor Ga and Sn additions. Journal of Alloys and Compounds, 2023, 940, 168776.	2.8	2
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977	Cup-cone statistical investigation assess the relationship between the micro-structure and spall strength of metallic glasses under planar impact loadings. Journal of Alloys and Compounds, 2023, 940, 168862.	2.8	2
978	Processing induced nanoscale heterogeneity impact on the mechanical and electrical behavior of Cu-Zr thin film metallic glasses. Results in Surfaces and Interfaces, 2023, 10, 100094.	1.0	1
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981	Fundamental links between shear transformation, $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si58.svg" display="inline" id="d1e288"> \langle \text{mml:mi}> \dot{\Gamma}^2 \langle \text{mml:mi}> \langle \text{mml:math}>$ relaxation, and string-like motion in metallic glasses. <i>Acta Materialia</i> , 2023, 246, 118701.	3.8	8
982	Investigation of microstructural development of liquid Nb in dependence of cooling rate: Molecular dynamics simulation study. <i>Vacuum</i> , 2023, 210, 111821.	1.6	2
983	Size-dependent microstructural evolution and mechanical properties of crystalline/amorphous high-entropy alloy nanostructured multilayers: Cu/FeCoCrNiBSi vs Ni/FeCoCrNiBSi. <i>Acta Materialia</i> , 2023, 246, 118706.	3.8	4
984	Investigation of Medium Range Order Defects in CuxZr100-x (x = 50, 56, 60, 64) Metallic Glasses Using Reverse Monte Carlo Modeling. <i>Metals</i> , 2023, 13, 70.	1.0	0
985	Metallic glasses. , 2023, , 13-59.		0
986	Mechanical Wave Propagation in Solidifying Metals: Physico-Mathematical Model and Numerical Tests. <i>Advanced Theory and Simulations</i> , 0, , 2200646.	1.3	0
987	Effect of stress relaxation on soft magnetic properties of Fe ₇₆ Si ₉ B ₁₀ P ₅ metallic glass. <i>EPJ Applied Physics</i> , 2023, 98, 20.	0.3	1
988	A generative deep learning framework for inverse design of compositionally complex bulk metallic glasses. <i>Npj Computational Materials</i> , 2023, 9, .	3.5	10
989	Molecular Mechanics of Disordered Solids. <i>Archives of Computational Methods in Engineering</i> , 2023, 30, 2105-2180.	6.0	6
990	Domain knowledge aided machine learning method for properties prediction of soft magnetic metallic glasses. <i>Transactions of Nonferrous Metals Society of China</i> , 2023, 33, 209-219.	1.7	7
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992	New biodegradable Mg-Zn-Ca bulk metallic glass composite with large plasticity reinforced by SnZn alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2023, 873, 145045.	2.6	2
993	OsCo-based high-temperature bulk metallic glasses with robust mechanical properties. <i>Scripta Materialia</i> , 2023, 228, 115336.	2.6	4
994	Physics-motivated fractional viscoelasticity model for dynamic relaxation in amorphous solids. <i>International Journal of Plasticity</i> , 2023, 164, 103588.	4.1	4
995	Strain-induced structural evolution of interphase interfaces in CuZr-based metallic-glass composite reinforced by B2 crystalline phase. <i>Composites Part B: Engineering</i> , 2023, 258, 110698.	5.9	18
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997	Crystallization sequence of an (Al ₈₆ Ni ₉ La ₅) ₉₈ Si ₂ amorphous alloy under continuous heating. <i>Journal of Non-Crystalline Solids</i> , 2023, 610, 122310.	1.5	2

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1001	Quenched-in liquid in glass. <i>Materials Futures</i> , 2023, 2, 017501.	3.1	6
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1004	Mechanical behavior of Fe ₈₀ P ₂₀ /Fe amorphous/nanocrystalline composites studied by molecular dynamics simulations. <i>Journal of Non-Crystalline Solids</i> , 2023, 606, 122205.	1.5	1
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1006	Comparison of structural heterogeneity in Zr- and Pd-based metallic glasses. <i>EPJ Applied Physics</i> , 2023, 98, 18.	0.3	0
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1008	Mechanical properties and non-isothermal crystallization kinetics of novel Ti-based high-entropy bulk metallic glasses. <i>Journal of Materials Research and Technology</i> , 2023, 23, 5939-5952.	2.6	5
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1010	Research on non-cohesive jet formed by Zr-based amorphous alloys. <i>Scientific Reports</i> , 2023, 13, .	1.6	1
1011	High Chemical Potential Driven Amorphization of Pd-based Nanoalloys. <i>Small Methods</i> , 2023, 7, .	4.6	4
1012	Zr ₅₅ Al ₁₀ Cu ₃₀ Ni ₅ Zairyō/ <i>Journal of the Society of Materials Science, Japan</i> , 2023, 72, 242-247.	0.1	0
1013	On the elastic microstructure of bulk metallic glasses. <i>Materials and Design</i> , 2023, 229, 111929.	3.3	5
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1042	Bulk and transparent supramolecular glass from evaporation-induced noncovalent polymerization of nucleosides. <i>Materials Horizons</i> , 0, , .	6.4	0
1057	Developing novel amorphous alloys from the perspectives of entropy and shear bands. <i>Science China Materials</i> , 2023, 66, 4143-4164.	3.5	0