

# Designing metallic glass matrix composites with high to

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Citation Report

#	ARTICLE	IF	CITATIONS
1	This Week in Science. Science, 1990, 249, 603-603.	6.0	1
2	Tailoring Microstructures and Mechanical Properties of Zr-Based Bulk Metallic Glass Matrix Composites by the Bridgman Solidification. Advanced Engineering Materials, 2008, 10, 1039-1042.	1.6	34
3	Elastostatically induced structural disordering in amorphous alloys. Acta Materialia, 2008, 56, 5440-5450.	3.8	191
4	Study of the structural relaxation-induced embrittlement of hypoeutectic Zr-Cu-Al ternary bulk glassy alloys. Acta Materialia, 2008, 56, 6097-6108.	3.8	85
5	Enhanced strength and plasticity of a Ti-based metallic glass at cryogenic temperatures. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2008, 498, 203-207.	2.6	68
6	Stress-induced softening and hardening in a bulk metallic glass. Scripta Materialia, 2008, 59, 1210-1213.	2.6	40
7	Strain localization in metallic amorphous/amorphous composites. Intermetallics, 2008, 16, 904-909.	1.8	5
8	Development of tough, low-density titanium-based bulk metallic glass matrix composites with tensile ductility. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 20136-20140.	3.3	308
9	Bulk Metallic Glasses. Science, 2008, 321, 502-503.	6.0	143
10	Size-dependent malleable-to-brittle transition in a bulk metallic glass. Applied Physics Letters, 2008, 93, .	1.5	44
11	Al-based metallic glass composites containing fcc Pb-rich crystalline spheres. Applied Physics Letters, 2008, 93, .	1.5	18
12	Strain Rate Dependence of Tensile Behavior in Hypoeutectic Zr-Cu-Al Bulk Metallic Glass. Nippon Kinzoku Gakkaishi/Journal of the Japan Institute of Metals, 2008, 72, 722-727.	0.2	5
13	Effects of compression cycles on the atomic mobility in metallic glasses. Physical Review B, 2009, 79, .	1.1	8
14	Brittle metallic glass deforms plastically at room temperature in glassy multilayers. Physical Review B, 2009, 80, .	1.1	32
15	Enhanced plasticity in a Zr-based bulk metallic glass composite with in situ formed intermetallic phases. Applied Physics Letters, 2009, 95, .	1.5	33
16	Malleable hypoeutectic Zr-Ni-Cu-Al bulk glassy alloys with tensile plastic elongation at room temperature. Philosophical Magazine Letters, 2009, 89, 322-334.	0.5	141
17	Strength of submicrometer diameter pillars of metallic glasses investigated within situ transmission electron microscopy. Philosophical Magazine Letters, 2009, 89, 633-640.	0.5	25
18	Cold versus hot shear banding in bulk metallic glass. Physical Review B, 2009, 80, .	1.1	145

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19	Modeling deformation behavior of Cuâ€“Zrâ€“Al bulk metallic glass matrix composites. Applied Physics Letters, 2009, 95, .	1.5	77
20	Large plasticity and tensile necking of Zr-based bulk-metallic-glass-matrix composites synthesized by the Bridgman solidification. Applied Physics Letters, 2009, 94, 151905.	1.5	124
21	Cluster spin-glass state and Kondo behavior in Sm-based bulk metallic glasses. Journal of Applied Physics, 2009, 105, 07A326.	1.1	2
22	Amorphous composition in Gdâ€“Coâ€“Al system extracted from bulk metallic glass matrix composite. Journal of Applied Physics, 2009, 106, .	1.1	6
23	Mg-based metallic glass/titanium interpenetrating phase composite with high mechanical performance. Applied Physics Letters, 2009, 95, .	1.5	28
24	Initiation and evolution of shear bands in bulk metallic glass under tensionâ€”An in situ scanning electron microscopy observation. Journal of Materials Research, 2009, 24, 2924-2930.	1.2	1
25	Direct observations on the evolution of shear bands into cracks in metallic glass. Journal of Materials Research, 2009, 24, 3130-3135.	1.2	32
26	Formation, microstructure, and mechanical properties of in situ Mgâ€“Niâ€“(Gd,Nd) bulk metallic glass composite. Journal of Materials Research, 2009, 24, 3603-3610.	1.2	15
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29	High-Pressure Annealing Effect on Glass Transformation Temperature of Zr 41 Ti 14 Cu 12.5 Ni 10 Be 22.5 Bulk Metallic Glass. Chinese Physics Letters, 2009, 26, 086102.	1.3	7
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33	Superamphiphobic CaLi-based bulk metallic glasses. Scripta Materialia, 2009, 60, 225-227.	2.6	81
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37	Electron irradiation-induced structural transformation in metallic glasses. Scripta Materialia, 2009, 61, 40-43.	2.6	27
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39	A novel structural gradient metallic glass composite with enhanced mechanical properties. Scripta Materialia, 2009, 61, 608-611.	2.6	35
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41	Transition of Failure Mode and Enhanced Plastic Deformation of Metallic Glass by Multiaxial Confinement. Advanced Engineering Materials, 2009, 11, 898-901.	1.6	12
42	High Strength (Ti <sub>58</sub> Ni <sub>28</sub> Cu <sub>8</sub> Si <sub>4</sub> Sn <sub>2</sub> ) <sub>100</sub> ~x% Mo <sub>5</sub> x% Dendrite, BMG-Derived Composites with Enhanced Plasticity and Corrosion Resistance. Advanced Engineering Materials, 2009, 11, 885-891.	1.6	5
43	Bulk Metallic Glasses with Functional Physical Properties. Advanced Materials, 2009, 21, 4524-4544.	11.1	413
44	Advances in transmission electron microscopy: In situ straining and in situ compression experiments on metallic glasses. Microscopy Research and Technique, 2009, 72, 250-260.	1.2	35
45	A comparison of the nucleation and growth of shear bands in Ti and Zr-based bulk metallic glasses by in-situ tensile tests. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2009, 516, 148-153.	2.6	5
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51	Strain rate response of mechanical behaviors for a Zr-based bulk metallic glass matrix composite. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2009, 515, 141-145.	2.6	32
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56	An instability index of shear band for plasticity in metallic glasses. <i>Acta Materialia</i> , 2009, 57, 1367-1372.	3.8	182
57	Enhanced fracture toughness and strength in bulk nanocrystalline Cu with nanoscale twin bundles. <i>Acta Materialia</i> , 2009, 57, 6215-6225.	3.8	119
58	Progress in studying the fatigue behavior of Zr-based bulk-metallic glasses and their composites. <i>Intermetallics</i> , 2009, 17, 579-590.	1.8	70
59	Phase-separated microstructures and shear-banding behavior in a designed Zr-based glass-forming alloy. <i>Intermetallics</i> , 2009, 17, 607-613.	1.8	46
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66	Quasi-static and dynamic deformation behaviors of Zr-based bulk metallic glass composites fabricated by the Bridgman solidification. <i>Journal of Alloys and Compounds</i> , 2009, 486, 527-531.	2.8	34
67	Chill-zone aluminum alloys with GPa strength and good plasticity. <i>Journal of Materials Research</i> , 2009, 24, 1513-1521.	1.2	14
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86	Roles of In-Situ Forming Hard Particles in a Zr-Based Bulk-Metallic Glass during Monotonic and Cyclic Loading. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2010, 41, 1799-1804.	1.1	0
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101	Analysis on shear deformation mechanism of metallic glass under confined bending test. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2010, 527, 6224-6229.	2.6	10
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108	Plastic deformability of metallic glass by artificial macroscopic notches. Acta Materialia, 2010, 58, 5420-5432.	3.8	74

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110	Simulation of crack propagation in fiber-reinforced bulk metallic glasses. <i>International Journal of Solids and Structures</i> , 2010, 47, 320-329.	1.3	19
111	Transition from a strong-yet-brittle to a stronger-and-ductile state by size reduction of metallic glasses. <i>Nature Materials</i> , 2010, 9, 215-219.	13.3	606
112	Effect of Strain Rate on Tensile and Compressive Plastic Deformation of Zr <sub>70</sub> Ni <sub>16</sub> Cu <sub>6</sub> Al <sub>8</sub> Bulk Metallic Glass. <i>Zairyo/Journal of the Society of Materials Science, Japan</i> , 2010, 59, 118-123.	0.1	5
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115	Comment on "Homogeneity of Zr <sub>64.13</sub> Cu <sub>15.75</sub> Ni <sub>10.12</sub> Al <sub>10</sub> bulk metallic glass," by L-Y. Chen, Y-W. Zeng, Q-P. Cao, B-J. Park, Y-M. Chen, K. Hono, U. Vainio, Z-L. Zhang, U. Kaiser, X-D. Wang, and J-Z. Jiang [ <i>J. Mater. Res.</i> 24, 3116 (2009)]. <i>Journal of Materials Research</i> , 2010, 25, 598-601.	1.2	6
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117	Fiber metallic glass laminates. <i>Journal of Materials Research</i> , 2010, 25, 2287-2291.	1.2	2
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120	Continuum Modeling of Bulk Metallic Glasses and Composites. <i>Physical Review Letters</i> , 2010, 105, 125503.	2.9	23
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126	Shape Memory Bulk Metallic Glass Composites. <i>Science</i> , 2010, 329, 1294-1295.	6.0	196

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128	Thermal and mechanical characterizations of a Zr-based bulk metallic glass composite toughened by in-situ precipitated Ta-rich particles. <i>Intermetallics</i> , 2010, 18, 560-564.	1.8	32
129	Tailoring of in situ Ti-based bulk glassy matrix composites with high mechanical performance. <i>Intermetallics</i> , 2010, 18, 1908-1911.	1.8	19
130	Flow serration and shear-band propagation in porous Mo particles reinforced Mg-based bulk metallic glass composites. <i>Intermetallics</i> , 2010, 18, 1240-1243.	1.8	10
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141	Superelongation and Atomic Chain Formation in Nanosized Metallic Glass. <i>Physical Review Letters</i> , 2010, 104, 215503.	2.9	79
142	Application of semisolid process to Zr-based metallic glass matrix composites. <i>Transactions of Nonferrous Metals Society of China</i> , 2010, 20, s719-s722.	1.7	2
143	TiZr-base Bulk Metallic Glass with over 50 mm in Diameter. <i>Journal of Materials Science and Technology</i> , 2010, 26, 481-486.	5.6	133
144	Deformation behavior and enhanced plasticity of Ti-based metallic glasses with notches. <i>Philosophical Magazine</i> , 2010, 90, 3867-3877.	0.7	24

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146	Evolution of constitution, structure, and mechanical properties in Fe-Ti-Zr-B heterogeneous multiphase composites. <i>Journal of Materials Research</i> , 2011, 26, 365-371.	1.2	17
147	Deformation behavior of bulk and nanostructured metallic glasses studied via molecular dynamics simulations. <i>Physical Review B</i> , 2011, 83, .	1.1	128
148	Application of phase-field modeling to deformation of metallic glasses. <i>Current Opinion in Solid State and Materials Science</i> , 2011, 15, 116-124.	5.6	5
149	The conflicts between strength and toughness. <i>Nature Materials</i> , 2011, 10, 817-822.	13.3	2,543
150	Simulation of shear banding and crack propagation in bulk metallic glass matrix composites. <i>Journal of Alloys and Compounds</i> , 2011, 509, S136-S140.	2.8	11
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