

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.	12.6	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.	3.5	34
3	Elastostatically induced structural disordering in amorphous alloys. Acta Materialia, 2008, 56, 5440-5450.	7.9	191
4	Study of the structural relaxation-induced embrittlement of hypoeutectic Zr-Cu-Al ternary bulk glassy alloys. Acta Materialia, 2008, 56, 6097-6108.	7.9	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.	5.6	68
6	Stress-induced softening and hardening in a bulk metallic glass. Scripta Materialia, 2008, 59, 1210-1213.	5.2	40
7	Strain localization in metallic amorphous/amorphous composites. Intermetallics, 2008, 16, 904-909.	3.9	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.	7.1	308
9	Bulk Metallic Glasses. Science, 2008, 321, 502-503.	12.6	143
10	Size-dependent "malleable-to-brittle" transition in a bulk metallic glass. Applied Physics Letters, 2008, 93, .	3.3	44
11	Al-based metallic glass composites containing fcc Pb-rich crystalline spheres. Applied Physics Letters, 2008, 93, .	3.3	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.	0.4	5
13	Effects of compression cycles on the atomic mobility in metallic glasses. Physical Review B, 2009, 79, .	3.2	8
14	Brittle metallic glass deforms plastically at room temperature in glassy multilayers. Physical Review B, 2009, 80, .	3.2	32
15	Enhanced plasticity in a Zr-based bulk metallic glass composite with <i>in situ</i> formed intermetallic phases. Applied Physics Letters, 2009, 95, .	3.3	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.	1.2	141
17	Strength of submicrometer diameter pillars of metallic glasses investigated within <i>in situ</i> transmission electron microscopy. Philosophical Magazine Letters, 2009, 89, 633-640.	1.2	25
18	Cold versus hot shear banding in bulk metallic glass. Physical Review B, 2009, 80, .	3.2	145

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19	Modeling deformation behavior of Cuâ€Zrâ€Al bulk metallic glass matrix composites. Applied Physics Letters, 2009, 95, .	3.3	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.	3.3	124
21	Cluster spin-glass state and Kondo behavior in Sm-based bulk metallic glasses. Journal of Applied Physics, 2009, 105, 07A326.	2.5	2
22	Amorphous composition in Gdâ€Coâ€Al system extracted from bulk metallic glass matrix composite. Journal of Applied Physics, 2009, 106, .	2.5	6
23	Mg-based metallic glass/titanium interpenetrating phase composite with high mechanical performance. Applied Physics Letters, 2009, 95, .	3.3	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.	2.6	1
25	Direct observations on the evolution of shear bands into cracks in metallic glass. Journal of Materials Research, 2009, 24, 3130-3135.	2.6	32
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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.	3.3	7
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31	Homogeneity of the superplastic Zr_{64.13}Cu_{15.75}Ni_{10.12}Al₁₀ bulk metallic glass. Journal of Materials Research, 2009, 24, 3116-3120.	2.6	11
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33	Superamphiphobic CaLi-based bulk metallic glasses. Scripta Materialia, 2009, 60, 225-227.	5.2	81
34	Deformation-induced martensitic transformation in Cuâ€Zrâ€(Al,Ti) bulk metallic glass composites. Scripta Materialia, 2009, 60, 431-434.	5.2	166
35	Ductile-to-brittle transition in a Ti-based bulk metallic glass. Scripta Materialia, 2009, 60, 1027-1030.	5.2	49
36	Prediction of shear-band thickness in metallic glasses. Scripta Materialia, 2009, 60, 1004-1007.	5.2	80

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40	Micromechanisms of plastic deformation of a dendrite/Zr-based bulk-metallic-glass composite. Scripta Materialia, 2009, 61, 1087-1090.	5.2	66
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42	High Strength (Ti ₅₈ Ni ₂₈ Cu ₈ Si ₄ Sn ₂) ₁₀₀ ~Mo ₅ Nanoeutectic Matrixâ€”Ti Dendrite, BMGâ€”Derived Composites with Enhanced Plasticity and Corrosion Resistance. Advanced Engineering Materials, 2009, 11, 885-891.	3.5	5
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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.	2.2	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.	5.6	5
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56	An instability index of shear band for plasticity in metallic glasses. <i>Acta Materialia</i> , 2009, 57, 1367-1372.	7.9	182
57	Enhanced fracture toughness and strength in bulk nanocrystalline Cu with nanoscale twin bundles. <i>Acta Materialia</i> , 2009, 57, 6215-6225.	7.9	119
58	Progress in studying the fatigue behavior of Zr-based bulk-metallic glasses and their composites. <i>Intermetallics</i> , 2009, 17, 579-590.	3.9	70
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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.	2.7	19
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122	Resolving ensembled microstructural information of bulk-metallic-glass-matrix composites using synchrotron x-ray diffraction. <i>Applied Physics Letters</i> , 2010, 97, 171910.	3.3	10
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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.	4.2	2
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144	Deformation behavior and enhanced plasticity of Ti-based metallic glasses with notches. <i>Philosophical Magazine</i> , 2010, 90, 3867-3877.	1.6	24

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