

A L Greer

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172
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190
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13,949
ext. citations

9.6
avg, IF

6.94
L-index

#	Paper	IF	Citations
172	Metallic glasses as structural materials. <i>Scripta Materialia</i> , 2006 , 54, 321-326	5.6	1075
171	Shear bands in metallic glasses. <i>Materials Science and Engineering Reports</i> , 2013 , 74, 71-132	30.9	1018
170	Intrinsic plasticity or brittleness of metallic glasses. <i>Philosophical Magazine Letters</i> , 2005 , 85, 77-87	1	927
169	Modelling of inoculation of metallic melts: application to grain refinement of aluminium by AlTiB. <i>Acta Materialia</i> , 2000 , 48, 2823-2835	8.4	745
168	Temperature rise at shear bands in metallic glasses. <i>Nature Materials</i> , 2006 , 5, 15-18	27	736
167	Bulk Metallic Glasses: At the Cutting Edge of Metals Research. <i>MRS Bulletin</i> , 2007 , 32, 611-619	3.2	447
166	Making metallic glasses plastic by control of residual stress. <i>Nature Materials</i> , 2006 , 5, 857-60	27	427
165	Rejuvenation of metallic glasses by non-affine thermal strain. <i>Nature</i> , 2015 , 524, 200-3	50.4	408
164	Metallic glasses on the threshold. <i>Materials Today</i> , 2009 , 12, 14-22	21.8	337
163	The effect of the size distribution of inoculant particles on as-cast grain size in aluminium alloys. <i>Acta Materialia</i> , 2004 , 52, 3859-3868	8.4	304
162	Containerless processing in the study of metallic melts and their solidification. <i>International Materials Reviews</i> , 1993 , 38, 273-347	16.1	281
161	Unusual room-temperature compressive plasticity in nanocrystal-toughened bulk copper-zirconium glass. <i>Philosophical Magazine Letters</i> , 2005 , 85, 221-237	1	252
160	Grain Refinement of Aluminium Alloys by Inoculation. <i>Advanced Engineering Materials</i> , 2003 , 5, 81-91	3.5	218
159	Transient nucleation effects in glass formation. <i>Journal of Non-Crystalline Solids</i> , 1986 , 79, 295-309	3.9	177
158	New studies of nucleation mechanisms in aluminium alloys: implications for grain refinement practice. <i>Materials Science and Technology</i> , 1998 , 14, 394-404	1.5	176
157	Thermomechanical processing of metallic glasses: extending the range of the glassy state. <i>Nature Reviews Materials</i> , 2016 , 1,	73.3	157
156	Grain refinement of Al alloys: Mechanisms determining as-cast grain size in directional solidification. <i>Acta Materialia</i> , 2005 , 53, 4643-4653	8.4	148

155	Enhancement of room-temperature plasticity in a bulk metallic glass by finely dispersed porosity. <i>Applied Physics Letters</i> , 2005 , 86, 251907	3.4	141
154	Thermodynamic modelling of growth-restriction effects in aluminium alloys. <i>Acta Materialia</i> , 2005 , 53, 1323-1334	8.4	135
153	Mechanical properties of Fe-based bulk glassy alloys in Fe ₇₅ Si ₁₅ Nb and Fe ₇₀ Al ₁₀ Co ₁₀ Si ₁₀ systems. <i>Journal of Materials Research</i> , 2003 , 18, 1487-1492	2.5	131
152	Extreme rejuvenation and softening in a bulk metallic glass. <i>Nature Communications</i> , 2018 , 9, 560	17.4	119
151	Partially or fully devitrified alloys for mechanical properties. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2001 , 304-306, 68-72	5.3	116
150	Grain refinement of alloys by inoculation of melts. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2003 , 361, 479-495	3	115
149	Atomic transport and structural relaxation in metallic glasses. <i>Journal of Non-Crystalline Solids</i> , 1984 , 61-62, 737-748	3.9	115
148	Structural relaxation and crossover effect in a metallic glass. <i>Journal of Non-Crystalline Solids</i> , 1979 , 33, 291-297	3.9	114
147	Shear delocalization and crack blunting of a metallic glass containing nanoparticles: In situ deformation in TEM analysis. <i>Scripta Materialia</i> , 2006 , 54, 1829-1834	5.6	109
146	Solid-state intermetallic phase transformations in 3XXX aluminium alloys. <i>Acta Materialia</i> , 2002 , 50, 2571-2583	8.4	105
145	Differential scanning calorimetry study of solid-state amorphization in multilayer thin-film Ni/Zr. <i>Applied Physics Letters</i> , 1987 , 50, 566-568	3.4	104
144	Athermal heterogeneous nucleation of solidification. <i>Acta Materialia</i> , 2005 , 53, 2683-2692	8.4	94
143	Fragile-to-Strong Crossover in Supercooled Liquid Ag-In-Sb-Te Studied by Ultrafast Calorimetry. <i>Advanced Functional Materials</i> , 2015 , 25, 4851-4858	15.6	91
142	Strain-hardening and suppression of shear-banding in rejuvenated bulk metallic glass. <i>Nature</i> , 2020 , 578, 559-562	50.4	89
141	Overview: Application of heterogeneous nucleation in grain-refining of metals. <i>Journal of Chemical Physics</i> , 2016 , 145, 211704	3.9	88
140	New horizons for glass formation and stability. <i>Nature Materials</i> , 2015 , 14, 542-6	27	81
139	Local temperature rises during mechanical testing of metallic glasses. <i>Journal of Materials Research</i> , 2007 , 22, 419-427	2.5	81
138	Too hot to melt. <i>Nature</i> , 2000 , 404, 134-5	50.4	80

137	Fast and slow crystal growth kinetics in glass-forming melts. <i>Journal of Chemical Physics</i> , 2014 , 140, 2145-2150	3.4	76
136	Stored energy in metallic glasses due to strains within the elastic limit. <i>Philosophical Magazine</i> , 2016 , 96, 1643-1663	1.6	75
135	Potential applications for steel and titanium metal foams. <i>Journal of Materials Science</i> , 2005 , 40, 5793-5799	4.9	73
134	Eutectics and the formation of amorphous alloys. <i>Nature</i> , 1989 , 339, 363-365	50.4	72
133	Structural relaxation and rejuvenation in a metallic glass induced by shot-peening. <i>Philosophical Magazine Letters</i> , 2009 , 89, 831-840	1	68
132	Nanocrystallization in Al-based amorphous alloys. <i>The Philosophical Magazine: Physics of Condensed Matter B, Statistical Mechanics, Electronic, Optical and Magnetic Properties</i> , 1997 , 76, 505-510		64
131	Nucleation in Lithium Disilicate Glass: A Test of Classical Theory by Quantitative Modeling. <i>Journal of the American Ceramic Society</i> , 1991 , 74, 1015-1022	3.8	58
130	Diffusional aspects of the solid state amorphization reaction. <i>Journal of Alloys and Compounds</i> , 1993 , 194, 199-211	5.7	55
129	Application of cellular automaton/finite element model to the grain refinement of directionally solidified Al-15 wt% Mg alloys. <i>Acta Materialia</i> , 2002 , 50, 1693-1705	8.4	51
128	On cryothermal cycling as a method for inducing structural changes in metallic glasses. <i>NPG Asia Materials</i> , 2018 , 10, 137-145	10.3	50
127	Electromigration effects on compound growth at interfaces. <i>Applied Physics Letters</i> , 2005 , 86, 2319-206	3.4	47
126	Plasticity in bulk metallic glasses investigated via the strain distribution. <i>Physical Review B</i> , 2007 , 76,	3.3	44
125	Transient nucleation and microstructural design in flash-annealed bulk metallic glasses. <i>Acta Materialia</i> , 2017 , 127, 416-425	8.4	42
124	Classical-nucleation-theory analysis of priming in chalcogenide phase-change memory. <i>Acta Materialia</i> , 2017 , 139, 226-235	8.4	41
123	Ultra-fast calorimetry study of Ge ₂ Sb ₂ Te ₅ crystallization between dielectric layers. <i>Applied Physics Letters</i> , 2012 , 101, 091906	3.4	41
122	Crystallization of Amorphous Alloys. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 1996 , 27, 549-555	2.3	41
121	Large bulk soft magnetic [(Fe _{0.5} Co _{0.5}) _{0.75} B _{0.20} Si _{0.05}] ₉₆ Nb ₄ glassy alloy prepared by B ₂ O ₃ flux melting and water quenching. <i>Applied Physics Letters</i> , 2006 , 88, 1825-10	3.4	40
120	The use of DSC to determine the Curie temperature of metallic glasses. <i>Thermochimica Acta</i> , 1980 , 42, 193-222	2.9	40

119	Residual-stress distribution in shot-peened metallic-glass plate. <i>Philosophical Magazine Letters</i> , 2008 , 88, 757-766	1	38
118	Kissinger method applied to the crystallization of glass-forming liquids: Regimes revealed by ultra-fast-heating calorimetry. <i>Thermochimica Acta</i> , 2015 , 603, 63-68	2.9	37
117	Atomic and vibrational origins of mechanical toughness in bioactive cement during setting. <i>Nature Communications</i> , 2015 , 6, 8631	17.4	34
116	Thermodynamic evidence for a poisoning mechanism in the AlSiTi system. <i>Materials Science and Technology</i> , 2006 , 22, 1126-1134	1.5	34
115	Viscosity of liquid Ag-In-Sb-Te: Evidence of a fragile-to-strong crossover. <i>Journal of Chemical Physics</i> , 2016 , 144, 194503	3.9	33
114	On room-temperature quasi-elastic mechanical behaviour of bulk metallic glasses. <i>Acta Materialia</i> , 2017 , 129, 343-351	8.4	32
113	Induced elastic anisotropy in a bulk metallic glass. <i>Scripta Materialia</i> , 2011 , 64, 1091-1094	5.6	32
112	High-resolution electron microscopy of an Al-Mn alloy exhibiting icosahedral symmetry. <i>The Philosophical Magazine: Physics of Condensed Matter B, Statistical Mechanics, Electronic, Optical and Magnetic Properties</i> , 1985 , 52, L31-L38		32
111	Local microstructure evolution at shear bands in metallic glasses with nanoscale phase separation. <i>Scientific Reports</i> , 2016 , 6, 25832	4.9	32
110	Electron back-scatter diffraction study of inoculation of Al. <i>Philosophical Magazine Letters</i> , 2001 , 81, 321-328	4.3	31
109	Structural and dynamic properties of crystalline and amorphous phases in raffinose-water mixtures. <i>Pharmaceutical Research</i> , 1999 , 16, 1441-8	4.5	31
108	Stress Effects on Interdiffusion in Amorphous Multilayers. <i>Defect and Diffusion Forum</i> , 1996 , 129-130, 163-180	0.7	31
107	Surface crystallization of melt-spun Pd40Ni40P20 glass. <i>Journal of Materials Science</i> , 1987 , 22, 4388-4394	4.3	31
106	Heterogeneous grain initiation in solidification. <i>Philosophical Magazine</i> , 2006 , 86, 3665-3680	1.6	30
105	Undercooling and solidification of Al-50 at. pct Si Alloy by electromagnetic levitation. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2004 , 35, 607-612	2.3	28
104	Microscopic characterization of structural relaxation and cryogenic rejuvenation in metallic glasses. <i>Acta Materialia</i> , 2019 , 164, 165-170	8.4	28
103	Diffusion of water within an amorphous carbohydrate. <i>Journal of Materials Science</i> , 1997 , 32, 301-308	4.3	27
102	Formation, stability and ultrahigh strength of novel nanostructured alloys by partial crystallization of high-entropy (Fe _{0.25} Co _{0.25} Ni _{0.25} Cr _{0.125} Mo _{0.125}) ₈₆₋₈₉ B ₁₁₋₁₄ amorphous phase. <i>Acta Materialia</i> , 2019 , 170, 50-61	8.4	25

101	Novel deformation-induced polymorphic crystallization and softening of Al-based amorphous alloys. <i>Acta Materialia</i> , 2018 , 147, 90-99	8.4	23
100	Plastic zone at crack tip: A nanolab for formation and study of metallic glassy nanostructures. <i>Journal of Materials Research</i> , 2009 , 24, 2986-2992	2.5	23
99	Flow-induced elastic anisotropy of metallic glasses. <i>Acta Materialia</i> , 2016 , 112, 132-140	8.4	23
98	Primary crystallization in an amorphous A188Ni4Y8 alloy. <i>The Philosophical Magazine: Physics of Condensed Matter B, Statistical Mechanics, Electronic, Optical and Magnetic Properties</i> , 1997 , 76, 419-423		22
97	Site-ordering effects on element partitioning during rapid solidification of alloys. <i>Nature</i> , 1996 , 383, 150-152	5.4	22
96	Phase separation in monotectic alloys as a route for liquid state fabrication of composite materials. <i>Journal of Materials Science</i> , 2012 , 47, 8360-8366	4.3	21
95	Instability of TiC particles in aluminium melts inoculated with an Al-Ti-C grain refiner. <i>Materials Science and Technology</i> , 2002 , 18, 1072-1078	1.5	21
94	Triple lines in nucleation. <i>Scripta Materialia</i> , 2010 , 62, 899-903	5.6	19
93	Electromigration effects on intermetallic growth at wire-bond interfaces. <i>Journal of Electronic Materials</i> , 2006 , 35, 1961-1968	1.9	19
92	Interdiffusion in Amorphous Multilayered Materials. <i>Annual Review of Materials Research</i> , 1987 , 17, 219-233		19
91	Thermodynamics of Te ₈₀ Ge ₂₀ & Pbx glass-forming alloys. <i>Journal of Materials Research</i> , 1988 , 3, 570-575	5.5	19
90	Diffusion and reactions in thin films. <i>Applied Surface Science</i> , 1995 , 86, 329-337	6.7	18
89	Rejuvenation decreases shear band sliding velocity in Pt-based metallic glasses. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2017 , 684, 517-523	5.3	17
88	An EFTEM study of compositional variations in Mg ₇₀ Ni ₃₀ bulk metallic glasses. <i>Journal of Non-Crystalline Solids</i> , 2003 , 317, 23-29	3.9	17
87	Athermal heterogeneous nucleation of freezing: numerical modelling for polygonal and polyhedral substrates. <i>Philosophical Magazine</i> , 2008 , 88, 561-579	1.6	16
86	Electromigration in the presence of a temperature gradient: Experimental study and modelling. <i>Journal of Electronic Materials</i> , 1988 , 17, 473-478	1.9	15
85	Fast-heating-induced formation of metallic-glass/crystal composites with enhanced plasticity. <i>Thermochimica Acta</i> , 2019 , 677, 198-205	2.9	14
84	Measurements of atomic diffusion using metallic multilayers. <i>Current Opinion in Solid State and Materials Science</i> , 1997 , 2, 300-304	12	14

83	Transformations of metastable phases. <i>The Philosophical Magazine: Physics of Condensed Matter B, Statistical Mechanics, Electronic, Optical and Magnetic Properties</i> , 1990 , 61, 525-538		14
82	In-situ TEM study of the crystallization sequence in a gold-based metallic glass. <i>Acta Materialia</i> , 2020 , 196, 52-60	8.4	12
81	The microstructural development of Ag/Ni multilayers during annealing. <i>Philosophical Magazine A: Physics of Condensed Matter, Structure, Defects and Mechanical Properties</i> , 2000 , 80, 1867-1877		12
80	Ultrahigh hydrogen-sorbing palladium metallic-glass nanostructures. <i>Materials Horizons</i> , 2019 , 6, 1481-1487	4.7	11
79	Novel phase decomposition, good soft-magnetic and mechanical properties for high-entropy (Fe _{0.25} Co _{0.25} Ni _{0.25} Cr _{0.125} Mn _{0.125}) _{100-x} B _x (x = 9-3) amorphous alloys. <i>Journal of Alloys and Compounds</i> , 2020 , 843, 155917	5.7	11
78	Influence of cyclic loading on the onset of failure in a Zr-based bulk metallic glass. <i>Journal of Materials Science</i> , 2014 , 49, 6716-6721	4.3	11
77	Morphologies of silicon crystals solidified on a chill plate. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2004 , 35, 1067-1073	2.3	11
76	Electromigration damage and failure distributions in Al-4 wt % Cu interconnects. <i>Journal of Applied Physics</i> , 1998 , 84, 2551-2557	2.5	11
75	Vitrification and nanocrystallization of pure liquid Ni studied using molecular-dynamics simulation. <i>Journal of Chemical Physics</i> , 2019 , 151, 124502	3.9	10
74	Influence of the shot-peening intensity on the structure and near-surface mechanical properties of Ti ₄₀ Zr ₁₀ Cu ₃₈ Pd ₁₂ bulk metallic glass. <i>Applied Physics Letters</i> , 2013 , 103, 211907	3.4	10
73	Correlating ultrafast calorimetry, viscosity, and structural measurements in liquid GeTe and Ge ₁₅ Te ₈₅ . <i>Physical Review Materials</i> , 2018 , 2,	3.2	10
72	Effective electrocatalytic methanol oxidation of Pd-based metallic glass nanofilms. <i>Nanoscale</i> , 2020 , 12, 22586-22595	7.7	10
71	Novel Heating-Induced Reversion during Crystallization of Al-based Glassy Alloys. <i>Scientific Reports</i> , 2017 , 7, 46113	4.9	9
70	Abrasive Wear Resistance of Bulk Metallic Glasses. <i>Materials Research Society Symposia Proceedings</i> , 2000 , 644, 1041		9
69	Stimulation of shear-transformation zones in metallic glasses by cryogenic thermal cycling. <i>Journal of Non-Crystalline Solids</i> , 2020 , 548, 120299	3.9	9
68	Metallic Glass Films with Nanostructured Periodic Density Fluctuations Supported on Si/SiO ₂ as an Efficient Hydrogen Sorber. <i>Chemistry - A European Journal</i> , 2020 , 26, 8244-8253	4.8	8
67	Texture and hillocking in sputter-deposited copper thin films. <i>Journal of Materials Science: Materials in Electronics</i> , 2002 , 13, 285-294	2.1	8
66	Effects of short-range ordering on interdiffusion in epitaxial multilayers. <i>Thin Solid Films</i> , 1996 , 275, 258-261	2.1	8

65	Shear transformation zone analysis of anelastic relaxation of a metallic glass reveals distinct properties of α and β relaxations. <i>Physical Review E</i> , 2019 , 100, 033001	2.4	7
64	Energy storage oscillation of metallic glass induced by high-intensity elastic stimulation. <i>Applied Physics Letters</i> , 2020 , 116, 081901	3.4	7
63	Formation, thermal stability and mechanical properties of high-entropy (Fe _{0.25} Co _{0.25} Ni _{0.25} Cr _{0.125} Mo _{0.0625} Nb _{0.0625}) _{100-x} B _x (x = 7–14) amorphous alloys. <i>Journal of Alloys and Compounds</i> , 2020 , 825, 153858	5.7	7
62	Multicomponent bulk metallic glasses with elevated-temperature resistance. <i>MRS Bulletin</i> , 2019 , 44, 867-872	3.2	7
61	Study of the diffusion of Ni into amorphous Ni ₅₀ Zr ₅₀ and the resulting strain formation. <i>Philosophical Magazine A: Physics of Condensed Matter, Structure, Defects and Mechanical Properties</i> , 1997 , 75, 461-468		7
60	Analytical model linking growth restriction to solute interaction in model Al based ternary systems. <i>Materials Science and Technology</i> , 2005 , 21, 985-994	1.5	7
59	Crystal Nucleation and Growth in Glassy and Liquid Pd ₄₀ Ni ₄₀ P ₂₀ . <i>Materials Research Society Symposia Proceedings</i> , 1985 , 57, 239		7
58	In situ correlation between metastable phase-transformation mechanism and kinetics in a metallic glass. <i>Nature Communications</i> , 2021 , 12, 2839	17.4	7
57	Atomistic modelling of thermal-cycling rejuvenation in metallic glasses. <i>Acta Materialia</i> , 2021 , 213, 1169524	5.4	7
56	In-situ study of athermal reversible photocrystallization in a chalcogenide glass. <i>Journal of Applied Physics</i> , 2017 , 122, 173101	2.5	6
55	Microstructure, damage and resistance during electromigration life-testing of Al-Cu interconnects. <i>Materials Research Society Symposia Proceedings</i> , 1993 , 309, 369		6
54	Lowered interdiffusivity in thin amorphous Ni-Zr films with large composition gradients. <i>The Philosophical Magazine: Physics of Condensed Matter B, Statistical Mechanics, Electronic, Optical and Magnetic Properties</i> , 1994 , 69, 1083-1091		6
53	Main Directions of Recent Works on Al-Zn-Based Alloys for Foundry Engineering. <i>Journal of Materials Engineering and Performance</i> , 2019 , 28, 3986-3993	1.6	5
52	Microstructure and the Development of Electromigration Damage in Narrow Interconnects. <i>Materials Research Society Symposia Proceedings</i> , 1992 , 265, 83		5
51	Observations on the ageing of the metallic glass Fe ₈₀ B ₂₀ . <i>Journal of Microscopy</i> , 1980 , 119, 53-61	1.9	5
50	The atomistic mechanism of fast relaxation processes in Cu ₆₅ Zr ₃₅ glass. <i>Acta Materialia</i> , 2017 , 135, 290-296	2.9	4
49	Rejuvenation through plastic deformation of a La-based metallic glass measured by fast-scanning calorimetry. <i>Journal of Non-Crystalline Solids: X</i> , 2020 , 8, 100051	2.5	4
48	Reversible migration of silver on memorized pathways in Ag-Ge ₄₀ S ₆₀ films. <i>AIP Advances</i> , 2015 , 5, 077134	1.5	4

47	A Microscopical and Statistical Study of Electromigration Damage and Failure in Al-4wt.%Cu Tracks. <i>Materials Research Society Symposia Proceedings</i> , 1992 , 265, 101		4
46	Surface-governed electrochemical hydrogenation in FeNi-based metallic glass. <i>Journal of Power Sources</i> , 2020 , 475, 228700	8.9	4
45	Atomic diffusivities in amorphous and liquid Cu-Zr: Kirkendall effects and dependence on packing density. <i>Acta Materialia</i> , 2021 , 214, 116993	8.4	4
44	Preferred location for conducting filament formation in thin-film nano-ionic electrolyte: study of microstructure by atom-probe tomography. <i>Journal of Materials Science: Materials in Electronics</i> , 2017 , 28, 6846-6851	2.1	3
43	Morphologies of silicon crystals solidified on a chill plate. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2004 , 35, 1067-1073	2.3	3
42	The effect of diffusion-induced stress on the magnetic properties of c-Ni/a-Ni50Zr50 multilayers. <i>Journal of Magnetism and Magnetic Materials</i> , 1996 , 156, 419-420	2.8	3
41	Modelling and Measurements of Stress-Controlled Interdiffusion in Multilayered Amorphous Alloys. <i>Materials Research Society Symposia Proceedings</i> , 1994 , 356, 21		3
40	The mechanism of degradation of Ag/Ni multilayers deposited at different temperatures. <i>Philosophical Magazine A: Physics of Condensed Matter, Structure, Defects and Mechanical Properties</i> , 2001 , 81, 1-10		2
39	Measurements and Simulation of Asymmetric Interdiffusion in Amorphous Ni-Zr Multilayers. <i>Materials Science Forum</i> , 1995 , 179-181, 807-812	0.4	2
38	Analysis of Geometrical and Microstructural Effects on Void Formation in Metallization: Observation and Modelling. <i>Materials Research Society Symposia Proceedings</i> , 1996 , 428, 243		2
37	Direct Correlation Between Grain Configuration and Electromigration Damage Development. <i>Materials Research Society Symposia Proceedings</i> , 1996 , 428, 249		2
36	Transient Nucleation in Devitrification. <i>Materials Research Society Symposia Proceedings</i> , 1993 , 321, 223		2
35	Electromigration Damage and Failure Distributions in Al-4wt.%Cu Interconnects. <i>Materials Research Society Symposia Proceedings</i> , 1995 , 391, 391		2
34	The Elastic Moduli of Silver Thin Films Measured with a New Microtensile Tester. <i>Materials Research Society Symposia Proceedings</i> , 1991 , 239, 239		2
33	Shear-induced chemical segregation in a Fe-based bulk metallic glass at room temperature. <i>Scientific Reports</i> , 2021 , 11, 13650	4.9	2
32	Enhancement of Interfacial Hydrogen Interactions with Nanoporous Gold-Containing Metallic Glass. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 42613-42623	9.5	2
31	Epitaxial Versus Polycrystalline Shape Memory Cu-Al-Ni Thin Films. <i>Coatings</i> , 2019 , 9, 308	2.9	1
30	Reversible devitrification in amorphous As ₂ Se ₃ under pressure. <i>Physical Review B</i> , 2016 , 94,	3.3	1

29	Modelling of Grain Refinement in Aluminium Alloys. <i>Materials Research Society Symposia Proceedings</i> , 1999 , 578, 425		1
28	Microstructural Evolution in Copper Films Undergoing Laser Pulsing at High Pressures. <i>Materials Research Society Symposia Proceedings</i> , 1999 , 594, 111		1
27	Competitive Phase Selection in Fe-Ni Alloy Droplets. <i>Materials Research Society Symposia Proceedings</i> , 1995 , 398, 51		1
26	Diffusion in Metallic Multilayers. <i>Materials Research Society Symposia Proceedings</i> , 1995 , 382, 9		1
25	Development of Microstructure in Rapidly Solidified Intermetallics. <i>Materials Research Society Symposia Proceedings</i> , 1995 , 398, 75		1
24	Solidification of Intermetallic Compounds. <i>Materials Research Society Symposia Proceedings</i> , 1995 , 400, 173		1
23	Asymmetries in the Formation of Electromigration Damage Around Divergence Dipoles in a Metallization Track. <i>Materials Research Society Symposia Proceedings</i> , 1987 , 108, 327		1
22	Investigating the Alpha Transformation [A Solid-State Phase Change of Dispersed Intermetallic Particles from an Al ₆ (Fe,Mn) Phase to an [Al-(Fe,Mn)-Si Phase1013-1020		1
21	Fine fibres with multifunctionality. <i>Nature Nanotechnology</i> , 2020 , 15, 1-2	28.7	1
20	The effects of elastic cycling in nanoindentation of a metallic glass. <i>Philosophical Magazine</i> , 2020 , 100, 3141-3154	1.6	1
19	Cryo-Casting for Controlled Decomposition of Cu ₄₀ Zr ₆₀ Al Bulk Metallic Glass into Nanomaterials: Implications for Design Optimization. <i>ACS Applied Nano Materials</i> , 2021 , 4, 7771-7780	5.6	1
18	Thermal rejuvenation of an aged Au-based metallic glass by fast scanning calorimetry. <i>Journal of Non-Crystalline Solids: X</i> , 2021 , 11-12, 100062	2.5	1
17	Devitrification of thin film Cu ₄₀ Zr ₆₀ metallic glass via ultrashort pulsed laser annealing. <i>Journal of Alloys and Compounds</i> , 2021 , 887, 161437	5.7	1
16	Plastic Zr-Al-Ni-Cu-Ag bulk glassy alloys containing quasicrystalline or [Zr plus [Zr phases. <i>Acta Materialia</i> , 2022 , 229, 117812	8.4	1
15	Ultrahigh thermal stability and hardness of nano-mixed fcc-Al and amorphous phases for multicomponent Al-based alloys. <i>Journal of Alloys and Compounds</i> , 2020 , 832, 154997	5.7	0
14	Multilayer crystal-amorphous Pd-based nanosheets on Si/SiO ₂ with interface-controlled ion transport for efficient hydrogen storage. <i>International Journal of Hydrogen Energy</i> , 2022 , 47, 6777-6788	6.7	0
13	Strain-hardening under uniaxial tension in a rejuvenated bulk metallic glass. <i>Scripta Materialia</i> , 2022 , 212, 114572	5.6	0
12	Transition metal-based high entropy alloy microfiber electrodes: Corrosion behavior and hydrogen activity. <i>Corrosion Science</i> , 2021 , 193, 109880	6.8	0

- 11 The effect of Ni or Co additions on the structure of Zr₆₀Cu₃₀Al₁₀ bulk metallic glass revealed by high-energy synchrotron radiation. *Materials Today Communications*, **2022**, 103531 2.5 0
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