Jan Schroers

List of Publications by Year
in descending order

186	11,684	28242 55	30058 103
papers	citations	h-index	g-index

189	189	189	5961
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Ductile Bulk Metallic Glass. Physical Review Letters, 2004, 93, 255506.	2.9	997
2	Processing of Bulk Metallic Glass. Advanced Materials, 2010, 22, 1566-1597.	11.1	853
3	Nanomoulding with amorphous metals. Nature, 2009, 457, 868-872.	13.7	664
4	Bulk Metallic Glass: The Smaller the Better. Advanced Materials, 2011, 23, 461-476.	11.1	414
5	Bulk metallic glasses for biomedical applications. Jom, 2009, 61, 21-29.	0.9	273
6	Bulk Metallic Glasses. Physics Today, 2013, 66, 32-37.	0.3	255
7	The superplastic forming of bulk metallic glasses. Jom, 2005, 57, 35-39.	0.9	234
8	Gold based bulk metallic glass. Applied Physics Letters, 2005, 87, 061912.	1.5	223
9	Bulk Metallic Glass Nanowire Architecture for Electrochemical Applications. ACS Nano, 2011, 5, 2979-2983.	7.3	201
10	Combinatorial development of bulk metallic glasses. Nature Materials, 2014, 13, 494-500.	13.3	196
11	On the formability of bulk metallic glass in its supercooled liquid state. Acta Materialia, 2008, 56, 471-478.	3.8	195
12	Theoretical prediction of high melting temperature for a Moâ€“Ruâ€“Taâ€“W HCP multiprincipal element alloy. Npj Computational Materials, 2021, 7, .	3.5	186
13	High-temperature bulk metallic glasses developed by combinatorial methods. Nature, 2019, 569, 99-103.	13.7	185
14	Highly processable bulk metallic glass-forming alloys in the Ptâ€“Coâ€“Niâ€“Cuâ€“P system. Applied Physics Letters, 2004, 84, 3666-3668.	1.5	169
15	Designing tensile ductility in metallic glasses. Nature Communications, 2013, 4, 2158.	5.8	168
16	Phase selection motifs in High Entropy Alloys revealed through combinatorial methods: Large atomic size difference favors BCC over FCC. Acta Materialia, 2019, 166, 677-686.	3.8	158
17	Critical cooling rate and thermal stability of Zrâ€“Tiâ€“Cuâ€“Niâ€“Be alloys. Applied Physics Letters, 2001, 78, 1213-1215.	1.5	157
18	Critical fictive temperature for plasticity in metallic glasses. Nature Communications, 2013, 4, 1536.	5.8	148

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19	Thermoplastic Forming of Bulk Metallic Glassâ€" A Technology for MEMS and Microstructure Fabrication. Journal of Microelectromechanical Systems, 2007, 16, 240-247.	1.7	145
20	Pronounced asymmetry in the crystallization behavior during constant heating and cooling of a bulk metallic glass-forming liquid. Physical Review B, 1999, 60, 11855-11858.	1.1	142
21	Thermoplastic forming of bulk metallic glassâ€"Applications for MEMS and microstructure fabrication. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2007, 449-451, 898-902.	2.6	123
22	Heterogeneous WS_x/WO₃ Thorn-Bush Nanofiber Electrodes for Sodium-Ion Batteries. ACS Nano, 2016, 10, 3257-3266.	7.3	121
23	3D printing metals like thermoplastics: Fused filament fabrication of metallic glasses. Materials Today, 2018, 21, 697-702.	8.3	119
24	Thermoplastic blow molding of metals. Materials Today, 2011, 14, 14-19.	8.3	118
25	Amorphous metallic foam. Applied Physics Letters, 2003, 82, 370-372.	1.5	117
26	Thermodynamics, kinetics, and crystallization of Pt57.3Cu14.6Ni5.3P22.8 bulk metallic glass. Acta Materialia, 2007, 55, 1109-1116.	3.8	117
27	Timescales of crystallization and viscous flow of the bulk glass-forming Zr-Ti-Ni-Cu-Be alloys. Physical Review B, 2003, 67, .	1.1	109
28	Spectral descriptors for bulk metallic glasses based on the thermodynamics of competing crystalline phases. Nature Communications, 2016, 7, 12315.	5.8	104
29	Mechanical glass transition revealed by the fracture toughness of metallic glasses. Nature Communications, 2018, 9, 3271.	5.8	103
30	Blow molding of bulk metallic glass. Scripta Materialia, 2007, 57, 341-344.	2.6	101
31	Functionalization of Metallic Glasses through Hierarchical Patterning. Nano Letters, 2015, 15, 963-968.	4.5	98
32	Timeâ€"temperatureâ€"transformation diagram and microstructures of bulk glass forming Pd40Cu30Ni10P20. Applied Physics Letters, 2000, 77, 681-683.	1.5	96
33	Engineering Cellular Response Using Nanopatterned Bulk Metallic Glass. ACS Nano, 2014, 8, 4366-4375.	7.3	91
34	Crystallization kinetics of the bulk-glass-forming Pd43Ni10Cu27P20 melt. Applied Physics Letters, 2000, 77, 1158-1160.	1.5	89
35	Bulk Metallic Glass Micro Fuel Cell. Small, 2013, 9, 2081-2085.	5.2	85
36	Kinetic and thermodynamic studies of the fragility of bulk metallic glass forming liquids. Journal of Applied Physics, 2010, 108, .	1.1	84

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37	Honeycomb Structures of Bulk Metallic Glasses. Advanced Functional Materials, 2012, 22, 3161-3169.	7.8	79
38	Three-Dimensional Shell Fabrication Using Blow Molding of Bulk Metallic Glass. Journal of Microelectromechanical Systems, 2011, 20, 28-36.	1.7	77
39	Noble metal high entropy alloys. Scripta Materialia, 2017, 126, 29-32.	2.6	76
40	Pdâ€“Niâ€“Cuâ€“P metallic glass nanowires for methanol and ethanol oxidation in alkaline media. International Journal of Hydrogen Energy, 2013, 38, 11248-11255.	3.8	75
41	Joining of bulk metallic glasses in air. Acta Materialia, 2014, 62, 49-57.	3.8	74
42	Spatially heterogeneous dynamics in a metallic glass forming liquid imaged by electron correlation microscopy. Nature Communications, 2018, 9, 1129.	5.8	73
43	Thermoplastic extrusion of bulk metallic glass. Scripta Materialia, 2009, 61, 28-31.	2.6	72
44	Synthesis method for amorphous metallic foam. Journal of Applied Physics, 2004, 96, 7723-7730.	1.1	71
45	Write and erase mechanisms for bulk metallic glass. Applied Physics Letters, 2008, 92, .	1.5	71
46	Guided Evolution of Bulk Metallic Glass Nanostructures: A Platform for Designing 3D Electrocatalytic Surfaces. Advanced Materials, 2016, 28, 1940-1949.	11.1	71
47	3D metallic glass cellular structures. Acta Materialia, 2016, 105, 35-43.	3.8	69
48	The effect of thermal cycling on the fracture toughness of metallic glasses. Acta Materialia, 2020, 184, 100-108.	3.8	68
49	Unusual brittle behavior of Pd-based bulk metallic glass. Scripta Materialia, 2011, 65, 585-587.	2.6	67
50	Microstructures and mechanical properties of tungsten wire/particle reinforced Zr57Nb5Al10Cu15.4Ni12.6 metallic glass matrix composites. Applied Physics Letters, 2002, 80, 1906-1908.	1.5	65
51	Nanoscale size effects in crystallization of metallic glass nanorods. Nature Communications, 2015, 6, 8157.	5.8	65
52	Metallic glass nanostructures of tunable shape and composition. Nature Communications, 2015, 6, 7043.	5.8	64
53	Precious bulk metallic glasses for jewelry applications. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2007, 449-451, 235-238.	2.6	61
54	Flaw tolerance of metallic glasses. Acta Materialia, 2016, 107, 220-228.	3.8	61

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55	Crystal nucleation in deeply undercooled melts of bulk metallic glass forming systems. Acta Materialia, 2002, 50, 89-100.	3.8	58
56	Metastability in high entropy alloys. Scripta Materialia, 2020, 186, 392-400.	2.6	58
57	Combinatorial development of antibacterial Zr-Cu-Al-Ag thin film metallic glasses. Scientific Reports, 2016, 6, 26950.	1.6	57
58	Nanopatterned bulk metallic glass-based biomaterials modulate macrophage polarization. Acta Biomaterialia, 2018, 75, 427-438.	4.1	57
59	Flaw tolerance vs. performance: A tradeoff in metallic glass cellular structures. Acta Materialia, 2014, 73, 259-274.	3.8	55
60	Atomically smooth surfaces through thermoplastic forming of metallic glass. Applied Physics Letters, 2010, 97, .	1.5	54
61	Tunable Hierarchical Metallicâ€Glass Nanostructures. Advanced Functional Materials, 2013, 23, 2708-2713.	7.8	52
62	Strain Rate Induced Crystallization in Bulk Metallic Glass-Forming Liquid. Physical Review Letters, 2006, 96, 075503.	2.9	50
63	Hot rolling of bulk metallic glass in its supercooled liquid region. Scripta Materialia, 2008, 59, 187-190.	2.6	50
64	Combining combinatorial nanocalorimetry and X-ray diffraction techniques to study the effects of composition and quench rate on Auâ€“Cuâ€“Si metallic glasses. Scripta Materialia, 2012, 66, 178-181.	2.6	49
65	Determination of critical cooling rates in metallic glass forming alloy libraries through laser spike annealing. Scientific Reports, 2017, 7, 7155.	1.6	49
66	Critical Crystallization for Embrittlement in Metallic Glasses. Physical Review Letters, 2015, 115, 265502.	2.9	48
67	Palladium nanostructures from multi-component metallic glass. Electrochimica Acta, 2012, 74, 145-150.	2.6	47
68	Metallic Glass Hemispherical Shell Resonators. Journal of Microelectromechanical Systems, 2015, 24, 19-28.	1.7	47
69	Temperature dependence of the thermoplastic formability in bulk metallic glasses. Journal of Applied Physics, 2011, 110, .	1.1	46
70	How Many Bulk Metallic Glasses Are There?. ACS Combinatorial Science, 2017, 19, 687-693.	3.8	46
71	Data-driven discovery of a universal indicator for metallic glass forming ability. Nature Materials, 2022, 21, 165-172.	13.3	46
72	Combinatorial study of thermal stability in ternary nanocrystalline alloys. Acta Materialia, 2020, 188, 40-48.	3.8	45

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73	Controllable nanoimprinting of metallic glasses: effect of pressure and interfacial properties. Nanotechnology, 2013, 24, 105301.	1.3	44
74	Does the fracture toughness of bulk metallic glasses scatter?. Scripta Materialia, 2015, 107, 1-4.	2.6	44
75	Repeated crystallization in undercooled Zr41Ti14Cu12Ni10Be23 liquids. Applied Physics Letters, 2000, 76, 2343-2345.	1.5	43
76	Test sample geometry for fracture toughness measurements of bulk metallic glasses. Acta Materialia, 2018, 145, 477-487.	3.8	43
77	Regulation of Mesenchymal Stem Cell Differentiation by Nanopatterning of Bulk Metallic Glass. Scientific Reports, 2018, 8, 8758.	1.6	41
78	History dependent crystallization of Zr41Ti14Cu12Ni10Be23 melts. Journal of Applied Physics, 2000, 88, 44-48.	1.1	39
79	Effects of cooling rate on particle rearrangement statistics: Rapidly cooled glasses are more ductile and less reversible. Physical Review E, 2017, 95, 022611.	0.8	39
80	Nanofabrication through molding. Progress in Materials Science, 2022, 125, 100891.	16.0	39
81	Processing effects on fracture toughness of metallic glasses. Scripta Materialia, 2017, 130, 152-156.	2.6	38
82	General nanomoulding with bulk metallic glasses. Nanotechnology, 2015, 26, 145301.	1.3	37
83	Characterization of the Interface Between the Bulk Glass Forming Alloy Zr₄₁Ti₁₄Cu₁₂Ni₁₀Be₂₃ with Pure Metals and Ceramics. Journal of Materials Research, 2000, 15, 1617-1621.	1.2	35
84	Growth kinetics of quasicrystalline and polytetrahedral phases of Al-Pd-Mn, Al-Co, and Al-Fe from the undercooled melt. Physical Review B, 2000, 61, 14500-14506.	1.1	34
85	Connection between the packing efficiency of binary hard spheres and the glass-forming ability of bulk metallic glasses. Physical Review E, 2014, 90, 032311.	0.8	32
86	Combinatorial exploration of color in gold-based alloys. Gold Bulletin, 2015, 48, 111-118.	1.1	32
87	Wettability of nanotextured metallic glass surfaces. Scripta Materialia, 2013, 69, 732-735.	2.6	31
88	Tailoring crystallization phases in metallic glass nanorods via nucleus starvation. Nature Communications, 2017, 8, 1980.	5.8	31
89	Solidification of Au-Cu-Si alloys investigated by a combinatorial approach. Journal of Applied Physics, 2012, 111, .	1.1	30
90	Glasses made from pure metals. Nature, 2014, 512, 142-143.	13.7	30

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91	Regulation of cell-cell fusion by nanotopography. Scientific Reports, 2016, 6, 33277.	1.6	30
92	Combinatorial screening of Pd-based quaternary electrocatalysts for oxygen reduction reaction in alkaline media. Journal of Materials Chemistry A, 2017, 5, 67-72.	5.2	30
93	Nanomolding of Crystalline Metals: The Smaller the Easier. Physical Review Letters, 2019, 122, 036101.	2.9	30
94	Supercluster-coupled crystal growth in metallic glass forming liquids. Nature Communications, 2019, 10, 915.	5.8	30
95	Effect of chemical composition on the fracture toughness of bulk metallic glasses. Materialia, 2020, 12, 100828.	1.3	30
96	Extremely low critical cooling rate measured on dispersed Pd43Ni10Cu27P20. Applied Physics Letters, 2002, 80, 2069-2071.	1.5	29
97	In situ measurements of surface tension-driven shape recovery in a metallic glass. Scripta Materialia, 2009, 60, 1145-1148.	2.6	29
98	Size-dependent viscosity in the super-cooled liquid state of a bulk metallic glass. Applied Physics Letters, 2013, 102, 221901.	1.5	29
99	Shear-accelerated crystallization in a supercooled atomic liquid. Physical Review E, 2015, 91, 020301.	0.8	28
100	Atomic imprinting into metallic glasses. Communications Physics, 2018, 1, .	2.0	28
101	Exploring a wider range of Mgâ€“Caâ€“Zn metallic glass as biocompatible alloys using combinatorial sputtering. Chemical Communications, 2017, 53, 8288-8291.	2.2	27
102	Pulsed Laser Beam Welding of Pd43Cu27Ni10P20 Bulk Metallic Glass. Scientific Reports, 2017, 7, 7989.	1.6	26
103	Nanopatterned Bulk Metallic Glass Biosensors. ACS Sensors, 2017, 2, 1779-1787.	4.0	26
104	High quality factor metallic glass cantilevers with tunable mechanical properties. Applied Physics Letters, 2014, 105, .	1.5	25
105	On the origin of multi-component bulk metallic glasses: Atomic size mismatches and de-mixing. Journal of Chemical Physics, 2015, 143, 054501.	1.2	25
106	A novel metallic glass composite synthesis method. Scripta Materialia, 2007, 56, 177-180.	2.6	22
107	Wetting of bulk metallic glass forming liquids on metals and ceramics. Journal of Applied Physics, 2011, 110, .	1.1	22
108	Combinatorial High-Throughput Methods for Designing Hydrogen Evolution Reaction Catalysts. ACS Catalysis, 2022, 12, 3789-3796.	5.5	22

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109	Crystallization of Zr₄₁Ti₁₄Cu₁₂Ni₁₀Be<SUB>23 Materials Transactions, JIM, 2000, 41, 1530-1537.		
110	Effect of the fictive temperature on the modulus, hardness, yield strength, dynamic mechanical and creep response of Zr44Ti11Cu10Ni10Be25 metallic glasses. Journal of Alloys and Compounds, 2020, 819, 152979.	2.8	21
111	General Nanomolding of Ordered Phases. Physical Review Letters, 2020, 124, 036102.	2.9	21
112	Combinatorial Strategies for Synthesis and Characterization of Alloy Microstructures over Large Compositional Ranges. ACS Combinatorial Science, 2016, 18, 630-637.	3.8	20
113	Beyond packing of hard spheres: The effects of core softness, non-additivity, intermediate-range repulsion, and many-body interactions on the glass-forming ability of bulk metallic glasses. Journal of Chemical Physics, 2015, 143, 184502.	1.2	18
114	Accelerated discovery and mechanical property characterization of bioresorbable amorphous alloys in the Mgâ€“Znâ€“Ca and the Feâ€“Mgâ€“Zn systems using high-throughput methods. Journal of Materials Chemistry B, 2019, 7, 5392-5400.	2.9	18
115	Thermomechanical Behavior of Molded Metallic Glass Nanowires. Scientific Reports, 2016, 6, 19530.	1.6	17
116	Formation and stability of complex metallic phases including quasicrystals explored through combinatorial methods. Scientific Reports, 2019, 9, 7136.	1.6	17
117	Crossover of Microscopic Dynamics in Metallic Supercooled Liquid Observed by NMR. Physical Review Letters, 2003, 91, 265502.	2.9	16
118	Expansion evolution during foaming of amorphous metals. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2007, 449-451, 863-867.	2.6	16
119	Multiscale patterning of a metallic glass using sacrificial imprint lithography. Microsystems and Nanoengineering, 2015, 1, .	3.4	16
120	Structural relaxation kinetics defines embrittlement in metallic glasses. Scripta Materialia, 2018, 149, 21-25.	2.6	16
121	Enhancing ductility in bulk metallic glasses by straining during cooling. Communications Materials, 2021, 2, .	2.9	16
122	Thermo-plastic expansion of amorphous metallic foam. Journal of Alloys and Compounds, 2007, 434-435, 92-96.	2.8	15
123	The glass-forming ability of model metal-metalloid alloys. Journal of Chemical Physics, 2015, 142, 104504.	1.2	15
124	Fast Surface Dynamics on a Metallic Glass Nanowire. ACS Nano, 2021, 15, 11309-11316.	7.3	15
125	Electrical resistivity as a descriptor for classification of amorphous versus crystalline phases of alloys. Acta Materialia, 2022, 231, 117861.	3.8	15
126	Finite size effects in the crystallization of a bulk metallic glass. Applied Physics Letters, 2013, 103, .	1.5	14

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127	Stability of ternary nanocrystalline alloys in the Ptâ€“Pdâ€“Au system. Materialia, 2019, 8, 100449.	1.3	14
128	Nanomanufacturing of Non-Noble Amorphous Alloys for Electrocatalysis. ACS Applied Energy Materials, 2020, 3, 12099-12107.	2.5	14
129	Compositional dependence of the fragility in metallic glass forming liquids. Nature Communications, 2022, 13, .	5.8	14
130	Enhanced temperature uniformity by tetrahedral laser heating. Review of Scientific Instruments, 2004, 75, 4523-4527.	0.6	13
131	Protocols for multi-step thermoplastic processing of metallic glasses. Scripta Materialia, 2015, 104, 56-59.	2.6	12
132	Asymmetric crystallization during cooling and heating in model glass-forming systems. Physical Review E, 2015, 91, 032309.	0.8	12
133	Hierarchical Micro- and Nanopatterning of Metallic Glass to Engineer Cellular Responses. ACS Applied Bio Materials, 2018, 1, 51-58.	2.3	12
134	Atomic imprinting in the absence of an intrinsic length scale. APL Materials, 2020, 8, .	2.2	12
135	Topology-optimized bulk metallic glass cellular materials for energy absorption. Scripta Materialia, 2022, 208, 114361.	2.6	12
136	Unleashing nanofabrication through thermomechanical nanomolding. Science Advances, 2021, 7, eabi4567.	4.7	12
137	Calculating glass-forming ability in absence of key kinetic and thermodynamic parameters. Applied Physics Letters, 2010, 97, .	1.5	11
138	Nonuniform friction-area dependency for antimony oxide surfaces sliding on graphite. Physical Review B, 2013, 88, .	1.1	11
139	Applications and limitations of electron correlation microscopy to study relaxation dynamics in supercooled liquids. Ultramicroscopy, 2017, 178, 125-130.	0.8	11
140	Combinatorial temperature resistance sensors for the analysis of phase transformations demonstrated for metallic glasses. Acta Materialia, 2018, 156, 486-495.	3.8	11
141	Nonaffine Strains Control Ductility of Metallic Glasses. Physical Review Letters, 2022, 128, 155501.	2.9	11
142	Particle rearrangement and softening contributions to the nonlinear mechanical response of glasses. Physical Review E, 2017, 96, 032602.	0.8	10
143	Joining mechanism of bulk metallic glasses in their supercooled liquid region. Journal of Materials Processing Technology, 2020, 279, 116583.	3.1	10
144	Measuring Demisability of Bulk Metallic Glasses for Potential Satellite Applications through Ablation Experiments. Advanced Engineering Materials, 2020, 22, 2000708.	1.6	10

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145	Atomic-scale homogeneous plastic flow beyond near-theoretical yield stress in a metallic glass. Communications Materials, 2021, 2, .	2.9	10
146	Combinatorial measurement of critical cooling rates in aluminum-base metallic glass forming alloys. Scientific Reports, 2021, 11, 3903.	1.6	10
147	Tuning the glass-forming ability of metallic glasses through energetic frustration. Physical Review Materials, 2019, 3, .	0.9	10
148	Single-Crystal Nanostructure Arrays Forming Epitaxially through Thermomechanical Nanomolding. Nano Letters, 2021, 21, 10054-10061.	4.5	10
149	Glass Forming Ability in the Zr-Nb-Ni-Cu-Al Bulk Metallic Glasses. Journal of Metastable and Nanocrystalline Materials, 2000, 8, 103-108.	0.1	9
150	Fast Screening of Corrosion Trends in Metallic Glasses. ACS Combinatorial Science, 2019, 21, 666-674.	3.8	9
151	Overcoming geometric limitations in metallic glasses through stretch blow molding. Applied Materials Today, 2020, 19, 100567.	2.3	9
152	Revealing the relationships between alloy structure, composition and plastic deformation in a ternary alloy system by a combinatorial approach. Journal of Materials Science and Technology, 2021, 84, 97-104.	5.6	9
153	Heterogeneous influences on the crystallization of Pd₄₃Ni₁₀Cu₂₇P₂₀. Philosophical Magazine A: Physics of Condensed Matter, Structure, Defects and Mechanical Properties, 2002, 82, 1207-1217.	0.7	8
154	Relaxation and crystallization studied by observing the surface morphology evolution of atomically flat Pt57.5Cu14.7Ni5.3P22.5 upon annealing. Scripta Materialia, 2020, 182, 32-37.	2.6	8
155	Biocompatibility of platinum-based bulk metallic glass in orthopedic applications. Biomedical Materials (Bristol), 2021, 16, 045018.	1.7	8
156	Nanomolding of Gold and Goldâ€“Silicon Heterostructures at Room Temperature. ACS Nano, 2021, 15, 14275-14284.	7.3	8
157	Intrinsic dissipation mechanisms in metallic glass resonators. Journal of Chemical Physics, 2019, 151, 144506.	1.2	7
158	Optimum Soft Magnetic Properties of the FeSiBNbCu Alloy Achieved by Heat Treatment and Tailoring B/Si Ratio. Metals, 2020, 10, 1297.	1.0	7
159	Correlation symmetry analysis of electron nanodiffraction from amorphous materials. Ultramicroscopy, 2022, 232, 113405.	0.8	7
160	Crystallization of Supercooled Zr41Ti14Cu12Ni10B23 Melts During Continuous Heating and Cooling. Materials Research Society Symposia Proceedings, 1998, 554, 263.	0.1	6
161	Criticality in Bulk Metallic Glass Constituent Elements. Jom, 2017, 69, 2156-2163.	0.9	6
162	Atomic-Scale Imprinting by Sputter Deposition of Amorphous Metallic Films. ACS Applied Materials & Interfaces, 2020, 12, 52908-52914.	4.0	6

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163	Thermodynamics of The Pd43Ni10Cu27P20 Bulk Metallic Glass Forming Alloy. Materials Research Society Symposia Proceedings, 2003, 806, 238.	0.1	5
164	Dispersion technique studies on Pd43Ni10Cu27P20. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2004, 375-377, 781-784.	2.6	5
165	Minimizing convection effects to measure diffusion in liquid droplets during high-temperature electrostatic levitation. Review of Scientific Instruments, 2005, 76, 033909.	0.6	5
166	Glass formation in binary alloys with different atomic symmetries. Physical Review Materials, 2020, 4, .	0.9	5
167	Critical Cooling Rate and Thermal Stability in Zr-Ti-Cu-Ni-Be Bulk Metallic Glasses. Materials Research Society Symposia Proceedings, 2000, 644, 461.	0.1	4
168	Dependence of Modulus and Hardness on the Annealing Conditions of Pt57.5Cu14.7Ni5.3P22.5 Bulk Metallic Glass. MRS Advances, 2019, 4, 73-79.	0.5	4
169	Static-state particle fabrication via rapid vitrification of a thixotropic medium. Nature Communications, 2021, 12, 3768.	5.8	4
170	Fabrication of 3D metallic glass architectures by a mold-strain-set method. Materials and Design, 2022, 218, 110668.	3.3	4
171	Glass-forming ability of binary Lennard-Jones systems. Physical Review Materials, 2022, 6, .	0.9	3
172	Crystallization of Zr₄₁Ti₁₄Cu₁₂Ni₁₀Be₂₃ Melts. Journal of Metastable and Nanocrystalline Materials, 2000, 8, 167-172.	0.1	2
173	Crystallization of Bulk Glass Forming Pd-Based Melts. Journal of Metastable and Nanocrystalline Materials, 2001, 10, 79-84.	0.1	2
174	Microfabrication: Honeycomb Structures of Bulk Metallic Glasses (Adv. Funct. Mater. 15/2012). Advanced Functional Materials, 2012, 22, 3160-3160.	7.8	2
175	Metallicâ€Glass Nanostructures: Tunable Hierarchical Metallicâ€Glass Nanostructures (Adv. Funct.) Tj ETQq1 1 0.784314 rgBT /Overlock	7.8	2
176	Three-Dimensional Compatible Sacrificial Nanoimprint Lithography for Tuning the Wettability of Thermoplastic Materials. Journal of Micro and Nano-Manufacturing, 2018, 6, .	0.8	2
177	Extremely Low Critical Cooling Rate for Pd₄₃Ni₁₀Cu₂₇P₂₀. Journal of Metastable and Nanocrystalline Materials, 2002, 13, 111-116.	0.1	1
178	Fuel Cells: Bulk Metallic Glass Micro Fuel Cell (Small 12/2013). Small, 2013, 9, 2026-2026.	5.2	1
179	Measured optical constants of Pd77.5Cu6Si16.5 bulk metallic glass. Optical Materials: X, 2019, 1, 100012.	0.3	1
180	Angstrom-scale replication of surfaces with crystallized bulk metallic glasses. Materials Today Nano, 2021, 16, 100145.	2.3	1

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181	Structural and Phase Transformations During Crystallization of Pd43Ni10Cu27P20 Metallic Glass. Materials Research Society Symposia Proceedings, 2000, 644, 1271.	0.1	0
182	Microstructures and properties of the tungsten wire/particle reinforced Zr57Nb5Al10Cu15.4Ni12.6 metallic glass composites. Materials Research Society Symposia Proceedings, 2002, 754, 1.	0.1	0
183	Computational Nanocharacterization for Combinatorially Developed Bulk Metallic Glass. International Journal of High Speed Electronics and Systems, 2015, 24, 1520012.	0.3	0
184	Electrocatalysts: Guided Evolution of Bulk Metallic Glass Nanostructures: A Platform for Designing 3D Electrocatalytic Surfaces (Adv. Mater. 10/2016). Advanced Materials, 2016, 28, 1902-1902.	11.1	0
185	Atomic-scale Relaxation Dynamics in the Supercooled Liquid State of a Metallic Glass Nanowire by Electron Correlation Microscopy. Microscopy and Microanalysis, 2017, 23, 960-961.	0.2	0
186	Supercluster-Coupled Crystal Growth in Metallic Glass Forming Liquids. Microscopy and Microanalysis, 2019, 25, 1410-1411.	0.2	0