

# Yong Yang

## List of Publications by Citations

**Source:** <https://exaly.com/author-pdf/2629912/yong-yang-publications-by-citations.pdf>

**Version:** 2024-04-18

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

178  
papers

8,051  
citations

42  
h-index

85  
g-index

184  
ext. papers

10,035  
ext. citations

7  
avg, IF

6.5  
L-index

#	Paper	IF	Citations
178	High-entropy alloy: challenges and prospects. <i>Materials Today</i> , <b>2016</b> , 19, 349-362	21.8	979
177	Relative effects of enthalpy and entropy on the phase stability of equiatomic high-entropy alloys. <i>Acta Materialia</i> , <b>2013</b> , 61, 2628-2638	8.4	774
176	Atomistic free-volume zones and inelastic deformation of metallic glasses. <i>Nature Materials</i> , <b>2010</b> , 9, 619-23	27	329
175	Heterogeneous precipitation behavior and stacking-fault-mediated deformation in a CoCrNi-based medium-entropy alloy. <i>Acta Materialia</i> , <b>2017</b> , 138, 72-82	8.4	286
174	Complex-Surfactant-Assisted Hydrothermal Route to Ferromagnetic Nickel Nanobelts. <i>Advanced Materials</i> , <b>2003</b> , 15, 1946-1948	24	271
173	Structural heterogeneities and mechanical behavior of amorphous alloys. <i>Progress in Materials Science</i> , <b>2019</b> , 104, 250-329	42.2	248
172	Thin film metallic glasses: Unique properties and potential applications. <i>Thin Solid Films</i> , <b>2012</b> , 520, 5097-5122	24	248
171	Atomic-size effect and solid solubility of multicomponent alloys. <i>Scripta Materialia</i> , <b>2015</b> , 94, 28-31	5.6	226
170	Design of high entropy alloys: A single-parameter thermodynamic rule. <i>Scripta Materialia</i> , <b>2015</b> , 104, 53-55	5.6	142
169	High Sensitivity, Wearable, Piezoresistive Pressure Sensors Based on Irregular Microhump Structures and Its Applications in Body Motion Sensing. <i>Small</i> , <b>2016</b> , 12, 3827-36	11	142
168	Matrix-assisted catalytic printing for the fabrication of multiscale, flexible, foldable, and stretchable metal conductors. <i>Advanced Materials</i> , <b>2013</b> , 25, 3343-50	24	137
167	Three-dimensional compressible and stretchable conductive composites. <i>Advanced Materials</i> , <b>2014</b> , 26, 810-5	24	134
166	A Highly Efficient and Self-Stabilizing Metallic-Glass Catalyst for Electrochemical Hydrogen Generation. <i>Advanced Materials</i> , <b>2016</b> , 28, 10293-10297	24	131
165	Unusual fast secondary relaxation in metallic glass. <i>Nature Communications</i> , <b>2015</b> , 6, 7876	17.4	123
164	The dependence of shear modulus on dynamic relaxation and evolution of local structural heterogeneity in a metallic glass. <i>Acta Materialia</i> , <b>2013</b> , 61, 4329-4338	8.4	118
163	A geometric model for intrinsic residual strain and phase stability in high entropy alloys. <i>Acta Materialia</i> , <b>2015</b> , 94, 152-161	8.4	111
162	Atomic-size and lattice-distortion effects in newly developed high-entropy alloys with multiple principal elements. <i>Intermetallics</i> , <b>2015</b> , 64, 63-69	3.5	89

161	Development of high-strength Co-free high-entropy alloys hardened by nanosized precipitates. <i>Scripta Materialia</i> , <b>2018</b> , 148, 51-55	5.6	84
160	Universal secondary relaxation and unusual brittle-to-ductile transition in metallic glasses. <i>Materials Today</i> , <b>2017</b> , 20, 293-300	21.8	83
159	Fractal growth of the dense-packing phase in annealed metallic glass imaged by high-resolution atomic force microscopy. <i>Acta Materialia</i> , <b>2012</b> , 60, 5260-5272	8.4	83
158	On the source of plastic flow in metallic glasses: Concepts and models. <i>Intermetallics</i> , <b>2015</b> , 67, 81-86	3.5	82
157	Biomimicking Topographic Elastomeric Petals (E-Petals) for Omnidirectional Stretchable and Printable Electronics. <i>Advanced Science</i> , <b>2015</b> , 2, 1400021	13.6	79
156	Machine learning guided appraisal and exploration of phase design for high entropy alloys. <i>Npj Computational Materials</i> , <b>2019</b> , 5,	10.9	78
155	Atomic-scale structural evolution and stability of supercooled liquid of a Zr-based bulk metallic glass. <i>Physical Review Letters</i> , <b>2011</b> , 106, 215505	7.4	74
154	The generalized thermodynamic rule for phase selection in multicomponent alloys. <i>Intermetallics</i> , <b>2015</b> , 59, 75-80	3.5	72
153	Size effect on stability of shear-band propagation in bulk metallic glasses: an overview. <i>Journal of Materials Science</i> , <b>2012</b> , 47, 55-67	4.3	71
152	Corrosion resistant nanostructured eutectic high entropy alloy. <i>Corrosion Science</i> , <b>2020</b> , 164, 108315	6.8	65
151	Effects of specimen geometry and base material on the mechanical behavior of focused-ion-beam-fabricated metallic-glass micropillars. <i>Acta Materialia</i> , <b>2009</b> , 57, 1613-1623	8.4	62
150	High Entropy Intermetallic Oxide Core Shell Nanostructure as Superb Oxygen Evolution Reaction Catalyst. <i>Advanced Sustainable Systems</i> , <b>2020</b> , 4, 1900105	5.9	61
149	Superior tensile ductility in bulk metallic glass with gradient amorphous structure. <i>Scientific Reports</i> , <b>2014</b> , 4, 4757	4.9	59
148	Atomic-scale distorted lattice in chemically disordered equimolar complex alloys. <i>Acta Materialia</i> , <b>2018</b> , 150, 182-194	8.4	59
147	Micromechanical characterization of casting-induced inhomogeneity in an Al <sub>0.8</sub> CoCrCuFeNi high-entropy alloy. <i>Scripta Materialia</i> , <b>2011</b> , 64, 868-871	5.6	57
146	Yielding and shear banding of metallic glasses. <i>Acta Materialia</i> , <b>2013</b> , 61, 5928-5936	8.4	52
145	Mechanisms of fatigue in LIGA Ni MEMS thin films. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2007</b> , 444, 39-50	5.3	52
144	Superb strength and high plasticity in laves phase rich eutectic medium-entropy-alloy nanocomposites. <i>International Journal of Plasticity</i> , <b>2018</b> , 106, 57-72	7.6	50

143	Transformation-mediated plasticity in CuZr based metallic glass composites: A quantitative mechanistic understanding. <i>International Journal of Plasticity</i> , <b>2016</b> , 85, 34-51	7.6	49
142	On Lattice Distortion in High Entropy Alloys. <i>Frontiers in Materials</i> , <b>2018</b> , 5,	4	49
141	The atomic-scale mechanism for the enhanced glass-forming-ability of a Cu-Zr based bulk metallic glass with minor element additions. <i>Scientific Reports</i> , <b>2014</b> , 4, 4648	4.9	47
140	Effect of size and base-element on the jerky flow dynamics in metallic glass. <i>Acta Materialia</i> , <b>2014</b> , 63, 180-190	8.4	47
139	Study of the intrinsic ductile to brittle transition mechanism of metallic glasses. <i>Acta Materialia</i> , <b>2009</b> , 57, 6037-6046	8.4	45
138	Fast surface dynamics enabled cold joining of metallic glasses. <i>Science Advances</i> , <b>2019</b> , 5, eaax7256	14.3	44
137	Extraction of bulk metallic-glass yield strengths using tapered micropillars in micro-compression experiments. <i>Intermetallics</i> , <b>2010</b> , 18, 385-393	3.5	43
136	Amorphous physics and materials: Secondary relaxation and dynamic heterogeneity in metallic glasses: A brief review. <i>Chinese Physics B</i> , <b>2017</b> , 26, 016402	1.2	40
135	Nanoindentation characterized initial creep behavior of a high-entropy-based alloy CoFeNi. <i>Intermetallics</i> , <b>2014</b> , 53, 183-186	3.5	40
134	Revealing the structural heterogeneity of metallic glass: Mechanical spectroscopy and nanoindentation experiments. <i>International Journal of Mechanical Sciences</i> , <b>2021</b> , 201, 106469	5.5	40
133	Ultrathin two-dimensional metallic nanocrystals for renewable energy electrocatalysis. <i>Materials Today</i> , <b>2019</b> , 23, 45-56	21.8	39
132	Structure Heterogeneity in Metallic Glass: Modeling and Experiment. <i>Journal of Materials Science and Technology</i> , <b>2014</b> , 30, 560-565	9.1	39
131	Amorphous/nanocrystalline alloys: fabrication, properties, and applications. <i>Materials Today Advances</i> , <b>2019</b> , 4, 100027	7.4	39
130	Saturated magnetization and glass forming ability of soft magnetic Fe-based metallic glasses. <i>Intermetallics</i> , <b>2017</b> , 84, 74-81	3.5	38
129	Hardness, yield strength, and plastic flow in thin film metallic-glass. <i>Journal of Applied Physics</i> , <b>2012</b> , 112, 053516	2.5	38
128	In situ mechanical characterization of CoCrCuFeNi high-entropy alloy micro/nano-pillars for their size-dependent mechanical behavior. <i>Materials Research Express</i> , <b>2016</b> , 3, 094002	1.7	38
127	Pressure effects on structure and dynamics of metallic glass-forming liquid. <i>Journal of Chemical Physics</i> , <b>2017</b> , 146, 024507	3.9	37
126	Design of High-Entropy Alloy: A Perspective from Nonideal Mixing. <i>Jom</i> , <b>2017</b> , 69, 2092-2098	2.1	36

125	Polymer pen lithography using dual-elastomer tip arrays. <i>Small</i> , <b>2012</b> , 8, 2664-9	11	36
124	Elemental segregation in solid-solution high-entropy alloys: Experiments and modeling. <i>Journal of Alloys and Compounds</i> , <b>2016</b> , 681, 167-174	5.7	34
123	Softening-induced plastic flow instability and indentation size effect in metallic glass. <i>Journal of the Mechanics and Physics of Solids</i> , <b>2015</b> , 77, 70-85	5	33
122	Mechanical Switching of Nanoscale Multiferroic Phase Boundaries. <i>Advanced Functional Materials</i> , <b>2015</b> , 25, 3405-3413	15.6	33
121	Aerosol Synthesis of High Entropy Alloy Nanoparticles. <i>Langmuir</i> , <b>2020</b> , 36, 1985-1992	4	32
120	Characteristic length scales governing plasticity/brittleness of bulk metallic glasses at ambient temperature. <i>Applied Physics Letters</i> , <b>2010</b> , 96, 011905	3.4	31
119	Fatigue and Fracture of a Bulk Nanocrystalline NiFe Alloy. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , <b>2008</b> , 39, 1145-1156	2.3	31
118	Ultrafast synthesis of entropy-stabilized oxide at room temperature. <i>Journal of the European Ceramic Society</i> , <b>2020</b> , 40, 2504-2508	6	31
117	Cooling rate effect on Young's modulus and hardness of a Zr-based metallic glass. <i>Journal of Alloys and Compounds</i> , <b>2011</b> , 509, 3269-3273	5.7	30
116	Correlation between local elastic heterogeneities and overall elastic properties in metallic glasses. <i>Acta Materialia</i> , <b>2016</b> , 121, 266-276	8.4	30
115	Intrinsic versus extrinsic effects on serrated flow of bulk metallic glasses. <i>Intermetallics</i> , <b>2015</b> , 66, 31-39	3.5	29
114	Unveiling atomic-scale features of inherent heterogeneity in metallic glass by molecular dynamics simulations. <i>Physical Review B</i> , <b>2016</b> , 93,	3.3	29
113	Effect of surface modifications on shear banding and plasticity in metallic glasses: An overview. <i>Progress in Natural Science: Materials International</i> , <b>2012</b> , 22, 355-363	3.6	29
112	Structural inhomogeneity and anelastic deformation in metallic glasses revealed by spherical nanoindentation. <i>Applied Physics Letters</i> , <b>2010</b> , 97, 261905	3.4	28
111	Contact deformation and cracking of zirconia/cement/foundation dental multilayers. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2008</b> , 485, 517-523	5.3	27
110	The configurational entropy of mixing of metastable random solid solution in complex multicomponent alloys. <i>Journal of Applied Physics</i> , <b>2016</b> , 120, 154902	2.5	27
109	High performance Fe-based nanocrystalline alloys with excellent thermal stability. <i>Journal of Alloys and Compounds</i> , <b>2019</b> , 776, 606-613	5.7	27
108	Abnormal internal friction in the in-situ Ti <sub>60</sub> Zr <sub>15</sub> V <sub>10</sub> Cu <sub>5</sub> Be <sub>10</sub> metallic glass matrix composite. <i>Journal of Alloys and Compounds</i> , <b>2017</b> , 724, 921-931	5.7	26

107	Formation of Random Solid Solution in Multicomponent Alloys: from Hume-Rothery Rules to Entropic Stabilization. <i>Journal of Phase Equilibria and Diffusion</i> , <b>2017</b> , 38, 416-425	1	25
106	Exploring the design of eutectic or near-eutectic multicomponent alloys: From binary to high entropy alloys. <i>Science China Technological Sciences</i> , <b>2018</b> , 61, 159-167	3.5	25
105	Micromechanical mechanism of yielding in dual nano-phase metallic glass. <i>Scripta Materialia</i> , <b>2018</b> , 154, 186-191	5.6	25
104	Configuration correlation governs slow dynamics of supercooled metallic liquids. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2018</b> , 115, 6375-6380	11.5	24
103	Metallic glasses: Gaining plasticity for microsystems. <i>Jom</i> , <b>2010</b> , 62, 93-98	2.1	24
102	Phase field study of the copper precipitation in Fe-Cu alloy. <i>Acta Materialia</i> , <b>2019</b> , 166, 560-571	8.4	24
101	Size effect in microcompression of epoxy micropillars. <i>Journal of Materials Science</i> , <b>2012</b> , 47, 6047-6055	4.3	23
100	Machine learning-based glass formation prediction in multicomponent alloys. <i>Acta Materialia</i> , <b>2020</b> , 201, 182-190	8.4	23
99	Atomistic mechanism of elastic softening in metallic glass under cyclic loading revealed by molecular dynamics simulations. <i>Intermetallics</i> , <b>2016</b> , 68, 5-10	3.5	22
98	Energy-Based Modeling Approach for Debonding of FRP Plate from Concrete Substrate. <i>Journal of Engineering Mechanics - ASCE</i> , <b>2006</b> , 132, 583-593	2.4	22
97	Oxidation Studies of High-Entropy Alloy Nanoparticles. <i>ACS Nano</i> , <b>2020</b> , 14, 15131-15143	16.7	22
96	Hierarchical Eutectic Structure Enabling Superior Fracture Toughness and Superb Strength in CoCrFeNiNb <sub>0.5</sub> Eutectic High Entropy Alloy at Room Temperature. <i>Advanced Engineering Materials</i> , <b>2019</b> , 21, 1801060	3.5	21
95	Interface modulation of twinned PtFe nanoplates branched 3D architecture for oxygen reduction catalysis. <i>Science Bulletin</i> , <b>2020</b> , 65, 97-104	10.6	21
94	A mean-field model for anelastic deformation in metallic-glasses. <i>Intermetallics</i> , <b>2012</b> , 26, 86-90	3.5	20
93	Stability and synthesis of 2D metals and alloys: a review. <i>Materials Today Advances</i> , <b>2020</b> , 8, 100092	7.4	19
92	On the use of atomic force microscopy for structural mapping of metallic-glass thin films. <i>Intermetallics</i> , <b>2014</b> , 44, 121-127	3.5	19
91	The stochastic transition from size dependent to size independent yield strength in metallic glasses. <i>Journal of the Mechanics and Physics of Solids</i> , <b>2017</b> , 109, 200-216	5	19
90	Mutual interaction of shear bands in metallic glasses. <i>Intermetallics</i> , <b>2017</b> , 85, 48-53	3.5	18

89	Structural Signature of Plasticity Unveiled by Nano-Scale Viscoelastic Contact in a Metallic Glass. <i>Scientific Reports</i> , <b>2016</b> , 6, 29357	4.9	18
88	The Critical Criterion on Runaway Shear Banding in Metallic Glasses. <i>Scientific Reports</i> , <b>2016</b> , 6, 21388	4.9	17
87	Fast secondary relaxation and plasticity initiation in metallic glasses. <i>National Science Review</i> , <b>2018</b> , 5, 616-618	10.8	16
86	The general effect of atomic size misfit on glass formation in conventional and high-entropy alloys. <i>Intermetallics</i> , <b>2016</b> , 78, 30-41	3.5	16
85	Hand in hand evolution of boson heat capacity anomaly and slow relaxation in La-based metallic glasses. <i>Acta Materialia</i> , <b>2016</b> , 110, 73-83	8.4	16
84	Density fluctuations with fractal order in metallic glasses detected by synchrotron X-ray nano-computed tomography. <i>Acta Materialia</i> , <b>2018</b> , 155, 69-79	8.4	16
83	Nanoscale Structural Evolution and Anomalous Mechanical Response of Nanoglasses by Cryogenic Thermal Cycling. <i>Nano Letters</i> , <b>2018</b> , 18, 4188-4194	11.5	15
82	Delayed shear banding and evolution of local plastic flow in a metallic glass. <i>Applied Physics Letters</i> , <b>2014</b> , 105, 091904	3.4	15
81	Deformation and fracture in micro-tensile tests of freestanding electrodeposited nickel thin films. <i>Scripta Materialia</i> , <b>2008</b> , 58, 1062-1065	5.6	15
80	Nanoscale and submicron fatigue crack growth in nickel microbeams. <i>Acta Materialia</i> , <b>2007</b> , 55, 4305-4315	8.4	15
79	Mixed mode fracture of dental interfaces. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2008</b> , 488, 381-388	5.3	14
78	Fracture of sigma phase containing CoCrNiMo medium entropy alloys. <i>Journal of Alloys and Compounds</i> , <b>2020</b> , 846, 156189	5.7	14
77	Thermodynamic scaling of glassy dynamics and dynamic heterogeneities in metallic glass-forming liquid. <i>Journal of Chemical Physics</i> , <b>2016</b> , 145, 104503	3.9	14
76	Evading brittle fracture in submicron-sized high entropy intermetallics in dual-phase eutectic microstructure. <i>Scripta Materialia</i> , <b>2020</b> , 187, 280-284	5.6	13
75	Probing stochastic nano-scale inelastic events in stressed amorphous metal. <i>Scientific Reports</i> , <b>2014</b> , 4, 6699	4.9	13
74	Shear-banding Induced Indentation Size Effect in Metallic Glasses. <i>Scientific Reports</i> , <b>2016</b> , 6, 28523	4.9	12
73	Revelation of the effect of structural heterogeneity on microplasticity in bulk metallic-glasses. <i>Journal of Materials Research</i> , <b>2010</b> , 25, 563-575	2.5	12
72	Size-affected shear-band speed in bulk metallic glasses. <i>Applied Physics Letters</i> , <b>2011</b> , 99, 171904	3.4	12



71	In-situ atomic force microscopy observation revealing gel-like plasticity on a metallic glass surface. <i>Journal of Applied Physics</i> , <b>2017</b> , 121, 095304	2.5	11
70	Replication of nano/micro-scale features using bulk metallic glass mold prepared by femtosecond laser and imprint processes. <i>Journal of Micromechanics and Microengineering</i> , <b>2013</b> , 23, 035030	2	11
69	Can Young's modulus and hardness of wire structural materials be directly measured using nanoindentation?. <i>Journal of Materials Research</i> , <b>2009</b> , 24, 1054-1058	2.5	11
68	Structural heterogeneity and deformation rheology in metallic glasses. <i>Science China Technological Sciences</i> , <b>2015</b> , 58, 47-55	3.5	10
67	Revealing the ultra-low-temperature relaxation peak in a model metallic glass. <i>Acta Materialia</i> , <b>2020</b> , 195, 611-620	8.4	10
66	The controlled large-area synthesis of two dimensional metals. <i>Materials Today</i> , <b>2020</b> , 36, 30-39	21.8	10
65	Rate Dependence of Serrated Flow and Its Effect on Shear Stability of Bulk Metallic Glasses. <i>Journal of Iron and Steel Research International</i> , <b>2016</b> , 23, 24-30	1.2	10
64	Softness as the structural origin of plasticity in disordered solids: a quantitative insight from machine learning. <i>Science China Materials</i> , <b>2019</b> , 62, 154-160	7.1	10
63	Facile and generalized encapsulations of inorganic nanocrystals with nitrogen-doped carbonaceous coating for multifunctionality. <i>Nanoscale</i> , <b>2015</b> , 7, 3254-62	7.7	10
62	Origin of Shear Stability and Compressive Ductility Enhancement of Metallic Glasses by Metal Coating. <i>Scientific Reports</i> , <b>2016</b> , 6, 27852	4.9	10
61	Understanding chemical short-range ordering/demixing coupled with lattice distortion in solid solution high entropy alloys. <i>Acta Materialia</i> , <b>2021</b> , 216, 117140	8.4	10
60	Resonance ultrasonic actuation and local structural rejuvenation in metallic glasses. <i>Physical Review B</i> , <b>2017</b> , 95,	3.3	9
59	Origin of yielding in metallic glass: Stress-induced flow. <i>Applied Physics Letters</i> , <b>2014</b> , 104, 251901	3.4	9
58	Dual character of stable shear banding in bulk metallic glasses. <i>Intermetallics</i> , <b>2011</b> , 19, 1005-1013	3.5	9
57	Fatigue of LIGA Ni Micro-Electro-Mechanical System Thin Films. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , <b>2007</b> , 38, 2340-2348	2.3	9
56	A high-entropy alloy as very low melting point solder for advanced electronic packaging. <i>Materials Today Advances</i> , <b>2020</b> , 7, 100101	7.4	9
55	Synthesis of Two-dimensional Metallic Nanosheets: From Elemental Metals to Chemically Complex Alloys. <i>ChemNanoMat</i> , <b>2020</b> , 6, 1683-1711	3.5	9
54	Delayed plasticity during nanoindentation of single-phase CoCrFeMnNi high-entropy alloy. <i>Materials Research Letters</i> , <b>2017</b> , 5, 300-305	7.4	8



53	Stress induced atomic-scale damage and relaxation in bulk metallic glasses. <i>Journal of Alloys and Compounds</i> , <b>2015</b> , 652, 185-190	5.7	8
52	Ultrasonic plasticity of metallic glass near room temperature. <i>Applied Materials Today</i> , <b>2020</b> , 21, 100866	6.6	8
51	Chemical fluctuation enabling strength-plasticity synergy in metastable single-phase high entropy alloy film with gigapascal yield strength. <i>International Journal of Plasticity</i> , <b>2021</b> , 139, 102951	7.6	8
50	Heterostructured crystallization mechanism and its effect on enlarging the processing window of Fe-based nanocrystalline alloys. <i>Journal of Materials Science and Technology</i> , <b>2021</b> , 68, 53-60	9.1	8
49	Revealing High-Temperature Reduction Dynamics of High-Entropy Alloy Nanoparticles Transmission Electron Microscopy. <i>Nano Letters</i> , <b>2021</b> , 21, 1742-1748	11.5	8
48	Common mechanism for controlling polymorph selection during crystallization in supercooled metallic liquids. <i>Acta Materialia</i> , <b>2018</b> , 161, 367-373	8.4	8
47	The breakdown of strength size scaling in spherical nanoindentation and microcompression of metallic glasses. <i>Scripta Materialia</i> , <b>2017</b> , 130, 283-287	5.6	7
46	Understanding yielding and the unusual ductile-brittle-ductile transition in Fe-based amorphous nanocrystalline alloy: A combined micromechanical and thermodynamic study. <i>Journal of the Mechanics and Physics of Solids</i> , <b>2019</b> , 132, 103681	5	7
45	The kinetic origin of delayed yielding in metallic glasses. <i>Applied Physics Letters</i> , <b>2016</b> , 108, 251901	3.4	7
44	Fracto-emission in lanthanum-based metallic glass microwires under quasi-static tensile loading. <i>Journal of Applied Physics</i> , <b>2016</b> , 119, 155102	2.5	7
43	In Situ Micromechanical Characterization of Metallic Glass Microwires under Torsional Loading. <i>Experimental Mechanics</i> , <b>2019</b> , 59, 361-368	2.6	6
42	Critical Shear Offset of Fracture in a Zr-based Metallic Glass. <i>Journal of Iron and Steel Research International</i> , <b>2016</b> , 23, 53-56	1.2	6
41	Bio-mimic Ti <sub>3</sub> Al composite with hierarchical Brick-and-Mortar <sup>II</sup> microstructure. <i>Materialia</i> , <b>2019</b> , 8, 100463	3.2	6
40	Role of oxide thickening in fatigue crack initiation in LIGA nickel MEMS thin films. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2013</b> , 561, 434-440	5.3	6
39	Low-Cost Scalable Production of Freestanding Two-Dimensional Metallic Nanosheets by Polymer Surface Buckling Enabled Exfoliation. <i>Cell Reports Physical Science</i> , <b>2020</b> , 1, 100235	6.1	6
38	The thermal history effect on shear band initiation in metallic glass. <i>Journal of Applied Physics</i> , <b>2016</b> , 119, 245113	2.5	6
37	Co-optimizing magnetic properties and thermal stability of high Bs nanocrystalline alloys with critical formability. <i>Journal of Magnetism and Magnetic Materials</i> , <b>2019</b> , 487, 165310	2.8	5
36	Influence of short- to medium-range electronic and atomic structure on secondary relaxations in metallic glasses. <i>Acta Materialia</i> , <b>2020</b> , 196, 88-100	8.4	5

35	Grain refinement mechanism of soft-magnetic alloys with nanocrystals embedded in amorphous matrix. <i>Journal of Materials Research and Technology</i> , <b>2020</b> , 9, 3558-3565	5.5	5
34	Chemical independent relaxation in metallic glasses from the nanoindentation experiments. <i>Journal of Applied Physics</i> , <b>2017</b> , 121, 245104	2.5	5
33	Tunable elastic heterogeneity caused by deformation-induced magnetization in flexible metallic glass. <i>Scripta Materialia</i> , <b>2017</b> , 130, 7-11	5.6	5
32	Effects of sample geometry on deformation modes of bulk metallic glasses at the nano/micrometer scale. <i>Journal of Materials Research</i> , <b>2009</b> , 24, 3465-3468	2.5	5
31	Development of a Micro-beam Method to Investigate the Fatigue Crack Growth Mechanisms of Submicron-scale Cracks. <i>Experimental Mechanics</i> , <b>2009</b> , 49, 731-742	2.6	5
30	The mechanism of shear-band blocking in monolithic metallic glasses. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2017</b> , 703, 162-166	5.3	5
29	Unusual vortex-like atomic motion observed for viscoelasticity in metallic glass. <i>Computational Materials Science</i> , <b>2018</b> , 155, 104-111	3.2	5
28	Effect of adding Ag to the medium entropy SnBiIn alloy on intermetallic compound formation. <i>Materials Letters</i> , <b>2020</b> , 272, 127891	3.3	4
27	An Experimental Study of Fracture of LIGA Ni Micro-Electro-Mechanical Systems Thin Films. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , <b>2007</b> , 38, 1223-1230 <sup>2-3</sup>	2.3	4
26	A highly distorted ultraelastic chemically complex Elinvar alloy.. <i>Nature</i> , <b>2022</b> , 602, 251-257	50.4	4
25	Unveiling the atomic-scale origins of high damage tolerance of single-crystal high entropy alloys. <i>Physical Review Materials</i> , <b>2020</b> , 4,	3.2	4
24	Tuning the microstructure for superb corrosion resistance in eutectic high entropy alloy. <i>Journal of Materials Science and Technology</i> , <b>2021</b> ,	9.1	4
23	Revealing the microstructural evolution and mechanism during the thermomechanical treatment of polycrystalline CrCoNi medium-entropy alloy. <i>Journal of Alloys and Compounds</i> , <b>2021</b> , 870, 159518	5.7	4
22	Rational design of chemically complex metallic glasses by hybrid modeling guided machine learning. <i>Npj Computational Materials</i> , <b>2021</b> , 7,	10.9	4
21	A hierarchically correlated flow defect model for metallic glass: Universal understanding of stress relaxation and creep. <i>International Journal of Plasticity</i> , <b>2022</b> , 154, 103288	7.6	4
20	Strong, Ductile, and Tough Nanocrystal-Assembled Freestanding Gold Nanosheets.. <i>Nano Letters</i> , <b>2022</b> ,	11.5	3
19	Two-Tier Compatibility of Superelastic Bicrystal Micropillar at Grain Boundary. <i>Nano Letters</i> , <b>2020</b> , 20, 8332-8338	11.5	3
18	Derived crystal structure of martensitic materials by solid-solid phase transformation. <i>Acta Crystallographica Section A: Foundations and Advances</i> , <b>2020</b> , 76, 521-533	1.7	3

17	Soft-Mode Parameter as an Indicator for the Activation Energy Spectra in Metallic Glass. <i>Journal of Physical Chemistry Letters</i> , <b>2020</b> , 11, 2781-2787	6.4	2
16	Controlled synthesis of nanostructured glassy and crystalline high entropy alloy films. <i>Nanotechnology</i> , <b>2020</b> , 31, 045601	3.4	2
15	Transformation of Freestanding Carbon-Containing Gold Nanosheets into Au Nanoparticles Encapsulated within Amorphous Carbon: Implications for Surface Modification of Complex-Shaped Materials and Structures. <i>ACS Applied Nano Materials</i> , <b>2021</b> , 4, 5098-5105	5.6	2
14	Liquefaction-induced plasticity from entropy-boosted amorphous ceramics. <i>Applied Materials Today</i> , <b>2021</b> , 23, 101011	6.6	2
13	The Microstructure and Mechanical Property of the High Entropy Alloy as a low Temperature Solder <b>2019</b> ,		1
12	Fast mobility induced self-lubrication at metallic glass surface. <i>Journal of Applied Physics</i> , <b>2021</b> , 129, 165303	3.0	1
11	Self-Constructed micro-origami of 2D metal. <i>Applied Materials Today</i> , <b>2021</b> , 23, 101039	6.6	1
10	3D architected temperature-tolerant organohydrogels with ultra-tunable energy absorption. <i>IScience</i> , <b>2021</b> , 24, 102789	6.1	1
9	Strengthening mechanism of CrCoNi medium-entropy alloy from the partially recrystallized structure to the fully recrystallized heterogeneous structure. <i>Materials Characterization</i> , <b>2022</b> , 186, 111795	2.9	1
8	Sluggish dynamics of homogeneous flow in high-entropy metallic glasses. <i>Scripta Materialia</i> , <b>2022</b> , 214, 114673	5.6	1
7	Etching-Free Ultrafast Fabrication of Self-Rolled Metallic Nanosheets with Controllable Twisting. <i>Nano Letters</i> , <b>2021</b> , 21, 7159-7165	11.5	0
6	High-entropy intermetallics: from alloy design to structural and functional properties. <i>Rare Metals</i> , <b>2022</b> , 1, 012001	5.5	0
5	Recent development of chemically complex metallic glasses: from accelerated compositional design, additive manufacturing to novel applications <b>2022</b> , 1, 012001		0
4	Chemical-element-distribution-mediated deformation partitioning and its control mechanical behavior in high-entropy alloys. <i>Journal of Materials Science and Technology</i> , <b>2022</b> , 120, 99-107	9.1	0
3	Exceptionally shear-stable and ultra-strong Ir-Ni-Ta high-temperature metallic glasses at micro/nano scales. <i>Science China Materials</i> , <b>2021</b> , 14, 100001	7.1	0
2	Machine learning atomic dynamics to unfold the origin of plasticity in metallic glasses: From thermo- to acousto-plastic flow. <i>Science China Materials</i> , <b>2021</b> , 14, 100001	7.1	0
1	Influence of magnetic interaction on configurational-entropy-suppressed relaxations in FeNi-based metallic glasses. <i>AIP Advances</i> , <b>2022</b> , 12, 065304	1.5	0