Yong Yang

List of Publications by Year in descending order

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183	12,074	44444	33145
papers	citations	50 h-index	104 g-index

184	184	184	9197
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Tuning the microstructure for superb corrosion resistance in eutectic high entropy alloy. Journal of Materials Science and Technology, 2022, 109, 197-208.	5.6	41
2	Strong, Ductile, and Tough Nanocrystal-Assembled Freestanding Gold Nanosheets. Nano Letters, 2022, 22, 822-829.	4.5	13
3	A highly distorted ultraelastic chemically complex Elinvar alloy. Nature, 2022, 602, 251-257.	13.7	75
4	High-entropy intermetallics: from alloy design to structural and functional properties. Rare Metals, 2022, 41, 1989-2001.	3.6	19
5	Recent development of chemically complex metallic glasses: from accelerated compositional design, additive manufacturing to novel applications. Materials Futures, 2022, 1, 012001.	3.1	18
6	Machine learning atomic dynamics to unfold the origin of plasticity in metallic glasses: From thermo- to acousto-plastic flow. Science China Materials, 2022, 65, 1952-1962.	3.5	4
7	Strengthening mechanism of CrCoNi medium-entropy alloy from the partially recrystallized structure to the fully recrystallized heterogeneous structure. Materials Characterization, 2022, 186, 111795.	1.9	9
8	Sluggish dynamics of homogeneous flow in high-entropy metallic glasses. Scripta Materialia, 2022, 214, 114673.	2.6	11
9	A hierarchically correlated flow defect model for metallic glass: Universal understanding of stress relaxation and creep. International Journal of Plasticity, 2022, 154, 103288.	4.1	29
10	Chemical-element-distribution-mediated deformation partitioning and its control mechanical behavior in high-entropy alloys. Journal of Materials Science and Technology, 2022, 120, 99-107.	5.6	7
11	Influence of magnetic interaction on configurational-entropy-suppressed Î²-relaxations in FeNi-based metallic glasses. AIP Advances, 2022, 12, 065304.	0.6	0
12	Elastoâ€Capillary Manipulation of Freestanding Inorganic Nanosheets: An Implication for Nanoâ€Manufacturing of Lowâ€Dimensional Structures. Advanced Materials Interfaces, 2022, 9, .	1.9	3
13	Microstructure and corrosion performance of Al_{0.5}FeCoNiCrMn coating prepared by plasma spraying mechanically alloyed powders. Surface Engineering, 2022, 38, 383-392.	1.1	4
14	Heterogeneous lattice strain strengthening in severely distorted crystalline solids. Proceedings of the National Academy of Sciences of the United States of America, 2022, 119, .	3.3	27
15	Fabrication of strong yet malleable bulk porous high entropy laves intermetallics via chemical immersion dealloying of eutectic high entropy alloys. Scripta Materialia, 2022, 219, 114859.	2.6	5
16	Tuning AC magnetic properties of FeCoNi1+Cu1-Al (0Ââ‰ÂxÂâ‰Â1.0) high-entropy alloys by adjusting Ni and Cu content. Journal of Alloys and Compounds, 2022, 922, 166174.	2.8	2
17	Heterostructured crystallization mechanism and its effect on enlarging the processing window of Fe-based nanocrystalline alloys. Journal of Materials Science and Technology, 2021, 68, 53-60.	5.6	22
18	Revealing High-Temperature Reduction Dynamics of High-Entropy Alloy Nanoparticles via In Situ Transmission Electron Microscopy. Nano Letters, 2021, 21, 1742-1748.	4.5	26

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19	Chemical fluctuation enabling strength-plasticity synergy in metastable single-phase high entropy alloy film with gigapascal yield strength. International Journal of Plasticity, 2021, 139, 102951.	4.1	31
20	Fast mobility induced self-lubrication at metallic glass surface. Journal of Applied Physics, 2021, 129, .	1.1	2
21	Transformation of Freestanding Carbon-Containing Gold Nanosheets into Au Nanoparticles Encapsulated within Amorphous Carbon: Implications for Surface Modification of Complex-Shaped Materials and Structures. ACS Applied Nano Materials, 2021, 4, 5098-5105.	2.4	3
22	Self-Constructed micro-origami of 2D metal. Applied Materials Today, 2021, 23, 101039.	2.3	4
23	3D architected temperature-tolerant organohydrogels with ultra-tunable energy absorption. IScience, 2021, 24, 102789.	1.9	3
24	Liquefaction-induced plasticity from entropy-boosted amorphous ceramics. Applied Materials Today, 2021, 23, 101011.	2.3	3
25	Revealing the microstructural evolution and mechanism during the thermomechanical treatment of polycrystalline CrCoNi medium-entropy alloy. Journal of Alloys and Compounds, 2021, 870, 159518.	2.8	11
26	Revealing the structural heterogeneity of metallic glass: Mechanical spectroscopy and nanoindentation experiments. International Journal of Mechanical Sciences, 2021, 201, 106469.	3.6	89
27	Etching-Free Ultrafast Fabrication of Self-Rolled Metallic Nanosheets with Controllable Twisting. Nano Letters, 2021, 21, 7159-7165.	4.5	4
28	Rational design of chemically complex metallic glasses by hybrid modeling guided machine learning. Npj Computational Materials, 2021, 7, .	3.5	17
29	Understanding chemical short-range ordering/demixing coupled with lattice distortion in solid solution high entropy alloys. Acta Materialia, 2021, 216, 117140.	3.8	52
30	Interface modulation of twinned PtFe nanoplates branched 3D architecture for oxygen reduction catalysis. Science Bulletin, 2020, 65, 97-104.	4.3	42
31	Corrosion resistant nanostructured eutectic high entropy alloy. Corrosion Science, 2020, 164, 108315.	3.0	161
32	Controlled synthesis of nanostructured glassy and crystalline high entropy alloy films. Nanotechnology, 2020, 31, 045601.	1.3	2
33	Ultrafast synthesis of entropy-stabilized oxide at room temperature. Journal of the European Ceramic Society, 2020, 40, 2504-2508.	2.8	60
34	Machine learning-based glass formation prediction in multicomponent alloys. Acta Materialia, 2020, 201, 182-190.	3.8	69
35	A high-entropy alloy as very low melting point solder for advanced electronic packaging. Materials Today Advances, 2020, 7, 100101.	2.5	18
36	In Situ Oxidation Studies of High-Entropy Alloy Nanoparticles. ACS Nano, 2020, 14, 15131-15143.	7.3	71

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37	Low-Cost Scalable Production of Freestanding Two-Dimensional Metallic Nanosheets by Polymer Surface Buckling Enabled Exfoliation. Cell Reports Physical Science, 2020, 1, 100235.	2.8	14
38	Fracture of sigma phase containing Coâ€“Crâ€“Niâ€“Mo medium entropy alloys. Journal of Alloys and Compounds, 2020, 846, 156189.	2.8	38
39	Two-Tier Compatibility of Superelastic Bicrystal Micropillar at Grain Boundary. Nano Letters, 2020, 20, 8332-8338.	4.5	8
40	Ultrasonic plasticity of metallic glass near room temperature. Applied Materials Today, 2020, 21, 100866.	2.3	15
41	Derived crystal structure of martensitic materials by solidâ€“solid phase transformation. Acta Crystallographica Section A: Foundations and Advances, 2020, 76, 521-533.	0.0	3
42	Synthesis of Twoâ€dimensional Metallic Nanosheets: From Elemental Metals to Chemically Complex Alloys. ChemNanoMat, 2020, 6, 1683-1711.	1.5	18
43	Effect of adding Ag to the medium entropy SnBiIn alloy on intermetallic compound formation. Materials Letters, 2020, 272, 127891.	1.3	7
44	Revealing the ultra-low-temperature relaxation peak in a model metallic glass. Acta Materialia, 2020, 195, 611-620.	3.8	23
45	Influence of short- to medium-range electronic and atomic structure on secondary relaxations in metallic glasses. Acta Materialia, 2020, 196, 88-100.	3.8	12
46	Soft-Mode Parameter as an Indicator for the Activation Energy Spectra in Metallic Glass. Journal of Physical Chemistry Letters, 2020, 11, 2781-2787.	2.1	8
47	The controlled large-area synthesis of two dimensional metals. Materials Today, 2020, 36, 30-39.	8.3	23
48	Evading brittle fracture in submicron-sized high entropy intermetallics in dual-phase eutectic microstructure. Scripta Materialia, 2020, 187, 280-284.	2.6	21
49	Stability and synthesis of 2D metals and alloys: a review. Materials Today Advances, 2020, 8, 100092.	2.5	43
50	High Entropy Intermetallicâ€“Oxide Coreâ€“Shell Nanostructure as Superb Oxygen Evolution Reaction Catalyst. Advanced Sustainable Systems, 2020, 4, 1900105.	2.7	129
51	Grain refinement mechanism of soft-magnetic alloys with nanocrystals embedded in amorphous matrix. Journal of Materials Research and Technology, 2020, 9, 3558-3565.	2.6	13
52	Aerosol Synthesis of High Entropy Alloy Nanoparticles. Langmuir, 2020, 36, 1985-1992.	1.6	74
53	Unveiling the atomic-scale origins of high damage tolerance of single-crystal high entropy alloys. Physical Review Materials, 2020, 4, .	0.9	11
54	Ultrathin two-dimensional metallic nanocrystals for renewable energy electrocatalysis. Materials Today, 2019, 23, 45-56.	8.3	64

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55	â€œSoftnessâ€•as the structural origin of plasticity in disordered solids: a quantitative insight from machine learning. Science China Materials, 2019, 62, 154-160.	3.5	16
56	Understanding yielding and the unusual ductile-brittle-ductile transition in Fe-based amorphous nanocrystalline alloy: A combined micromechanical and thermodynamic study. Journal of the Mechanics and Physics of Solids, 2019, 132, 103681.	2.3	17
57	Bio-mimic Tiâ€“Ta composite with hierarchical â€œBrick-and-Mortarâ€•microstructure. Materialia, 2019, 8, 100463.	1.3	8
58	The Microstructure and Mechanical Property of the High Entropy Alloy as a low Temperature Solder. , 2019, , .		1
59	Co-optimizing magnetic properties and thermal stability of high Bs nanocrystalline alloys with critical formability. Journal of Magnetism and Magnetic Materials, 2019, 487, 165310.	1.0	7
60	Structural heterogeneities and mechanical behavior of amorphous alloys. Progress in Materials Science, 2019, 104, 250-329.	16.0	428
61	In Situ Micromechanical Characterization of Metallic Glass Microwires under Torsional Loading. Experimental Mechanics, 2019, 59, 361-368.	1.1	7
62	Fast surface dynamics enabled cold joining of metallic glasses. Science Advances, 2019, 5, eaax7256.	4.7	87
63	Machine learning guided appraisal and exploration of phase design for high entropy alloys. Npj Computational Materials, 2019, 5, .	3.5	171
64	Amorphousâ€“nanocrystalline alloys: fabrication, properties, and applications. Materials Today Advances, 2019, 4, 100027.	2.5	88
65	Hierarchical Eutectic Structure Enabling Superior Fracture Toughness and Superb Strength in CoCrFeNiNb0.5 Eutectic High Entropy Alloy at Room Temperature. Advanced Engineering Materials, 2019, 21, 1801060.	1.6	38
66	Phase field study of the copper precipitation in Fe-Cu alloy. Acta Materialia, 2019, 166, 560-571.	3.8	39
67	High performance Fe-based nanocrystalline alloys with excellent thermal stability. Journal of Alloys and Compounds, 2019, 776, 606-613.	2.8	52
68	Atomic-scale distorted lattice in chemically disordered equimolar complex alloys. Acta Materialia, 2018, 150, 182-194.	3.8	89
69	Superb strength and high plasticity in laves phase rich eutectic medium-entropy-alloy nanocomposites. International Journal of Plasticity, 2018, 106, 57-72.	4.1	86
70	Development of high-strength Co-free high-entropy alloys hardened by nanosized precipitates. Scripta Materialia, 2018, 148, 51-55.	2.6	154
71	Exploring the design of eutectic or near-eutectic multicomponent alloys: From binary to high entropy alloys. Science China Technological Sciences, 2018, 61, 159-167.	2.0	39
72	Fast secondary relaxation and plasticity initiation in metallic glasses. National Science Review, 2018, 5, 616-618.	4.6	23

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73	Common mechanism for controlling polymorph selection during crystallization in supercooled metallic liquids. Acta Materialia, 2018, 161, 367-373.	3.8	19
74	Unusual vortex-like atomic motion observed for viscoelasticity in metallic glass. Computational Materials Science, 2018, 155, 104-111.	1.4	5
75	On Lattice Distortion in High Entropy Alloys. Frontiers in Materials, 2018, 5, .	1.2	103
76	Density fluctuations with fractal order in metallic glasses detected by synchrotron X-ray nano-computed tomography. Acta Materialia, 2018, 155, 69-79.	3.8	35
77	Configuration correlation governs slow dynamics of supercooled metallic liquids. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 6375-6380.	3.3	43
78	Nanoscale Structural Evolution and Anomalous Mechanical Response of Nanoglasses by Cryogenic Thermal Cycling. Nano Letters, 2018, 18, 4188-4194.	4.5	20
79	Micromechanical mechanism of yielding in dual nano-phase metallic glass. Scripta Materialia, 2018, 154, 186-191.	2.6	32
80	Delayed plasticity during nanoindentation of single-phase CoCrFeMnNi high-entropy alloy. Materials Research Letters, 2017, 5, 300-305.	4.1	11
81	Saturated magnetization and glass forming ability of soft magnetic Fe-based metallic glasses. Intermetallics, 2017, 84, 74-81.	1.8	48
82	Pressure effects on structure and dynamics of metallic glass-forming liquid. Journal of Chemical Physics, 2017, 146, 024507.	1.2	49
83	Mutual interaction of shear bands in metallic glasses. Intermetallics, 2017, 85, 48-53.	1.8	23
84	Amorphous physics and materials: Secondary relaxation and dynamic heterogeneity in metallic glasses: A brief review. Chinese Physics B, 2017, 26, 016402.	0.7	51
85	Formation of Random Solid Solution in Multicomponent Alloys: from Hume-Rothery Rules to Entropic Stabilization. Journal of Phase Equilibria and Diffusion, 2017, 38, 416-425.	0.5	43
86	In-situ atomic force microscopy observation revealing gel-like plasticity on a metallic glass surface. Journal of Applied Physics, 2017, 121, .	1.1	13
87	The breakdown of strength size scaling in spherical nanoindentation and microcompression of metallic glasses. Scripta Materialia, 2017, 130, 283-287.	2.6	7
88	The stochastic transition from size dependent to size independent yield strength in metallic glasses. Journal of the Mechanics and Physics of Solids, 2017, 109, 200-216.	2.3	24
89	Heterogeneous precipitation behavior and stacking-fault-mediated deformation in a CoCrNi-based medium-entropy alloy. Acta Materialia, 2017, 138, 72-82.	3.8	553
90	Universal secondary relaxation and unusual brittle-to-ductile transition in metallic glasses. Materials Today, 2017, 20, 293-300.	8.3	114

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91	Design of High-Entropy Alloy: A Perspective from Nonideal Mixing. Jom, 2017, 69, 2092-2098.	0.9	66
92	Abnormal internal friction in the in-situ Ti60Zr15V10Cu5Be10 metallic glass matrix composite. Journal of Alloys and Compounds, 2017, 724, 921-931.	2.8	33
93	Chemical independent relaxation in metallic glasses from the nanoindentation experiments. Journal of Applied Physics, 2017, 121, 245104.	1.1	6
94	Resonance ultrasonic actuation and local structural rejuvenation in metallic glasses. Physical Review B, 2017, 95, .	1.1	14
95	Tunable elastic heterogeneity caused by deformation-induced magnetization in flexible metallic glass. Scripta Materialia, 2017, 130, 7-11.	2.6	6
96	The mechanism of shear-band blocking in monolithic metallic glasses. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2017, 703, 162-166.	2.6	9
97	High Sensitivity, Wearable, Piezoresistive Pressure Sensors Based on Irregular Microhump Structures and Its Applications in Body Motion Sensing. Small, 2016, 12, 3827-3836.	5.2	177
98	Thermodynamic scaling of glassy dynamics and dynamic heterogeneities in metallic glass-forming liquid. Journal of Chemical Physics, 2016, 145, 104503.	1.2	18
99	In situmechanical characterization of CoCrCuFeNi high-entropy alloy micro/nano-pillars for their size-dependent mechanical behavior. Materials Research Express, 2016, 3, 094002.	0.8	47
100	The kinetic origin of delayed yielding in metallic glasses. Applied Physics Letters, 2016, 108, 251901.	1.5	8
101	Fracto-emission in lanthanum-based metallic glass microwires under quasi-static tensile loading. Journal of Applied Physics, 2016, 119, .	1.1	8
102	Origin of Shear Stability and Compressive Ductility Enhancement of Metallic Glasses by Metal Coating. Scientific Reports, 2016, 6, 27852.	1.6	11
103	The configurational entropy of mixing of metastable random solid solution in complex multicomponent alloys. Journal of Applied Physics, 2016, 120, .	1.1	36
104	The thermal history effect on shear band initiation in metallic glass. Journal of Applied Physics, 2016, 119, 245113.	1.1	6
105	The Critical Criterion on Runaway Shear Banding in Metallic Glasses. Scientific Reports, 2016, 6, 21388.	1.6	18
106	Elemental segregation in solid-solution high-entropy alloys: Experiments and modeling. Journal of Alloys and Compounds, 2016, 681, 167-174.	2.8	46
107	A Highly Efficient and Selfâ€Stabilizing Metallicâ€Glass Catalyst for Electrochemical Hydrogen Generation. Advanced Materials, 2016, 28, 10293-10297.	11.1	195
108	Correlation between local elastic heterogeneities and overall elastic properties in metallic glasses. Acta Materialia, 2016, 121, 266-276.	3.8	41

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109	The general effect of atomic size misfit on glass formation in conventional and high-entropy alloys. Intermetallics, 2016, 78, 30-41.	1.8	22
110	Unveiling atomic-scale features of inherent heterogeneity in metallic glass by molecular dynamics simulations. Physical Review B, 2016, 93, .	1.1	39
111	Transformation-mediated plasticity in CuZr based metallic glass composites: A quantitative mechanistic understanding. International Journal of Plasticity, 2016, 85, 34-51.	4.1	68
112	Shear-banding Induced Indentation Size Effect in Metallic Glasses. Scientific Reports, 2016, 6, 28523.	1.6	15
113	Structural Signature of Plasticity Unveiled by Nano-Scale Viscoelastic Contact in a Metallic Glass. Scientific Reports, 2016, 6, 29357.	1.6	21
114	Rate Dependence of Serrated Flow and Its Effect on Shear Stability of Bulk Metallic Glasses. Journal of Iron and Steel Research International, 2016, 23, 24-30.	1.4	11
115	Critical Shear Offset of Fracture in a Zr-based Metallic Glass. Journal of Iron and Steel Research International, 2016, 23, 53-56.	1.4	6
116	Hand in hand evolution of boson heat capacity anomaly and slow Î²-relaxation in La-based metallic glasses. Acta Materialia, 2016, 110, 73-83.	3.8	21
117	High-entropy alloy: challenges and prospects. Materials Today, 2016, 19, 349-362.	8.3	1,698
118	Atomistic mechanism of elastic softening in metallic glass under cyclic loading revealed by molecular dynamics simulations. Intermetallics, 2016, 68, 5-10.	1.8	23
119	Facile and generalized encapsulations of inorganic nanocrystals with nitrogen-doped carbonaceous coating for multifunctionality. Nanoscale, 2015, 7, 3254-3262.	2.8	10
120	The generalized thermodynamic rule for phase selection in multicomponent alloys. Intermetallics, 2015, 59, 75-80.	1.8	108
121	Softening-induced plastic flow instability and indentation size effect in metallic glass. Journal of the Mechanics and Physics of Solids, 2015, 77, 70-85.	2.3	36
122	Structural heterogeneity and deformation rheology in metallic glasses. Science China Technological Sciences, 2015, 58, 47-55.	2.0	13
123	Biomimicking Topographic Elastomeric Petals (Eâ€Petals) for Omnidirectional Stretchable and Printable Electronics. Advanced Science, 2015, 2, 1400021.	5.6	96
124	Unusual fast secondary relaxation in metallic glass. Nature Communications, 2015, 6, 7876.	5.8	158
125	Intrinsic versus extrinsic effects on serrated flow of bulk metallic glasses. Intermetallics, 2015, 66, 31-39.	1.8	33
126	Mechanical Switching of Nanoscale Multiferroic Phase Boundaries. Advanced Functional Materials, 2015, 25, 3405-3413.	7.8	38

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127	Design of high entropy alloys: A single-parameter thermodynamic rule. Scripta Materialia, 2015, 104, 53-55.	2.6	209
128	A geometric model for intrinsic residual strain and phase stability in high entropy alloys. Acta Materialia, 2015, 94, 152-161.	3.8	141
129	Atomic-size and lattice-distortion effects in newly developed high-entropy alloys with multiple principal elements. Intermetallics, 2015, 64, 63-69.	1.8	127
130	On the source of plastic flow in metallic glasses: Concepts and models. Intermetallics, 2015, 67, 81-86.	1.8	99
131	Stress induced atomic-scale damage and relaxation in bulk metallic glasses. Journal of Alloys and Compounds, 2015, 652, 185-190.	2.8	8
132	Atomic-size effect and solid solubility of multicomponent alloys. Scripta Materialia, 2015, 94, 28-31.	2.6	339
133	Origin of yielding in metallic glass: Stress-induced flow. Applied Physics Letters, 2014, 104, 251901.	1.5	10
134	Delayed shear banding and evolution of local plastic flow in a metallic glass. Applied Physics Letters, 2014, 105, .	1.5	16
135	On the use of atomic force microscopy for structural mapping of metallic-glass thin films. Intermetallics, 2014, 44, 121-127.	1.8	23
136	Effect of size and base-element on the jerky flow dynamics in metallic glass. Acta Materialia, 2014, 63, 180-190.	3.8	54
137	Threeâ€Ðimensional Compressible and Stretchable Conductive Composites. Advanced Materials, 2014, 26, 810-815.	11.1	156
138	Structure Heterogeneity in Metallic Glass: Modeling and Experiment. Journal of Materials Science and Technology, 2014, 30, 560-565.	5.6	55
139	Nanoindentation characterized initial creep behavior of a high-entropy-based alloy CoFeNi. Intermetallics, 2014, 53, 183-186.	1.8	47
140	Probing Stochastic Nano-Scale Inelastic Events in Stressed Amorphous Metal. Scientific Reports, 2014, 4, 6699.	1.6	13
141	The atomic-scale mechanism for the enhanced glass-forming-ability of a Cu-Zr based bulk metallic glass with minor element additions. Scientific Reports, 2014, 4, 4648.	1.6	70
142	Superior Tensile Ductility in Bulk Metallic Glass with Gradient Amorphous Structure. Scientific Reports, 2014, 4, 4757.	1.6	77
143	Yielding and shear banding of metallic glasses. Acta Materialia, 2013, 61, 5928-5936.	3.8	62
144	The dependence of shear modulus on dynamic relaxation and evolution of local structural heterogeneity in a metallic glass. Acta Materialia, 2013, 61, 4329-4338.	3.8	141

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145	Relative effects of enthalpy and entropy on the phase stability of equiatomic high-entropy alloys. Acta Materialia, 2013, 61, 2628-2638.	3.8	1,004
146	Matrixâ€Assisted Catalytic Printing for the Fabrication of Multiscale, Flexible, Foldable, and Stretchable Metal Conductors. Advanced Materials, 2013, 25, 3343-3350.	11.1	160
147	Role of oxide thickening in fatigue crack initiation in LIGA nickel MEMS thin films. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2013, 561, 434-440.	2.6	7
148	Replication of nano/micro-scale features using bulk metallic glass mold prepared by femtosecond laser and imprint processes. Journal of Micromechanics and Microengineering, 2013, 23, 035030.	1.5	15
149	Hardness, yield strength, and plastic flow in thin film metallic-glass. Journal of Applied Physics, 2012, 112, .	1.1	43
150	Fractal growth of the dense-packing phase in annealed metallic glass imaged by high-resolution atomic force microscopy. Acta Materialia, 2012, 60, 5260-5272.	3.8	105
151	A mean-field model for anelastic deformation in metallic-glasses. Intermetallics, 2012, 26, 86-90.	1.8	22
152	Effect of surface modifications on shear banding and plasticity in metallic glasses: An overview. Progress in Natural Science: Materials International, 2012, 22, 355-363.	1.8	33
153	Polymer Pen Lithography Using Dualâ€Elastomer Tip Arrays. Small, 2012, 8, 2664-2669.	5.2	37
154	Size effect in microcompression of epoxy micropillars. Journal of Materials Science, 2012, 47, 6047-6055.	1.7	27
155	Thin film metallic glasses: Unique properties and potential applications. Thin Solid Films, 2012, 520, 5097-5122.	0.8	301
156	Size effect on stability of shear-band propagation in bulk metallic glasses: an overview. Journal of Materials Science, 2012, 47, 55-67.	1.7	77
157	Atomic-Scale Structural Evolution and Stability of Supercooled Liquid of a Zr-Based Bulk Metallic Glass. Physical Review Letters, 2011, 106, 215505.	2.9	93
158	Cooling rate effect on Young's modulus and hardness of a Zr-based metallic glass. Journal of Alloys and Compounds, 2011, 509, 3269-3273.	2.8	36
159	Dual character of stable shear banding in bulk metallic glasses. Intermetallics, 2011, 19, 1005-1013.	1.8	9
160	Micromechanical characterization of casting-induced inhomogeneity in an Al0.8CoCrCuFeNi high-entropy alloy. Scripta Materialia, 2011, 64, 868-871.	2.6	69
161	Size-affected shear-band speed in bulk metallic glasses. Applied Physics Letters, 2011, 99, 171904.	1.5	12
162	Metallic glasses: Gaining plasticity for microsystems. Jom, 2010, 62, 93-98.	0.9	25

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163	Atomistic free-volume zones and inelastic deformation of metallic glasses. Nature Materials, 2010, 9, 619-623.	13.3	392
164	Revelation of the effect of structural heterogeneity on microplasticity in bulk metallic-glasses. Journal of Materials Research, 2010, 25, 563-575.	1.2	18
165	Structural inhomogeneity and anelastic deformation in metallic glasses revealed by spherical nanoindentation. Applied Physics Letters, 2010, 97, .	1.5	31
166	Characteristic length scales governing plasticity/brittleness of bulk metallic glasses at ambient temperature. Applied Physics Letters, 2010, 96, 011905.	1.5	31
167	Extraction of bulk metallic-glass yield strengths using tapered micropillars in micro-compression experiments. Intermetallics, 2010, 18, 385-393.	1.8	51
168	Effects of sample geometry on deformation modes of bulk metallic glasses at the nano/micrometer scale. Journal of Materials Research, 2009, 24, 3465-3468.	1.2	5
169	Can Youngâ€™s modulus and hardness of wire structural materials be directly measured using nanoindentation?. Journal of Materials Research, 2009, 24, 1054-1058.	1.2	11
170	Development of a Micro-beam Method to Investigate the Fatigue Crack Growth Mechanisms of Submicron-scale Cracks. Experimental Mechanics, 2009, 49, 731-742.	1.1	5
171	Effects of specimen geometry and base material on the mechanical behavior of focused-ion-beam-fabricated metallic-glass micropillars. Acta Materialia, 2009, 57, 1613-1623.	3.8	70
172	Study of the intrinsic ductile to brittle transition mechanism of metallic glasses. Acta Materialia, 2009, 57, 6037-6046.	3.8	48
173	Mixed mode fracture of dental interfaces. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2008, 488, 381-388.	2.6	17
174	Fatigue and Fracture of a Bulk Nanocrystalline NiFe Alloy. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2008, 39, 1145-1156.	1.1	40
175	Contact deformation and cracking of zirconia/cement/foundation dental multilayers. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2008, 485, 517-523.	2.6	30
176	Deformation and fracture in micro-tensile tests of freestanding electrodeposited nickel thin films. Scripta Materialia, 2008, 58, 1062-1065.	2.6	19
177	Nanoscale and submicron fatigue crack growth in nickel microbeams. Acta Materialia, 2007, 55, 4305-4315.	3.8	15
178	Mechanisms of fatigue in LIGA Ni MEMS thin films. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2007, 444, 39-50.	2.6	60
179	An Experimental Study of Fracture of LIGA Ni Micro-Electro-Mechanical Systems Thin Films. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2007, 38, 1223-1230.	1.1	4
180	Fatigue of LIGA Ni Micro-Electro-Mechanical System Thin Films. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2007, 38, 2340-2348.	1.1	10

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181	Energy-Based Modeling Approach for Debonding of FRP Plate from Concrete Substrate. Journal of Engineering Mechanics - ASCE, 2006, 132, 583-593.	1.6	29
182	Complex-Surfactant-Assisted Hydrothermal Route to Ferromagnetic Nickel Nanobelts. Advanced Materials, 2003, 15, 1946-1948.	11.1	280
183	Exceptionally shear-stable and ultra-strong Ir-Ni-Ta high-temperature metallic glasses at micro/nano scales. Science China Materials, 0, , 1.	3.5	0