Chain T Liu

List of Publications by Year
in descending order

505 papers	40,890 citations	2544 96 h-index	3732 179 g-index
510 all docs	510 docs citations	510 times ranked	12144 citing authors

#	Article	IF	Citations
1	Susceptibility of chloride ion concentration, temperature, and surface roughness on pitting corrosion of CoCrFeNi mediumâ€entropy alloy. Materials and Corrosion - Werkstoffe Und Korrosion, 2022, 73, 106-115.	1.5	8
2	A new Î±Â+ÂÎ² Ti-alloy with refined microstructures and enhanced mechanical properties in the as-cast state. Scripta Materialia, 2022, 207, 114260.	5.2	31
3	Nanostructured steels for advanced structural applications. Materials Futures, 2022, 1, 013501.	8.4	3
4	Anomalous precipitate-size-dependent ductility in multicomponent high-entropy alloys with dense nanoscale precipitates. Acta Materialia, 2022, 223, 117480.	7.9	72
5	Design of titanium alloys by additive manufacturing: A critical review. , 2022, 1, 100014.		50
6	Synergy of strengthening and toughening of a Cu-rich precipitate-strengthened steel. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2022, 832, 142487.	5.6	14
7	Enhanced strength-ductility synergy via novel bifunctional nano-precipitates in a high-entropy alloy. International Journal of Plasticity, 2022, 153, 103235.	8.8	56
8	A highly distorted ultraelastic chemically complex Elinvar alloy. Nature, 2022, 602, 251-257.	27.8	75
9	Chemically complex intermetallic alloys: A new frontier for innovative structural materials. Materials Today, 2022, 52, 161-174.	14.2	29
10	L12-strengthened multicomponent Co-Al-Nb-based alloys with high strength and matrix-confined stacking-fault-mediated plasticity. Acta Materialia, 2022, 229, 117763.	7.9	36
11	Intermediate temperature embrittlement in a precipitation-hardened high-entropy alloy: The role of heterogeneous strain distribution and environmentally assisted intergranular damage. Materials Today Physics, 2022, 24, 100653.	6.0	12
12	A lightweight refractory complex concentrated alloy with high strength and uniform ductility. Applied Materials Today, 2022, 27, 101429.	4.3	7
13	High-entropy induced a glass-to-glass transition in a metallic glass. Nature Communications, 2022, 13, 2183.	12.8	34
14	In situ study on medium-range order evolution during the polyamorphous phase transition in a Pd-Ni-P nanostructured glass. Journal of Materials Science and Technology, 2022, 125, 145-156.	10.7	9
15	Dual heterogeneous structure facilitating an excellent strength-ductility combination in an additively manufactured multi-principal-element alloy. Materials Research Letters, 2022, 10, 575-584.	8.7	23
16	A high-entropy alloy with dislocation-precipitate skeleton for ultrastrength and ductility. Acta Materialia, 2022, 232, 117975.	7.9	69
17	Temperature-dependent microstructural evolutions and deformation mechanisms of (Ni2Co2FeCr)92Al4Nb4 high-entropy alloys. Journal of Alloys and Compounds, 2022, 918, 165597.	5.5	10
18	Heterogeneous lattice strain strengthening in severely distorted crystalline solids. Proceedings of the National Academy of Sciences of the United States of America, 2022, 119, .	7.1	27

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19	Metal-carbide eutectics with multiprincipal elements make superrefractory alloys. Science Advances, 2022, 8, .	10.3	17
20	Tailoring nanoprecipitates for ultra-strong high-entropy alloys via machine learning and prestrain aging. Journal of Materials Science and Technology, 2021, 69, 156-167.	10.7	48
21	Heterogenous columnar-grained high-entropy alloys produce exceptional resistance to intermediate-temperature intergranular embrittlement. Scripta Materialia, 2021, 194, 113622.	5.2	25
22	Effect of annealing temperatures on microstructure and deformation behavior of Al0Â·1CrFeCoNi high-entropy alloy. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2021, 805, 140523.	5.6	29
23	Spinodal-modulated solid solution delivers a strong and ductile refractory high-entropy alloy. Materials Horizons, 2021, 8, 948-955.	12.2	52
24	Self-Assembled Hydrophobic/Hydrophilic Porphyrin-Ti₃C₂T_x MXene Janus Membrane for Dual-Functional Enabled Photothermal Desalination. ACS Applied Materials & Interfaces, 2021, 13, 3762-3770.	8.0	82
25	Stacking Fault Driven Phase Transformation in CrCoNi Medium Entropy Alloy. Nano Letters, 2021, 21, 1419-1426.	9.1	47
26	Low-carbon advanced nanostructured steels: Microstructure, mechanical properties, and applications. Science China Materials, 2021, 64, 1580-1597.	6.3	8
27	Fatigue studies of CoCrFeMnNi high entropy alloy films using nanoindentation dynamic mechanical analyses. Surface and Coatings Technology, 2021, 410, 126927.	4.8	10
28	Hardened core of bilayer shear bands in a Zr-based metallic glass. Materials Letters, 2021, 286, 129242.	2.6	2
29	Nano-heterogeneity-stabilized and magnetic-interaction-modulated metallic glasses. Science China Materials, 2021, 64, 1813-1819.	6.3	12
30	Fast mobility induced self-lubrication at metallic glass surface. Journal of Applied Physics, 2021, 129, .	2.5	2
31	A medium-range structure motif linking amorphous and crystalline states. Nature Materials, 2021, 20, 1347-1352.	27.5	92
32	Highly pressurized helium nanobubbles promote stacking-fault-mediated deformation in FeNiCoCr high-entropy alloy. Acta Materialia, 2021, 210, 116843.	7.9	25
33	Design of ultrastrong but ductile medium-entropy alloy with controlled precipitations and heterogeneous grain structures. Applied Materials Today, 2021, 23, 101037.	4.3	11
34	A novel L12-strengthened multicomponent Co-rich high-entropy alloy with both high Î³â€²-solvus temperature and superior high-temperature strength. Scripta Materialia, 2021, 199, 113826.	5.2	53
35	Nanotwinned CoCrFeMnNi high entropy alloy films for flexible electronic device applications. Vacuum, 2021, 189, 110249.	3.5	9
36	Rational design of chemically complex metallic glasses by hybrid modeling guided machine learning. Npj Computational Materials, 2021, 7, .	8.7	17

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37	Interstitially strengthened metastable FeCoCr-based medium-entropy alloys with both high strength and large ductility. Applied Physics Letters, 2021, 119, 051902.	3.3	4
38	Understanding chemical short-range ordering/demixing coupled with lattice distortion in solid solution high entropy alloys. Acta Materialia, 2021, 216, 117140.	7.9	52
39	Second phase effect on corrosion of nanostructured Mg-Zn-Ca dual-phase metallic glasses. Journal of Magnesium and Alloys, 2021, 9, 1546-1555.	11.9	15
40	Anomalous X-Ray Scattering and Extended X-Ray Absorption Fine Structure Study of the Local Structure of CrFeCoNiMox (x = 0.11, 0.18, and 0.23) High-Entropy Alloys. Jom, 2021, 73, 3285.	1.9	1
41	L1₂â€Strengthened Coâ€Rich Alloys for Highâ€Temperature Structural Applications: A Critical Review. Advanced Engineering Materials, 2021, 23, 2100453.	3.5	11
42	Multicomponent Ni-rich high-entropy alloy toughened with irregular-shaped precipitates and serrated grain boundaries. Scripta Materialia, 2021, 204, 114066.	5.2	23
43	In situ design of advanced titanium alloy with concentration modulations by additive manufacturing. Science, 2021, 374, 478-482.	12.6	168
44	Nanoprecipitateâ€Strengthened Highâ€Entropy Alloys. Advanced Science, 2021, 8, e2100870.	11.2	97
45	Accelerated design of novel W-free high-strength Co-base superalloys with extremely wide Î³/Î³Ê¹ region by machine learning and CALPHAD methods. Acta Materialia, 2020, 186, 425-433.	7.9	57
46	Microstructures and mechanical properties of CoCrFeMnNiV high entropy alloy films. Journal of Alloys and Compounds, 2020, 820, 153388.	5.5	52
47	Effect of external applied magnetic field on microstructures and mechanical properties of laser welding joint of medium-Mn nanostructured steel. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2020, 792, 139787.	5.6	23
48	Extremely high dislocation density and deformation pathway of CrMnFeCoNi high entropy alloy at ultralow temperature. Scripta Materialia, 2020, 188, 21-25.	5.2	62
49	Ultrahigh strength and ductility in newly developed materials with coherent nanolamellar architectures. Nature Communications, 2020, 11, 6240.	12.8	226
50	Refractory alloying additions on the thermal stability and mechanical properties of high-entropy alloys. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2020, 797, 140020.	5.6	45
51	Ultrahigh-strength and ductile superlattice alloys with nanoscale disordered interfaces. Science, 2020, 369, 427-432.	12.6	187
52	Quasi-work-hardening at sites of shear band interactions in a Cu50Zr50 metallic glass. Materials Letters, 2020, 281, 128655.	2.6	3
53	A novel equiaxed eutectic high-entropy alloy with excellent mechanical properties at elevated temperatures. Materials Research Letters, 2020, 8, 373-382.	8.7	34
54	Dual heterogeneous structures lead to ultrahigh strength and uniform ductility in a Co-Cr-Ni medium-entropy alloy. Nature Communications, 2020, 11, 2390.	12.8	244

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55	Cocktail effects in understanding the stability and properties of face-centered-cubic high-entropy alloys at ambient and cryogenic temperatures. Scripta Materialia, 2020, 187, 250-255.	5.2	59
56	Breaking the strength-ductility paradox in advanced nanostructured Fe-based alloys through combined Cu and Mn additions. Scripta Materialia, 2020, 186, 213-218.	5.2	19
57	High hardness and fatigue resistance of CoCrFeMnNi high entropy alloy films with ultrahigh-density nanotwins. International Journal of Plasticity, 2020, 131, 102726.	8.8	80
58	Towards superior mechanical properties of hetero-structured high-entropy alloys via engineering multicomponent intermetallic nanoparticles. Scripta Materialia, 2020, 183, 39-44.	5.2	47
59	Cooperative deformation in high-entropy alloys at ultralow temperatures. Science Advances, 2020, 6, eaax4002.	10.3	157
60	Precipitation kinetics and mechanical properties of nanostructured steels with Mo additions. Materials Research Letters, 2020, 8, 187-194.	8.7	20
61	Growth, microstructure and mechanical properties of CoCrFeMnNi high entropy alloy films. Vacuum, 2020, 179, 109553.	3.5	27
62	Non-conventional transformation pathways and ultrafine lamellar structures in Î³-TiAl alloys. Acta Materialia, 2020, 189, 25-34.	7.9	34
63	How does the structural inhomogeneity influence the shear band behaviours of metallic glasses. Philosophical Magazine, 2020, 100, 1663-1681.	1.6	3
64	Control of nanoscale precipitation and elimination of intermediate-temperature embrittlement in multicomponent high-entropy alloys. Acta Materialia, 2020, 189, 47-59.	7.9	137
65	Superior high-temperature properties and deformation-induced planar faults in a novel L12-strengthened high-entropy alloy. Acta Materialia, 2020, 188, 517-527.	7.9	144
66	Unveiling the Electronic Origin for Pressure-Induced Phase Transitions in High-Entropy Alloys. Matter, 2020, 2, 751-763.	10.0	14
67	A Novel Multinary Intermetallic as an Active Electrocatalyst for Hydrogen Evolution. Advanced Materials, 2020, 32, e2000385.	21.0	169
68	Martensitic transformation and mechanical behavior of a medium-entropy alloy. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2020, 786, 139371.	5.6	18
69	Water Splitting: A Novel Multinary Intermetallic as an Active Electrocatalyst for Hydrogen Evolution (Adv. Mater. 21/2020). Advanced Materials, 2020, 32, 2070166.	21.0	6
70	Precipitation-hardened high-entropy alloys for high-temperature applications: A critical review. MRS Bulletin, 2019, 44, 854-859.	3.5	42
71	Hierarchical nanostructured aluminum alloy with ultrahigh strength and large plasticity. Nature Communications, 2019, 10, 5099.	12.8	97
72	Engineering medium-range order and polyamorphism in a nanostructured amorphous alloy. Communications Physics, 2019, 2, .	5.3	24

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73	Nanoparticles-strengthened high-entropy alloys for cryogenic applications showing an exceptional strength-ductility synergy. Scripta Materialia, 2019, 164, 30-35.	5.2	170
74	Exceptional nanostructure stability and its origins in the CoCrNi-based precipitation-strengthened medium-entropy alloy. Materials Research Letters, 2019, 7, 152-158.	8.7	56
75	Design of D022 superlattice with superior strengthening effect in high entropy alloys. Acta Materialia, 2019, 167, 275-286.	7.9	172
76	Relating structural heterogeneity to Î² relaxation processes in metallic glasses. Materials Research Letters, 2019, 7, 305-311.	8.7	49
77	Hardening mechanisms and impact toughening of a high-strength steel containing low Ni and Cu additions. Acta Materialia, 2019, 172, 150-160.	7.9	64
78	The incredible excess entropy in high entropy alloys. Scripta Materialia, 2019, 168, 19-22.	5.2	22
79	Quantitative determination of the lattice constant in high entropy alloys. Scripta Materialia, 2019, 162, 468-471.	5.2	40
80	Design of highly thermal-shock resistant tungsten alloys with nanoscaled intra- and inter-type K bubbles. Journal of Alloys and Compounds, 2019, 782, 149-159.	5.5	28
81	Enhancement of strength-ductility trade-off in a high-entropy alloy through a heterogeneous structure. Acta Materialia, 2019, 165, 444-458.	7.9	336
82	Outstanding tensile properties of a precipitation-strengthened FeCoNiCrTi0.2 high-entropy alloy at room and cryogenic temperatures. Acta Materialia, 2019, 165, 228-240.	7.9	373
83	Phase field study of the copper precipitation in Fe-Cu alloy. Acta Materialia, 2019, 166, 560-571.	7.9	39
84	Nanoscale precipitation and its influence on strengthening mechanisms in an ultra-high strength low-carbon steel. International Journal of Plasticity, 2019, 113, 99-110.	8.8	94
85	Local structural mechanism for frozen-in dynamics in metallic glasses. Physical Review B, 2018, 97, .	3.2	6
86	Composition evolution of gamma prime nanoparticles in the Ti-doped CoFeCrNi high entropy alloy. Scripta Materialia, 2018, 148, 42-46.	5.2	54
87	Development of high-strength Co-free high-entropy alloys hardened by nanosized precipitates. Scripta Materialia, 2018, 148, 51-55.	5.2	154
88	Precipitation hardening in CoCrFeNi-based high entropy alloys. Materials Chemistry and Physics, 2018, 210, 2-11.	4.0	137
89	High B s Fe-based nanocrystalline alloy with high impurity tolerance. Journal of Materials Science, 2018, 53, 1437-1446.	3.7	49
90	Highâ€Entropy Alloy (HEA)â€Coated Nanolattice Structures and Their Mechanical Properties. Advanced Engineering Materials, 2018, 20, 1700625.	3.5	56

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91	Multicomponent intermetallic nanoparticles and superb mechanical behaviors of complex alloys. Science, 2018, 362, 933-937.	12.6	950
92	Effect of concentration on the structure of isothermally-annealed CuZr metallic glasses. Materials Science and Technology, 2018, 34, 2287-2293.	1.6	5
93	Strengthening mechanism in a high-strength carbon-containing powder metallurgical high entropy alloy. Intermetallics, 2018, 102, 58-64.	3.9	37
94	Ductilizing brittle high-entropy alloys via tailoring valence electron concentrations of precipitates by controlled elemental partitioning. Materials Research Letters, 2018, 6, 600-606.	8.7	41
95	Tuning the defects in face centered cubic high entropy alloy via temperature-dependent stacking fault energy. Scripta Materialia, 2018, 155, 134-138.	5.2	41
96	Asynchronous responses of mechanical and magnetic properties to structure relaxation for FeNbB bulk metallic glass. Journal of Iron and Steel Research International, 2018, 25, 637-643.	2.8	4
97	Solid solubility, precipitates, and stacking fault energy of micro-alloyed CoCrFeNi high entropy alloys. Journal of Alloys and Compounds, 2018, 769, 490-502.	5.5	46
98	A Review on Nano-Scale Precipitation in Steels. Technologies, 2018, 6, 36.	5.1	48
99	Density fluctuations with fractal order in metallic glasses detected by synchrotron X-ray nano-computed tomography. Acta Materialia, 2018, 155, 69-79.	7.9	35
100	Nanoscale Structural Evolution and Anomalous Mechanical Response of Nanoglasses by Cryogenic Thermal Cycling. Nano Letters, 2018, 18, 4188-4194.	9.1	20
101	Deformation of CoCrFeNi high entropy alloy at large strain. Scripta Materialia, 2018, 155, 54-57.	5.2	64
102	Solid solution island of the Co-Cr-Fe-Ni high entropy alloy system. Scripta Materialia, 2017, 131, 42-46.	5.2	81
103	Mutual interaction of shear bands in metallic glasses. Intermetallics, 2017, 85, 48-53.	3.9	23
104	The origin of negative stacking fault energies and nano-twin formation in face-centered cubic high entropy alloys. Scripta Materialia, 2017, 130, 96-99.	5.2	223
105	In-situ atomic force microscopy observation revealing gel-like plasticity on a metallic glass surface. Journal of Applied Physics, 2017, 121, .	2.5	13
106	Atom-probe study of Cu and NiAl nanoscale precipitation and interfacial segregation in a nanoparticle-strengthened steel. Materials Research Letters, 2017, 5, 562-568.	8.7	29
107	Heterogeneous precipitation behavior and stacking-fault-mediated deformation in a CoCrNi-based medium-entropy alloy. Acta Materialia, 2017, 138, 72-82.	7.9	553
108	Compositional and microstructural optimization and mechanical-property enhancement of cast Ti alloys based on Ti-6Al-4V alloy. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2017, 704, 91-101.	5.6	14

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109	Development of soft magnetic amorphous alloys with distinctly high Fe content. Science China: Physics, Mechanics and Astronomy, 2017, 60, 1.	5.1	17
110	Resonance ultrasonic actuation and local structural rejuvenation in metallic glasses. Physical Review B, 2017, 95, .	3.2	14
111	Phase separation of metastable CoCrFeNi high entropy alloy at intermediate temperatures. Scripta Materialia, 2017, 126, 15-19.	5.2	212
112	Co-precipitation of nanoscale particles in steels with ultra-high strength for a new era. Materials Today, 2017, 20, 142-154.	14.2	159
113	A ductile high entropy alloy with attractive magnetic properties. Journal of Alloys and Compounds, 2017, 694, 55-60.	5.5	183
114	Thermodynamics of vacancies and clusters in high-entropy alloys. Physical Review Materials, 2017, 1, .	2.4	28
115	Ductile CoCrFeNiMox high entropy alloys strengthened by hard intermetallic phases. Acta Materialia, 2016, 116, 332-342.	7.9	670
116	The kinetic origin of delayed yielding in metallic glasses. Applied Physics Letters, 2016, 108, 251901.	3.3	8
117	Origin of Shear Stability and Compressive Ductility Enhancement of Metallic Glasses by Metal Coating. Scientific Reports, 2016, 6, 27852.	3.3	11
118	Kinetic ways of tailoring phases in high entropy alloys. Scientific Reports, 2016, 6, 34628.	3.3	29
119	The Critical Criterion on Runaway Shear Banding in Metallic Glasses. Scientific Reports, 2016, 6, 21388.	3.3	18
120	Precipitate transformation from NiAl-type to Ni2AlMn-type and its influence on the mechanical properties of high-strength steels. Acta Materialia, 2016, 110, 31-43.	7.9	57
121	Effects of welding and post-weld heat treatments on nanoscale precipitation and mechanical properties of an ultra-high strength steel hardened by NiAl and Cu nanoparticles. Acta Materialia, 2016, 120, 216-227.	7.9	36
122	Correlation between local elastic heterogeneities and overall elastic properties in metallic glasses. Acta Materialia, 2016, 121, 266-276.	7.9	41
123	The general effect of atomic size misfit on glass formation in conventional and high-entropy alloys. Intermetallics, 2016, 78, 30-41.	3.9	22
124	Unveiling atomic-scale features of inherent heterogeneity in metallic glass by molecular dynamics simulations. Physical Review B, 2016, 93, .	3.2	39
125	Shear-banding Induced Indentation Size Effect in Metallic Glasses. Scientific Reports, 2016, 6, 28523.	3.3	15
126	Structural Signature of Plasticity Unveiled by Nano-Scale Viscoelastic Contact in a Metallic Glass. Scientific Reports, 2016, 6, 29357.	3.3	21

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127	Fabrication of a graded pore-sized porous FeAl intermetallic membrane. Powder Metallurgy, 2016, 59, 308-313.	1.7	4
128	Group precipitation and age hardening of nanostructured Fe-based alloys with ultra-high strengths. Scientific Reports, 2016, 6, 21364.	3.3	44
129	Polysynthetic twinned TiAl single crystals for high-temperature applications. Nature Materials, 2016, 15, 876-881.	27.5	476
130	Strengthening the CoCrFeNiNb0.25 high entropy alloy by FCC precipitate. Journal of Alloys and Compounds, 2016, 667, 53-57.	5.5	106
131	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.	2.8	11
132	Atomistic mechanism of nano-scale phase separation in fcc-based high entropy alloys. Journal of Alloys and Compounds, 2016, 663, 340-344.	5.5	16
133	Critical Shear Offset of Fracture in a Zr-based Metallic Glass. Journal of Iron and Steel Research International, 2016, 23, 53-56.	2.8	6
134	High-entropy alloy: challenges and prospects. Materials Today, 2016, 19, 349-362.	14.2	1,698
135	Atomistic mechanism of elastic softening in metallic glass under cyclic loading revealed by molecular dynamics simulations. Intermetallics, 2016, 68, 5-10.	3.9	23
136	Designing eutectic high entropy alloys of CoCrFeNiNb x. Journal of Alloys and Compounds, 2016, 656, 284-289.	5.5	340
137	Ferritic Alloys with Extreme Creep Resistance via Coherent Hierarchical Precipitates. Scientific Reports, 2015, 5, 16327.	3.3	80
138	Design of high entropy alloys based on the experience from commercial superalloys. Philosophical Magazine Letters, 2015, 95, 1-6.	1.2	22
139	The corrosion behavior of sintering micro-porous Niâ€“Cu alloy in hydrofluoric acid solution. Journal of Alloys and Compounds, 2015, 638, 7-13.	5.5	19
140	Effects of Nb additions on the microstructure and mechanical property of CoCrFeNi high-entropy alloys. Intermetallics, 2015, 60, 1-8.	3.9	326
141	Atomistic approach to predict the glass-forming ability in Zrâ€“Cuâ€“Al ternary metallic glasses. Journal of Alloys and Compounds, 2015, 627, 48-53.	5.5	27
142	The generalized thermodynamic rule for phase selection in multicomponent alloys. Intermetallics, 2015, 59, 75-80.	3.9	108
143	Effects of boron on the fracture behavior and ductility of cast Tiâ€“6Alâ€“4V alloys. Scripta Materialia, 2015, 100, 90-93.	5.2	28
144	Effects of boron additions and solutionizing treatments on microstructures and ductility of forged Tiâ€“6Alâ€“4V alloys. Journal of Alloys and Compounds, 2015, 624, 170-178.	5.5	22

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145	Softening-induced plastic flow instability and indentation size effect in metallic glass. Journal of the Mechanics and Physics of Solids, 2015, 77, 70-85.	4.8	36
146	Precipitation mechanism and mechanical properties of an ultra-high strength steel hardened by nanoscale NiAl and Cu particles. Acta Materialia, 2015, 97, 58-67.	7.9	186
147	Unusual fast secondary relaxation in metallic glass. Nature Communications, 2015, 6, 7876.	12.8	158
148	Design of high entropy alloys: A single-parameter thermodynamic rule. Scripta Materialia, 2015, 104, 53-55.	5.2	209
149	A geometric model for intrinsic residual strain and phase stability in high entropy alloys. Acta Materialia, 2015, 94, 152-161.	7.9	141
150	Atomic-size and lattice-distortion effects in newly developed high-entropy alloys with multiple principal elements. Intermetallics, 2015, 64, 63-69.	3.9	127
151	Mo doped porous Niâ€“Cu alloy as cathode for hydrogen evolution reaction in alkaline solution. RSC Advances, 2015, 5, 82078-82086.	3.6	31
152	On the source of plastic flow in metallic glasses: Concepts and models. Intermetallics, 2015, 67, 81-86.	3.9	99
153	Effects of Mn partitioning on nanoscale precipitation and mechanical properties of ferritic steels strengthened by NiAl nanoparticles. Acta Materialia, 2015, 84, 283-291.	7.9	108
154	Nanoscale phase separation in a fcc-based CoCrCuFeNiAl0.5 high-entropy alloy. Acta Materialia, 2015, 84, 145-152.	7.9	193
155	Quantitatively defining free-volume, interconnecting-zone and cluster in metallic glasses. Intermetallics, 2015, 57, 98-100.	3.9	8
156	Atomic-size effect and solid solubility of multicomponent alloys. Scripta Materialia, 2015, 94, 28-31.	5.2	339
157	Origin of yielding in metallic glass: Stress-induced flow. Applied Physics Letters, 2014, 104, 251901.	3.3	10
158	Delayed shear banding and evolution of local plastic flow in a metallic glass. Applied Physics Letters, 2014, 105, .	3.3	16
159	The Phase Competition and Stability of High-Entropy Alloys. Jom, 2014, 66, 1973-1983.	1.9	60
160	Solid solutioning in equiatomic alloys: Limit set by topological instability. Journal of Alloys and Compounds, 2014, 583, 410-413.	5.5	96
161	Improved ductility and oxidation resistance of cast Tiâ€“6Alâ€“4V alloys by microalloying. Journal of Alloys and Compounds, 2014, 602, 235-240.	5.5	54
162	Phase stability and tensile properties of Co-free Al0.5CrCuFeNi2 high-entropy alloys. Journal of Alloys and Compounds, 2014, 584, 530-537.	5.5	116

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163	Effect of size and base-element on the jerky flow dynamics in metallic glass. Acta Materialia, 2014, 63, 180-190.	7.9	54
164	Quantitatively defining interconnecting-zone in metallic glasses. Intermetallics, 2014, 49, 36-39.	3.9	6
165	Phase Selection in High-Entropy Alloys: From Nonequilibrium to Equilibrium. Jom, 2014, 66, 1966-1972.	1.9	132
166	Structure Heterogeneity in Metallic Glass: Modeling and Experiment. Journal of Materials Science and Technology, 2014, 30, 560-565.	10.7	55
167	The stability of hydrogen evolution activity and corrosion behavior of porous Ni3Alâ€“Mo electrode in alkaline solution during long-term electrolysis. Energy, 2014, 67, 19-26.	8.8	34
168	High-strength steels hardened mainly by nanoscale NiAl precipitates. Scripta Materialia, 2014, 87, 45-48.	5.2	95
169	First-principles prediction of the glass-forming ability in Zrâ€“Ni binary metallic glasses. Intermetallics, 2014, 53, 177-182.	3.9	8
170	Nanoindentation characterized initial creep behavior of a high-entropy-based alloy CoFeNi. Intermetallics, 2014, 53, 183-186.	3.9	47
171	Probing Stochastic Nano-Scale Inelastic Events in Stressed Amorphous Metal. Scientific Reports, 2014, 4, 6699.	3.3	13
172	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.	3.3	70
173	Superior Tensile Ductility in Bulk Metallic Glass with Gradient Amorphous Structure. Scientific Reports, 2014, 4, 4757.	3.3	77
174	Synergistic effects of Cu and Ni on nanoscale precipitation and mechanical properties of high-strength steels. Acta Materialia, 2013, 61, 5996-6005.	7.9	188
175	Characterization of porous Ni3Al electrode for hydrogen evolution in strong alkali solution. Materials Chemistry and Physics, 2013, 141, 553-561.	4.0	34
176	Yielding and shear banding of metallic glasses. Acta Materialia, 2013, 61, 5928-5936.	7.9	62
177	The dependence of shear modulus on dynamic relaxation and evolution of local structural heterogeneity in a metallic glass. Acta Materialia, 2013, 61, 4329-4338.	7.9	141
178	Characterization of the porous Ni3Alâ€“Mo electrodes during hydrogen generation from alkaline water electrolysis. Energy, 2013, 63, 216-224.	8.8	30
179	Sunflower-like Solidification Microstructure in a Near-eutectic High-entropy Alloy. Materials Research Letters, 2013, 1, 228-232.	8.7	53
180	Effect of molten quenching temperature on glass-forming ability of nanoquasi-crystal-forming Zr-based metallic glasses. Scripta Materialia, 2013, 68, 534-537.	5.2	13

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