

# Xiao-Zhou Liao

## List of Publications by Year in descending order

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298  
papers

22,359  
citations

8755

75  
h-index

10445

139  
g-index

307  
all docs

307  
docs citations

307  
times ranked

13917  
citing authors

#	ARTICLE	IF	CITATIONS
1	Ultra-strong and thermally stable nanocrystalline CrCoNi alloy. <i>Journal of Materials Science and Technology</i> , 2022, 106, 1-9.	10.7	21
2	Exceptional high-strain-rate tensile mechanical properties in a CrCoNi medium-entropy alloy. <i>Science China Materials</i> , 2022, 65, 811-819.	6.3	24
3	Mechanical properties and deformation behaviours of submicron-sized Cu-Al single crystals. <i>Acta Materialia</i> , 2022, 223, 117460.	7.9	21
4	Room-temperature-deformation-induced chemical short-range ordering in a supersaturated ultrafine-grained Al-Zn alloy. <i>Scripta Materialia</i> , 2022, 210, 114423.	5.2	16
5	Giant room temperature compression and bending in ferroelectric oxide pillars. <i>Nature Communications</i> , 2022, 13, 335.	12.8	14
6	Deformation-Induced Phase Transformations in Gold Nanoribbons with the 4H Phase. <i>ACS Nano</i> , 2022, 16, 3272-3279.	14.6	5
7	Evolution of microstructure and mechanical properties in 2205 duplex stainless steels during additive manufacturing and heat treatment. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2022, 835, 142695.	5.6	53
8	Quantifying the Influence of Inert Shell Coating on Luminescence Brightness of Lanthanide Upconversion Nanoparticles. <i>ACS Photonics</i> , 2022, 9, 758-764.	6.6	13
9	Texture evolution in a CrMnFeCoNi high-entropy alloy manufactured by laser powder bed fusion. <i>Journal of Materials Science</i> , 2022, 57, 9714-9725.	3.7	10
10	Cation-Vacancy-Enriched Nickel Phosphide for Efficient Electrosynthesis of Hydrogen Peroxides. <i>Advanced Materials</i> , 2022, 34, e2106541.	21.0	123
11	On the microstructure and texture evolution in 17-4 PH stainless steel during laser powder bed fusion: Towards textural design. <i>Journal of Materials Science and Technology</i> , 2022, 117, 183-195.	10.7	23
12	Uniting tensile ductility with ultrahigh strength via composition undulation. <i>Nature</i> , 2022, 604, 273-279.	27.8	80
13	Unveiling the grain boundary-related effects on the incipient plasticity and dislocation behavior in nanocrystalline CrCoNi medium-entropy alloy. <i>Journal of Materials Science and Technology</i> , 2022, 127, 98-107.	10.7	9
14	Formation of a transition V-rich structure during the $\beta'$ to $\beta$ phase transformation process in additively manufactured Ti-6Al-4V. <i>Acta Materialia</i> , 2022, 235, 118104.	7.9	22
15	Intergranular precipitation and chemical fluctuations in an additively manufactured 2205 duplex stainless steel. <i>Scripta Materialia</i> , 2022, 219, 114894.	5.2	10
16	Evidence of in-situ Cu clustering as a function of laser power during laser powder bed fusion of 17-4 PH stainless steel. <i>Scripta Materialia</i> , 2022, 219, 114896.	5.2	9
17	Composition-dependent dynamic precipitation and grain refinement in Al-Si system under high-pressure torsion. <i>Journal of Materials Science and Technology</i> , 2021, 68, 199-208.	10.7	16
18	Size-dependent deformation behavior of dual-phase, nanostructured CrCoNi medium-entropy alloy. <i>Science China Materials</i> , 2021, 64, 209-222.	6.3	20

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19	Effects of elemental segregation on microstructural evolution and local mechanical properties in a dynamically deformed CrMnFeCoNi high entropy alloy. <i>Scripta Materialia</i> , 2021, 190, 80-85.	5.2	28
20	Confined Ru Nanocatalysts on Surface to Enhance Ammonia Synthesis: An In situ ETEM Study. <i>ChemCatChem</i> , 2021, 13, 534-538.	3.7	10
21	Enhanced solar-driven benzaldehyde oxidation with simultaneous hydrogen production on Pt single-atom catalyst. <i>Applied Catalysis B: Environmental</i> , 2021, 284, 119759.	20.2	34
22	Introducing transformation twins in titanium alloys: an evolution of $\beta$ -variants during additive manufacturing. <i>Materials Research Letters</i> , 2021, 9, 119-126.	8.7	25
23	Key roles of particles in grain refinement and material strengthening for an aluminum matrix composite. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2021, 801, 140414.	5.6	23
24	Scalable and controllable fabrication of CNTs improved yolk-shelled Si anodes with advanced in operando mechanical quantification. <i>Energy and Environmental Science</i> , 2021, 14, 3502-3509.	30.8	45
25	Manipulating ferroelectric behaviors via electron-beam induced crystalline defects. <i>Nanoscale</i> , 2021, 13, 14330-14336.	5.6	2
26	Tailoring Electronegativity of Bimetallic Ni/Fe Metal-Organic Framework Nanosheets for Electrocatalytic Water Oxidation. <i>ACS Applied Nano Materials</i> , 2021, 4, 1967-1975.	5.0	30
27	The mechanism for the enhanced piezoelectricity in multi-elements doped (K,Na)NbO <sub>3</sub> ceramics. <i>Nature Communications</i> , 2021, 12, 881.	12.8	82
28	Deformation-induced crystalline-to-amorphous phase transformation in a CrMnFeCoNi high-entropy alloy. <i>Science Advances</i> , 2021, 7, .	10.3	89
29	Direct observation of nanoscale dynamics of ferroelectric degradation. <i>Nature Communications</i> , 2021, 12, 2095.	12.8	30
30	Correlation and Improvement of Bimetallic Electronegativity on Metal-Organic Frameworks for Electrocatalytic Water Oxidation. <i>Advanced Energy and Sustainability Research</i> , 2021, 2, 2100055.	5.8	8
31	Effects of nanostructural hierarchy on the hardness and thermal stability of an austenitic stainless steel. <i>Journal of Materials Research and Technology</i> , 2021, 12, 376-384.	5.8	13
32	A game-changing design of low-cost, large-size porous cocatalysts decorated by ultra-small photocatalysts for highly efficient hydrogen evolution. <i>Applied Catalysis B: Environmental</i> , 2021, 286, 119923.	20.2	43
33	Atomic coordinates and polarization map around a pair of 12a[011 $\bar{1}$ ] dislocation cores produced by plastic deformation in relaxor ferroelectric PIN $\bar{1}$ -PMN $\bar{1}$ -PT. <i>Journal of Applied Physics</i> , 2021, 129, .	2.5	2
34	Ultrahigh specific strength in a magnesium alloy strengthened by spinodal decomposition. <i>Science Advances</i> , 2021, 7, .	10.3	176
35	3D characterization of microstructural evolution and variant selection in additively manufactured Ti-6Al-4V. <i>Journal of Materials Science</i> , 2021, 56, 14763-14782.	3.7	10
36	Unraveling dual phase transformations in a CrCoNi medium-entropy alloy. <i>Acta Materialia</i> , 2021, 215, 117112.	7.9	43

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37	Phase transformation pathways in Ti-6Al-4V manufactured via electron beam powder bed fusion. Acta Materialia, 2021, 215, 117131.	7.9	25
38	Grain size dependent microstructure and texture evolution during dynamic deformation of nanocrystalline face-centered cubic materials. Acta Materialia, 2021, 216, 117088.	7.9	10
39	Microstructure-property gradients in Ni-based superalloy (Inconel 738) additively manufactured via electron beam powder bed fusion. Additive Manufacturing, 2021, 46, 102121.	3.0	9
40	Formation and 3D morphology of interconnected $\lambda$ microstructures in additively manufactured Ti-6Al-4V. Materialia, 2021, 20, 101201.	2.7	7
41	On the pitting corrosion of 2205 duplex stainless steel produced by laser powder bed fusion additive manufacturing in the as-built and post-processed conditions. Materials and Design, 2021, 212, 110260.	7.0	24
42	Intragranular glass/crystal conjugated particles in strip cast Nd-Fe-B flakes. Journal of Magnetism and Magnetic Materials, 2020, 495, 165863.	2.3	2
43	Deformation Twinning and Detwinning in Face-Centered Cubic Metallic Materials. Advanced Engineering Materials, 2020, 22, 1900479.	3.5	23
44	Effect of grain size on fatigue cracking at twin boundaries in a CoCrFeMnNi high-entropy alloy. Journal of Materials Science and Technology, 2020, 39, 1-6.	10.7	45
45	Thiocyanate-Modified Silver Nanofoam for Efficient $\text{CO}_2$ Reduction to CO. ACS Catalysis, 2020, 10, 1444-1453.	11.2	51
46	Effects of temperature and alloying content on the phase transformation and $\lambda$ twinning in Zr during rolling. Journal of Materials Science and Technology, 2020, 41, 76-80.	10.7	20
47	Mechanical behavior, deformation mechanism and microstructure evolutions of ultrafine-grained Al during recovery via annealing. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2020, 772, 138706.	5.6	26
48	Effect of scanning strategy on variant selection in additively manufactured Ti-6Al-4V. Additive Manufacturing, 2020, 36, 101581.	3.0	13
49	Giant tuning of ferroelectricity in single crystals by thickness engineering. Science Advances, 2020, 6, .	10.3	38
50	3D electron backscatter diffraction study of $\lambda$ lath morphology in additively manufactured Ti-6Al-4V. Ultramicroscopy, 2020, 218, 113073.	1.9	25
51	Effect of cyclic rapid thermal loadings on the microstructural evolution of a CrMnFeCoNi high-entropy alloy manufactured by selective laser melting. Acta Materialia, 2020, 196, 609-625.	7.9	89
52	Improvement of flow strength and scratch resistance of Ti/Cu nanocrystalline metal multilayer thin films by tailoring layer thickness and modulation ratio. Surface and Coatings Technology, 2020, 404, 126461.	4.8	9
53	Ultra-High Thermoelectric Performance in Bulk BiSbTe/Amorphous Boron Composites with Nano-Defect Architectures. Advanced Energy Materials, 2020, 10, 2000757.	19.5	67
54	Constructing phase boundary in AgNbO <sub>3</sub> antiferroelectrics: pathway simultaneously achieving high energy density and efficiency. Nature Communications, 2020, 11, 4824.	12.8	298

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55	Five-parameter characterization of intervariant boundaries in additively manufactured Ti-6Al-4V. <i>Materials and Design</i> , 2020, 196, 109177.	7.0	29
56	Thermoelectrics: Ultra-High Thermoelectric Performance in Bulk BiSbTe/Amorphous Boron Composites with Nano-Defect Architectures ( <i>Adv. Energy Mater.</i> 41/2020). <i>Advanced Energy Materials</i> , 2020, 10, 2070171.	19.5	3
57	Catalytic activity atlas of ternary Co-Fe-V metal oxides for the oxygen evolution reaction. <i>Journal of Materials Chemistry A</i> , 2020, 8, 15951-15961.	10.3	43
58	Microstructural softening induced adiabatic shear banding in Ti-23Nb-0.7Ta-2Zr-O gum metal. <i>Journal of Materials Science and Technology</i> , 2020, 54, 31-39.	10.7	21
59	Hierarchically porous carbon nanofibers embedded with cobalt nanoparticles for efficient H <sub>2</sub> O <sub>2</sub> detection on multiple sensor platforms. <i>Sensors and Actuators B: Chemical</i> , 2020, 319, 128243.	7.8	46
60	Multimodal $\beta$ - $\alpha$ precipitation in Inconel-738 Ni-based superalloy during electron-beam powder bed fusion additive manufacturing. <i>Journal of Materials Science</i> , 2020, 55, 13342-13350.	3.7	31
61	The on-demand engineering of metal-doped porous carbon nanofibers as efficient bifunctional oxygen catalysts for high-performance flexible Zn-air batteries. <i>Journal of Materials Chemistry A</i> , 2020, 8, 7297-7308.	10.3	41
62	Nanostructuring as a route to achieve ultra-strong high- and medium-entropy alloys with high creep resistance. <i>Journal of Alloys and Compounds</i> , 2020, 830, 154656.	5.5	21
63	Electronic Modulation of Nickel Disulfide toward Efficient Water Electrolysis. <i>Small</i> , 2020, 16, e1905885.	10.0	52
64	Phase transformation and structural evolution in a Ti-5at.% Al alloy induced by cold-rolling. <i>Journal of Materials Science and Technology</i> , 2020, 49, 211-223.	10.7	22
65	Effect of Ion Irradiation Introduced by Focused Ion-Beam Milling on the Mechanical Behaviour of Sub-Micron-Sized Samples. <i>Scientific Reports</i> , 2020, 10, 10324.	3.3	35
66	Graded Microstructure of Additive Manufactured Ti-6Al-4V via Electron Beam Melting. <i>Microscopy and Microanalysis</i> , 2019, 25, 498-499.	0.4	0
67	Unravelling the effects of layered supports on Ru nanoparticles for enhancing N <sub>2</sub> reduction in photocatalytic ammonia synthesis. <i>Applied Catalysis B: Environmental</i> , 2019, 259, 118026.	20.2	36
68	Selective laser melting enabling the hierarchically heterogeneous microstructure and excellent mechanical properties in an interstitial solute strengthened high entropy alloy. <i>Materials Research Letters</i> , 2019, 7, 453-459.	8.7	129
69	Atomistic Mechanism of Stress-Induced Combined Slip and Diffusion in Sub-5 Nanometer-Sized Ag Nanowires. <i>ACS Nano</i> , 2019, 13, 8708-8716.	14.6	37
70	Simultaneously enhancing strength and ductility of a high-entropy alloy via gradient hierarchical microstructures. <i>International Journal of Plasticity</i> , 2019, 123, 178-195.	8.8	201
71	Effect of Cyclic Thermal Loadings on the Microstructural Evolution of a Cantor Alloy in 3D Printing Processes. <i>Microscopy and Microanalysis</i> , 2019, 25, 2568-2569.	0.4	2
72	Ultrathin nickel boride nanosheets anchored on functionalized carbon nanotubes as bifunctional electrocatalysts for overall water splitting. <i>Journal of Materials Chemistry A</i> , 2019, 7, 764-774.	10.3	123

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73	Cooperation of Ni and CaO at Interface for CO <sub>2</sub> Reforming of CH <sub>4</sub> : A Combined Theoretical and Experimental Study. ACS Catalysis, 2019, 9, 10060-10069.	11.2	68
74	Real-time observation of stress-induced domain evolution in a [011]ÂPIN-PMN-PT relaxor ferroelectric single crystal. Acta Materialia, 2019, 175, 436-444.	7.9	12
75	A core-sheath holey graphene/graphite composite fiber intercalated with MoS <sub>2</sub> nanosheets for high-performance fiber supercapacitors. Electrochimica Acta, 2019, 305, 493-501.	5.2	51
76	Strengthening mechanisms in an ultrafine-grained Al Zn Mg Cu alloy processed by high pressure torsion at different temperatures. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2019, 752, 223-232.	5.6	34
77	Room-temperature superplasticity in Au nanowires and their atomistic mechanisms. Nanoscale, 2019, 11, 8727-8735.	5.6	9
78	Big to Small: Ultrafine Mo <sub>2</sub> C Particles Derived from Giant Polyoxomolybdate Clusters for Hydrogen Evolution Reaction. Small, 2019, 15, e1900358.	10.0	53
79	Unique defect evolution during the plastic deformation of a metal matrix composite. Scripta Materialia, 2019, 162, 316-320.	5.2	44
80	Ultralow-platinum-loading nanocarbon hybrids for highly sensitive hydrogen peroxide detection. Sensors and Actuators B: Chemical, 2019, 283, 304-311.	7.8	27
81	Understanding formation of Mg-depletion zones in Al-Mg alloys under high pressure torsion. Journal of Materials Science and Technology, 2019, 35, 858-864.	10.7	14
82	Cobalt Nanoparticles Confined in Carbon Cages Derived from Zeolitic Imidazolate Frameworks as Efficient Oxygen Electrocatalysts for Zinc-Air Batteries. Batteries and Supercaps, 2019, 2, 355-363.	4.7	16
83	Excellent ductility and serration feature of metastable CoCrFeNi high-entropy alloy at extremely low temperatures. Science China Materials, 2019, 62, 853-863.	6.3	129
84	Dynamic precipitation, segregation and strengthening of an Al-Zn-Mg-Cu alloy (AA7075) processed by high-pressure torsion. Acta Materialia, 2019, 162, 19-32.	7.9	166
85	Cryogenic-deformation-induced phase transformation in an FeCoCrNi high-entropy alloy. Materials Research Letters, 2018, 6, 236-243.	8.7	164
86	Stress-induced reversible and irreversible ferroelectric domain switching. Applied Physics Letters, 2018, 112, .	3.3	15
87	<i>In situ</i> mechanical resonance behaviour of pristine and defective zinc blende GaAs nanowires. Nanoscale, 2018, 10, 2588-2595.	5.6	15
88	Ultrahigh piezoelectricity in ferroelectric ceramics by design. Nature Materials, 2018, 17, 349-354.	27.5	874
89	Milk powder-derived bifunctional oxygen electrocatalysts for rechargeable Zn-air battery. Energy Storage Materials, 2018, 11, 134-143.	18.0	45
90	Opposite grain size dependence of strain rate sensitivity of copper at low vs high strain rates. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2018, 738, 430-438.	5.6	39

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91	Improving the strength and retaining the ductility of microstructural graded coarse-grained materials with low stacking fault energy. <i>Materials and Design</i> , 2018, 160, 21-33.	7.0	26
92	Hierarchical microstructure and strengthening mechanisms of a CoCrFeNiMn high entropy alloy additively manufactured by selective laser melting. <i>Scripta Materialia</i> , 2018, 154, 20-24.	5.2	412
93	Structural evolutions of metallic materials processed by severe plastic deformation. <i>Materials Science and Engineering Reports</i> , 2018, 133, 1-59.	31.8	401
94	Size effect for achieving high mechanical performance body-centered cubic metals and alloys. <i>Science China Materials</i> , 2018, 61, 1495-1516.	6.3	14
95	Nano-Decorated Holey Graphene Composite Fibers for Micro-Supercapacitors with Ultrahigh Energy Density. <i>Small</i> , 2018, 14, e1800582.	10.0	113
96	Confinement Impact for the Dynamics of Supported Metal Nanocatalyst. <i>Small</i> , 2018, 14, 1801586.	10.0	4
97	10.1063/1.5020534.4., 2018, , .		0
98	Facilitation of Ferroelectric Switching via Mechanical Manipulation of Hierarchical Nanoscale Domain Structures. <i>Physical Review Letters</i> , 2017, 118, 017601.	7.8	41
99	Tuning Hydrogen and Carbon Nanotube Production from Phenol Steam Reforming on Ni/Fe-Based Nanocatalysts. <i>ACS Sustainable Chemistry and Engineering</i> , 2017, 5, 2098-2108.	6.7	19
100	Dual mechanisms of grain refinement in a FeCoCrNi high-entropy alloy processed by high-pressure torsion. <i>Scientific Reports</i> , 2017, 7, 46720.	3.3	63
101	Effect of strain rate on the mechanical properties of a gum metal with various microstructures. <i>Acta Materialia</i> , 2017, 132, 193-208.	7.9	23
102	In-situ investigation of dislocation tangle "untangle" processes in small-sized body-centered cubic Nb single crystals. <i>Materials Letters</i> , 2017, 198, 16-18.	2.6	4
103	Effect of sample orientation and initial microstructures on the dynamic recrystallization of a Magnesium alloy. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2017, 691, 150-154.	5.6	27
104	Atomic-scale understanding of stress-induced phase transformation in cold-rolled Hf. <i>Acta Materialia</i> , 2017, 131, 271-279.	7.9	98
105	On the wurtzite to tetragonal phase transformation in ZnO nanowires. <i>Nanotechnology</i> , 2017, 28, 165705.	2.6	9
106	In-situ high-resolution transmission electron microscopy investigation of grain boundary dislocation activities in a nanocrystalline CrMnFeCoNi high-entropy alloy. <i>Journal of Alloys and Compounds</i> , 2017, 709, 802-807.	5.5	53
107	Mechanical behaviors of nanowires. <i>Applied Physics Reviews</i> , 2017, 4, 031104.	11.3	54
108	Hydrogen evolution reaction activity of nickel phosphide is highly sensitive to electrolyte pH. <i>Journal of Materials Chemistry A</i> , 2017, 5, 20390-20397.	10.3	98

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109	Kinetics of Domain Switching by Mechanical and Electrical Stimulation in Relaxor-Based Ferroelectrics. <i>Physical Review Applied</i> , 2017, 8, .	3.8	11
110	Effect of triple junctions on deformation twinning in a nanostructured Cu-Zn alloy: A statistical study using transmission Kikuchi diffraction. <i>Beilstein Journal of Nanotechnology</i> , 2016, 7, 1501-1506.	2.8	1
111	Mechanical Behaviors of Semiconductor Nanowires. <i>Semiconductors and Semimetals</i> , 2016, 94, 109-158.	0.7	7
112	Fracture mechanism of an Al/AlN/CrAlN gradient coating on nitrogen implanted magnesium alloy. <i>Surface and Coatings Technology</i> , 2016, 302, 126-130.	4.8	10
113	The effect of grain size on the annealing-induced phase transformation in an Al <sub>0.3</sub> CoCrFeNi high entropy alloy. <i>Materials and Design</i> , 2016, 105, 381-385.	7.0	71
114	Deformation twinning in hexagonal materials. <i>MRS Bulletin</i> , 2016, 41, 314-319.	3.5	73
115	Microstructural evolution and phase transformation in twinning-induced plasticity steel induced by high-pressure torsion. <i>Acta Materialia</i> , 2016, 109, 300-313.	7.9	58
116	Manipulation of Nanoscale Domain Switching Using an Electron Beam with Omnidirectional Electric Field Distribution. <i>Physical Review Letters</i> , 2016, 117, 027601.	7.8	35
117	A double strengthened surface layer fabricated by nitro-chromizing on carbon steel. <i>Surface and Coatings Technology</i> , 2016, 298, 83-92.	4.8	13
118	Effect of equal channel angular pressing on the thermal-annealing-induced microstructure and texture evolution of cold-rolled copper. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2016, 674, 186-192.	5.6	33
119	Correlation between hardness and shear banding of metallic glasses under nanoindentation. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2016, 657, 38-42.	5.6	14
120	A detailed appraisal of the stress exponent used for characterizing creep behavior in metallic glasses. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2016, 654, 53-59.	5.6	19
121	Precipitation processes in Al-Cu-Mg-Sn and Al-Cu-Mg-Sn-Ag. <i>Materials and Design</i> , 2016, 96, 385-391.	7.0	21
122	Effect of a High Density of Stacking Faults on the Young's Modulus of GaAs Nanowires. <i>Nano Letters</i> , 2016, 16, 1911-1916.	9.1	61
123	Effects of loading misalignment and tapering angle on the measured mechanical properties of nanowires. <i>Nanotechnology</i> , 2015, 26, 435704.	2.6	6
124	Grain boundary formation by remnant dislocations from the de-twinning of thin nano-twins. <i>Scripta Materialia</i> , 2015, 100, 98-101.	5.2	58
125	Thermal stability, dynamic mechanical analysis and nanoindentation behavior of FeSiB(Cu) amorphous alloys. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2015, 626, 480-499.	5.6	40
126	Determination of Young's Modulus of Ultrathin Nanomaterials. <i>Nano Letters</i> , 2015, 15, 5279-5283.	9.1	44



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127	Influence of Al content on the strain-hardening behavior of aged low density Fe-Mn-Al-C steels with high Al content. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2015, 639, 187-191.	5.6	82
128	Hardening of an Al <sub>0.3</sub> CoCrFeNi high entropy alloy via high-pressure torsion and thermal annealing. <i>Materials Letters</i> , 2015, 151, 126-129.	2.6	135
129	Inhomogeneous creep deformation in metallic glasses. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2015, 648, 57-60.	5.6	16
130	In-situ synthesis of Ag nanoparticles by electron beam irradiation. <i>Materials Characterization</i> , 2015, 110, 1-4.	4.4	15
131	Spontaneous formation of core-shell GaAsP nanowires and their enhanced electrical conductivity. <i>Journal of Materials Chemistry C</i> , 2015, 3, 1745-1750.	5.5	18
132	Atomic-scale investigation of interface-facilitated deformation twinning in severely deformed Ag-Cu nanolamellar composites. <i>Applied Physics Letters</i> , 2015, 107, .	3.3	31
133	Mechanisms for enhanced plasticity in magnesium alloys. <i>Acta Materialia</i> , 2015, 82, 344-355.	7.9	119
134	Deformation-induced phase transformation in 4H-SiC nanopillars. <i>Acta Materialia</i> , 2014, 80, 392-399.	7.9	16
135	Atomic-scale observation of parallel development of super elasticity and reversible plasticity in GaAs nanowires. <i>Applied Physics Letters</i> , 2014, 104, .	3.3	26
136	Martensitic Phase Transformation and Deformation Behavior of Fe-Mn-C-Al Twinning-Induced Plasticity Steel during High-Pressure Torsion. <i>Advanced Engineering Materials</i> , 2014, 16, 927-932.	3.5	12
137	Twinning via the motion of incoherent twin boundaries nucleated at grain boundaries in a nanocrystalline Cu alloy. <i>Scripta Materialia</i> , 2014, 72-73, 35-38.	5.2	35
138	Elemental diffusion during the droplet epitaxy growth of In(Ga)As/GaAs(001) quantum dots by metal-organic chemical vapor deposition. <i>Applied Physics Letters</i> , 2014, 104, .	3.3	4
139	Improving the plasticity of bulk metallic glasses via pre-compression below the yield stress. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2014, 602, 68-76.	5.6	29
140	Characterizing deformed ultrafine-grained and nanocrystalline materials using transmission Kikuchi diffraction in a scanning electron microscope. <i>Acta Materialia</i> , 2014, 62, 69-80.	7.9	142
141	Strength, grain refinement and solute nanostructures of an Al-Mg-Si alloy (AA6060) processed by high-pressure torsion. <i>Acta Materialia</i> , 2014, 63, 169-179.	7.9	123
142	Concurrent microstructural evolution of ferrite and austenite in a duplex stainless steel processed by high-pressure torsion. <i>Acta Materialia</i> , 2014, 63, 16-29.	7.9	90
143	Microstructure and texture analysis of $\delta$ -hydride precipitation in Zircaloy-4 materials by electron microscopy and neutron diffraction. <i>Journal of Applied Crystallography</i> , 2014, 47, 303-315.	4.5	31
144	Phases in pure hafnium. <i>Philosophical Magazine Letters</i> , 2014, 94, 370-376.	1.2	11

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145	Shear banding in commercial pure titanium deformed by dynamic compression. <i>Acta Materialia</i> , 2014, 79, 47-58.	7.9	89
146	Preface to the special issue on ultrafine-grained materials. <i>Journal of Materials Science</i> , 2014, 49, 6485-6486.	3.7	3
147	Ultra-high-strength submicron-sized metallic glass wires. <i>Scripta Materialia</i> , 2014, 84-85, 27-30.	5.2	17
148	Nanocrystalline $\beta$ -Ti alloy with high hardness, low Young's modulus and excellent in vitro biocompatibility for biomedical applications. <i>Materials Science and Engineering C</i> , 2013, 33, 3530-3536.	7.3	81
149	Preferential nucleation and growth of InAs/GaAs(001) quantum dots on defected sites by droplet epitaxy. <i>Scripta Materialia</i> , 2013, 69, 638-641.	5.2	4
150	Strengthening Brittle Semiconductor Nanowires through Stacking Faults: Insights from in Situ Mechanical Testing. <i>Nano Letters</i> , 2013, 13, 4369-4373.	9.1	45
151	New atom probe approaches to studying segregation in nanocrystalline materials. <i>Ultramicroscopy</i> , 2013, 132, 158-163.	1.9	14
152	Nano twins in ultrafine-grained Ti processed by dynamic plastic deformation. <i>Scripta Materialia</i> , 2013, 68, 475-478.	5.2	41
153	Precipitation of quasicrystal approximant phases in an Al-Mg-Cu-Ge alloy. <i>Philosophical Magazine Letters</i> , 2013, 93, 77-84.	1.2	5
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