Yonghao Zhao

List of Articles by Year
in descending order

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163 peer-reviewed articles	10,309 peer-reviewed citations	58895 45 peer-reviewed h-index	585315 3.64 score
169 documents	10988 doc citations	65478 47 h-index	12250 citing authors

#	Article	IF	Citations
1	Preparing strong and ductile AZ80 Mg alloy via warm rotary swaging. Journal of Materials Research and Technology, 2025, 34, 807-818.	4.9	6
2	Short-range ordering suppresses mechanical annealing in CoCrNi alloy nanopillars. International Journal of Mechanical Sciences, 2025, 287, 109979.	8.2	9
3	Mechanical behavior and deformation mechanisms of Mg–5Y alloy under dynamic compressive impact. Journal of Materials Research and Technology, 2025, 35, 4249-4264.	4.9	15
4	Microstructural origins of cycle hardening behaviors and fracture mechanisms of 304L stainless steel during low-cycle fatigue. International Journal of Fatigue, 2025, 194, 108859.	5.2	6
5	Intergranular corrosion behavior and mechanism of α single-phase Mg–Li–Al alloys. Journal of Materials Research and Technology, 2025, 36, 4067-4072.	4.9	9
6	WheatGP, a genomic prediction method based on CNN and LSTM. Briefings in Bioinformatics, 2025, 26, .	4.0	15
7	Achieving grain refinement and strength enhancement of 2025 aluminum alloy by introducing a novel Al-TCB master alloy. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2025, 937, 148467.	5.4	2
8	Tribo-induced microstructural evolutions and wear mechanisms of AlCoCrFeNi2.1 eutectic high-entropy alloy at elevated temperatures. Acta Materialia, 2025, 296, 121272.	7.6	62
9	Inverse Hall-Petch and nanocrystal-amorphous transition of broad-spectrum W content NiW alloys. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2025, 943, 148774.	5.4	6
10	Significant improvement of the room and cryogenic mechanical properties of an AlN particle reinforced Al matrix composite by alloying element magnesium. Composites Part B: Engineering, 2024, 268, 111056.	10.5	46
11	Friction anisotropy and associated surface deformation mechanisms in heterogeneous copper/bronze laminates. Materials Characterization, 2024, 208, 113644.	4.2	9
12	Effect of deformation processing on microstructure evolution and mechanical properties of Mg–Li alloys: A review. Transactions of Nonferrous Metals Society of China, 2024, 34, 1-25.	3.5	48
13	Simultaneously enhancing strength and ductility of coarse grain Cu–Al alloy via a macro dual-cable structure. Composites Part B: Engineering, 2024, 276, 111371.	10.5	28
14	A review on copper alloys with high strength and high electrical conductivity. Journal of Alloys and Compounds, 2024, 990, 174456.	4.9	200
15	Electrodeposition of nanocrystalline Ni and NiCr alloy coatings: Effects of Cr content on microhardness and wear resistance improvement. Journal of Materials Research and Technology, 2024, 30, 3584-3593.	4.9	31
16	Enhancing strength–ductility synergy of AlNp/Al composite by regulating heterostructure of matrix grain and particle distribution. Transactions of Nonferrous Metals Society of China, 2024, 34, 1049-1064.	3.5	18
17	Ultrastrong and ductile medium-entropy alloys via hierarchical ordering. Science Advances, 2024, 10, .	8.1	60
18	Improving the uniform elongation of ultrafine-grained pure titanium through judicious allocation of work hardening. Journal of Materials Processing Technology, 2024, 330, 118484.	5.4	17

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19	Lattice Distortion Promotes Incipient Plasticity in Multiprincipal Element Alloys. Nano Letters, 2024, 24, 9004-9010.	6.2	21
20	Wear behavior and microstructure evolution of lamellar γ-TiAl alloy at room and elevated temperatures. Tribology International, 2024, 200, 110168.	5.5	14
21	Low cycle fatigue and cycle hardening behavior of heterogeneous Ni2Co1Fe1V0.5Mo0.2 medium entropy alloy. Intermetallics, 2024, 175, 108473.	3.8	1
22	Impact of gradient microstructure on strain hardening via activation of multiple deformation mechanisms in CoCrNi medium entropy alloy. Materials Futures, 2024, 3, 041002.	6.7	18
23	A review of microstructure control and mechanical performance optimization of γ-TiAl alloys. Journal of Alloys and Compounds, 2023, 932, 167611.	4.9	213
24	Predicting single-phase solid solutions in as-sputtered high entropy alloys: High-throughput screening with machine-learning model. Journal of Materials Science and Technology, 2023, 138, 70-79.	12.3	51
25	Unconventional dislocation starvation behavior of medium-entropy alloy single crystal pillars containing pre-existing dislocations. Journal of Materials Science and Technology, 2023, 142, 60-75.	12.3	14
26	Creep properties and deformation mechanisms of a Ni2Co1Fe1V0.5Mo0.2 medium-entropy alloy. Acta Materialia, 2023, 245, 118590.	7.6	44
27	Effect of aging temperature on the hardening behavior and precipitation evolution of Mg-10Gd alloy. Materials Characterization, 2023, 196, 112580.	4.2	41
28	A review on thermal stability of nanostructured materials. Journal of Alloys and Compounds, 2023, 938, 168528.	4.9	47
29	Enhanced mechanical properties of a carbon and nitrogen co-doped interstitial high-entropy alloy via tuning ultrafine-grained microstructures. Journal of Materials Science and Technology, 2023, 144, 128-137.	12.3	31
30	An exceptionally wear-resistant CoFeNi2 medium entropy alloy via tribo-induced nanocrystallites with amorphous boundaries. Applied Surface Science, 2023, 614, 156102.	5.1	26
31	Adiabatic shear localization induced by rotationally accelerated shot peening. Journal of Materials Science, 2023, 58, 1670-1679.	2.8	4
32	Dislocation mediated dynamic tension-compression asymmetry of a Ni2CoFeV0.5Mo0.2 medium entropy alloy. Journal of Materials Science and Technology, 2023, 159, 204-218.	12.3	19
33	Strengthening and toughening bulk Ni2CoFeV0.5 medium-entropy alloy via thermo-mechanical treatment. Journal of Materials Science and Technology, 2023, 151, 19-29.	12.3	31
34	Tailoring microstructure of Ni2CoFe medium-entropy alloy to achieve optimal comprehensive mechanical properties. Journal of Materials Research and Technology, 2023, 23, 4258-4267.	4.9	8
35	Simultaneously enhancing strength and ductility of HCP titanium via multi-modal grain induced extra <c+a> dislocation hardening. Acta Materialia, 2023, 252, 118949.	7.6	145
36	Revealing the ultra-high high-temperature compressive mechanical properties and deformation mechanism of a heterostructured AlNp/Al nanocomposite. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2023, 878, 145199.	5.4	18

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37	Tribo-induced microstructural changes and associated wear mechanisms of CoFeNi2 medium entropy alloy at elevated temperatures. Tribology International, 2023, 189, 108892.	5.5	20
38	Enhancing strength and ductility of Al-matrix composite via a dual-heterostructure strategy. International Journal of Plasticity, 2023, 171, 103825.	10.9	155
39	Ternary relation among stacking fault energy, grain size and twin nucleation size in nanocrystalline and ultrafine grained CuAl alloys. Journal of Alloys and Compounds, 2022, 896, 162953.	4.9	13
40	Enhancing strength and electrical conductivity of Cu–Cr composite wire by two-stage rotary swaging and aging treatments. Composites Part B: Engineering, 2022, 231, 109567.	10.5	90
41	A review on mechanical properties and microstructure of ultrafine grained metals and alloys processed by rotary swaging. Journal of Alloys and Compounds, 2022, 896, 163122.	4.9	82
42	Microstructure and mechanical behaviors of Al/Cu laminated composites fabricated by accumulative roll bonding and intermediate annealing. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2022, 832, 142510.	5.4	79
43	Charpy impact behavior and deformation mechanisms of Cr26Mn20Fe20Co20Ni14 high-entropy alloy at ambient and cryogenic temperatures. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2022, 837, 142735.	5.4	25
44	Mechanical Properties and Deformation Mechanisms of Heterostructured High-Entropy and Medium-Entropy Alloys: A Review. Frontiers in Materials, 2022, 8, .	2.0	75
45	Achieving maximum strength-ductility combination in fine-grained Cu-Zn alloy via detwinning and twinning deformation mechanisms. Journal of Alloys and Compounds, 2022, 906, 164401.	4.9	32
46	Microstructural origins for quench cracking of a boron steel: Boron distribution. Materials Characterization, 2022, 190, 112022.	4.2	12
47	Novel as-cast NiAlCoFeNb dual-phase high-entropy alloys with high hardness. Materials Letters, 2022, 324, 132676.	1.8	13
48	Microstructure and enhanced cryogenic tensile property of a heterostructured Al–AlN/Al–Mg composite fabricated by accumulative roll bonding (ARB). Journal of Materials Research and Technology, 2022, 21, 532-545.	4.9	52
49	Tribo-induced surface deformation mechanisms govern friction and wear in ultra-light HCP and duplex Mg–Li alloys. Wear, 2022, 510-511, 204507.	3.2	9
50	Precipitation and aging phenomena in an ultrafine grained Al-Zn alloy by severe plastic deformation. Journal of Alloys and Compounds, 2021, 851, 156931.	4.9	40
51	Microstructure evolution and mechanical properties of commercial pure titanium subjected to rotary swaging. Journal of Alloys and Compounds, 2021, 859, 158222.	4.9	48
52	Key roles of particles in grain refinement and material strengthening for an aluminum matrix composite. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2021, 801, 140414.	5.4	39
53	Revealing grain coarsening and detwinning in bimodal Cu under tension. Reviews on Advanced Materials Science, 2021, 60, 15-24.	2.0	6
54	Deformation mechanisms and plasticity of ultrafine-grained Al under complex stress state revealed by digital image correlation technique. Nanotechnology Reviews, 2021, 10, 73-86.	3.6	9

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55	Plasticity and Deformation Mechanisms of Ultrafine-Grained Ti in Necking Region Revealed by Digital Image Correlation Technique. Nanomaterials, 2021, 11, 574.	3.0	11
56	Breaking Material Property Trade-offs via Macrodesign of Microstructure. Nano Letters, 2021, 21, 3191-3197.	6.2	103
57	Grain size effect on tensile properties and slip systems of pure magnesium. Acta Materialia, 2021, 206, 116604.	7.6	278
58	Revealing twinning from triple lines in nanocrystalline copper via molecular dynamics simulation and experimental observation. Journal of Materials Research and Technology, 2021, 11, 342-350.	4.9	8
59	Enhanced electrical conductivity and mechanical properties in thermally stable fine-grained copper wire. Communications Materials, 2021, 2, .	5.3	119
60	In situ thermomechanical processing to avoid grain boundary precipitation and strength-ductility loss of age hardening alloys. Transactions of Nonferrous Metals Society of China, 2021, 31, 1205-1216.	3.5	13
61	Effects of nanostructural hierarchy on the hardness and thermal stability of an austenitic stainless steel. Journal of Materials Research and Technology, 2021, 12, 376-384.	4.9	21
62	Mechanical properties and deformation mechanisms of a Ni2Co1Fe1V0.5Mo0.2 medium-entropy alloy at elevated temperatures. Acta Materialia, 2021, 213, 116982.	7.6	94
63	Grain Refinement Mechanisms in Gradient Nanostructured AZ31B Mg Alloy Prepared via Rotary Swaging. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2021, 52, 4053-4065.	1.7	35
64	The mechanism for the serrated flow induced by Suzuki segregation in a Ni alloy. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2021, 820, 141575.	5.4	17
65	Dynamic strain ageing induced by Suzuki segregation in a Ni alloy. Materials Letters, 2021, 296, 129879.	1.8	2
66	Nano-Gradient Materials Prepared by Rotary Swaging. Nanomaterials, 2021, 11, 2223.	3.0	35
67	Dynamic impact behavior and deformation mechanisms of Cr26Mn20Fe20Co20Ni14 high-entropy alloy. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2021, 824, 141858.	5.4	61
68	Influences of strain rate, Al concentration and grain heterogeneity on mechanical behavior of CoNiFeAlxCu1-x high-entropy alloys: a molecular dynamics simulation. Journal of Materials Research and Technology, 2021, 14, 2071-2084.	4.9	44
69	Significance of surface layer integrity for sustaining the ductility of gradient-structured nickel. Materials Letters, 2021, 303, 130491.	1.8	4
70	Revealing hetero-deformation induced (HDI) stress strengthening effect in laminated Al-(TiB2+TiC)p/6063 composites prepared by accumulative roll bonding. Journal of Alloys and Compounds, 2020, 815, 152285.	4.9	67
71	On the Heterogeneity of Local Shear Strain Induced by High-Pressure Torsion. Advanced Engineering Materials, 2020, 22, .	2.2	22
72	Mechanical Properties and Microstructures of Commercial-Purity Aluminum Processed by Rotational Accelerated Shot Peening Plus Cold Rolling. Advanced Engineering Materials, 2020, 22, .	2.2	16

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73	Improving the high-temperature ductility of Al composites by tailoring the nanoparticle network. Materialia, 2020, 9, 100523.	1.9	26
74	Revealing intrinsic lattice expansion and grain boundary excess volume of nanocrystalline Se prepared via various methods. Materialia, 2020, 9, 100535.	1.9	3
75	Simultaneously improving the tensile strength and ductility of the AlNp/ Al composites by the particle's hierarchical structure with bimodal distribution and nano-network. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2020, 770, 138519.	5.4	28
76	Effective Surface Nano-Crystallization of Ni2FeCoMo0.5V0.2 Medium Entropy Alloy by Rotationally Accelerated Shot Peening (RASP). Entropy, 2020, 22, 1074.	1.2	12
77	Effect of Cold and Warm Rolling on the Particle Distribution and Tensile Properties of Heterogeneous Structured AlN/Al Nanocomposites. Materials, 2020, 13, 4001.	2.1	2
78	Enhancing the strain hardening and ductility of Mg-Y alloy by introducing stacking faults. Journal of Magnesium and Alloys, 2020, 8, 1221-1227.	10.0	117
79	Bulk nanocrystalline high-strength magnesium alloys prepared via rotary swaging. Acta Materialia, 2020, 200, 274-286.	7.6	308
80	Microstructure and Mechanical Properties of Ultrafine-Grained Copper by Accumulative Roll Bonding and Subsequent Annealing. Materials, 2020, 13, 5171.	2.1	27
81	Twin boundary-dislocation interactions in nanocrystalline Cu-30% Zn alloys prepared by high pressure torsion. Journal of Materials Research and Technology, 2020, 9, 11958-11967.	4.9	18
82	Stiff, strong and ductile heterostructured aluminum composites reinforced with oriented nanoplatelets. Scripta Materialia, 2020, 189, 140-144.	4.3	68
83	Microstructural softening induced adiabatic shear banding in Ti-23Nb-0.7Ta-2Zr-O gum metal. Journal of Materials Science and Technology, 2020, 54, 31-39.	12.3	22
84	Critical microstructures and defects in heterostructured materials and their effects on mechanical properties. Acta Materialia, 2020, 189, 129-144.	7.6	316
85	Improving the combination of electrical conductivity and tensile strength of Al 1070 by rotary swaging deformation. Results in Physics, 2019, 13, 102236.	2.6	54
86	Microstructure and corrosion behavior of Al-TiB2/TiC composites processed by hot rolling. Results in Physics, 2019, 14, 102471.	2.6	37
87	Optimization of strength, ductility and electrical conductivity of a Cu–Cr–Zr alloy by cold rolling and aging treatment. Vacuum, 2019, 167, 329-335.	3.1	107
88	Extraordinary ductility and strain hardening of Cr26Mn20Fe20Co20Ni14 TWIP high-entropy alloy by cooperative planar slipping and twinning. Materialia, 2019, 8, 100485.	1.9	72
89	Grain size effect on deformation twin thickness in a nanocrystalline metal with low stacking-fault energy. Journal of Materials Research, 2019, 34, 2398-2405.	1.9	17
90	Reactive synthesis of hexagonal Ti5P3.16 crystals and their heterogenous nucleating mechanism on primary Si. Journal of Alloys and Compounds, 2019, 777, 8-17.	4.9	18

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91	Unique defect evolution during the plastic deformation of a metal matrix composite. Scripta Materialia, 2019, 162, 316-320.	4.3	54
92	A promising new class of irradiation tolerant materials: Ti2ZrHfV0.5Mo0.2 high-entropy alloy. Journal of Materials Science and Technology, 2019, 35, 369-373.	12.3	398
93	Ni Nanobuffer Layer Provides Light-Weight CNT/Cu Fibers with Superior Robustness, Conductivity, and Ampacity. ACS Applied Materials & Interfaces, 2018, 10, 8197-8204.	5.5	77
94	Preparing bulk ultrafine-microstructure high-entropy alloys via direct solidification. Nanoscale, 2018, 10, 1912-1919.	3.6	55
95	Origins and dissociation of pyramidal <c + a> dislocations in magnesium and its alloys. Acta Materialia, 2018, 146, 265-272.	7.6	125
96	A multiscale architectured CuCrZr alloy with high strength, electrical conductivity and thermal stability. Journal of Alloys and Compounds, 2018, 735, 1389-1394.	4.9	109
97	U-R relationship prediction method for aluminum alloy circular tube free-bending process based on sensitivity analysis of material parameters. International Journal of Advanced Manufacturing Technology, 2018, 99, 1967-1977.	2.1	34
98	Influence of microstructure on thermal stability of ultrafine-grained Cu processed by equal channel angular pressing. Journal of Materials Science, 2018, 53, 13173-13185.	2.8	39
99	Microstructure and thermal stability of nanocrystalline Mg-Gd-Y-Zr alloy processed by high pressure torsion. Journal of Alloys and Compounds, 2017, 721, 577-585.	4.9	66
100	Effect of grain structure on Charpy impact behavior of copper. Scientific Reports, 2017, 7, .	2.7	18
101	Microstructural origins of high strength and high ductility in an AlCoCrFeNi2.1 eutectic high-entropy alloy. Acta Materialia, 2017, 141, 59-66.	7.6	883
102	Microstructural evolution and mechanical properties of a 5052 Al alloy with gradient structures. Journal of Materials Research, 2017, 32, 4443-4451.	1.9	37
103	Directly cast bulk eutectic and near-eutectic high entropy alloys with balanced strength and ductility in a wide temperature range. Acta Materialia, 2017, 124, 143-150.	7.6	1,120
104	Microstructure and mechanical properties of Al-TiB2/TiC in situ composites improved via hot rolling. Transactions of Nonferrous Metals Society of China, 2017, 27, 2548-2554.	3.5	31
105	Microstructure Evolution and Mechanical Properties of Al-TiB2/TiC In Situ Aluminum-Based Composites during Accumulative Roll Bonding (ARB) Process. Materials, 2017, 10, 109.	2.1	27
106	Effect of triple junctions on deformation twinning in a nanostructured Cu–Zn alloy: A statistical study using transmission Kikuchi diffraction. Beilstein Journal of Nanotechnology, 2016, 7, 1501-1506.	2.2	3
107	Fabrication of Al/Mg/Al Composites via Accumulative Roll Bonding and Their Mechanical Properties. Materials, 2016, 9, 951.	2.1	62
108	Enhanced strength and ductility of AZ80 Mg alloys by spray forming and ECAP. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2016, 670, 280-291.	5.4	72

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109	Strengthening and toughening effects by strapping carbon nanotube cross-links with polymer molecules. Composites Science and Technology, 2016, 135, 123-127.	7.0	38
110	Localized deformation via multiple twinning in a Mg–Gd–Y–Zr alloy processed by high-pressure torsion. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2016, 677, 68-75.	5.4	34
111	Alloying Mg with Gd and Y: Increasing both plasticity and strength. Computational Materials Science, 2016, 115, 85-91.	2.6	61
112	Modeling the deformation behavior of nanocrystalline alloy with hierarchical microstructures. Journal of Nanoparticle Research, 2016, 18, .	2.3	2
113	Contribution of van der Waals forces to the plasticity of magnesium. Acta Materialia, 2016, 107, 127-132.	7.6	29
114	Enhancement of the Mechanical Properties of an Mg–Zn–Ca Alloy Using High-Pressure Torsion. Advanced Engineering Materials, 2015, 17, 1738-1741.	2.2	44
115	Modeling of Stacking Fault Energy in Hexagonal-Close-Packed Metals. Advances in Materials Science and Engineering, 2015, 2015, 1-8.	2.2	10
116	Fabrication of high-strength graphene nanosheets/Cu composites by accumulative roll bonding. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2015, 642, 1-6.	5.4	75
117	Effect of equal-channel angular pressing and aging on corrosion behavior of ZK60 Mg alloy. Transactions of Nonferrous Metals Society of China, 2015, 25, 3909-3920.	3.5	38
118	Defects in Silicene: Vacancy Clusters, Extended Line Defects and Di-adatoms. Scientific Reports, 2015, 5, .	2.7	98
119	Study on the evolution processes from TiCx to TiB2 induced by B in Al melt. Materials Characterization, 2015, 100, 68-73.	4.2	9
120	Microstructure and mechanical properties of ultrafinegrained Mg-Zn-Ca alloy. IOP Conference Series: Materials Science and Engineering, 2014, 63, 012142.	0.3	4
121	Annealing behaviour of ultrafine-grained aluminium. Philosophical Magazine, 2014, 94, 476-491.	0.8	15
122	Control of band structure of van der Waals heterostructures: Silicene on ultrathin silicon nanosheets. Chemical Physics Letters, 2014, 609, 161-166.	2.0	24
123	Nanocrystalline β-Ti alloy with high hardness, low Young's modulus and excellent in vitro biocompatibility for biomedical applications. Materials Science and Engineering C, 2013, 33, 3530-3536.	5.8	90
124	Characterization of carbonic anhydrase II from Chlorella vulgaris in bio-CO2 capture. Environmental Science and Pollution Research, 2012, 19, 4227-4232.	2.6	40
125	Influence of Pressing Temperature on Microstructure Evolution and Mechanical Behavior of Ultrafine-Grained Cu Processed by Equal-Channel Angular Pressing. Advanced Engineering Materials, 2012, 14, 185-194.	2.2	34
126	Enzyme kinetic characterization of microbe-produced urease for microbe-driven calcite mineralization. Reaction Kinetics, Mechanisms and Catalysis, 2012, 108, 51-57.	1.4	2

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127	Microstructural evolution and mechanical properties of a Cu–Zr alloy processed by high-pressure torsion. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2011, 528, 7715-7722.	5.4	62
128	Strength and Ductility of Bi-Modal Cu. Advanced Engineering Materials, 2011, 13, 865-871.	2.2	61
129	Scratch-induced deformation in fine- and ultrafine-grained bulk alumina. Scripta Materialia, 2010, 63, 528-531.	4.3	34
130	Strategies for Improving Tensile Ductility of Bulk Nanostructured Materials. Advanced Engineering Materials, 2010, 12, 769-778.	2.2	170
131	Structure Modulation Driven by Cyclic Deformation in Nanocrystalline NiFe. Physical Review Letters, 2010, 104, .	5.8	61
132	High-pressure torsion-induced grain growth and detwinning in cryomilled Cu powders. Philosophical Magazine, 2010, 90, 4541-4550.	0.8	62
133	Visible and infrared transparency in lead-free bulk BaTiO3and SrTiO3nanoceramics. Nanotechnology, 2010, 21, 075706.	1.9	24
134	Nanostructural hierarchy increases the strength of aluminium alloys. Nature Communications, 2010, 1, .	10.8	660
135	Chemistry of grain boundary environments in nanocrystalline Al 7075. Journal of Alloys and Compounds, 2010, 495, 391-393.	4.9	9
136	The influence of oxygen and nitrogen contamination on the densification behavior of cryomilled copper powders during spark plasma sintering. Journal of Materials Science, 2010, 46, 3006-3012.	2.8	34
137	Ductility of ultrafine-grained copper processed by equal-channel angular pressing. International Journal of Materials Research, 2009, 100, 1647-1652.	0.6	14
138	High Plasticity and Substantial Deformation in Nanocrystalline NiFe Alloys Under Dynamic Loading. Advanced Materials, 2009, 21, 5001-5004.	17.5	48
139	Oxidation of CO Catalyzed by a Cu Cluster: Influence of an Electric Field. ChemPhysChem, 2009, 10, 3295-3302.	1.5	27
140	High Tensile Ductility and Strength in Bulk Nanostructured Nickel. Advanced Materials, 2008, 20, 3028-3033.	17.5	360
141	Influence of stacking-fault energy on microstructural characteristics of ultrafine-grain copper and copper–zinc alloys. Acta Materialia, 2008, 56, 809-820.	7.6	298
142	Influence of specimen dimensions on the tensile behavior of ultrafine-grained Cu. Scripta Materialia, 2008, 59, 627-630.	4.3	267
143	Carbon-Nanotube Cotton for Large-Scale Fibers. Advanced Materials, 2007, 19, 2567-2570.	17.5	66
144	Ultrastrong, Stiff, and Lightweight Carbon-Nanotube Fibers. Advanced Materials, 2007, 19, 4198-4201.	17.5	456

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145	Strong Carbon-Nanotube Fibers Spun from Long Carbon-Nanotube Arrays. Small, 2007, 3, 244-248.	7.3	396
146	Initial Interaction of Crystalline Al/Amorphous Si Bilayer during Annealing. Materials Research Society Symposia Proceedings, 2004, 808, .	0.1	0
147	Unconfined Twist: a Simple Method to Prepare Ultrafine Grained Metallic Materials. Materials Research Society Symposia Proceedings, 2004, 821, .	0.1	1
148	Structures and Mechanical Properties of ECAP Processed 7075 Al Alloy upon Natural Aging and T651 Treatment. Materials Research Society Symposia Proceedings, 2004, 821, .	0.1	2
149	Pressure induced structural transitions in nanocrystalline grained selenium. Physica B: Condensed Matter, 2002, 315, 210-214.	2.2	16
150	Refinement and Spheroidization of Primary Silicon Particles in Eutectic-Divorced Hypereutectic Al–Si Alloy and Their Impact on Wear Resistance. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 0, 56, 4335-4349.	1.7	6
151	Atomistic insights into grain boundary migration in a Co30Fe30Ni30Ti10 medium-entropy alloy. Acta Materialia, 0, 303, 121691.	7.6	5
152	Achieving excellent strength and ductility synergy in a 2060 Al-Li alloy through two-step thermomechanical deformation and cryogenic pre-rolling aging treatment. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 0, 949, 149441.	5.4	4
153	The opposite transformation-induced plasticity effects of Fe61.5Cr17.5Ni13Al8 high-entropy alloy at ambient and cryogenic temperatures. Journal of Materials Research and Technology, 0, 39, 8718-8736.	4.9	1
154	Microstructural characteristics and oxidation behaviors of heat-resistant Cu-Ni-Al alloys with co-addition of Cr and Zr. Corrosion Science, 0, 261, 113603.	7.2	4
155	Composite descriptor for screening mechanical properties in high-entropy diborides. Transactions of Nonferrous Metals Society of China, 0, 36, 218-230.	3.5	1
156	Scratch behavior and γ→B19 phase transformation of lamellar γ-TiAl alloy at room temperature. Wear, 0, 592, 206623.	3.2	0
157	Crack initiation and propagation in magnesium-lithium alloys: Revealed by machine learning potential. Physical Review Materials, 0, 10, .	1.8	0
158	The effect of trace Fe on the mechanical properties and microstructure evolution of CP-Ti. International Journal of Plasticity, 0, 202, 104706.	10.9	1
159	Synergistically enhancing the strength and corrosion resistance of Mg-5Li-3Al-2Zn alloy via cryogenic rotary swaging and annealing. Journal of Alloys and Compounds, 0, 1067, 188300.	4.9	0
160	Hierarchical Ordering Induced Ultrahigh Cryogenic Strength and Strain Hardening in a Ni 2 CoFeV Medium-Entropy Alloy. Advanced Science, 0, 13, .	7.7	2
161	A review on processing, deformation mechanisms and alloying strategies of VCoNi-based medium-entropy alloys. Journal of Alloys and Compounds, 0, 1072, 189018.	4.9	0
162	Dynamic deformation behaviors and mechanisms of fine-grained 304L stainless steel at different strain rates and temperatures. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 0, 972, 150657.	5.4	0

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163	Tuning strength-ductility balance in a binary Al-11Zn alloy via room temperature ECAP: A non-monotonic transition. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 0, 973, 150675.	5.4	1