Yonghao Zhao

List of Publications by Year in Descending Order

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

184	11,992	50	107
papers	citations	h-index	g-index
190	13,853 ext. citations	5.7	6.31
ext. papers		avg, IF	L-index

#	Paper	IF	Citations
184	Microstructure and mechanical behaviors of Al/Cu laminated composites fabricated by accumulative roll bonding and intermediate annealing. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing,</i> 2022 , 832, 142510	5.3	6
183	Charpy impact behavior and deformation mechanisms of Cr26Mn20Fe20Co20Ni14 high-entropy alloy at ambient and cryogenic temperatures. <i>Materials Science & Discourse A: Structural Materials: Properties, Microstructure and Processing</i> , 2022 , 837, 142735	5.3	1
182	Mechanical Properties and Deformation Mechanisms of Heterostructured High-Entropy and Medium-Entropy Alloys: A Review. <i>Frontiers in Materials</i> , 2022 , 8,	4	2
181	Enhancing strength and electrical conductivity of Cullr composite wire by two-stage rotary swaging and aging treatments. <i>Composites Part B: Engineering</i> , 2022 , 231, 109567	10	3
180	A review on mechanical properties and microstructure of ultrafine grained metals and alloys processed by rotary swaging. <i>Journal of Alloys and Compounds</i> , 2022 , 896, 163122	5.7	5
179	Achieving maximum strength-ductility combination in fine-grained Cu-Zn alloy via detwinning and twinning deformation mechanisms. <i>Journal of Alloys and Compounds</i> , 2022 , 906, 164401	5.7	О
178	Ternary relation among stacking fault energy, grain size and twin nucleation size in nanocrystalline and ultrafine grained CuAl alloys. <i>Journal of Alloys and Compounds</i> , 2021 , 896, 162953	5.7	
177	Grain size effect on tensile properties and slip systems of pure magnesium. <i>Acta Materialia</i> , 2021 , 206, 116604	8.4	28
176	Revealing twinning from triple lines in nanocrystalline copper via molecular dynamics simulation and experimental observation. <i>Journal of Materials Research and Technology</i> , 2021 , 11, 342-350	5.5	2
175	Enhanced electrical conductivity and mechanical properties in thermally stable fine-grained copper wire. <i>Communications Materials</i> , 2021 , 2,	6	15
174	In situ thermomechanical processing to avoid grain boundary precipitation and strength-ductility loss of age hardening alloys. <i>Transactions of Nonferrous Metals Society of China</i> , 2021 , 31, 1205-1216	3.3	2
173	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	5.5	7
172	Mechanical properties and deformation mechanisms of a Ni2Co1Fe1V0.5Mo0.2 medium-entropy alloy at elevated temperatures. <i>Acta Materialia</i> , 2021 , 213, 116982	8.4	7
171	Precipitation and aging phenomena in an ultrafine grained Al-Zn alloy by severe plastic deformation. <i>Journal of Alloys and Compounds</i> , 2021 , 851, 156931	5.7	7
170	Microstructure evolution and mechanical properties of commercial pure titanium subjected to rotary swaging. <i>Journal of Alloys and Compounds</i> , 2021 , 859, 158222	5.7	5
169	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	5.3	9
168	Revealing grain coarsening and detwinning in bimodal Cu under tension. <i>Reviews on Advanced Materials Science</i> , 2021 , 60, 15-24	4.8	O

(2020-2021)

167	Deformation mechanisms and plasticity of ultrafine-grained Al under complex stress state revealed by digital image correlation technique. <i>Nanotechnology Reviews</i> , 2021 , 10, 73-86	6.3	2
166	Plasticity and Deformation Mechanisms of Ultrafine-Grained Ti in Necking Region Revealed by Digital Image Correlation Technique. <i>Nanomaterials</i> , 2021 , 11,	5.4	1
165	Achieving ultra-strong Magnesiumlithium alloys by low-strain rotary swaging. <i>Materials Research Letters</i> , 2021 , 9, 255-262	7·4	13
164	Breaking Material Property Trade-offs via Macrodesign of Microstructure. <i>Nano Letters</i> , 2021 , 21, 3191	-3:11:9:37	9
163	Grain Refinement Mechanisms in Gradient Nanostructured AZ31B Mg Alloy Prepared via Rotary Swaging. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2021 , 52, 4053-4065	2.3	7
162	The mechanism for the serrated flow induced by Suzuki segregation in a Ni alloy. <i>Materials Science & Materials Science and Processing A: Structural Materials: Properties, Microstructure and Processing</i> , 2021 , 820, 141575	5.3	1
161	Dynamic strain ageing induced by Suzuki segregation in a Ni alloy. <i>Materials Letters</i> , 2021 , 296, 129879	3.3	O
160	Nano-Gradient Materials Prepared by Rotary Swaging. <i>Nanomaterials</i> , 2021 , 11,	5.4	5
159	Dynamic impact behavior and deformation mechanisms of Cr26Mn20Fe20Co20Ni14 high-entropy alloy. <i>Materials Science & Dynamic Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2021 , 824, 141858	5.3	5
158	Influences of strain rate, Al concentration and grain heterogeneity on mechanical behavior of CoNiFeAlxCu1-x high-entropy alloys: a molecular dynamics simulation. <i>Journal of Materials Research and Technology</i> , 2021 , 14, 2071-2084	5.5	2
157	Revealing tribobxidation mechanisms of the copperIWC system under high tribological loading. <i>Scripta Materialia</i> , 2021 , 204, 114142	5.6	3
156	Significance of surface layer integrity for sustaining the ductility of gradient-structured nickel. <i>Materials Letters</i> , 2021 , 303, 130491	3.3	1
155	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	9.1	12
154	Critical microstructures and defects in heterostructured materials and their effects on mechanical properties. <i>Acta Materialia</i> , 2020 , 189, 129-144	8.4	63
153	Improving the high-temperature ductility of Al composites by tailoring the nanoparticle network. <i>Materialia</i> , 2020 , 9, 100523	3.2	5
152	Revealing intrinsic lattice expansion and grain boundary excess volume of nanocrystalline Se prepared via various methods. <i>Materialia</i> , 2020 , 9, 100535	3.2	
151	Simultaneously improving the tensile strength and ductility of the AlNp/ Al composites by the particle hierarchical structure with bimodal distribution and nano-network. <i>Materials Science & Mamp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2020 , 770, 138519	5.3	9
150	Mechanical behavior, deformation mechanism and microstructure evolutions of ultrafine-grained Al during recovery via annealing. <i>Materials Science & Dispersion of the Properties, Microstructure and Processing</i> , 2020 , 772, 138706	5.3	10

149	Effective Surface Nano-Crystallization of NiFeCoMoV Medium Entropy Alloy by Rotationally Accelerated Shot Peening (RASP). <i>Entropy</i> , 2020 , 22,	2.8	3
148	Effect of Cold and Warm Rolling on the Particle Distribution and Tensile Properties of Heterogeneous Structured AlN/Al Nanocomposites. <i>Materials</i> , 2020 , 13,	3.5	1
147	Enhancing the strain hardening and ductility of Mg-Y alloy by introducing stacking faults. <i>Journal of Magnesium and Alloys</i> , 2020 , 8, 1221-1227	8.8	26
146	Bulk nanocrystalline high-strength magnesium alloys prepared via rotary swaging. <i>Acta Materialia</i> , 2020 , 200, 274-286	8.4	43
145	Microstructure and Mechanical Properties of Ultrafine-Grained Copper by Accumulative Roll Bonding and Subsequent Annealing. <i>Materials</i> , 2020 , 13,	3.5	4
144	Twin boundary-dislocation interactions in nanocrystalline Cu-30% Zn alloys prepared by high pressure torsion. <i>Journal of Materials Research and Technology</i> , 2020 , 9, 11958-11967	5.5	4
143	Stiff, strong and ductile heterostructured aluminum composites reinforced with oriented nanoplatelets. <i>Scripta Materialia</i> , 2020 , 189, 140-144	5.6	13
142	Revealing hetero-deformation induced (HDI) stress strengthening effect in laminated Al-(TiB2+TiC)p/6063 composites prepared by accumulative roll bonding. <i>Journal of Alloys and Compounds</i> , 2020 , 815, 152285	5.7	16
141	On the Heterogeneity of Local Shear Strain Induced by High-Pressure Torsion. <i>Advanced Engineering Materials</i> , 2020 , 22, 1900477	3.5	15
140	Mechanical Properties and Microstructures of Commercial-Purity Aluminum Processed by Rotational Accelerated Shot Peening Plus Cold Rolling. <i>Advanced Engineering Materials</i> , 2020 , 22, 19004	1785	6
139	Extraordinary ductility and strain hardening of Cr26Mn20Fe20Co20Ni14 TWIP high-entropy alloy by cooperative planar slipping and twinning. <i>Materialia</i> , 2019 , 8, 100485	3.2	27
138	Grain size effect on deformation twin thickness in a nanocrystalline metal with low stacking-fault energy. <i>Journal of Materials Research</i> , 2019 , 34, 2398-2405	2.5	7
137	Improving the combination of electrical conductivity and tensile strength of Al 1070 by rotary swaging deformation. <i>Results in Physics</i> , 2019 , 13, 102236	3.7	11
136	Microstructure and corrosion behavior of Al-TiB2/TiC composites processed by hot rolling. <i>Results in Physics</i> , 2019 , 14, 102471	3.7	14
135	Optimization of strength, ductility and electrical conductivity of a Cullrar alloy by cold rolling and aging treatment. <i>Vacuum</i> , 2019 , 167, 329-335	3.7	30
134	Reactive synthesis of hexagonal Ti5P3.16 crystals and their heterogenous nucleating mechanism on primary Si. <i>Journal of Alloys and Compounds</i> , 2019 , 777, 8-17	5.7	12
133	Unique defect evolution during the plastic deformation of a metal matrix composite. <i>Scripta Materialia</i> , 2019 , 162, 316-320	5.6	31
132	A promising new class of irradiation tolerant materials: Ti2ZrHfV0.5Mo0.2 high-entropy alloy. Journal of Materials Science and Technology, 2019 , 35, 369-373	9.1	145

(2017-2018)

131	Ni Nanobuffer Layer Provides Light-Weight CNT/Cu Fibers with Superior Robustness, Conductivity, and Ampacity. <i>ACS Applied Materials & Amp; Interfaces</i> , 2018 , 10, 8197-8204	9.5	30
130	Preparing bulk ultrafine-microstructure high-entropy alloys via direct solidification. <i>Nanoscale</i> , 2018 , 10, 1912-1919	7.7	33
129	Origins and dissociation of pyramidal dislocations in magnesium and its alloys. <i>Acta Materialia</i> , 2018 , 146, 265-272	8.4	50
128	Influence of microstructure on thermal stability of ultrafine-grained Cu processed by equal channel angular pressing. <i>Journal of Materials Science</i> , 2018 , 53, 13173-13185	4.3	22
127	A multiscale architectured CuCrZr alloy with high strength, electrical conductivity and thermal stability. <i>Journal of Alloys and Compounds</i> , 2018 , 735, 1389-1394	5.7	36
126	U-R relationship prediction method for aluminum alloy circular tube free-bending process based on sensitivity analysis of material parameters. <i>International Journal of Advanced Manufacturing Technology</i> , 2018 , 99, 1967-1977	3.2	9
125	Core-shell structured titanium-nitrogen alloys with high strength, high thermal stability and good plasticity. <i>Scientific Reports</i> , 2017 , 7, 40039	4.9	19
124	Microstructure and mechanical property evolutions of bulk core-shell structured Ti-N alloys during annealing. <i>Journal of Alloys and Compounds</i> , 2017 , 710, 418-423	5.7	8
123	Effect of strain rate on the mechanical properties of a gum metal with various microstructures. <i>Acta Materialia</i> , 2017 , 132, 193-208	8.4	16
122	Microstructure and thermal stability of nanocrystalline Mg-Gd-Y-Zr alloy processed by high pressure torsion. <i>Journal of Alloys and Compounds</i> , 2017 , 721, 577-585	5.7	38
121	Effect of grain structure on Charpy impact behavior of copper. Scientific Reports, 2017, 7, 44783	4.9	10
120	Non-uniform phase separation in ferrite of a duplex stainless steel. <i>Acta Materialia</i> , 2017 , 140, 388-397	8.4	31
119	Microstructural origins of high strength and high ductility in an AlCoCrFeNi2.1 eutectic high-entropy alloy. <i>Acta Materialia</i> , 2017 , 141, 59-66	8.4	266
118	Microstructural evolution and mechanical properties of a 5052 Al alloy with gradient structures. Journal of Materials Research, 2017 , 32, 4443-4451	2.5	20
117	Effect of Thermal Aging on Microstructural Evolution in Ferrite of Duplex Stainless Steel in Nuclear Power Plant Applications. <i>Materials Science Forum</i> , 2017 , 898, 818-825	0.4	
116	Directly cast bulk eutectic and near-eutectic high entropy alloys with balanced strength and ductility in a wide temperature range. <i>Acta Materialia</i> , 2017 , 124, 143-150	8.4	483
115	Gradient Structured Copper by Rotationally Accelerated Shot Peening. <i>Journal of Materials Science and Technology</i> , 2017 , 33, 758-761	9.1	71
114	Microstructure and mechanical properties of Al-TiB2/TiC in situ composites improved via hot rolling. <i>Transactions of Nonferrous Metals Society of China</i> , 2017 , 27, 2548-2554	3.3	18

113	Microstructure Evolution and Mechanical Properties of Al-TiB/TiC In Situ Aluminum-Based Composites during Accumulative Roll Bonding (ARB) Process. <i>Materials</i> , 2017 , 10,	3.5	19
112	Localized deformation via multiple twinning in a MgtdMtr alloy processed by high-pressure torsion. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2016 , 677, 68-75	5.3	20
111	Alloying Mg with Gd and Y: Increasing both plasticity and strength. <i>Computational Materials Science</i> , 2016 , 115, 85-91	3.2	28
110	Modeling the deformation behavior of nanocrystalline alloy with hierarchical microstructures. Journal of Nanoparticle Research, 2016 , 18, 1	2.3	1
109	Contribution of van der Waals forces to the plasticity of magnesium. Acta Materialia, 2016, 107, 127-13	28.4	18
108	Effect of charge redistribution factor on stacking-fault energies of Mg-based binary alloys. <i>Scripta Materialia</i> , 2016 , 112, 101-105	5.6	38
107	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	3	1
106	Fabrication of Al/Mg/Al Composites via Accumulative Roll Bonding and Their Mechanical Properties. <i>Materials</i> , 2016 , 9,	3.5	21
105	Enhanced strength and ductility of AZ80 Mg alloys by spray forming and ECAP. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2016 , 670, 280-291	5.3	40
104	Strengthening and toughening effects by strapping carbon nanotube cross-links with polymer molecules. <i>Composites Science and Technology</i> , 2016 , 135, 123-127	8.6	25
103	Study on the evolution processes from TiCx to TiB2 induced by B in Al melt. <i>Materials Characterization</i> , 2015 , 100, 68-73	3.9	6
102	Highly Sensitive CO Gas Sensor from Defective Graphene: Role of van der Waals Interactions. <i>Journal of Nanomaterials</i> , 2015 , 2015, 1-7	3.2	10
101	Enhancement of the Mechanical Properties of an MgInIIa Alloy Using High-Pressure Torsion. <i>Advanced Engineering Materials</i> , 2015 , 17, 1738-1741	3.5	29
100	Modeling of Stacking Fault Energy in Hexagonal-Close-Packed Metals. <i>Advances in Materials Science and Engineering</i> , 2015 , 2015, 1-8	1.5	3
99	Fabrication of high-strength graphene nanosheets/Cu composites by accumulative roll bonding. <i>Materials Science & A: Structural Materials: Properties, Microstructure and Processing</i> , 2015 , 642, 1-6	5.3	41
98	Effect of equal-channel angular pressing and aging on corrosion behavior of ZK60 Mg alloy. <i>Transactions of Nonferrous Metals Society of China</i> , 2015 , 25, 3909-3920	3.3	20
97	Defects in silicene: vacancy clusters, extended line defects, and Di-adatoms. <i>Scientific Reports</i> , 2015 , 5, 7881	4.9	74
96	Annealing behaviour of ultrafine-grained aluminium. <i>Philosophical Magazine</i> , 2014 , 94, 476-491	1.6	9

(2010-2014)

95	Control of band structure of van der Waals heterostructures: Silicene on ultrathin silicon nanosheets. <i>Chemical Physics Letters</i> , 2014 , 609, 161-166	2.5	22
94	Microstructure and mechanical properties of ultrafinegrained Mg-Zn-Ca alloy. <i>IOP Conference Series: Materials Science and Engineering</i> , 2014 , 63, 012142	0.4	4
93	Enzyme kinetic characterization of microbe-produced urease for microbe-driven calcite mineralization. <i>Reaction Kinetics, Mechanisms and Catalysis</i> , 2013 , 108, 51-57	1.6	2
92	Nanocrystalline ETi alloy with high hardness, low Young & modulus and excellent in vitro biocompatibility for biomedical applications. <i>Materials Science and Engineering C</i> , 2013 , 33, 3530-6	8.3	65
91	Elemental separation in nanocrystalline Cu-Al alloys. <i>Applied Physics Letters</i> , 2013 , 102, 231912	3.4	16
90	Strength scaling law, deformation kinetics and mechanisms of nanostructured Ti. <i>Materials Science</i> & <i>amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2013 , 573, 141-147	5.3	16
89	Pores and Microanalysis of Microbe-Inspired Nano-CaCO3Cementing Sand Columns. <i>Journal of Nanomaterials</i> , 2013 , 2013, 1-5	3.2	
88	Computational Modeling of Sand Cementation by Bio-Mineral CaCO3. <i>Materials Science Forum</i> , 2013 , 749, 535-539	0.4	2
87	Characterization of carbonic anhydrase II from Chlorella vulgaris in bio-CO2 capture. <i>Environmental Science and Pollution Research</i> , 2012 , 19, 4227-32	5.1	26
86	Influence of Pressing Temperature on Microstructure Evolution and Mechanical Behavior of Ultrafine-Grained Cu Processed by Equal-Channel Angular Pressing. <i>Advanced Engineering Materials</i> , 2012 , 14, 185-194	3.5	21
85	Grain growth and dislocation density evolution in a nanocrystalline Nife alloy induced by high-pressure torsion. <i>Scripta Materialia</i> , 2011 , 64, 327-330	5.6	79
84	The influence of oxygen and nitrogen contamination on the densification behavior of cryomilled copper powders during spark plasma sintering. <i>Journal of Materials Science</i> , 2011 , 46, 3006-3012	4.3	23
83	Microstructural evolution and mechanical properties of a Cu I r alloy processed by high-pressure torsion. <i>Materials Science & amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2011 , 528, 7715-7722	5.3	58
82	Strength and Ductility of Bi-Modal Cu. <i>Advanced Engineering Materials</i> , 2011 , 13, 865-871	3.5	32
81	Strain hardening and softening in a nanocrystalline Nife alloy induced by severe plastic deformation. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2011 , 528, 3398-3403	5.3	41
80	Strain softening in nanocrystalline Ni E e alloy induced by large HPT revolutions. <i>Materials Science</i> & Strain softening A: Structural Materials: Properties, Microstructure and Processing, 2011 , 528, 4807-481	5 ·3	14
79	The mechanical properties of multi-scale metallic materials 2011 , 375-429		3
78	Structure modulation driven by cyclic deformation in nanocrystalline NiFe. <i>Physical Review Letters</i> , 2010 , 104, 255501	7.4	53

77	High-pressure torsion-induced grain growth and detwinning in cryomilled Cu powders. <i>Philosophical Magazine</i> , 2010 , 90, 4541-4550	1.6	50
76	Visible and infrared transparency in lead-free bulk BaTiO(3) and SrTiO(3) nanoceramics. <i>Nanotechnology</i> , 2010 , 21, 75706	3.4	18
75	Nanostructural hierarchy increases the strength of aluminium alloys. <i>Nature Communications</i> , 2010 , 1, 63	17.4	452
74	Deformation twinning in boron carbide particles within nanostructured Al 5083/B4C metal matrix composites. <i>Philosophical Magazine</i> , 2010 , 90, 783-792	1.6	24
73	Chemistry of grain boundary environments in nanocrystalline Al 7075. <i>Journal of Alloys and Compounds</i> , 2010 , 495, 391-393	5.7	9
72	Improving ductility in ultrafine grained nickel with porosity and segregation via deformation. Materials Science & Description of the series	5.3	6
71	Influence of grain size on the density of deformation twins in CuBO%Zn alloy. <i>Materials Science</i> & Structural Materials: Properties, Microstructure and Processing, 2010 , 527, 3942-39	4 § ·3	33
70	The role of stacking faults and twin boundaries in grain refinement of a Culdn alloy processed by high-pressure torsion. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2010 , 527, 4959-4966	5.3	111
69	Preface to the Special Issue on Ultrafine Grained Materials. <i>Journal of Materials Science</i> , 2010 , 45, 4543	-4 5 4 4	2
68	Scratch-induced deformation in fine- and ultrafine-grained bulk alumina. <i>Scripta Materialia</i> , 2010 , 63, 528-531	5.6	22
67	Grain size and reversible beta-to-omega phase transformation in a Ti alloy. <i>Scripta Materialia</i> , 2010 , 63, 613-616	5.6	66
66	Strategies for Improving Tensile Ductility of Bulk Nanostructured Materials. <i>Advanced Engineering Materials</i> , 2010 , 12, 769-778	3.5	128
65	The influence of cooling rate on the microstructures and mechanical properties in ultrafine-grained aluminum processed by hot rolling. <i>Materials Science & Dispersion A: Structural Materials: Properties, Microstructure and Processing</i> , 2010 , 527, 5287-5294	5.3	6
64	Ductility of ultrafine-grained copper processed by equal-channel angular pressing. <i>International Journal of Materials Research</i> , 2009 , 100, 1647-1652	0.5	14
63	Dislocation density evolution during high pressure torsion of a nanocrystalline Ni E e alloy. <i>Applied Physics Letters</i> , 2009 , 94, 091911	3.4	35
62	Effect of Ppm Level Dopant on Ductility of Ultrafine Grained Gold Wires. <i>Materials Science Forum</i> , 2009 , 633-634, 449-457	0.4	
61	Strategies for Improving Ductility of Cryomilled Nanostructured Titanium. <i>Materials Science Forum</i> , 2009 , 633-634, 459-469	0.4	2
60	Influence of stacking fault energy on deformation mechanism and dislocation storage capacity in ultrafine-grained materials. <i>Scripta Materialia</i> , 2009 , 60, 52-55	5.6	116

59	High Plasticity and Substantial Deformation in Nanocrystalline NiFe Alloys Under Dynamic Loading. <i>Advanced Materials</i> , 2009 , 21, 5001-5004	24	41
58	Oxidation of CO catalyzed by a Cu cluster: influence of an electric field. <i>ChemPhysChem</i> , 2009 , 10, 3295-	-3 ₃ 0 <u>2</u>	24
57	Investigation of aluminum-based nanocomposites with ultra-high strength. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2009 , 527, 305-316	5.3	146
56	Effect of stacking fault energy on strength and ductility of nanostructured alloys: An evaluation with minimum solution hardening. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2009 , 525, 83-86	5.3	66
55	Influence of specimen dimensions and strain measurement methods on tensile stressEtrain curves. Materials Science & Description of the structural Materials: Properties, Microstructure and Processing , 2009, 525, 68-77	5.3	167
54	Electric field induced reversible switch in hydrogen storage based on single-layer and bilayer graphenes. <i>Carbon</i> , 2009 , 47, 3452-3460	10.4	87
53	Enhanced Hydrogen Storage on Li-Dispersed Carbon Nanotubes. <i>Journal of Physical Chemistry C</i> , 2009 , 113, 2028-2033	3.8	175
52	A reversible switch for hydrogen adsorption and desorption: electric fields. <i>Physical Chemistry Chemical Physics</i> , 2009 , 11, 9233-40	3.6	32
51	Influence of specimen dimensions on the tensile behavior of ultrafine-grained Cu. <i>Scripta Materialia</i> , 2008 , 59, 627-630	5.6	199
50	Size-Dependent Deformation and Adsorption Behavior of Carbon Monoxide, Hydrogen, and Carbon on Pyramidal Copper Clusters. <i>Journal of Physical Chemistry C</i> , 2008 , 112, 7672-7677	3.8	12
49	High ductility of ultrafine-grained steel via phase transformation. <i>Journal of Materials Research</i> , 2008 , 23, 1578-1586	2.5	19
48	Tougher ultrafine grain Cu via high-angle grain boundaries and low dislocation density. <i>Applied Physics Letters</i> , 2008 , 92, 081903	3.4	135
47	High Tensile Ductility and Strength in Bulk Nanostructured Nickel. Advanced Materials, 2008, 20, 3028-3	033	267
46	SnO2 nanobelts and nanocrystals: Synthesis, characterization and optical properties. <i>Journal of Crystal Growth</i> , 2008 , 310, 4226-4232	1.6	12
45	Evolution of defect structures during cold rolling of ultrafine-grained Cu and Culin alloys: Influence of stacking fault energy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2008 , 474, 342-347	5.3	124
44	Influence of stacking-fault energy on microstructural characteristics of ultrafine-grain copper and copper⊠inc alloys. <i>Acta Materialia</i> , 2008 , 56, 809-820	8.4	219
43	Determining the optimal stacking fault energy for achieving high ductility in ultrafine-grained CuIn alloys. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2008 , 493, 123-129	5.3	146
42	Carbon-Nanotube Cotton for Large-Scale Fibers. <i>Advanced Materials</i> , 2007 , 19, 2567-2570	24	61

41	Structure-Dependent Electrical Properties of Carbon Nanotube Fibers. <i>Advanced Materials</i> , 2007 , 19, 3358-3363	24	338
40	Ultrastrong, Stiff, and Lightweight Carbon-Nanotube Fibers. <i>Advanced Materials</i> , 2007 , 19, 4198-4201	24	379
39	Optimizing the strength and ductility of fine structured 2024 Al alloy by nano-precipitation. <i>Acta Materialia</i> , 2007 , 55, 5822-5832	8.4	335
38	Influence of stacking fault energy on the minimum grain size achieved in severe plastic deformation. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2007 , 463, 22-26	5.3	101
37	Strong carbon-nanotube fibers spun from long carbon-nanotube arrays. Small, 2007, 3, 244-8	11	330
36	X-ray diffraction analysis of the anisotropic nature of the structural imperfections in a sputter-deposited TiO2/Ti3Al bilayer. <i>Thin Solid Films</i> , 2006 , 514, 110-119	2.2	11
35	Simultaneously Increasing the Ductility and Strength of Nanostructured Alloys. <i>Advanced Materials</i> , 2006 , 18, 2280-2283	24	617
34	Sustained Growth of Ultralong Carbon Nanotube Arrays for Fiber Spinning. <i>Advanced Materials</i> , 2006 , 18, 3160-3163	24	307
33	Simultaneously Increasing the Ductility and Strength of Ultra-Fine-Grained Pure Copper. <i>Advanced Materials</i> , 2006 , 18, 2949-2953	24	301
32	Wetting and crystallization at grain boundaries: Origin of aluminum-induced crystallization of amorphous silicon. <i>Applied Physics Letters</i> , 2006 , 88, 061910	3.4	46
31	Tailoring stacking fault energy for high ductility and high strength in ultrafine grained Cu and its alloy. <i>Applied Physics Letters</i> , 2006 , 89, 121906	3.4	258
30	Thermodynamic model for solid-state amorphization of pure elements by mechanical-milling. <i>Journal of Non-Crystalline Solids</i> , 2006 , 352, 5578-5585	3.9	20
29	Influence of stacking fault energy on nanostructure formation under high pressure torsion. Materials Science & amp; Engineering A: Structural Materials: Properties, Microstructure and Processing, 2005, 410-411, 188-193	5.3	156
28	Compact and dissociated dislocations in aluminum: implications for deformation. <i>Physical Review Letters</i> , 2005 , 94, 125502	7.4	52
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