Yuntian T Zhu

List of Publications by Year
in descending order

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395 papers	43,356 citations	1301 109 h-index	2509 196 g-index
414 all docs	414 docs citations	414 times ranked	17373 citing authors

#	Article	IF	Citations
1	Unexpected high-temperature brittleness of a Mg-Gd-Y-Ag alloy. Journal of Magnesium and Alloys, 2022, 10, 2510-2515.	11.9	11
2	Mechanical response of the constrained nanostructured layer in heterogeneous laminate. Scripta Materialia, 2022, 207, 114310.	5.2	16
3	Achieving high hetero-deformation induced (HDI) strengthening and hardening in brass by dual heterostructures. Journal of Materials Science and Technology, 2022, 98, 244-247.	10.7	38
4	Deformation Twinning in Nanocrystalline Metals. , 2022, , 412-431.		0
5	Activating dispersed strain bands in tensioned nanostructure layer for high ductility: The effects of microstructure inhomogeneity. International Journal of Plasticity, 2022, 149, 103159.	8.8	25
6	Dual-phase hetero-structured strategy to improve ductility of a low carbon martensitic steel. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2022, 834, 142584.	5.6	32
7	Twin thickness and dislocation interactions affect the incoherent-twin boundary phase in face-centered cubic metals. Cell Reports Physical Science, 2022, 3, 100736.	5.6	6
8	Mechanical Properties and Deformation Mechanisms of Heterostructured High-Entropy and Medium-Entropy Alloys: A Review. Frontiers in Materials, 2022, 8, .	2.4	25
9	Effect of texture on deformation behavior of heterogeneous Mg-13Gd alloy with strengthâ€“ductility synergy. Journal of Materials Science and Technology, 2022, 113, 271-286.	10.7	39
10	Strain hardening behavior and microstructure evolution of gradient-structured Cu-Al alloys with low stack fault energy. Journal of Materials Research and Technology, 2022, 19, 220-229.	5.8	14
11	Unveiling microstructural origins of the balanced strengthâ€“ductility combination in eutectic high-entropy alloys at cryogenic temperatures. Materials Research Letters, 2022, 10, 602-610.	8.7	10
12	Heterostructure alleviates LÃ¼ders deformation of ultrafine-grained stainless steels. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2022, 848, 143393.	5.6	6
13	Heterostructured stainless steel: Properties, current trends, and future perspectives. Materials Science and Engineering Reports, 2022, 150, 100691.	31.8	65
14	Effect of dislocation configuration on Ag segregation in subgrain boundary of a Mg-Ag alloy. Scripta Materialia, 2021, 191, 219-224.	5.2	33
15	Heterostructured materials: superior properties from hetero-zone interaction. Materials Research Letters, 2021, 9, 1-31.	8.7	505
16	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.	5.6	23
17	Plastic accommodation during tensile deformation of gradient structure. Science China Materials, 2021, 64, 1534-1544.	6.3	30
18	Gradient and lamellar heterostructures for superior mechanical properties. MRS Bulletin, 2021, 46, 244-249.	3.5	61

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19	Grain size effect on tensile properties and slip systems of pure magnesium. Acta Materialia, 2021, 206, 116604.	7.9	127
20	Length-dependent carbon nanotube film structures and mechanical properties. Nanotechnology, 2021, 32, 265702.	2.6	9
21	Multi-heterostructure and mechanical properties of N-doped FeMnCoCr high entropy alloy. International Journal of Plasticity, 2021, 139, 102965.	8.8	88
22	Inter-zone constraint modifies the stress-strain response of the constituent layer in gradient structure. Science China Materials, 2021, 64, 3114-3123.	6.3	9
23	Tracing plastic deformation path and concurrent grain refinement during additive friction stir deposition. Materialia, 2021, 18, 101159.	2.7	36
24	Architecturing materials at mesoscale: some current trends. Materials Research Letters, 2021, 9, 399-421.	8.7	51
25	Introduction to Heterostructured Materials: A Fast Emerging Field. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2021, 52, 4715-4726.	2.2	44
26	Martensitic transformation in CrCoNi medium-entropy alloy at cryogenic temperature. Applied Physics Letters, 2021, 119, .	3.3	10
27	Effect of global constraint on the mechanical behavior of gradient materials. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2021, 826, 141963.	5.6	16
28	Significance of surface layer integrity for sustaining the ductility of gradient-structured nickel. Materials Letters, 2021, 303, 130491.	2.6	4
29	On the Heterogeneity of Local Shear Strain Induced by Highâ€Pressure Torsion. Advanced Engineering Materials, 2020, 22, 1900477.	3.5	20
30	Mechanical Properties and Microstructures of Commercialâ€Purity Aluminum Processed by Rotational Accelerated Shot Peening Plus Cold Rolling. Advanced Engineering Materials, 2020, 22, 1900478.	3.5	14
31	Hetero-deformation induced (HDI) hardening does not increase linearly with strain gradient. Scripta Materialia, 2020, 174, 19-23.	5.2	111
32	Dense dispersed shear bands in gradient-structured Ni. International Journal of Plasticity, 2020, 124, 186-198.	8.8	77
33	Improving the high-temperature ductility of Al composites by tailoring the nanoparticle network. Materialia, 2020, 9, 100523.	2.7	13
34	Formation of solute nanostructures in an Alâ€“Znâ€“Mg alloy during long-term natural aging. Journal of Alloys and Compounds, 2020, 821, 153572.	5.5	33
35	Hardening after annealing in nanostructured 316L stainless steel. Nano Materials Science, 2020, 2, 80-82.	8.8	27
36	Solute segregation assisted nanocrystallization of a cold-rolled Mgâ€“Ag alloy during annealing. Scripta Materialia, 2020, 177, 69-73.	5.2	43

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37	Atomic segregation at twin boundaries in a Mg-Ag alloy. Scripta Materialia, 2020, 178, 193-197.	5.2	38
38	Layer-by-layer corrosion behavior of 316LN stainless steel with a gradient-nanostructured surface. Electrochemistry Communications, 2020, 110, 106642.	4.7	11
39	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
40	Effective Surface Nano-Crystallization of Ni2FeCoMo0.5V0.2 Medium Entropy Alloy by Rotationally Accelerated Shot Peening (RASP). Entropy, 2020, 22, 1074.	2.2	9
41	Multistage work hardening assisted by multi-type twinning in ultrafine-grained heterostructural eutectic high-entropy alloys. Materials Today, 2020, 41, 62-71.	14.2	197
42	Stiff, strong and ductile heterostructured aluminum composites reinforced with oriented nanoplatelets. Scripta Materialia, 2020, 189, 140-144.	5.2	44
43	Ultrastrong low-carbon nanosteel produced by heterostructure and interstitial mediated warm rolling. Science Advances, 2020, 6, .	10.3	75
44	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.	10.7	21
45	Ductility and strain hardening in gradient and lamellar structured materials. Scripta Materialia, 2020, 186, 321-325.	5.2	110
46	Critical microstructures and defects in heterostructured materials and their effects on mechanical properties. Acta Materialia, 2020, 189, 129-144.	7.9	150
47	Alloying effects on the plasticity of magnesium: comprehensive analysis of influences of all five slip systems. Journal of Physics Condensed Matter, 2020, 32, 015401.	1.8	7
48	Tuning heterostructures with powder metallurgy for high synergistic strengthening and hetero-deformation induced hardening. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2020, 777, 139074.	5.6	31
49	Effect of heterostructure and hetero-deformation induced hardening on the strength and ductility of brass. Acta Materialia, 2020, 186, 644-655.	7.9	146
50	Shear band stability and uniform elongation of gradient structured material: Role of lateral constraint. Extreme Mechanics Letters, 2020, 37, 100686.	4.1	18
51	Hetero-deformation induced strengthening and toughening of pure iron with inverse and multi-gradient structures. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2020, 782, 139256.	5.6	25
52	Improving mechanical properties of heterogeneous Mg-Gd alloy laminate via accumulated extrusion bonding. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2020, 785, 139324.	5.6	28
53	Influence of Strain Rate on Mechanical Behaviours of Gradient-Structured Copper. Materials Transactions, 2020, 61, 708-717.	1.2	5
54	Evolution of twinning systems and variants during sequential twinning in cryo-rolled titanium. International Journal of Plasticity, 2019, 112, 52-67.	8.8	54

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55	Extra strengthening in a coarse/ultrafine grained laminate: Role of gradient interfaces. International Journal of Plasticity, 2019, 123, 196-207.	8.8	139
56	Residual stress provides significant strengthening and ductility in gradient structured materials. Materials Research Letters, 2019, 7, 433-438.	8.7	74
57	Perspective on hetero-deformation induced (HDI) hardening and back stress. Materials Research Letters, 2019, 7, 393-398.	8.7	638
58	Simultaneously enhancing strength and ductility of a high-entropy alloy via gradient hierarchical microstructures. International Journal of Plasticity, 2019, 123, 178-195.	8.8	201
59	Grain refinement and mechanical properties of pure aluminum processed by accumulative extrusion bonding. Transactions of Nonferrous Metals Society of China, 2019, 29, 437-447.	4.2	44
60	Heterostructure induced dispersive shear bands in heterostructured Cu. Scripta Materialia, 2019, 170, 76-80.	5.2	68
61	Grain size effect on deformation twin thickness in a nanocrystalline metal with low stacking-fault energy. Journal of Materials Research, 2019, 34, 2398-2405.	2.6	11
62	In-situobservation of dislocation dynamics near heterostructured interfaces. Materials Research Letters, 2019, 7, 376-382.	8.7	100
63	Predicting the formation of <câ€¯+â€¯a> dislocations in magnesium alloys from multiple stacking fault energies. Materialia, 2019, 7, 100352.	2.7	16
64	Improved corrosion resistance of 316LN stainless steel performed by rotationally accelerated shot peening. Applied Surface Science, 2019, 481, 1305-1312.	6.1	36
65	Enhanced irradiation and corrosion resistance of 316LN stainless steel with high densities of dislocations and twins. Journal of Nuclear Materials, 2019, 517, 234-240.	2.7	12
66	Achieving Gradient Martensite Structure and Enhanced Mechanical Properties in a Metastable Î² Titanium Alloy. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2019, 50, 2126-2138.	2.2	25
67	Unique defect evolution during the plastic deformation of a metal matrix composite. Scripta Materialia, 2019, 162, 316-320.	5.2	44
68	Ductility by shear band delocalization in the nano-layer of gradient structure. Materials Research Letters, 2019, 7, 12-17.	8.7	94
69	Optimizing the strength, ductility and electrical conductivity of a Cu-Cr-Zr alloy by rotary swaging and aging treatment. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2019, 746, 211-216.	5.6	87
70	The formation mechanism of a novel interfacial phase with high thermal stability in a Mg-Gd-Y-Ag-Zr alloy. Acta Materialia, 2019, 162, 214-225.	7.9	74
71	Influence of annealing parameters on the mechanical properties of heterogeneous lamella structured 5083 aluminum alloy. Letters on Materials, 2019, 9, 556-560.	0.7	7
72	Grain refining and mechanical properties of AZ31 alloy processed by accumulated extrusion bonding. Journal of Alloys and Compounds, 2018, 745, 599-608.	5.5	56

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73	A comparison of the twisted and untwisted structures for one-dimensional carbon nanotube assemblies. Materials and Design, 2018, 146, 20-27.	7.0	28
74	Effect of strain rate on mechanical properties of Cu/Ni multilayered composites processed by electrodeposition. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2018, 726, 154-159.	5.6	17
75	Superior strength and ductility of 316L stainless steel with heterogeneous lamella structure. Journal of Materials Science, 2018, 53, 10442-10456.	3.7	175
76	Review on superior strength and enhanced ductility of metallic nanomaterials. Progress in Materials Science, 2018, 94, 462-540.	32.8	634
77	Catch twin nucleation in action at atomic scale. Science China Materials, 2018, 61, 1019-1020.	6.3	3
78	Ni Nanobuffer Layer Provides Light-Weight CNT/Cu Fibers with Superior Robustness, Conductivity, and Ampacity. ACS Applied Materials & Interfaces, 2018, 10, 8197-8204.	8.0	48
79	Origins and dissociation of pyramidal <cÂ+Âa> dislocations in magnesium and its alloys. Acta Materialia, 2018, 146, 265-272.	7.9	82
80	A silicon-impregnated carbon nanotube mat as a lithium-ion cell anode. Journal of Applied Electrochemistry, 2018, 48, 127-133.	2.9	12
81	Interface affected zone for optimal strength and ductility in heterogeneous laminate. Materials Today, 2018, 21, 713-719.	14.2	357
82	Extraordinary Bauschinger effect in gradient structured copper. Scripta Materialia, 2018, 150, 57-60.	5.2	69
83	Quantifying the synergetic strengthening in gradient material. Scripta Materialia, 2018, 150, 22-25.	5.2	94
84	Alleviating surface tensile stress in e-beam treated tool steels by cryogenic treatment. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2018, 722, 167-172.	5.6	6
85	A multiscale architectured CuCrZr alloy with high strength, electrical conductivity and thermal stability. Journal of Alloys and Compounds, 2018, 735, 1389-1394.	5.5	73
86	Ductility and plasticity of nanostructured metals: differences and issues. Materials Today Nano, 2018, 2, 15-20.	4.6	122
87	A novel approach to align carbon nanotubes via water-assisted shear stretching. Composites Science and Technology, 2018, 164, 1-7.	7.8	13
88	Structural evolutions of metallic materials processed by severe plastic deformation. Materials Science and Engineering Reports, 2018, 133, 1-59.	31.8	401
89	Influence of microstructure on thermal stability of ultrafine-grained Cu processed by equal channel angular pressing. Journal of Materials Science, 2018, 53, 13173-13185.	3.7	30
90	On the origin and behavior of irradiation-induced c-component dislocation loops in magnesium. Acta Materialia, 2017, 131, 457-466.	7.9	16

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91	Effect of strain rate on the mechanical properties of a gum metal with various microstructures. Acta Materialia, 2017, 132, 193-208.	7.9	23
92	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.	5.5	54
93	Gradient structure produces superior dynamic shear properties. Materials Research Letters, 2017, 5, 501-507.	8.7	31
94	Effect of grain structure on Charpy impact behavior of copper. Scientific Reports, 2017, 7, 44783.	3.3	16
95	Investigation of microcombing parameters in enhancing the properties of carbon nanotube yarns. Materials and Design, 2017, 134, 181-187.	7.0	12
96	High-Performance Composites Produced from Dry-Processable Multi-Walled Carbon Nanotubes. , 2017, , 3-27.		0
97	Microstructural evolution and mechanical properties of a 5052 Al alloy with gradient structures. Journal of Materials Research, 2017, 32, 4443-4451.	2.6	27
98	The Evolution of Strain Gradient and Anisotropy in Gradient-Structured Metal. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2017, 48, 3951-3960.	2.2	16
99	Soldering carbon nanotube fibers by targeted electrothermal-induced carbon deposition. Carbon, 2017, 121, 242-247.	10.3	19
100	Heterogeneous materials: a new class of materials with unprecedented mechanical properties. Materials Research Letters, 2017, 5, 527-532.	8.7	818
101	Bauschinger Effect and Back Stress in Gradient Cu-Ge Alloy. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2017, 48, 3943-3950.	2.2	32
102	Radial growth of multi-walled carbon nanotubes in aligned sheets through cyclic carbon deposition and graphitization. Carbon, 2017, 111, 411-418.	10.3	28
103	Investigation and modification of carbon buckypaper as an electrocatalyst support for oxygen reduction. Journal of Applied Electrochemistry, 2017, 47, 105-115.	2.9	4
104	Gradient Structured Copper by Rotationally Accelerated Shot Peening. Journal of Materials Science and Technology, 2017, 33, 758-761.	10.7	105
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.	2.9	23
106	A new perspective on hierarchical structure to analyse strength limiting factors of CNT yarns. International Journal of Sustainable Materials and Structural Systems, 2016, 2, 308.	0.1	0
107	Effect of triple junctions on deformation twinning in a nanostructured Cuâ€“Zn alloy: A statistical study using transmission Kikuchi diffraction. Beilstein Journal of Nanotechnology, 2016, 7, 1501-1506.	2.8	1
108	Deformation Twinning in Nanocrystalline Metals. , 2016, , .		0

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109	Fabrication of Al/Mg/Al Composites via Accumulative Roll Bonding and Their Mechanical Properties. Materials, 2016, 9, 951.	2.9	44
110	Back stress strengthening and strain hardening in gradient structure. Materials Research Letters, 2016, 4, 145-151.	8.7	766
111	Combining gradient structure and TRIP effect to produce austenite stainless steel with high strength and ductility. Acta Materialia, 2016, 112, 337-346.	7.9	265
112	Microstructural evolution and phase transformation in twinning-induced plasticity steel induced by high-pressure torsion. Acta Materialia, 2016, 109, 300-313.	7.9	58
113	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.	5.6	61
114	Nucleation of deformation twins in nanocrystalline fcc alloys. Philosophical Magazine, 2016, 96, 3790-3802.	1.6	4
115	Strengthening and toughening effects by strapping carbon nanotube cross-links with polymer molecules. Composites Science and Technology, 2016, 135, 123-127.	7.8	32
116	Localized deformation via multiple twinning in a Mgâ€“Gdâ€“Yâ€“Zr alloy processed by high-pressure torsion. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2016, 677, 68-75.	5.6	26
117	Synergetic strengthening far beyond rule of mixtures in gradient structured aluminum rod. Scripta Materialia, 2016, 122, 106-109.	5.2	89
118	Remarkably enhanced thermal transport based on a flexible horizontally-aligned carbon nanotube array film. Scientific Reports, 2016, 6, 21014.	3.3	68
119	Mechanical properties of copper/bronze laminates: Role of interfaces. Acta Materialia, 2016, 116, 43-52.	7.9	507
120	Alloying Mg with Gd and Y: Increasing both plasticity and strength. Computational Materials Science, 2016, 115, 85-91.	3.0	46
121	Microstructure evolution and strengthening mechanisms of pure titanium with nano-structured surface obtained by high energy shot peening. Vacuum, 2016, 125, 215-221.	3.5	62
122	Strength and ductility of gradient structured copper obtained by surface mechanical attrition treatment. Materials and Design, 2016, 105, 89-95.	7.0	97
123	Atomic-scale homogenization in an fcc-based high-entropy alloy via severe plastic deformation. Journal of Alloys and Compounds, 2016, 686, 15-23.	5.5	23
124	Grain size effect on radiation tolerance of nanocrystalline Mo. Scripta Materialia, 2016, 123, 90-94.	5.2	60
125	Ultraviolet light irradiation on pitting corrosion of Cu-based bulk metallic glasses. Journal of Alloys and Compounds, 2016, 661, 345-348.	5.5	9
126	Contribution of van der Waals forces to the plasticity of magnesium. Acta Materialia, 2016, 107, 127-132.	7.9	20

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127	Microcombing enables high-performance carbon nanotube composites. Composites Science and Technology, 2016, 123, 92-98.	7.8	22
128	Microstructure and tensile behaviour of pure titanium produced after high-energy shot peening. Materials Science and Technology, 2016, 32, 1323-1329.	1.6	13
129	Producing Bulk Ultrafine-Grained Materials by Severe Plastic Deformation: Ten Years Later. Jom, 2016, 68, 1216-1226.	1.9	346
130	Effect of nano-oxide particle size on radiation resistance of ironâ€“chromium alloys. Journal of Nuclear Materials, 2016, 469, 72-81.	2.7	21
131	Effect of charge redistribution factor on stacking-fault energies of Mg-based binary alloys. Scripta Materialia, 2016, 112, 101-105.	5.2	44
132	Fundamentals of Superior Properties in Bulk NanoSPD Materials. Materials Research Letters, 2016, 4, 1-21.	8.7	280
133	Long-term stability of 14YTâ€“4Sc alloy at high temperature. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2015, 647, 222-228.	5.6	7
134	Recent Findings in Superior Strength and Ductility of Ultrafine-Grained Materials. Transactions of the Materials Research Society of Japan, 2015, 40, 309-318.	0.2	16
135	Effect of Ag on interfacial segregation in Mgâ€“Gdâ€“Yâ€“(Ag)â€“Zr alloy. Acta Materialia, 2015, 95, 20-29.	7.9	95
136	Microstructures and Stabilization Mechanisms of Nanocrystalline Iron-Chromium Alloys with Hafnium Addition. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2015, 46, 4394-4404.	2.2	20
137	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.	4.2	33
138	Anneal hardening of a nanostructured Cuâ€“Al alloy processed by high-pressure torsion and rolling. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2015, 628, 207-215.	5.6	24
139	Grain boundary formation by remnant dislocations from the de-twinning of thin nano-twins. Scripta Materialia, 2015, 100, 98-101.	5.2	58
140	Alloying effect on grain-size dependent deformation twinning in nanocrystalline Cuâ€“Zn alloys. Philosophical Magazine, 2015, 95, 301-310.	1.6	22
141	Superior mechanical properties of ZK60 mg alloy processed by equal channel angular pressing and rolling. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2015, 630, 45-50.	5.6	55
142	A model for ã€ˆc+aã€‰ dislocation transmission across nano-spaced parallel basal stacking faults in a HCP alloy. Philosophical Magazine Letters, 2015, 95, 58-66.	1.2	7
143	The role of shear strain on texture and microstructural gradients in low carbon steel processed by Surface Mechanical Attrition Treatment. Scripta Materialia, 2015, 108, 100-103.	5.2	60
144	Influence of scandium addition on the high-temperature grain size stabilization of oxide-dispersion-strengthened (ODS) ferritic alloy. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2015, 636, 565-571.	5.6	23

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145	Strain hardening and ductility in a coarse-grain/nanostructure laminate material. Scripta Materialia, 2015, 103, 57-60.	5.2	195
146	An Ideal Ultrafine-Grained Structure for High Strength and High Ductility. Materials Research Letters, 2015, 3, 88-94.	8.7	100
147	Strong and Conductive Dry Carbon Nanotube Films by Microcombing. Small, 2015, 11, 3830-3836.	10.0	56
148	Fabrication of epitaxial Cu3Ge on sapphire with controlled crystallinity and planar defects. Journal of Alloys and Compounds, 2015, 641, 238-243.	5.5	6
149	Ultralight anisotropic foams from layered aligned carbon nanotube sheets. Nanoscale, 2015, 7, 17038-17047.	5.6	45
150	Stacking-fault energy effect on zero-strain deformation twinning in nanocrystalline Cuâ€“Zn alloys. Scripta Materialia, 2015, 109, 89-93.	5.2	26
151	Influence of gradient structure volume fraction on the mechanical properties of pure copper. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2015, 645, 280-285.	5.6	128
152	Heterogeneous lamella structure unites ultrafine-grain strength with coarse-grain ductility. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 14501-14505.	7.1	1,202
153	A new micromechanical model of CNT-metal nanocomposites with random clustered distribution of CNTs. Frattura Ed Integrita Strutturale, 2015, 9, 471-484.	0.9	1
154	Macroscopic Twinning Strain in Nanocrystalline Cu. Materials Research Letters, 2014, 2, 63-69.	8.7	31
155	High-temperature grain size stabilization of nanocrystalline Feâ€“Cr alloys with Hf additions. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2014, 613, 289-295.	5.6	36
156	Aligned Carbon Nanotube Composite Prepregs. , 2014, , 649-670.		2
157	Twinning via the motion of incoherent twin boundaries nucleated at grain boundaries in a nanocrystalline Cu alloy. Scripta Materialia, 2014, 72-73, 35-38.	5.2	35
158	Mechanical, electrical and thermal properties of aligned carbon nanotube/polyimide composites. Composites Part B: Engineering, 2014, 56, 408-412.	12.0	200
159	Mechanical and electrical properties of aligned carbon nanotube/carbon matrix composites. Carbon, 2014, 75, 307-313.	10.3	49
160	Concurrent microstructural evolution of ferrite and austenite in a duplex stainless steel processed by high-pressure torsion. Acta Materialia, 2014, 63, 16-29.	7.9	90
161	Stabilizing carbon nanotube yarns using chemical vapor infiltration. Composites Science and Technology, 2014, 90, 82-87.	7.8	26
162	Extraordinary strain hardening by gradient structure. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 7197-7201.	7.1	912

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163	Tuning exchange bias in epitaxial Ni/MgO/TiN heterostructures integrated on Si(1 0 0). Current Opinion in Solid State and Materials Science, 2014, 18, 263-268.	11.5	11
164	Strengthening at nanoscaled coherent twin boundary in f.c.c. metals. Philosophical Magazine, 2014, 94, 1249-1262.	1.6	18
165	A new metastable precipitate phase in Mgâ€“Gdâ€“Yâ€“Zr alloy. Philosophical Magazine, 2014, 94, 2403-2409.	1.6	38
166	Dryâ€Processable Carbon Nanotubes for Functional Devices and Composites. Small, 2014, 10, 4606-4625.	10.0	61
167	Preface to the special issue on ultrafine-grained materials. Journal of Materials Science, 2014, 49, 6485-6486.	3.7	3
168	Synergetic Strengthening by Gradient Structure. Materials Research Letters, 2014, 2, 185-191.	8.7	442
169	Structural annealing of carbon coated aligned multi-walled carbon nanotube sheets. Carbon, 2014, 79, 113-122.	10.3	37
170	Size effect of primary Y2O3 additions on the characteristics of the nanostructured ferritic ODS alloys: Comparing as-milled and as-milled/annealed alloys using S/TEM. Journal of Nuclear Materials, 2014, 452, 223-229.	2.7	34
171	Nano ZrO2 particles in nanocrystalline Feâ€“14Crâ€“1.5Zr alloy powders. Journal of Nuclear Materials, 2014, 452, 434-439.	2.7	33
172	Nucleation and growth mechanism of Ag precipitates in a CuAgZr alloy. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2014, 610, 85-90.	5.6	22
173	Stress relaxation in carbon nanotube-based fibers for load-bearing applications. Carbon, 2013, 52, 347-355.	10.3	26
174	In-situ atomic-scale observation of irradiation-induced void formation. Nature Communications, 2013, 4, 2288.	12.8	98
175	Ultrastrong, Stiff and Multifunctional Carbon Nanotube Composites. Materials Research Letters, 2013, 1, 19-25.	8.7	130
176	Carbon Nanotube Yarn Electrodes for Enhanced Detection of Neurotransmitter Dynamics in Live Brain Tissue. ACS Nano, 2013, 7, 7864-7873.	14.6	125
177	Effect of carbon nanotube length on thermal, electrical and mechanical properties of CNT/bismaleimide composites. Carbon, 2013, 53, 145-152.	10.3	166
178	Grain size effect on twin density in as-deposited nanocrystalline Cu film. Philosophical Magazine, 2013, 93, 4355-4363.	1.6	16
179	Twinning in cryomilled nanocrystalline Mg powder. Philosophical Magazine Letters, 2013, 93, 457-464.	1.2	5
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