

Yuntian T Zhu

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.

399
papers

33,093
citations

100
h-index

172
g-index

413
ext. papers

38,158
ext. citations

6.5
avg, IF

7.54
L-index

#	Paper	IF	Citations
399	Twin thickness and dislocation interactions affect the incoherent-twin boundary phase in face-centered cubic metals. <i>Cell Reports Physical Science</i> , 2022 , 100736	6.1	0
398	Mechanical Properties and Deformation Mechanisms of Heterostructured High-Entropy and Medium-Entropy Alloys: A Review. <i>Frontiers in Materials</i> , 2022 , 8,	4	2
397	Effect of texture on deformation behavior of heterogeneous Mg-13Gd alloy with strength-ductility synergy. <i>Journal of Materials Science and Technology</i> , 2022 , 113, 271-286	9.1	0
396	Activating dispersed strain bands in tensioned nanostructure layer for high ductility: The effects of microstructure inhomogeneity. <i>International Journal of Plasticity</i> , 2022 , 149, 103159	7.6	1
395	Dual-phase hetero-structured strategy to improve ductility of a low carbon martensitic steel. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2022 , 834, 142584	5.3	2
394	Mechanical response of the constrained nanostructured layer in heterogeneous laminate. <i>Scripta Materialia</i> , 2022 , 207, 114310	5.6	2
393	Achieving high hetero-deformation induced (HDI) strengthening and hardening in brass by dual heterostructures. <i>Journal of Materials Science and Technology</i> , 2022 , 98, 244-247	9.1	8
392	Unveiling microstructural origins of the balanced strength-ductility combination in eutectic high-entropy alloys at cryogenic temperatures. <i>Materials Research Letters</i> , 2022 , 10, 602-610	7.4	
391	Heterostructure alleviates Lüders deformation of ultrafine-grained stainless steels. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2022 , 143393	5.3	0
390	Gradient and lamellar heterostructures for superior mechanical properties. <i>MRS Bulletin</i> , 2021 , 46, 244-249	3.9	18
389	Grain size effect on tensile properties and slip systems of pure magnesium. <i>Acta Materialia</i> , 2021 , 206, 116604	8.4	28
388	Length-dependent carbon nanotube film structures and mechanical properties. <i>Nanotechnology</i> , 2021 , 32,	3.4	2
387	Multi-heterostructure and mechanical properties of N-doped FeMnCoCr high entropy alloy. <i>International Journal of Plasticity</i> , 2021 , 139, 102965	7.6	19
386	Effect of dislocation configuration on Ag segregation in subgrain boundary of a Mg-Ag alloy. <i>Scripta Materialia</i> , 2021 , 191, 219-224	5.6	9
385	Heterostructured materials: superior properties from hetero-zone interaction. <i>Materials Research Letters</i> , 2021 , 9, 1-31	7.4	160
384	Key roles of particles in grain refinement and material strengthening for an aluminum matrix composite. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2021 , 801, 140414	5.3	9
383	Plastic accommodation during tensile deformation of gradient structure. <i>Science China Materials</i> , 2021 , 64, 1534-1544	7.1	9

382	Unexpected high-temperature brittleness of a Mg-Gd-Y-Ag alloy. <i>Journal of Magnesium and Alloys</i> , 2021 ,	8.8	2
381	Tracing plastic deformation path and concurrent grain refinement during additive friction stir deposition. <i>Materialia</i> , 2021 , 18, 101159	3.2	8
380	Architecturing materials at mesoscale: some current trends. <i>Materials Research Letters</i> , 2021 , 9, 399-421	7.4	11
379	Introduction to Heterostructured Materials: A Fast Emerging Field. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2021 , 52, 4715	2.3	4
378	Martensitic transformation in CrCoNi medium-entropy alloy at cryogenic temperature. <i>Applied Physics Letters</i> , 2021 , 119, 131901	3.4	2
377	Effect of global constraint on the mechanical behavior of gradient materials. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2021 , 826, 141963	5.3	0
376	Significance of surface layer integrity for sustaining the ductility of gradient-structured nickel. <i>Materials Letters</i> , 2021 , 303, 130491	3.3	1
375	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
374	Ductility and strain hardening in gradient and lamellar structured materials. <i>Scripta Materialia</i> , 2020 , 186, 321-325	5.6	47
373	Critical microstructures and defects in heterostructured materials and their effects on mechanical properties. <i>Acta Materialia</i> , 2020 , 189, 129-144	8.4	63
372	Alloying effects on the plasticity of magnesium: comprehensive analysis of influences of all five slip systems. <i>Journal of Physics Condensed Matter</i> , 2020 , 32, 015401	1.8	2
371	Tuning heterostructures with powder metallurgy for high synergistic strengthening and hetero-deformation induced hardening. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2020 , 777, 139074	5.3	9
370	Effect of heterostructure and hetero-deformation induced hardening on the strength and ductility of brass. <i>Acta Materialia</i> , 2020 , 186, 644-655	8.4	56
369	Shear band stability and uniform elongation of gradient structured material: Role of lateral constraint. <i>Extreme Mechanics Letters</i> , 2020 , 37, 100686	3.9	7
368	Hetero-deformation induced strengthening and toughening of pure iron with inverse and multi-gradient structures. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2020 , 782, 139256	5.3	7
367	Improving mechanical properties of heterogeneous Mg-Gd alloy laminate via accumulated extrusion bonding. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2020 , 785, 139324	5.3	12
366	Influence of Strain Rate on Mechanical Behaviours of Gradient-Structured Copper. <i>Materials Transactions</i> , 2020 , 61, 708-717	1.3	3
365	Improving the high-temperature ductility of Al composites by tailoring the nanoparticle network. <i>Materialia</i> , 2020 , 9, 100523	3.2	5

364	Formation of solute nanostructures in an AlZnMg alloy during long-term natural aging. <i>Journal of Alloys and Compounds</i> , 2020 , 821, 153572	5.7	15
363	Hardening after annealing in nanostructured 316L stainless steel. <i>Nano Materials Science</i> , 2020 , 2, 80-82	10.2	9
362	Solute segregation assisted nanocrystallization of a cold-rolled MgAg alloy during annealing. <i>Scripta Materialia</i> , 2020 , 177, 69-73	5.6	23
361	Atomic segregation at twin boundaries in a Mg-Ag alloy. <i>Scripta Materialia</i> , 2020 , 178, 193-197	5.6	21
360	Layer-by-layer corrosion behavior of 316LN stainless steel with a gradient-nanostructured surface. <i>Electrochemistry Communications</i> , 2020 , 110, 106642	5.1	2
359	Mechanical behavior, deformation mechanism and microstructure evolutions of ultrafine-grained Al during recovery via annealing. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2020 , 772, 138706	5.3	10
358	Effective Surface Nano-Crystallization of NiFeCoMoV Medium Entropy Alloy by Rotationally Accelerated Shot Peening (RASP). <i>Entropy</i> , 2020 , 22,	2.8	3
357	Multistage work hardening assisted by multi-type twinning in ultrafine-grained heterostructural eutectic high-entropy alloys. <i>Materials Today</i> , 2020 , 41, 62-71	21.8	61
356	Stiff, strong and ductile heterostructured aluminum composites reinforced with oriented nanoplatelets. <i>Scripta Materialia</i> , 2020 , 189, 140-144	5.6	13
355	Ultrastrong low-carbon nanosteel produced by heterostructure and interstitial mediated warm rolling. <i>Science Advances</i> , 2020 , 6,	14.3	28
354	On the Heterogeneity of Local Shear Strain Induced by High-Pressure Torsion. <i>Advanced Engineering Materials</i> , 2020 , 22, 1900477	3.5	15
353	Mechanical Properties and Microstructures of Commercial-Purity Aluminum Processed by Rotational Accelerated Shot Peening Plus Cold Rolling. <i>Advanced Engineering Materials</i> , 2020 , 22, 1900478	3.5	6
352	Hetero-deformation induced (HDI) hardening does not increase linearly with strain gradient. <i>Scripta Materialia</i> , 2020 , 174, 19-23	5.6	55
351	Dense dispersed shear bands in gradient-structured Ni. <i>International Journal of Plasticity</i> , 2020 , 124, 186-198	10.8	37
350	Grain refinement and mechanical properties of pure aluminum processed by accumulative extrusion bonding. <i>Transactions of Nonferrous Metals Society of China</i> , 2019 , 29, 437-447	3.3	28
349	Heterostructure induced dispersive shear bands in heterostructured Cu. <i>Scripta Materialia</i> , 2019 , 170, 76-80	5.6	24
348	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
347	In-situ observation of dislocation dynamics near heterostructured interfaces. <i>Materials Research Letters</i> , 2019 , 7, 376-382	7.4	45

346	Predicting the formation of dislocations in magnesium alloys from multiple stacking fault energies. <i>Materialia</i> , 2019 , 7, 100352	3.2	11
345	Improved corrosion resistance of 316LN stainless steel performed by rotationally accelerated shot peening. <i>Applied Surface Science</i> , 2019 , 481, 1305-1312	6.7	14
344	Enhanced irradiation and corrosion resistance of 316LN stainless steel with high densities of dislocations and twins. <i>Journal of Nuclear Materials</i> , 2019 , 517, 234-240	3.3	8
343	Radiation and Corrosion Resistances of 316LN Austenitic Stainless Steel by Rotationally Accelerated Shot Peening. <i>Minerals, Metals and Materials Series</i> , 2019 , 1251-1260	0.3	
342	Achieving Gradient Martensite Structure and Enhanced Mechanical Properties in a Metastable β Titanium Alloy. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2019 , 50, 2126-2138	2.3	18
341	Evolution of twinning systems and variants during sequential twinning in cryo-rolled titanium. <i>International Journal of Plasticity</i> , 2019 , 112, 52-67	7.6	32
340	Extra strengthening in a coarse/ultrafine grained laminate: Role of gradient interfaces. <i>International Journal of Plasticity</i> , 2019 , 123, 196-207	7.6	57
339	Residual stress provides significant strengthening and ductility in gradient structured materials. <i>Materials Research Letters</i> , 2019 , 7, 433-438	7.4	41
338	Perspective on hetero-deformation induced (HDI) hardening and back stress. <i>Materials Research Letters</i> , 2019 , 7, 393-398	7.4	257
337	Simultaneously enhancing strength and ductility of a high-entropy alloy via gradient hierarchical microstructures. <i>International Journal of Plasticity</i> , 2019 , 123, 178-195	7.6	90
336	Influence of annealing parameters on the mechanical properties of heterogeneous lamella structured 5083 aluminum alloy. <i>Letters on Materials</i> , 2019 , 9, 556-560	0.9	3
335	Unique defect evolution during the plastic deformation of a metal matrix composite. <i>Scripta Materialia</i> , 2019 , 162, 316-320	5.6	31
334	Ductility by shear band delocalization in the nano-layer of gradient structure. <i>Materials Research Letters</i> , 2019 , 7, 12-17	7.4	50
333	Optimizing the strength, ductility and electrical conductivity of a Cu-Cr-Zr alloy by rotary swaging and aging treatment. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2019 , 746, 211-216	5.3	46
332	The formation mechanism of a novel interfacial phase with high thermal stability in a Mg-Gd-Y-Ag-Zr alloy. <i>Acta Materialia</i> , 2019 , 162, 214-225	8.4	44
331	Grain refining and mechanical properties of AZ31 alloy processed by accumulated extrusion bonding. <i>Journal of Alloys and Compounds</i> , 2018 , 745, 599-608	5.7	36
330	A comparison of the twisted and untwisted structures for one-dimensional carbon nanotube assemblies. <i>Materials and Design</i> , 2018 , 146, 20-27	8.1	20
329	Effect of strain rate on mechanical properties of Cu/Ni multilayered composites processed by electrodeposition. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2018 , 726, 154-159	5.3	11

328	Superior strength and ductility of 316L stainless steel with heterogeneous lamella structure. <i>Journal of Materials Science</i> , 2018 , 53, 10442-10456	4.3	102
327	Review on superior strength and enhanced ductility of metallic nanomaterials. <i>Progress in Materials Science</i> , 2018 , 94, 462-540	42.2	404
326	Catch twin nucleation in action at atomic scale. <i>Science China Materials</i> , 2018 , 61, 1019-1020	7.1	2
325	Ni Nanobuffer Layer Provides Light-Weight CNT/Cu Fibers with Superior Robustness, Conductivity, and Ampacity. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 8197-8204	9.5	30
324	Origins and dissociation of pyramidal dislocations in magnesium and its alloys. <i>Acta Materialia</i> , 2018 , 146, 265-272	8.4	50
323	A silicon-impregnated carbon nanotube mat as a lithium-ion cell anode. <i>Journal of Applied Electrochemistry</i> , 2018 , 48, 127-133	2.6	8
322	Interface affected zone for optimal strength and ductility in heterogeneous laminate. <i>Materials Today</i> , 2018 , 21, 713-719	21.8	173
321	Extraordinary Bauschinger effect in gradient structured copper. <i>Scripta Materialia</i> , 2018 , 150, 57-60	5.6	42
320	Quantifying the synergetic strengthening in gradient material. <i>Scripta Materialia</i> , 2018 , 150, 22-25	5.6	60
319	Alleviating surface tensile stress in e-beam treated tool steels by cryogenic treatment. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2018 , 722, 167-172	5.3	5
318	Structural evolutions of metallic materials processed by severe plastic deformation. <i>Materials Science and Engineering Reports</i> , 2018 , 133, 1-59	30.9	231
317	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
316	A multiscale architected CuCrZr alloy with high strength, electrical conductivity and thermal stability. <i>Journal of Alloys and Compounds</i> , 2018 , 735, 1389-1394	5.7	36
315	Ductility and plasticity of nanostructured metals: differences and issues. <i>Materials Today Nano</i> , 2018 , 2, 15-20	9.7	62
314	A novel approach to align carbon nanotubes via water-assisted shear stretching. <i>Composites Science and Technology</i> , 2018 , 164, 1-7	8.6	9
313	On the origin and behavior of irradiation-induced c-component dislocation loops in magnesium. <i>Acta Materialia</i> , 2017 , 131, 457-466	8.4	10
312	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
311	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

310	Gradient structure produces superior dynamic shear properties. <i>Materials Research Letters</i> , 2017 , 5, 501-507	4.7	20
309	Effect of grain structure on Charpy impact behavior of copper. <i>Scientific Reports</i> , 2017 , 7, 44783	4.9	10
308	Investigation of microcombing parameters in enhancing the properties of carbon nanotube yarns. <i>Materials and Design</i> , 2017 , 134, 181-187	8.1	9
307	High-Performance Composites Produced from Dry-Processable Multi-Walled Carbon Nanotubes 2017 , 3-27		
306	Microstructural evolution and mechanical properties of a 5052 Al alloy with gradient structures. <i>Journal of Materials Research</i> , 2017 , 32, 4443-4451	2.5	20
305	The Evolution of Strain Gradient and Anisotropy in Gradient-Structured Metal. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2017 , 48, 3951-3960	2.3	7
304	Soldering carbon nanotube fibers by targeted electrothermal-induced carbon deposition. <i>Carbon</i> , 2017 , 121, 242-247	10.4	16
303	Heterogeneous materials: a new class of materials with unprecedented mechanical properties. <i>Materials Research Letters</i> , 2017 , 5, 527-532	7.4	468
302	Bauschinger Effect and Back Stress in Gradient Cu-Ge Alloy. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2017 , 48, 3943-3950	2.3	18
301	Radial growth of multi-walled carbon nanotubes in aligned sheets through cyclic carbon deposition and graphitization. <i>Carbon</i> , 2017 , 111, 411-418	10.4	19
300	Investigation and modification of carbon buckypaper as an electrocatalyst support for oxygen reduction. <i>Journal of Applied Electrochemistry</i> , 2017 , 47, 105-115	2.6	3
299	Gradient Structured Copper by Rotationally Accelerated Shot Peening. <i>Journal of Materials Science and Technology</i> , 2017 , 33, 758-761	9.1	71
298	Microstructure Evolution and Mechanical Properties of Al-TiB ₂ /TiC In Situ Aluminum-Based Composites during Accumulative Roll Bonding (ARB) Process. <i>Materials</i> , 2017 , 10,	3.5	19
297	Fundamentals of Superior Properties in Bulk NanoSPD Materials. <i>Materials Research Letters</i> , 2016 , 4, 1-21	7.4	230
296	Localized deformation via multiple twinning in a Mg ₉₂ Zn ₈ 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
295	Synergetic strengthening far beyond rule of mixtures in gradient structured aluminum rod. <i>Scripta Materialia</i> , 2016 , 122, 106-109	5.6	58
294	Remarkably enhanced thermal transport based on a flexible horizontally-aligned carbon nanotube array film. <i>Scientific Reports</i> , 2016 , 6, 21014	4.9	54
293	Mechanical properties of copper/bronze laminates: Role of interfaces. <i>Acta Materialia</i> , 2016 , 116, 43-52	8.4	280

292	Alloying Mg with Gd and Y: Increasing both plasticity and strength. <i>Computational Materials Science</i> , 2016 , 115, 85-91	3.2	28
291	Microstructure evolution and strengthening mechanisms of pure titanium with nano-structured surface obtained by high energy shot peening. <i>Vacuum</i> , 2016 , 125, 215-221	3.7	45
290	Strength and ductility of gradient structured copper obtained by surface mechanical attrition treatment. <i>Materials and Design</i> , 2016 , 105, 89-95	8.1	74
289	Atomic-scale homogenization in an fcc-based high-entropy alloy via severe plastic deformation. <i>Journal of Alloys and Compounds</i> , 2016 , 686, 15-23	5.7	15
288	Grain size effect on radiation tolerance of nanocrystalline Mo. <i>Scripta Materialia</i> , 2016 , 123, 90-94	5.6	41
287	Ultraviolet light irradiation on pitting corrosion of Cu-based bulk metallic glasses. <i>Journal of Alloys and Compounds</i> , 2016 , 661, 345-348	5.7	5
286	Contribution of van der Waals forces to the plasticity of magnesium. <i>Acta Materialia</i> , 2016 , 107, 127-132	8.4	18
285	Microcombing enables high-performance carbon nanotube composites. <i>Composites Science and Technology</i> , 2016 , 123, 92-98	8.6	18
284	Microstructure and tensile behaviour of pure titanium produced after high-energy shot peening. <i>Materials Science and Technology</i> , 2016 , 32, 1323-1329	1.5	11
283	Producing Bulk Ultrafine-Grained Materials by Severe Plastic Deformation: Ten Years Later. <i>Jom</i> , 2016 , 68, 1216-1226	2.1	268
282	Effect of nano-oxide particle size on radiation resistance of iron-chromium alloys. <i>Journal of Nuclear Materials</i> , 2016 , 469, 72-81	3.3	18
281	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
280	A new perspective on hierarchical structure to analyse strength limiting factors of CNT yarns. <i>International Journal of Sustainable Materials and Structural Systems</i> , 2016 , 2, 308	0.6	
279	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
278	Deformation Twinning in Nanocrystalline Metals 2016 ,		
277	Fabrication of Al/Mg/Al Composites via Accumulative Roll Bonding and Their Mechanical Properties. <i>Materials</i> , 2016 , 9,	3.5	21
276	Back stress strengthening and strain hardening in gradient structure. <i>Materials Research Letters</i> , 2016 , 4, 145-151	7.4	396
275	Combining gradient structure and TRIP effect to produce austenite stainless steel with high strength and ductility. <i>Acta Materialia</i> , 2016 , 112, 337-346	8.4	179

274	Microstructural evolution and phase transformation in twinning-induced plasticity steel induced by high-pressure torsion. <i>Acta Materialia</i> , 2016 , 109, 300-313	8.4	48
273	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
272	Nucleation of deformation twins in nanocrystalline fcc alloys. <i>Philosophical Magazine</i> , 2016 , 96, 3790-3802	2.3	3
271	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
270	Superior mechanical properties of ZK60 mg alloy processed by equal channel angular pressing and rolling. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2015 , 630, 45-50	5.3	45
269	A model for <c+a> dislocation transmission across nano-spaced parallel basal stacking faults in a HCP alloy. <i>Philosophical Magazine Letters</i> , 2015 , 95, 58-66	1	6
268	The role of shear strain on texture and microstructural gradients in low carbon steel processed by Surface Mechanical Attrition Treatment. <i>Scripta Materialia</i> , 2015 , 108, 100-103	5.6	43
267	Influence of scandium addition on the high-temperature grain size stabilization of oxide-dispersion-strengthened (ODS) ferritic alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2015 , 636, 565-571	5.3	13
266	Strain hardening and ductility in a coarse-grain/nanostructure laminate material. <i>Scripta Materialia</i> , 2015 , 103, 57-60	5.6	124
265	An Ideal Ultrafine-Grained Structure for High Strength and High Ductility. <i>Materials Research Letters</i> , 2015 , 3, 88-94	7.4	79
264	Strong and Conductive Dry Carbon Nanotube Films by Microcombing. <i>Small</i> , 2015 , 11, 3830-6	11	45
263	Fabrication of epitaxial Cu ₃ Ge on sapphire with controlled crystallinity and planar defects. <i>Journal of Alloys and Compounds</i> , 2015 , 641, 238-243	5.7	4
262	Ultralight anisotropic foams from layered aligned carbon nanotube sheets. <i>Nanoscale</i> , 2015 , 7, 17038-47	7.7	34
261	Stacking-fault energy effect on zero-strain deformation twinning in nanocrystalline Cu ₃ Zn alloys. <i>Scripta Materialia</i> , 2015 , 109, 89-93	5.6	21
260	Influence of gradient structure volume fraction on the mechanical properties of pure copper. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2015 , 645, 280-285	5.3	85
259	Heterogeneous lamella structure unites ultrafine-grain strength with coarse-grain ductility. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015 , 112, 14501-5	11.5	708
258	Long-term stability of 14YTiZrSc alloy at high temperature. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2015 , 647, 222-228	5.3	7
257	Recent Findings in Superior Strength and Ductility of Ultrafine-Grained Materials. <i>Transactions of the Materials Research Society of Japan</i> , 2015 , 40, 309-318	0.2	8

256	Effect of Ag on interfacial segregation in Mg ₉₀ Gd ₅ (Ag) ₅ Zr alloy. <i>Acta Materialia</i> , 2015 , 95, 20-29	8.4	70
255	Microstructures and Stabilization Mechanisms of Nanocrystalline Iron-Chromium Alloys with Hafnium Addition. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2015 , 46, 4394-4404	2.3	19
254	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
253	Anneal hardening of a nanostructured Cu ₃ Al alloy processed by high-pressure torsion and rolling. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2015 , 628, 207-215	5.3	21
252	Grain boundary formation by remnant dislocations from the de-twinning of thin nano-twins. <i>Scripta Materialia</i> , 2015 , 100, 98-101	5.6	51
251	Alloying effect on grain-size dependent deformation twinning in nanocrystalline Cu ₃ Zn alloys. <i>Philosophical Magazine</i> , 2015 , 95, 301-310	1.6	18
250	Mechanical, electrical and thermal properties of aligned carbon nanotube/polyimide composites. <i>Composites Part B: Engineering</i> , 2014 , 56, 408-412	10	164
249	Mechanical and electrical properties of aligned carbon nanotube/carbon matrix composites. <i>Carbon</i> , 2014 , 75, 307-313	10.4	38
248	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	8.4	66
247	Stabilizing carbon nanotube yarns using chemical vapor infiltration. <i>Composites Science and Technology</i> , 2014 , 90, 82-87	8.6	20
246	Extraordinary strain hardening by gradient structure. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014 , 111, 7197-201	11.5	644
245	Tuning exchange bias in epitaxial Ni/MgO/TiN heterostructures integrated on Si(1 0 0). <i>Current Opinion in Solid State and Materials Science</i> , 2014 , 18, 263-268	12	9
244	Strengthening at nanoscaled coherent twin boundary in f.c.c. metals. <i>Philosophical Magazine</i> , 2014 , 94, 1249-1262	1.6	15
243	A new metastable precipitate phase in Mg ₉₀ Gd ₅ Zr alloy. <i>Philosophical Magazine</i> , 2014 , 94, 2403-2409	1.6	29
242	Dry-processable carbon nanotubes for functional devices and composites. <i>Small</i> , 2014 , 10, 4606-25	11	53
241	Preface to the special issue on ultrafine-grained materials. <i>Journal of Materials Science</i> , 2014 , 49, 6485-6486	4.86	3
240	Synergetic Strengthening by Gradient Structure. <i>Materials Research Letters</i> , 2014 , 2, 185-191	7.4	309
239	Structural annealing of carbon coated aligned multi-walled carbon nanotube sheets. <i>Carbon</i> , 2014 , 79, 113-122	10.4	28

238	Size effect of primary Y ₂ O ₃ additions on the characteristics of the nanostructured ferritic ODS alloys: Comparing as-milled and as-milled/annealed alloys using S/TEM. <i>Journal of Nuclear Materials</i> , 2014 , 452, 223-229	3.3	28
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