Terence G Langdon

List of Articles by Year
in descending order

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1,008 peer-reviewed articles	64,218 peer-reviewed citations	743 119 peer-reviewed h-index	875 248 g-index
1243 documents	73814 doc citations	836 127 h-index	21033 citing authors

#	Article	IF	Citations
1	Examining whether normal stress affects deformation twinning. Journal of Materials Science and Technology, 2025, 208, 307-312.	13.6	2
2	Superplasticity in Severely Deformed High-Entropy Alloys. Nippon Kinzoku Gakkaishi/Journal of the Japan Institute of Metals, 2025, 89, 76-86.	0.3	0
3	Indentation size effects and its relevance to ultrafine-grained materials. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2025, 923, 147733.	6.3	7
4	Corrosion performance of Al-6061 alloy after high-pressure torsion processing. Materials Characterization, 2025, 220, 114714.	5.0	2
5	Flow stress softening and deformation mechanism under competition of current density and strain rate in basket structured highâ€entropy alloy. Rare Metals, 2025, 44, 2705-2719.	11.2	4
6	Self-annealing behavior of an Mg-Dy alloy processed by high-pressure torsion. Current Applied Physics, 2025, 73, 41-48.	2.7	2
7	Characterization of Cu-Nb-Cu heterostructure fabricated by high-pressure torsion. Journal of Alloys and Compounds, 2025, 1029, 180732.	6.0	7
8	Enhanced thermal stability of nanocrystalline Cu composites processed by high-pressure torsion: The pinning effect of Alâ„Oâ„*f*, GO, and rGO/Alâ„Oâ„*f* nanoparticles. Journal of Alloys and Compounds, 2025, 1033, 181283.	6.0	6
9	Severe Plastic Deformation of Ceramics by High-Pressure Torsion: Review of Principles and Applications. Annual Review of Materials Research, 2025, 55, 89-124.	9.4	24
10	The significance of crystal structure on grain refinement during severe plastic deformation. Journal of Materials Science, 2025, 60, 11616-11628.	3.4	4
11	Recent advances in using severe plastic deformation for the processing of nanomaterials. Nanoscale, 2025, 17, 17417-17427.	5.0	4
12	A study of die parameters influencing the plastic deformation for 3D finite element simulations of equal-channel angular pressing. Journal of Materials Science, 2025, 60, 14207-14220.	3.4	1
13	An EBSD analysis of a commercial immiscible Cu43%Cr alloy after high-pressure torsion processing and annealing. Philosophical Magazine, 2024, 104, 88-114.	1.6	3
14	Corrigendum to article â€œUsing direct high-pressure torsion synthesis to produce aluminium matrix nanocomposites reinforced with carbon nanotubesâ€•[J. Alloy. Compd. 968 (2023) 171928]. Journal of Alloys and Compounds, 2024, 977, 173067.	6.0	0
15	Enhanced mechanical properties and microstructural stability of ultrafine-grained biodegradable Znâ€“Liâ€“Mnâ€“Mgâ€“Cu alloys produced by rapid solidification and high-pressure torsion. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2024, 892, 146027.	6.3	15
16	Estimating dislocation density from electron backscatter diffraction data for an AZ31/Mg-0.6Gd hybrid alloy fabricated by high-pressure torsion. Philosophical Magazine, 2024, 104, 389-405.	1.6	6
17	Primary recrystallization of a magnesium hybrid material fabricated by high-pressure torsion. Materials Today Communications, 2024, 38, 108305.	2.2	1
18	Correlation between microstructure, magnetic properties and mechanical behavior of the Permimphy alloy after high-pressure torsion. Journal of Materials Science, 2024, 59, 5968-5980.	3.4	2

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19	The role of grain size in achieving excellent properties in structural materials. Journal of Materials Research and Technology, 2024, 30, 3448-3462.	6.1	31
20	Texture and microstructural evolution in an Al-6061 alloy processed by high-pressure torsion. Materials Characterization, 2024, 212, 114020.	5.0	9
21	Recrystallization and grain growth activation energies in a hybrid magnesium material fabricated by high-pressure torsion. Thermochimica Acta, 2024, 738, 179805.	3.4	2
22	Mechanisms of Low-Temperature Dislocation Motion in High-Entropy Al0.5CoCrCuFeNi Alloy. Metals, 2024, 14, 778.	2.3	3
23	Deformation-induced martensitic transformations: A strategy for overcoming the strength-ductility trade-off in high-entropy alloys. Current Opinion in Solid State and Materials Science, 2024, 31, 101177.	12.3	26
24	Defect Microstructure Evolution in an Immiscible Composite Cu43%Cr Alloy After High-Pressure Torsion and Annealing Using Positron Annihilation Spectroscopy. Metals and Materials International, 2024, 31, 455-466.	3.3	0
25	Improving the strength and surface properties of TNTZ alloy through a combination of high-pressure torsion and laser surface treatment. International Journal of Advanced Manufacturing Technology, 2024, 134, 2693-2704.	2.7	2
26	The influence of graphene oxide on the microstructure and properties of ultrafine-grained copper processed by high-pressure torsion. Journal of Alloys and Compounds, 2024, 1005, 176208.	6.0	5
27	DSC analysis of dissolution reaction in an as-cast and HPT-processed Mg-Gd alloy. Materials Letters, 2024, 376, 137293.	2.5	3
28	The role of processing temperature for achieving superplastic properties in an Al-3Mg-0.2Sc alloy processed by high-pressure torsion. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2024, 916, 147320.	6.3	4
29	Graphene-reinforced metal matrix composites produced by high-pressure torsion: a review. Journal of Materials Science, 2024, 59, 20900-20928.	3.4	12
30	Fracture mechanism of electrically-assisted micro-tension in nanostructured titanium using synchrotron radiation X-ray tomography. Scripta Materialia, 2023, 222, 114997.	5.4	13
31	Modification of the Hall-Petch relationship for submicron-grained fcc metals. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2023, 862, 144419.	6.3	44
32	Evidence for two-stage hardening in an Al-Zn-Mg-Cu alloy processed by high-pressure torsion. Journal of Alloys and Compounds, 2023, 941, 168839.	6.0	17
33	The thermal instability mechanism and annealed deformation behavior of Cu/Nb nanolaminate composites. Journal of Materials Science and Technology, 2023, 157, 163-173.	13.6	22
34	Investigation of Microstructure and Texture Evolution in an AZ31/Mgâ€“Gd Alloy Hybrid Metal Fabricated by Highâ€Pressure Torsion. Advanced Engineering Materials, 2023, 25, .	2.9	14
35	Twenty years of the CoCrFeNiMn high-entropy alloy: achieving exceptional mechanical properties through microstructure engineering. Journal of Materials Research and Technology, 2023, 23, 3362-3423.	6.1	148
36	Breaks in the Hallâ€“Petch Relationship after Severe Plastic Deformation of Magnesium, Aluminum, Copper, and Iron. Crystals, 2023, 13, 413.	2.1	60

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37	An Overview on the Effect of Severe Plastic Deformation on the Performance of Magnesium for Biomedical Applications. Materials, 2023, 16, 2401.	2.9	41
38	Influence of processing temperature on microhardness evolution, microstructure and superplastic behaviour in an Alâ€“Mg alloy processed by high-pressure torsion. Journal of Materials Research and Technology, 2023, 24, 2850-2867.	6.1	25
39	A Conceptual Framework Towards the Realization of In situ Monitoring and Control of End-to-End Additive Manufacturing Process. Micro and Nanosystems, 2023, 15, 92-101.	0.7	1
40	Evaluation of Thermal Stability and Its Effect on the Corrosion Behaviour of Mg-RE Alloys Processed by High-Pressure Torsion. Crystals, 2023, 13, 662.	2.1	11
41	Seventy years of Hall-Petch, ninety years of superplasticity and a generalized approach to the effect of grain size on flow stress. Progress in Materials Science, 2023, 137, 101131.	35.7	285
42	Characterization of defect microstructure in MgRE (RE=Ce, Nd) alloys after processing by high-pressure torsion using positron annihilation spectroscopy and a high resolution X-ray diffraction. Physica B: Condensed Matter, 2023, 663, 414963.	2.7	1
43	Microhardness and Microstructural Evolution of Pure Nickel Processed by High-Pressure Torsion. Crystals, 2023, 13, 887.	2.1	12
44	Significance of adiabatic heating on phase transformation in titanium-based alloys during severe plastic deformation. Materials Characterization, 2023, 203, 113091.	5.0	16
45	Tube High-Pressure Shearing: A Simple Shear Path to Unusual Microstructures and Unprecedented Properties. Materials Transactions, 2023, 64, 1449-1463.	1.2	9
46	Influence of bimetal interface confinement on the Hall-petch slope of multiscale Cu/Nb multilayer composites. Heliyon, 2023, 9, e16231.	3.2	12
47	Tailoring a high-strength Alâ€“4Cu alloy through processing of powders by up to 100 turns of high-pressure torsion. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2023, 882, 145454.	6.3	5
48	Cryo-Severe Plastic Deformation, Microstructures and Properties of Metallic Nanomaterials at Low Temperatures. Materials Transactions, 2023, 64, 1806-1819.	1.2	14
49	Recent advances using equal-channel angular pressing to improve the properties of biodegradable Mgâ€’Zn alloys. Journal of Magnesium and Alloys, 2023, 11, 2260-2284.	11.3	62
50	Using direct high-pressure torsion synthesis to produce aluminium matrix nanocomposites reinforced with carbon nanotubes. Journal of Alloys and Compounds, 2023, 968, 171928.	6.0	13
51	Flow behaviour and microstructural stability in an Alâ€“3Mg-0.2Sc alloy processed by high-pressure torsion at different temperatures. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2023, 887, 145766.	6.3	2
52	A Comparative Study Between AZ31 and Mg-Gd Alloys After High-Pressure Torsion. Journal of Materials Engineering and Performance, 2023, 33, 2860-2874.	1.6	9
53	Structure and cryogenic mechanical properties of severely deformed nonequiatomic alloys of Feâ€“Mnâ€“Coâ€“Cr system. Low Temperature Physics, 2023, 49, 1294-1305.	0.7	3
54	Review: recent advances using severe plastic deformation to improve the properties of battery materials. Journal of Materials Science, 2023, 59, 5651-5680.	3.4	18

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55	Effect of crystallographic texture and twinning on the corrosion behavior of Mg alloys: A review. Journal of Magnesium and Alloys, 2022, 10, 313-325.	11.3	217
56	Exploiting tube high-pressure shearing to prepare a microstructure in Pb-Sn alloys for unprecedented superplasticity. Scripta Materialia, 2022, 209, 114390.	5.4	15
57	Texture evolution in high-pressure torsion processing. Progress in Materials Science, 2022, 125, 100886.	35.7	100
58	Microstructure and mechanical properties of an Feâ€“Mnâ€“Alâ€“C lightweight steel after dynamic plastic deformation processing and subsequent aging. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2022, 833, 142566.	6.3	17
59	Fabrication of hybrid nanocrystalline Alâ€“Ti alloys by mechanical bonding through high-pressure torsion. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2022, 833, 142549.	6.3	17
60	Using Plane Strain Compression Test to Evaluate the Mechanical Behavior of Magnesium Processed by HPT. Metals, 2022, 12, 125.	2.3	20
61	Effect of creep parameters on the steady-state flow stress of pure metals processed by high-pressure torsion. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2022, 835, 142666.	6.3	21
62	Effect of grain size on strength and strain rate sensitivity in metals. Journal of Materials Science, 2022, 57, 5210-5229.	3.4	61
63	Achieving an excellent combination of strength and plasticity in a low carbon steel through dynamic plastic deformation and subsequent annealing. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2022, 842, 143051.	6.3	14
64	Relationship between strength and uniform elongation of metals based on an exponential hardening law. Acta Materialia, 2022, 231, 117866.	8.7	51
65	A general physics-based hardening law for single phase metals. Acta Materialia, 2022, 231, 117877.	8.7	26
66	Examining the effect of the aging state on strength and plasticity of wrought aluminum alloys. Journal of Materials Science and Technology, 2022, 122, 54-67.	13.6	57
67	Using Severe Plastic Deformation to Produce Nanostructured Materials with Superior Properties. Annual Review of Materials Research, 2022, 52, 357-382.	9.4	106
68	Formation of ultrafine grains and twins in the Î²-phase during superplastic deformation of two-phase brasses. Scripta Materialia, 2022, 218, 114804.	5.4	8
69	Study on the Surface Modification of Nanostructured Ti Alloys and Coarse-Grained Ti Alloys. Metals, 2022, 12, 948.	2.3	17
70	Effects of heat treatment on the corrosion behavior and mechanical properties of biodegradable Mg alloys. Journal of Magnesium and Alloys, 2022, 10, 1737-1785.	11.3	136
71	Achieving Superplastic Elongations in an AZ80 Magnesium Alloy Processed by Highâ€Pressure Torsion. Advanced Engineering Materials, 2022, 24, .	2.9	7
72	An Evaluation of the Mechanical Properties, Microstructures, and Strengthening Mechanisms of Pure Mg Processed by Highâ€Pressure Torsion at Different Temperatures. Advanced Engineering Materials, 2022, 24, .	2.9	18

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73	Heterostructured stainless steel: Properties, current trends, and future perspectives. Materials Science and Engineering Reports, 2022, 150, 100691.	24.8	227
74	Evaluation of texture weakening and microstructural evolution in an Feâ€“10Niâ€“7Mn martensitic steel severely deformed by six turns of high-pressure torsion. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2022, 851, 143660.	6.3	15
75	Structure and low-temperature micromechanical properties of as-cast and SPD-processed high-entropy Co25â^'xCr25Fe25Ni25Cx alloys. Low Temperature Physics, 2022, 48, 560-569.	0.7	7
76	Strength and Fatigue Life at 625 K of the Ultrafine-Grained Ti-6Al-4V Alloy Produced by Equal-Channel Angular Pressing. Metals, 2022, 12, 1345.	2.3	5
77	Grain Size Tailoring to Control Strain Hardening and Improve the Mechanical Properties of a CoCrFeNiMn High-Entropy Alloy. High Entropy Alloys & Materials, 2022, 1, 72-83.	2.6	20
78	Effect of grain size on strength and strain rate sensitivity in the CrMnFeCoNi high-entropy alloy. Journal of Materials Research and Technology, 2022, 20, 2358-2368.	6.1	34
79	Microstructure evolution and mechanical response of a boron-modified Tiâ€“6Alâ€“4V alloy during high-pressure torsion processing. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2022, 860, 144124.	6.3	14
80	Evidence for a stable single component sharp texture in high purity aluminum during tube high-pressure shearing at room temperature. Scientific Reports, 2022, 12, .	3.4	5
81	Advances in Superplasticity from a Laboratory Curiosity to the Development of a Superplastic Forming Industry. Metals, 2022, 12, 1921.	2.3	22
82	Using high-pressure torsion to fabricate an Alâ€“Ti hybrid system with exceptional mechanical properties. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2021, 799, 140114.	6.3	14
83	Evaluating the paradox of strength and ductility in ultrafine-grained oxygen-free copper processed by ECAP at room temperature. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2021, 802, 140546.	6.3	37
84	Phase evolution and mechanical properties of an intercritically-annealed Feâ€“10Niâ€“7Mn (wt. %) martensitic steel severely deformed by high-pressure torsion. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2021, 804, 140519.	6.3	8
85	The effect of high-pressure torsion on the microstructure and outstanding pseudoelasticity of a ternary Feâ€“Niâ€“Mn shape memory alloy. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2021, 802, 140647.	6.3	10
86	An examination of microstructural evolution in a Pbâ€“Sn eutectic alloy processed by high-pressure torsion and subsequent self-annealing. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2021, 802, 140653.	6.3	8
87	A stored energy analysis of grains with shear texture orientations in Cu-Ni-Si and Fe-Ni alloys processed by high-pressure torsion. Journal of Alloys and Compounds, 2021, 864, 158142.	6.0	39
88	Engineering mechanical properties by controlling the microstructure of an Feâ€“Niâ€“Mn martensitic steel through pre-cold rolling and subsequent heat treatment. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2021, 804, 140760.	6.3	9
89	In situ TEM observations of thickness effect on grain growth in pure titanium thin films. Materials Characterization, 2021, 173, 110929.	5.0	10
90	An examination of microstructural evolution and homogeneity in a magnesium AZ80 alloy processed by high-pressure torsion. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2021, 806, 140832.	6.3	12

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91	Abnormal grain growth in a Zn-0.8Ag alloy after processing by high-pressure torsion. Acta Materialia, 2021, 207, 116667.	8.7	67
92	Sustainable fabrication of Cu/Nb composites with continuous laminated structure to achieve ultrahigh strength and excellent electrical conductivity. Composites Part B: Engineering, 2021, 211, 108662.	12.8	77
93	Advanced Materials for Mechanical Engineering: Ultrafineâ€Grained Alloys with Multilayer Coatings. Advanced Engineering Materials, 2021, 23, .	2.9	10
94	Micro-mechanical response of ultrafine grain and nanocrystalline tantalum. Journal of Materials Research and Technology, 2021, 12, 1804-1815.	6.1	11
95	Evidence for a phase transition in an AlCrFe2Ni2 high entropy alloy processed by high-pressure torsion. Journal of Alloys and Compounds, 2021, 867, 159063.	6.0	31
96	Effect of grain size and crystallographic structure on the corrosion and tribocorrosion behaviour of a CoCrMo biomedical grade alloy in simulated body fluid. Wear, 2021, 478-479, 203884.	3.5	9
97	A multiscale experimental analysis of mechanical properties and deformation behavior of sintered copperâ€“silicon carbide composites enhanced by high-pressure torsion. Archives of Civil and Mechanical Engineering, 2021, 21, .	3.8	12
98	The nature of the maximum microhardness and thickness of the gradient layer in surface-strengthened Cu-Al alloys. Acta Materialia, 2021, 215, 117073.	8.7	27
99	Deformation mechanisms in ultrafine-grained metals with an emphasis on the Hallâ€“Petch relationship and strain rate sensitivity. Journal of Materials Research and Technology, 2021, 14, 137-159.	6.1	115
100	An examination of strain weakening and self-annealing in a Bi-Sn alloy processed by high-pressure torsion. Materials Letters, 2021, 301, 130321.	2.5	4
101	Effect of post-deformation annealing on the microstructure and mechanical behavior of an Feâ€“Niâ€“Mn steel processed by high-pressure torsion. Journal of Materials Research and Technology, 2021, 15, 1537-1546.	6.1	6
102	The mechanics and physics of gradient nanomaterials: Dedicated to the memory of Alexander Zhilyaev (1959â€“2020). Materials Letters, 2021, 302, 130369.	2.5	0
103	Microstructural Evolution and Tensile Testing of a Biâ€“Sn (57/43) Alloy Processed by Tube High-Pressure Shearing. Crystals, 2021, 11, 1229.	2.1	9
104	Creep behavior of metals processed by equal-channel angular pressing. Metallic Materials, 2021, 49, 75-83.	0.2	5
105	Correlation between shear punch and tensile measurements for an AZ31 Mg alloy processed by equal-channel angular pressing. Metallic Materials, 2021, 49, 43-50.	0.2	4
106	Numerical Investigation of Plastic Strain Homogeneity during Equal-Channel Angular Pressing of a Cu-Zr Alloy. Crystals, 2021, 11, 1505.	2.1	7
107	On the Heterogeneity of Local Shear Strain Induced by Highâ€Pressure Torsion. Advanced Engineering Materials, 2020, 22, .	2.9	21
108	Inverse Hallâ€“Petch Behaviour in an AZ91 Alloy and in an AZ91â€“Al2O3 Composite Consolidated by Highâ€Pressure Torsion. Advanced Engineering Materials, 2020, 22, .	2.9	22

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109	Effect of Cu on Amorphization of a TiNi Alloy during HPT and Shape Memory Effect after Postâ€Deformation Annealing. Advanced Engineering Materials, 2020, 22, .	2.9	14
110	Effect of Numbers of Turns of Highâ€Pressure Torsion on the Development of Exceptional Ductility in Pure Magnesium. Advanced Engineering Materials, 2020, 22, .	2.9	13
111	The Stability of Oxygenâ€Free Copper Processed by Highâ€Pressure Torsion after Room Temperature Storage for 12 Months. Advanced Engineering Materials, 2020, 22, .	2.9	4
112	A Comparison of Warm and Combined Warm and Lowâ€Temperature Processing Routes for the Equalâ€Channel Angular Pressing of Pure Titanium. Advanced Engineering Materials, 2020, 22, .	2.9	5
113	An Evaluation of the Microstructure and Microhardness in an Alâ€“Znâ€“Mg Alloy Processed by ECAP and Postâ€ECAP Heat Treatments. Advanced Engineering Materials, 2020, 22, .	2.9	6
114	An investigation of the stored energy and thermal stability in a Cuâ€“Niâ€“Si alloy processed by high-pressure torsion. Philosophical Magazine, 2020, 100, 688-712.	1.6	28
115	Microstructural Evolution and Mechanical Behavior of Cu/Nb Multilayer Composites Processed by Accumulative Roll Bonding. Advanced Engineering Materials, 2020, 22, .	2.9	38
116	Synthesis of Hybrid Nanocrystalline Alloys by Mechanical Bonding through Highâ€Pressure Torsion. Advanced Engineering Materials, 2020, 22, .	2.9	45
117	The significance of strain weakening and self-annealing in a superplastic Biâ€“Sn eutectic alloy processed by high-pressure torsion. Acta Materialia, 2020, 185, 245-256.	8.7	34
118	Microstructure and Microhardness Evolution in Pure Molybdenum Processed by Highâ€Pressure Torsion. Advanced Engineering Materials, 2020, 22, .	2.9	4
119	Development of an Al 7050-10â€vol.% alumina nanocomposite through cold consolidation of particles by high-pressure torsion. Journal of Materials Research and Technology, 2020, 9, 12626-12633.	6.1	10
120	Corrosion Behavior in Hank's Solution of a Magnesiumâ€“Hydroxyapatite Composite Processed by Highâ€Pressure Torsion. Advanced Engineering Materials, 2020, 22, .	2.9	14
121	Superior strength of tri-layered Alâ€“Cuâ€“Al nano-composites processed by high-pressure torsion. Journal of Alloys and Compounds, 2020, 846, 156380.	6.0	28
122	Mechanical properties and structural stability of a bulk nanostructured metastable aluminum-magnesium system. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2020, 796, 140050.	6.3	19
123	Microstructural and Hardness Evolution in a Duplex Stainless Steel Processed by High-Pressure Torsion. Crystals, 2020, 10, 1138.	2.1	8
124	Analysis of the creep behavior of fine-grained AZ31 magnesium alloy. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2020, 787, 139489.	6.3	30
125	Recrystallization in an Mg-Nd alloy processed by high-pressure torsion: a calorimetric analysis. Journal of Materials Research and Technology, 2020, 9, 3047-3054.	6.1	12
126	Microstructural Evolution and Mechanical Properties of Ultrafineâ€Grained Ti Fabricated by Cryorolling and Subsequent Annealing. Advanced Engineering Materials, 2020, 22, .	2.9	8

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127	The fabrication of high strength Zr/Nb nanocomposites using high-pressure torsion. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2020, 790, 139693.	6.3	11
128	Using High-Pressure Torsion to Achieve Superplasticity in an AZ91 Magnesium Alloy. Metals, 2020, 10, 681.	2.3	27
129	Effect of dynamic plastic deformation on the microstructure and mechanical properties of an Alâ€“Znâ€“Mg alloy. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2020, 784, 139287.	6.3	43
130	Enhanced Creep Resistance of an Ultrafineâ€Grained Tiâ€“6Alâ€“4V Alloy with Modified Surface by Ion Implantation and (Tiâ€‰+â€‰V)N Coating. Advanced Engineering Materials, 2020, 22, .	2.9	7
131	Microstructural Evolution and Microhardness Variations in Pure Titanium Processed by Highâ€Pressure Torsion. Advanced Engineering Materials, 2020, 22, .	2.9	24
132	An Investigation of Strainâ€Softening Phenomenon in Alâ€“0.1% Mg Alloy during Highâ€Pressure Torsion Processing. Advanced Engineering Materials, 2020, 22, .	2.9	0
133	Interface structures in Al-Nb2O5 nanocomposites processed by high-pressure torsion at room temperature. Materials Characterization, 2020, 162, 110222.	5.0	10
134	An investigation by EXAFS of local atomic structure in an Mg-Nd alloy after processing by high-pressure torsion and ageing. Materials Letters, 2020, 264, 127379.	2.5	4
135	Characteristics of grain refinement in oxygen-free copper processed by equal-channel angular pressing and dynamic testing. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2020, 775, 138985.	6.3	25
136	Fabrication and characterization of nanostructured immiscible Cuâ€“Ta alloys processed by high-pressure torsion. Journal of Alloys and Compounds, 2020, 832, 155007.	6.0	28
137	A Novel High-Strength Zn-3Ag-0.5Mg Alloy Processed by Hot Extrusion, Cold Rolling, or High-Pressure Torsion. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2020, 51, 3335-3348.	2.1	46
138	Microstructure and mechanical properties of a Zn-0.5Cu alloy processed by high-pressure torsion. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2020, 776, 139047.	6.3	45
139	Cytotoxicity and Corrosion Behavior of Magnesium and Magnesium Alloys in Hank's Solution after Processing by Highâ€Pressure Torsion. Advanced Engineering Materials, 2019, 21, .	2.9	48
140	A magnesium-aluminium composite produced by high-pressure torsion. Journal of Alloys and Compounds, 2019, 804, 421-426.	6.0	38
141	Thermal Stability of an Mgâ€“Nd Alloy Processed by Highâ€Pressure Torsion. Advanced Engineering Materials, 2019, 21, .	2.9	29
142	Magnesium-Based Bioactive Composites Processed at Room Temperature. Materials, 2019, 12, 2609.	2.9	17
143	Effect of spark plasma sintering and high-pressure torsion on the microstructural and mechanical properties of a Cuâ€“SiC composite. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2019, 766, 138350.	6.3	42
144	On the microstructure and mechanical properties of an Fe-10Ni-7Mn martensitic steel processed by high-pressure torsion. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2019, 749, 27-34.	6.3	26

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145	A possible stabilizing effect of work hardening on the tensile performance of superplastic materials. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2019, 759, 448-454.	6.3	7
146	Electrochemical behavior of a magnesium ZK60 alloy processed by high-pressure torsion. Corrosion Science, 2019, 154, 90-100.	8.1	80
147	Strain rate dependence of compressive behavior in an Al-Zn-Mg alloy processed by ECAP. Journal of Alloys and Compounds, 2019, 791, 1079-1087.	6.0	32
148	An investigation of the thermal stability of an Mg Dy alloy after processing by high-pressure torsion. Materials Characterization, 2019, 151, 519-529.	5.0	21
149	Microâ€Embossing Formability of a Superlight Dualâ€Phase Mgâ€“Li Alloy Processed by Highâ€Pressure Torsion. Advanced Engineering Materials, 2019, 21, .	2.9	10
150	Effect of Longâ€Term Storage on Microstructure and Microhardness Stability in OFHC Copper Processed by Highâ€Pressure Torsion. Advanced Engineering Materials, 2019, 21, .	2.9	11
151	Synthesis of a bulk nanostructured metastable Al alloy with extreme supersaturation of Mg. Scientific Reports, 2019, 9, .	3.4	36
152	Thirty years of collaboration and research from 1989 to 2019: a tribute to Ruslan Z. Valiev. IOP Conference Series: Materials Science and Engineering, 2019, 672, 012001.	0.5	0
153	Processing Magnesium and Its Alloys by Highâ€Pressure Torsion: An Overview. Advanced Engineering Materials, 2019, 21, .	2.9	63
154	Evaluating the textural and mechanical properties of an Mg-Dy alloy processed by high-pressure torsion. Journal of Alloys and Compounds, 2019, 778, 61-71.	6.0	42
155	The Effect of Highâ€Pressure Torsion on Microstructure, Hardness and Corrosion Behavior for Pure Magnesium and Different Magnesium Alloys. Advanced Engineering Materials, 2019, 21, .	2.9	51
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