Terence G Langdon

List of Publications by Year
in descending order

1,012 papers	68,649 citations	704 125 h-index	1834 216 g-index
1039 all docs	1039 docs citations	1039 times ranked	12457 citing authors

#	Article	IF	Citations
1	Effect of crystallographic texture and twinning on the corrosion behavior of Mg alloys: A review. Journal of Magnesium and Alloys, 2022, 10, 313-325.	5.5	77
2	Exploiting tube high-pressure shearing to prepare a microstructure in Pb-Sn alloys for unprecedented superplasticity. Scripta Materialia, 2022, 209, 114390.	2.6	8
3	Texture evolution in high-pressure torsion processing. Progress in Materials Science, 2022, 125, 100886.	16.0	45
4	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.	2.6	9
5	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.	2.6	12
6	Using Plane Strain Compression Test to Evaluate the Mechanical Behavior of Magnesium Processed by HPT. Metals, 2022, 12, 125.	1.0	11
7	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.	2.6	13
8	Effect of grain size on strength and strain rate sensitivity in metals. Journal of Materials Science, 2022, 57, 5210-5229.	1.7	32
9	Nanomaterials by severe plastic deformation: review of historical developments and recent advances. Materials Research Letters, 2022, 10, 163-256.	4.1	215
10	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.	2.6	3
11	Relationship between strength and uniform elongation of metals based on an exponential hardening law. Acta Materialia, 2022, 231, 117866.	3.8	16
12	A general physics-based hardening law for single phase metals. Acta Materialia, 2022, 231, 117877.	3.8	10
13	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.	5.6	17
14	Using Severe Plastic Deformation to Produce Nanostructured Materials with Superior Properties. Annual Review of Materials Research, 2022, 52, 357-382.	4.3	34
15	Formation of ultrafine grains and twins in the Î²-phase during superplastic deformation of two-phase brasses. Scripta Materialia, 2022, 218, 114804.	2.6	4
16	Study on the Surface Modification of Nanostructured Ti Alloys and Coarse-Grained Ti Alloys. Metals, 2022, 12, 948.	1.0	5
17	Achieving Superplastic Elongations in an AZ80 Magnesium Alloy Processed by Highâ€Pressure Torsion. Advanced Engineering Materials, 2022, 24, .	1.6	3
18	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, .	1.6	7

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19	Heterostructured stainless steel: Properties, current trends, and future perspectives. Materials Science and Engineering Reports, 2022, 150, 100691.	14.8	65
20	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.	2.6	10
21	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.	2.6	31
22	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.	2.6	4
23	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.	2.6	7
24	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.	2.6	6
25	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.	2.8	10
26	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.	2.6	4
27	In situ TEM observations of thickness effect on grain growth in pure titanium thin films. Materials Characterization, 2021, 173, 110929.	1.9	6
28	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.	2.6	12
29	Abnormal grain growth in a Zn-0.8Ag alloy after processing by high-pressure torsion. Acta Materialia, 2021, 207, 116667.	3.8	41
30	Advanced Materials for Mechanical Engineering: Ultrafineâ€Grained Alloys with Multilayer Coatings. Advanced Engineering Materials, 2021, 23, 2100145.	1.6	7
31	Micro-mechanical response of ultrafine grain and nanocrystalline tantalum. Journal of Materials Research and Technology, 2021, 12, 1804-1815.	2.6	4
32	Evidence for a phase transition in an AlCrFe2Ni2 high entropy alloy processed by high-pressure torsion. Journal of Alloys and Compounds, 2021, 867, 159063.	2.8	16
33	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.	1.5	6
34	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, 1.	1.9	5
35	The nature of the maximum microhardness and thickness of the gradient layer in surface-strengthened Cu-Al alloys. Acta Materialia, 2021, 215, 117073.	3.8	8
36	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.	2.6	48

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37	An examination of strain weakening and self-annealing in a Bi-Sn alloy processed by high-pressure torsion. Materials Letters, 2021, 301, 130321.	1.3	2
38	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.	2.6	3
39	The mechanics and physics of gradient nanomaterials: Dedicated to the memory of Alexander Zhilyaev (1959â€“2020). Materials Letters, 2021, 302, 130369.	1.3	0
40	Microstructural Evolution and Tensile Testing of a Biâ€“Sn (57/43) Alloy Processed by Tube High-Pressure Shearing. Crystals, 2021, 11, 1229.	1.0	3
41	Creep behavior of metals processed by equal-channel angular pressing. Metallic Materials, 2021, 49, 75-83.	0.2	10
42	Numerical Investigation of Plastic Strain Homogeneity during Equal-Channel Angular Pressing of a Cu-Zr Alloy. Crystals, 2021, 11, 1505.	1.0	1
43	On the Heterogeneity of Local Shear Strain Induced by Highâ€Pressure Torsion. Advanced Engineering Materials, 2020, 22, 1900477.	1.6	20
44	Inverse Hallâ€“Petch Behaviour in an AZ91 Alloy and in an AZ91â€“Al 2 O 3 Composite Consolidated by Highâ€Pressure Torsion. Advanced Engineering Materials, 2020, 22, 1900894.	1.6	16
45	Effect of Cu on Amorphization of a TiNi Alloy during HPT and Shape Memory Effect after Postâ€Deformation Annealing. Advanced Engineering Materials, 2020, 22, 1900387.	1.6	12
46	Effect of Numbers of Turns of Highâ€Pressure Torsion on the Development of Exceptional Ductility in Pure Magnesium. Advanced Engineering Materials, 2020, 22, 1900565.	1.6	10
47	A Lifetime of Research in Creep, Superplasticity, and Ultrafineâ€Grained Materials. Advanced Engineering Materials, 2020, 22, 1900442.	1.6	9
48	The Stability of Oxygenâ€Free Copper Processed by Highâ€Pressure Torsion after Room Temperature Storage for 12 Months. Advanced Engineering Materials, 2020, 22, 1901015.	1.6	1
49	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, 1900698.	1.6	5
50	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, 1901040.	1.6	3
51	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.	0.7	15
52	Microstructural Evolution and Mechanical Behavior of Cu/Nb Multilayer Composites Processed by Accumulative Roll Bonding. Advanced Engineering Materials, 2020, 22, 1900702.	1.6	26
53	Synthesis of Hybrid Nanocrystalline Alloys by Mechanical Bonding through Highâ€Pressure Torsion. Advanced Engineering Materials, 2020, 22, 1901289.	1.6	26
54	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.	3.8	20

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55	Microstructure and Microhardness Evolution in Pure Molybdenum Processed by Highâ€Pressure Torsion. Advanced Engineering Materials, 2020, 22, 1901022.	1.6	2
56	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.	2.6	4
57	Ultrafineâ€Grained Metallic Materials and Coatings. Advanced Engineering Materials, 2020, 22, 2001012.	1.6	2
58	Corrosion Behavior in Hank's Solution of a Magnesiumâ€“Hydroxyapatite Composite Processed by Highâ€Pressure Torsion. Advanced Engineering Materials, 2020, 22, 2000765.	1.6	8
59	Superior strength of tri-layered Alâ€“Cuâ€“Al nano-composites processed by high-pressure torsion. Journal of Alloys and Compounds, 2020, 846, 156380.	2.8	17
60	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.	2.6	14
61	Microstructural and Hardness Evolution in a Duplex Stainless Steel Processed by High-Pressure Torsion. Crystals, 2020, 10, 1138.	1.0	6
62	Analysis of the creep behavior of fine-grained AZ31 magnesium alloy. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2020, 787, 139489.	2.6	19
63	Recrystallization in an Mg-Nd alloy processed by high-pressure torsion: a calorimetric analysis. Journal of Materials Research and Technology, 2020, 9, 3047-3054.	2.6	8
64	Microstructural Evolution and Mechanical Properties of Ultrafineâ€Grained Ti Fabricated by Cryorolling and Subsequent Annealing. Advanced Engineering Materials, 2020, 22, 1901463.	1.6	8
65	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.	2.6	10
66	Using High-Pressure Torsion to Achieve Superplasticity in an AZ91 Magnesium Alloy. Metals, 2020, 10, 681.	1.0	19
67	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.	2.6	21
68	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, 1901219.	1.6	6
69	Microstructural Evolution and Microhardness Variations in Pure Titanium Processed by Highâ€Pressure Torsion. Advanced Engineering Materials, 2020, 22, 1901462.	1.6	14
70	An Investigation of Strainâ€Softening Phenomenon in Alâ€“0.1% Mg Alloy during Highâ€Pressure Torsion Processing. Advanced Engineering Materials, 2020, 22, 1901578.	1.6	0
71	Interface structures in Al-Nb2O5 nanocomposites processed by high-pressure torsion at room temperature. Materials Characterization, 2020, 162, 110222.	1.9	10
72	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.	1.3	4

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73	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.	2.6	22
74	Fabrication and characterization of nanostructured immiscible Cuâ€“Ta alloys processed by high-pressure torsion. Journal of Alloys and Compounds, 2020, 832, 155007.	2.8	19
75	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.	1.1	26
76	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.	2.6	35
77	Cytotoxicity and Corrosion Behavior of Magnesium and Magnesium Alloys in Hank's Solution after Processing by Highâ€Pressure Torsion. Advanced Engineering Materials, 2019, 21, 1900391.	1.6	31
78	A magnesium-aluminium composite produced by high-pressure torsion. Journal of Alloys and Compounds, 2019, 804, 421-426.	2.8	29
79	Thermal Stability of an Mgâ€“Nd Alloy Processed by Highâ€Pressure Torsion. Advanced Engineering Materials, 2019, 21, 1900801.	1.6	21
80	Magnesium-Based Bioactive Composites Processed at Room Temperature. Materials, 2019, 12, 2609.	1.3	12
81	The Characteristics of Creep in Metallic Materials Processed by Severe Plastic Deformation. Materials Transactions, 2019, 60, 1506-1517.	0.4	23
82	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.	2.6	23
83	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.	2.6	19
84	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.	2.6	6
85	Bulk-State Reactions and Improving the Mechanical Properties of Metals through High-Pressure Torsion. Materials Transactions, 2019, 60, 1131-1138.	0.4	46
86	The Contribution of Severe Plastic Deformation to Research on Superplasticity. Materials Transactions, 2019, 60, 1123-1130.	0.4	19
87	Electrochemical behavior of a magnesium ZK60 alloy processed by high-pressure torsion. Corrosion Science, 2019, 154, 90-100.	3.0	52
88	Strain rate dependence of compressive behavior in an Al-Zn-Mg alloy processed by ECAP. Journal of Alloys and Compounds, 2019, 791, 1079-1087.	2.8	25
89	An investigation of the thermal stability of an Mg Dy alloy after processing by high-pressure torsion. Materials Characterization, 2019, 151, 519-529.	1.9	16
90	Microâ€Embossing Formability of a Superlight Dualâ€Phase Mgâ€“Li Alloy Processed by Highâ€Pressure Torsion. Advanced Engineering Materials, 2019, 21, 1800961.	1.6	10

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91	Effect of Longâ€Term Storage on Microstructure and Microhardness Stability in OFHC Copper Processed by Highâ€Pressure Torsion. Advanced Engineering Materials, 2019, 21, 1801300.	1.6	8
92	Synthesis of a bulk nanostructured metastable Al alloy with extreme supersaturation of Mg. Scientific Reports, 2019, 9, 17186.	1.6	28
93	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.	0.3	0
94	Processing Magnesium and Its Alloys by Highâ€Pressure Torsion: An Overview. Advanced Engineering Materials, 2019, 21, 1801039.	1.6	51
95	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.	2.8	37
96	The Effect of Highâ€Pressure Torsion on Microstructure, Hardness and Corrosion Behavior for Pure Magnesium and Different Magnesium Alloys. Advanced Engineering Materials, 2019, 21, 1801081.	1.6	42
97	Processing of CP-Ti by high-pressure torsion and the effect of surface modification using a post-HPT laser treatment. Journal of Alloys and Compounds, 2019, 784, 653-659.	2.8	15
98	The fabrication of graphene-reinforced Al-based nanocomposites using high-pressure torsion. Acta Materialia, 2019, 164, 499-511.	3.8	121
99	Development of a magnesium-alumina composite through cold consolidation of machining chips by high-pressure torsion. Journal of Alloys and Compounds, 2019, 780, 422-427.	2.8	35
100	High-pressure torsion and equal-channel angular pressing. , 2019, , 3-19.		5
101	Developing magnesium-based composites through high-pressure torsion. Letters on Materials, 2019, 9, 541-545.	0.2	6
102	Effect of High-pressure Torsion on Corrosion Behavior of a Solution-treated Al-Mg-Sc Alloy in a Saline Solution. Materials Research, 2019, 22, .	0.6	6
103	The influence of chemical heterogeneities on the local mechanical behavior of a high-entropy alloy: A micropillar compression study. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2018, 721, 165-167.	2.6	11
104	Effect of a minor titanium addition on the superplastic properties of a CoCrFeNiMn high-entropy alloy processed by high-pressure torsion. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2018, 718, 468-476.	2.6	60
105	Factors influencing superplasticity in the Ti-6Al-4V alloy processed by high-pressure torsion. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2018, 718, 198-206.	2.6	32
106	An EBSD analysis of Fe-36%Ni alloy processed by HPT at ambient and a warm temperature. Journal of Alloys and Compounds, 2018, 753, 46-53.	2.8	21
107	Texture and microhardness of Mg-Rare Earth (Nd and Ce) alloys processed by high-pressure torsion. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2018, 724, 477-485.	2.6	40
108	Effect of Ti on phase stability and strengthening mechanisms of a nanocrystalline CoCrFeMnNi high-entropy alloy. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2018, 725, 196-206.	2.6	66

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109	Effect of high-pressure torsion on the microstructural evolution and mechanical properties of an Fe-10Ni-7Mn (wt. %) lath martensitic steel. AIP Conference Proceedings, 2018, , .	0.3	1
110	Fracture toughness at cryogenic temperatures of ultrafine-grained Ti-6Al-4V alloy processed by ECAP. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2018, 716, 260-267.	2.6	44
111	Effect of temperature rise on microstructural evolution during high-pressure torsion. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2018, 714, 167-171.	2.6	74
112	Features of Duplex Microstructural Evolution and Mechanical Behavior in the Titanium Alloy Processed by Equalâ€Channel Angular Pressing. Advanced Engineering Materials, 2018, 20, 1700813.	1.6	13
113	Effect of heat treatments on the microstructures and tensile properties of an ultrafine-grained Al-Zn-Mg alloy processed by ECAP. Journal of Alloys and Compounds, 2018, 749, 567-574.	2.8	28
114	Using Postâ€Deformation Annealing to Optimize the Properties of a ZK60 Magnesium Alloy Processed by Highâ€Pressure Torsion. Advanced Engineering Materials, 2018, 20, 1700703.	1.6	17
115	Effect of Initial Annealing Temperature on Microstructural Development and Microhardness in Highâ€Purity Copper Processed by Highâ€Pressure Torsion. Advanced Engineering Materials, 2018, 20, 1700503.	1.6	6
116	Characterization of precipitates in an Al-Zn-Mg alloy processed by ECAP and subsequent annealing. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2018, 712, 146-156.	2.6	35
117	Exceptionally high strength and good ductility in an ultrafine-grained 316L steel processed by severe plastic deformation and subsequent annealing. Materials Letters, 2018, 214, 240-242.	1.3	31
118	Enhanced grain refinement and microhardness by hybrid processing using hydrostatic extrusion and high-pressure torsion. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2018, 712, 513-520.	2.6	29
119	An investigation of the limits of grain refinement after processing by a combination of severe plastic deformation techniques: A comparison of Al and Mg alloys. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2018, 712, 373-379.	2.6	25
120	Studies on the Superplasticity Effect in UFA: History and Development (In Memory of Prof. O.A.) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 30	1.4	2
121	Superplasticity in Ultrafine-Grained Materials.. Reviews on Advanced Materials Science, 2018, 54, 46-55.	1.4	31
122	Consolidation of Magnesium and Magnesium Alloy Machine Chips Using High-Pressure Torsion. Materials Science Forum, 2018, 941, 851-856.	0.3	10
123	Microstructure evolution of Al-7wt%Si-2wt%Fe alloy processed by high-pressure torsion. MATEC Web of Conferences, 2018, 192, 02068.	0.1	0
124	Micro-Scale Mechanical Behavior of Ultrafine-Grained Materials Processed by High-Pressure Torsion. Materials Science Forum, 2018, 941, 1495-1500.	0.3	2
125	Effect of carbon content and annealing on structure and hardness of CrFe2NiMnV0.25 high-entropy alloys processed by high-pressure torsion. Journal of Materials Science, 2018, 53, 11813-11822.	1.7	20
126	Annealingâ€Induced Hardening in Ultrafineâ€Grained Niâ€“Mo Alloys. Advanced Engineering Materials, 2018, 20, 1800184.	1.6	23

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127	Grain refinement and superplastic flow in a fully lamellar Ti-6Al-4V alloy processed by high-pressure torsion. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2018, 732, 398-405.	2.6	33
128	Thirty Years of Superplastic Ultrafine-Grained Materials: Examining the Legacy of Oscar Kaibyshev. Defect and Diffusion Forum, 2018, 385, 3-8.	0.4	4
129	Shape memory characteristics of a nanocrystalline TiNi alloy processed by HPT followed by post-deformation annealing. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2018, 734, 445-452.	2.6	18
130	Spall strength dependence on grain size and strain rate in tantalum. Acta Materialia, 2018, 158, 313-329.	3.8	100
131	Mechanical properties of an Al-Zn-Mg alloy processed by ECAP and heat treatments. Journal of Alloys and Compounds, 2018, 769, 631-639.	2.8	38
132	Effect of high-pressure torsion on microstructure, mechanical properties and corrosion resistance of cast pure Mg. Journal of Materials Science, 2018, 53, 16585-16597.	1.7	40
133	Fabrication of nanocomposites through diffusion bonding under high-pressure torsion. Journal of Materials Research, 2018, 33, 2700-2710.	1.2	41
134	Direct Bonding of Aluminumâ€“Copper Metals through Highâ€Pressure Torsion Processing. Advanced Engineering Materials, 2018, 20, 1800642.	1.6	30
135	Fabrication of High Strength Hybrid Materials through the Application of High-Pressure Torsion. Acta Physica Polonica A, 2018, 134, 615-623.	0.2	3
136	Evidence for superplasticity in a CoCrFeNiMn high-entropy alloy processed by high-pressure torsion. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2017, 685, 342-348.	2.6	91
137	Influence of grain size on the flow properties of an Al-Mg-Sc alloy over seven orders of magnitude of strain rate. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2017, 685, 367-376.	2.6	64
138	Effect of severe plastic deformation on the biocompatibility and corrosion rate of pure magnesium. Journal of Materials Science, 2017, 52, 5992-6003.	1.7	77
139	Effect of Mo addition on the microstructure and hardness of ultrafine-grained Ni alloys processed by a combination of cryorolling and high-pressure torsion. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2017, 688, 92-100.	2.6	22
140	Mechanical behavior and microstructure properties of titanium powder consolidated by high-pressure torsion. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2017, 688, 498-504.	2.6	42
141	Applying Conventional Creep Mechanisms to Ultrafine-Grained Materials. Minerals, Metals and Materials Series, 2017, , 117-131.	0.3	1
142	Mechanical behavior and impact toughness of the ultrafine-grained Grade 5 Ti alloy processed by ECAP. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2017, 696, 166-173.	2.6	36
143	The sequence and kinetics of pre-precipitation in Mg-Nd alloys after HPT processing: A synchrotron and DSC study. Journal of Alloys and Compounds, 2017, 719, 236-241.	2.8	15
144	Evolution of the microstructure during annealing of ultrafine-grained Ni with different Mo contents. Materials Characterization, 2017, 130, 56-63.	1.9	10

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145	Hardening and thermal stability of a nanocrystalline CoCrFeNiMnTi_{0.1} high-entropy alloy processed by high-pressure torsion. IOP Conference Series: Materials Science and Engineering, 2017, 194, 012017.	0.3	10
146	Microstructural evolution during hot shear deformation of an extruded fine-grained Mgâ€“Gdâ€“Yâ€“Zr alloy. Journal of Materials Science, 2017, 52, 7843-7857.	1.7	26
147	Defect structure and hardness in nanocrystalline CoCrFeMnNi High-Entropy Alloy processed by High-Pressure Torsion. Journal of Alloys and Compounds, 2017, 711, 143-154.	2.8	100
148	Orientation imaging microscopy and microhardness in a ZK60 magnesium alloy processed by high-pressure torsion. Journal of Alloys and Compounds, 2017, 712, 185-193.	2.8	49
149	Microstructural Evolution and Properties of a Hot Extruded and HPTâ€Processed Resorbable Magnesium WE43 Alloy. Advanced Engineering Materials, 2017, 19, 1600698.	1.6	10
150	Effect of ECAP processing on microstructure evolution and dynamic compressive behavior at different temperatures in an Al-Zn-Mg alloy. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2017, 684, 617-625.	2.6	35
151	Influence of grain boundary misorientations on the mechanical behavior of a near-Î± Ti-6Al-7Nb alloy processed by ECAP. Materials Letters, 2017, 190, 256-259.	1.3	17
152	Micro-mechanical and tribological properties of aluminum-magnesium nanocomposites processed by high-pressure torsion. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2017, 684, 318-327.	2.6	55
153	The potential for achieving superplasticity in high-entropy alloys processed by severe plastic deformation. IOP Conference Series: Materials Science and Engineering, 2017, 194, 012040.	0.3	7
154	High-pressure torsion-induced phase transformations and grain refinement in Al/Ti composites. Journal of Materials Science, 2017, 52, 12170-12184.	1.7	25
155	Evaluating the flow properties of a magnesium ZK60 alloy processed by high-pressure torsion: A comparison of two different miniature testing techniques. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2017, 708, 432-439.	2.6	29
156	Thermal stability and superplastic behaviour of an Al-Mg-Sc alloy processed by ECAP and HPT at different temperatures. IOP Conference Series: Materials Science and Engineering, 2017, 194, 012013.	0.3	9
157	Microstructure and properties of a CoCrFeNiMn high-entropy alloy processed by equal-channel angular pressing. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2017, 705, 411-419.	2.6	137
158	Comparisons of self-annealing behaviour of HPT-processed high purity Cu and a Pbâ€“Sn alloy. Journal of Materials Research and Technology, 2017, 6, 390-395.	2.6	8
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