Terence G Langdon

List of Publications by Year
in descending order

1,012	68,649	588 125	1599 216
papers	citations	h-index	g-index

1039	1039	1039	11275
all docs	docs citations	times ranked	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.	11.9	77
2	Exploiting tube high-pressure shearing to prepare a microstructure in Pb-Sn alloys for unprecedented superplasticity. Scripta Materialia, 2022, 209, 114390.	5.2	8
3	Texture evolution in high-pressure torsion processing. Progress in Materials Science, 2022, 125, 100886.	32.8	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.	5.6	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.	5.6	12
6	Using Plane Strain Compression Test to Evaluate the Mechanical Behavior of Magnesium Processed by HPT. Metals, 2022, 12, 125.	2.3	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.	5.6	13
8	Effect of grain size on strength and strain rate sensitivity in metals. Journal of Materials Science, 2022, 57, 5210-5229.	3.7	32
9	Nanomaterials by severe plastic deformation: review of historical developments and recent advances. Materials Research Letters, 2022, 10, 163-256.	8.7	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.	5.6	3
11	Relationship between strength and uniform elongation of metals based on an exponential hardening law. Acta Materialia, 2022, 231, 117866.	7.9	16
12	A general physics-based hardening law for single phase metals. Acta Materialia, 2022, 231, 117877.	7.9	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.	10.7	17
14	Using Severe Plastic Deformation to Produce Nanostructured Materials with Superior Properties. Annual Review of Materials Research, 2022, 52, 357-382.	9.3	34
15	Formation of ultrafine grains and twins in the Î²-phase during superplastic deformation of two-phase brasses. Scripta Materialia, 2022, 218, 114804.	5.2	4
16	Study on the Surface Modification of Nanostructured Ti Alloys and Coarse-Grained Ti Alloys. Metals, 2022, 12, 948.	2.3	5
17	Achieving Superplastic Elongations in an AZ80 Magnesium Alloy Processed by Highâ€Pressure Torsion. Advanced Engineering Materials, 2022, 24, .	3.5	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, .	3.5	7

#	Article	IF	Citations
19	Heterostructured stainless steel: Properties, current trends, and future perspectives. Materials Science and Engineering Reports, 2022, 150, 100691.	31.8	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.	5.6	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.	5.6	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.	5.6	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.	5.6	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.	5.6	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.	5.5	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.	5.6	4
27	In situ TEM observations of thickness effect on grain growth in pure titanium thin films. Materials Characterization, 2021, 173, 110929.	4.4	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.	5.6	12
29	Abnormal grain growth in a Zn-0.8Ag alloy after processing by high-pressure torsion. Acta Materialia, 2021, 207, 116667.	7.9	41
30	Advanced Materials for Mechanical Engineering: Ultrafineâ€Grained Alloys with Multilayer Coatings. Advanced Engineering Materials, 2021, 23, 2100145.	3.5	7
31	Micro-mechanical response of ultrafine grain and nanocrystalline tantalum. Journal of Materials Research and Technology, 2021, 12, 1804-1815.	5.8	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.	5.5	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.	3.1	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.	3.8	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.	7.9	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.	5.8	48

#	Article	IF	Citations
37	An examination of strain weakening and self-annealing in a Bi-Sn alloy processed by high-pressure torsion. Materials Letters, 2021, 301, 130321.	2.6	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.	5.8	3
39	The mechanics and physics of gradient nanomaterials: Dedicated to the memory of Alexander Zhilyaev (1959â€“2020). Materials Letters, 2021, 302, 130369.	2.6	0
40	Microstructural Evolution and Tensile Testing of a Biâ€“Sn (57/43) Alloy Processed by Tube High-Pressure Shearing. Crystals, 2021, 11, 1229.	2.2	3
41	Creep behavior of metals processed by equal-channel angular pressing. Metallic Materials, 2021, 49, 75-83.	0.3	10
42	Numerical Investigation of Plastic Strain Homogeneity during Equal-Channel Angular Pressing of a Cu-Zr Alloy. Crystals, 2021, 11, 1505.	2.2	1
43	On the Heterogeneity of Local Shear Strain Induced by Highâ€Pressure Torsion. Advanced Engineering Materials, 2020, 22, 1900477.	3.5	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.	3.5	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.	3.5	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.	3.5	10
47	A Lifetime of Research in Creep, Superplasticity, and Ultrafineâ€Grained Materials. Advanced Engineering Materials, 2020, 22, 1900442.	3.5	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.	3.5	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.	3.5	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.	3.5	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.	1.6	15
52	Microstructural Evolution and Mechanical Behavior of Cu/Nb Multilayer Composites Processed by Accumulative Roll Bonding. Advanced Engineering Materials, 2020, 22, 1900702.	3.5	26
53	Synthesis of Hybrid Nanocrystalline Alloys by Mechanical Bonding through Highâ€Pressure Torsion. Advanced Engineering Materials, 2020, 22, 1901289.	3.5	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.	7.9	20

#	Article	IF	Citations
55	Microstructure and Microhardness Evolution in Pure Molybdenum Processed by Highâ€Pressure Torsion. Advanced Engineering Materials, 2020, 22, 1901022.	3.5	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.	5.8	4
57	Ultrafineâ€Grained Metallic Materials and Coatings. Advanced Engineering Materials, 2020, 22, 2001012.	3.5	2
58	Corrosion Behavior in Hank's Solution of a Magnesiumâ€“Hydroxyapatite Composite Processed by Highâ€Pressure Torsion. Advanced Engineering Materials, 2020, 22, 2000765.	3.5	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.	5.5	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.	5.6	14
61	Microstructural and Hardness Evolution in a Duplex Stainless Steel Processed by High-Pressure Torsion. Crystals, 2020, 10, 1138.	2.2	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.	5.6	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.	5.8	8
64	Microstructural Evolution and Mechanical Properties of Ultrafineâ€Grained Ti Fabricated by Cryorolling and Subsequent Annealing. Advanced Engineering Materials, 2020, 22, 1901463.	3.5	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.	5.6	10
66	Using High-Pressure Torsion to Achieve Superplasticity in an AZ91 Magnesium Alloy. Metals, 2020, 10, 681.	2.3	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.	5.6	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.	3.5	6
69	Microstructural Evolution and Microhardness Variations in Pure Titanium Processed by Highâ€Pressure Torsion. Advanced Engineering Materials, 2020, 22, 1901462.	3.5	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.	3.5	0
71	Interface structures in Al-Nb2O5 nanocomposites processed by high-pressure torsion at room temperature. Materials Characterization, 2020, 162, 110222.	4.4	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.	2.6	4

#	Article	IF	Citations
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.	5.6	22
74	Fabrication and characterization of nanostructured immiscible Cuâ€“Ta alloys processed by high-pressure torsion. Journal of Alloys and Compounds, 2020, 832, 155007.	5.5	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.	2.2	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.	5.6	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.	3.5	31
78	A magnesium-aluminium composite produced by high-pressure torsion. Journal of Alloys and Compounds, 2019, 804, 421-426.	5.5	29
79	Thermal Stability of an Mgâ€“Nd Alloy Processed by Highâ€Pressure Torsion. Advanced Engineering Materials, 2019, 21, 1900801.	3.5	21
80	Magnesium-Based Bioactive Composites Processed at Room Temperature. Materials, 2019, 12, 2609.	2.9	12
81	The Characteristics of Creep in Metallic Materials Processed by Severe Plastic Deformation. Materials Transactions, 2019, 60, 1506-1517.	1.2	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.	5.6	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.	5.6	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.	5.6	6
85	Bulk-State Reactions and Improving the Mechanical Properties of Metals through High-Pressure Torsion. Materials Transactions, 2019, 60, 1131-1138.	1.2	46
86	The Contribution of Severe Plastic Deformation to Research on Superplasticity. Materials Transactions, 2019, 60, 1123-1130.	1.2	19
87	Electrochemical behavior of a magnesium ZK60 alloy processed by high-pressure torsion. Corrosion Science, 2019, 154, 90-100.	6.6	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.	5.5	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.	4.4	16
90	Microâ€Embossing Formability of a Superlight Dualâ€Phase Mgâ€“Li Alloy Processed by Highâ€Pressure Torsion. Advanced Engineering Materials, 2019, 21, 1800961.	3.5	10

#	Article	IF	Citations
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.	3.5	8
92	Synthesis of a bulk nanostructured metastable Al alloy with extreme supersaturation of Mg. Scientific Reports, 2019, 9, 17186.	3.3	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.	0.6	0
94	Processing Magnesium and Its Alloys by Highâ€Pressure Torsion: An Overview. Advanced Engineering Materials, 2019, 21, 1801039.	3.5	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.	5.5	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.	3.5	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.	5.5	15
98	The fabrication of graphene-reinforced Al-based nanocomposites using high-pressure torsion. Acta Materialia, 2019, 164, 499-511.	7.9	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.	5.5	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.	0.7	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, .	1.3	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.	5.6	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.	5.6	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.	5.6	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.	5.5	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.	5.6	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.	5.6	66

#	Article	IF	Citations
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, , .	0.4	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.	5.6	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.	5.6	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.	3.5	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.	5.5	28
114	Using Postâ€Ðeformation Annealing to Optimize the Properties of a ZK60 Magnesium Alloy Processed by Highâ€Pressure Torsion. Advanced Engineering Materials, 2018, 20, 1700703.	3.5	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.	3.5	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.	5.6	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.	2.6	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.	5.6	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.	5.6	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	3.3	2
121	Superplasticity in Ultrafine-Grained Materials.. Reviews on Advanced Materials Science, 2018, 54, 46-55.	3.3	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.	0.2	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.	3.7	20
126	Annealingâ€Induced Hardening in Ultrafineâ€Grained Niâ€“Mo Alloys. Advanced Engineering Materials, 2018, 20, 1800184.	3.5	23

#	Article	IF	Citations
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.	5.6	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.	5.6	18
130	Spall strength dependence on grain size and strain rate in tantalum. Acta Materialia, 2018, 158, 313-329.	7.9	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.	5.5	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.	3.7	40
133	Fabrication of nanocomposites through diffusion bonding under high-pressure torsion. Journal of Materials Research, 2018, 33, 2700-2710.	2.6	41
134	Direct Bonding of Aluminumâ€“Copper Metals through Highâ€Pressure Torsion Processing. Advanced Engineering Materials, 2018, 20, 1800642.	3.5	30
135	Fabrication of High Strength Hybrid Materials through the Application of High-Pressure Torsion. Acta Physica Polonica A, 2018, 134, 615-623.	0.5	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.	5.6	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.	5.6	64
138	Effect of severe plastic deformation on the biocompatibility and corrosion rate of pure magnesium. Journal of Materials Science, 2017, 52, 5992-6003.	3.7	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.	5.6	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.	5.6	42
141	Applying Conventional Creep Mechanisms to Ultrafine-Grained Materials. Minerals, Metals and Materials Series, 2017, , 117-131.	0.4	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.	5.6	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.	5.5	15
144	Evolution of the microstructure during annealing of ultrafine-grained Ni with different Mo contents. Materials Characterization, 2017, 130, 56-63.	4.4	10

#	Article	IF	Citations
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.	0.6	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.	3.7	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.	5.5	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.	5.5	49
149	Microstructural Evolution and Properties of a Hot Extruded and HPTâ€Processed Resorbable Magnesium WE43 Alloy. Advanced Engineering Materials, 2017, 19, 1600698.	3.5	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.	5.6	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.	2.6	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.	5.6	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.	0.6	7
154	High-pressure torsion-induced phase transformations and grain refinement in Al/Ti composites. Journal of Materials Science, 2017, 52, 12170-12184.	3.7	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.	5.6	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.	0.6	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.	5.6	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.	5.8	8
159	Annealing effect on plastic flow in nanocrystalline CoCrFeMnNi high-entropy alloy: A nanomechanical analysis. Acta Materialia, 2017, 140, 443-451.	7.9	61
160	Using heat treatments, high-pressure torsion and post-deformation annealing to optimize the properties of Ti-6Al-4V alloys. Acta Materialia, 2017, 141, 419-426.	7.9	60
161	Effect of equal-channel angular pressing on the mechanical behavior of a Bi-Sn eutectic alloy. IOP Conference Series: Materials Science and Engineering, 2017, 194, 012042.	0.6	1
162	Bulk Nanostructured Materials. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2017, 48, 5181-5199.	2.2	40

#	Article	IF	Citations
163	Effects on hardness and microstructure of AISI 1020 low-carbon steel processed by high-pressure torsion. Journal of Materials Research and Technology, 2017, 6, 355-360.	5.8	29
164	Thermal stability and mechanical properties of HPT-processed CP-Ti. IOP Conference Series: Materials Science and Engineering, 2017, 194, 012012.	0.6	7
165	An examination of the superplastic characteristics of Alâ€“Mgâ€“Sc alloys after processing. Journal of Materials Research, 2017, 32, 4541-4553.	2.6	17
166	Effect of cold rolling on the structure and hydrogen properties of AZ91 and AM60D magnesium alloys processed by ECAP. International Journal of Hydrogen Energy, 2017, 42, 21822-21831.	7.1	27
167	An evaluation of the hexagonal close-packed to face-centered cubic phase transformation in a Ti-6Al-4V alloy during high-pressure torsion. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2017, 704, 212-217.	5.6	30
168	Examining the microhardness evolution and thermal stability of an Alâ€“Mgâ€“Sc alloy processed by high-pressure torsion at a high temperature. Journal of Materials Research and Technology, 2017, 6, 348-354.	5.8	13
169	Stored energy in ultrafine-grained 316L stainless steel processed by high-pressure torsion. Journal of Materials Research and Technology, 2017, 6, 339-347.	5.8	39
170	Influence of Mo alloying on the thermal stability and hardness of ultrafine-grained Ni processed by high-pressure torsion. Journal of Materials Research and Technology, 2017, 6, 361-368.	5.8	5
171	Hardness evolution of AZ80 magnesium alloy processed by HPT at different temperatures. Journal of Materials Research and Technology, 2017, 6, 378-384.	5.8	18
172	The effect of high-pressure torsion on the microstructure and properties of magnesium. IOP Conference Series: Materials Science and Engineering, 2017, 194, 012039.	0.6	6
173	Direct influence of recovery behaviour on mechanical properties in oxygen-free copper processed using different SPD techniques: HPT and ECAP. Journal of Materials Research and Technology, 2017, 6, 369-377.	5.8	38
174	Nanoâ€•and Microâ€Mechanical Properties of Ultrafineâ€Grained Materials Processed by Severe Plastic Deformation Techniques. Advanced Engineering Materials, 2017, 19, 1600578.	3.5	42
175	Evidence for exceptional low temperature ductility in polycrystalline magnesium processed by severe plastic deformation. Acta Materialia, 2017, 122, 322-331.	7.9	139
176	Wear resistance and electroconductivity in a Cuâ€“0.3Crâ€“0.5Zr alloy processed by ECAP. Journal of Materials Science, 2017, 52, 305-313.	3.7	33
177	Achieving superplastic properties in a ZK10 magnesium alloy processed by equal-channel angular pressing. Journal of Materials Research and Technology, 2017, 6, 129-135.	5.8	34
178	Influence of Zn content on the microstructure and mechanical performance of ultrafine-grained Alâ€“Zn alloys processed by high-pressure torsion. Materials Letters, 2017, 186, 334-337.	2.6	28
179	Controlling the high temperature mechanical behavior of Al alloys by precipitation and severe straining. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2017, 679, 36-47.	5.6	5
180	High temperature thermal stability of nanocrystalline 316L stainless steel processed by high-pressure torsion. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2017, 682, 323-331.	5.6	29

#	Article	IF	Citations
181	Microstructural evolution and superplasticity in an Mgâ€“Gdâ€“Yâ€“Zr alloy after processing by different SPD techniques. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2017, 682, 577-585.	5.6	53
182	Developments in Processing by Severe Plastic Deformation at the 3rd Pan American Materials Congress. Jom, 2017, 69, 2022-2023.	1.9	0
183	Fabrication of hybrid metal systems through the application of high-pressure torsion. IOP Conference Series: Materials Science and Engineering, 2017, 194, 012002.	0.6	4
184	Microstructure and Hardness Evolution in Magnesium Processed by HPT. Materials Research, 2017, 20, 2-7.	1.3	17
185	Examining the Thermal Stability of an Al-Mg-Sc Alloy Processed by High-Pressure Torsion. Materials Research, 2017, 20, 39-45.	1.3	10
186	Using Severe Plastic Deformation to Fabricate Strong Metal Matrix Composites. Materials Research, 2017, 20, 46-52.	1.3	18
187	The 7th International Conference on Nanomaterials by Severe Plastic Deformation: a report of the International NanoSPD Steering Committee. IOP Conference Series: Materials Science and Engineering, 2017, 194, 012001.	0.6	1
188	Development of an Ï‰-Phase in Grade 2 Titanium Processed by HPT at High Hydrostatic Pressure. Materials Research, 2016, 19, 1144-1148.	1.3	5
189	Significance of grain refinement on microstructure and mechanical properties of an Al-3% Mg alloy processed by high-pressure torsion. Journal of Alloys and Compounds, 2016, 686, 998-1007.	5.5	56
190	Microâ€Mechanical Behavior of an Exceptionally Strong Metal Matrix Nanocomposite Processed by Highâ€Pressure Torsion. Advanced Engineering Materials, 2016, 18, 1001-1008.	3.5	32
191	Investigating Anvil Alignment and Anvil Roughness on Flow Pattern Development in High-Pressure Torsion. Materials Research Society Symposia Proceedings, 2016, 1818, 1.	0.1	0
192	Mechanical Behavior of a Metal Matrix Nanocomposite Synthesized by High-Pressure Torsion via Diffusion Bonding. Materials Science Forum, 2016, 879, 1068-1073.	0.3	0
193	Using high-pressure torsion to process an aluminumâ€“magnesium nanocomposite through diffusion bonding. Journal of Materials Research, 2016, 31, 88-99.	2.6	68
194	Synchrotron X-ray microbeam diffraction measurements of full elastic long range internal strain and stress tensors in commercial-purity aluminum processed by multiple passes of equal-channel angular pressing. Acta Materialia, 2016, 112, 231-241.	7.9	18
195	The effect of grain size on the annealing-induced phase transformation in an Al0Â·3CoCrFeNi high entropy alloy. Materials and Design, 2016, 105, 381-385.	7.0	71
196	Evolution of microstructure and hardness in an AZ80 magnesium alloy processed by high-pressure torsion. Journal of Materials Research and Technology, 2016, 5, 152-158.	5.8	39
197	Self-annealing in a two-phase Pb-Sn alloy after processing by high-pressure torsion. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2016, 666, 350-359.	5.6	18
198	The Strengthâ€“Grain Size Relationship in Ultrafine-Grained Metals. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2016, 47, 5827-5838.	2.2	65

#	Article	IF	Citations
199	Evidence for a transition in deformation mechanism in nanocrystalline pure titanium processed by high-pressure torsion. Philosophical Magazine, 2016, 96, 1632-1642.	1.6	5
200	A comparison of repetitive corrugation and straightening and high-pressure torsion using an Al-Mg-Sc alloy. Journal of Materials Research and Technology, 2016, 5, 353-359.	5.8	23
201	Microstructure, Texture, and Superplasticity of a Fine-Grained Mg-Gd-Zr Alloy Processed by Equal-Channel Angular Pressing. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2016, 47, 6056-6069.	2.2	40
202	The Requirements for Superplasticity with an Emphasis on Magnesium Alloys. Advanced Engineering Materials, 2016, 18, 127-131.	3.5	30
203	Effect of annealing on mechanical properties of a nanocrystalline CoCrFeNiMn high-entropy alloy processed by high-pressure torsion. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2016, 676, 294-303.	5.6	225
204	Recovery or Non-Recovery in Al-0.1% Mg and Al-1% Mg Alloy during High-Pressure Torsion Processing. Materials Science Forum, 2016, 879, 773-778.	0.3	1
205	Influence of High-Pressure Torsion on the Microstructure and the Hardness of a Ti-Rich High-Entropy Alloy. Materials Science Forum, 2016, 879, 732-737.	0.3	4
206	Effect of applied pressure on microstructure development and homogeneity in an aluminium alloy processed by high-pressure torsion. Journal of Alloys and Compounds, 2016, 688, 736-745.	5.5	20
207	Micro-Mechanical Responses of Ultrafine-Grained Materials Processed through High-Pressure Torsion. Materials Science Forum, 2016, 879, 42-47.	0.3	1
208	Mechanical Properties and Microstructural Behavior of a Metal Matrix Composite Processed by Severe Plastic Deformation Techniques. MRS Advances, 2016, 1, 3865-3870.	0.9	1
209	An Unusual Extrusion Texture in Mgâ€“Gdâ€“Yâ€“Zr Alloys. Advanced Engineering Materials, 2016, 18, 1044-1049.	3.5	61
210	Microstructural Evolution and Microâ€Compression in Highâ€Purity Copper Processed by Highâ€Pressure Torsion. Advanced Engineering Materials, 2016, 18, 241-250.	3.5	16
211	Highâ€Cycle Fatigue Behavior of an Ultrafineâ€Grained Tiâ€“6Alâ€“4V Alloy Processed by ECAP and Extrusion. Advanced Engineering Materials, 2016, 18, 2057-2062.	3.5	38
212	Characteristics of the allotropic phase transformation in titanium processed by high-pressure torsion using different rotation speeds. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2016, 667, 293-299.	5.6	38
213	Mechanical properties and microstructural evolution of nanocrystalline titanium at elevated temperatures. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2016, 669, 358-366.	5.6	24
214	Microstructure and microhardness of an Al-6061 metal matrix composite processed by high-pressure torsion. Materials Characterization, 2016, 118, 270-278.	4.4	35
215	Microtextural Changes and Superplasticity in an Al-7075 Alloy Processed by High-Pressure Torsion. Materials Science Forum, 2016, 838-839, 445-450.	0.3	4
216	Description of the Superplastic Flow Process by Deformation Mechanism Maps in Ultrafine-Grained Materials. Materials Science Forum, 2016, 838-839, 51-58.	0.3	2

#	Article	IF	Citations
217	Microstructure, phase composition and hardness evolution in 316L stainless steel processed by high-pressure torsion. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2016, 657, 215-223.	5.6	70
218	The significance of self-annealing at room temperature in high purity copper processed by high-pressure torsion. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2016, 656, 55-66.	5.6	81
219	Evidence for an early softening behavior in pure copper processed by high-pressure torsion. Journal of Materials Science, 2016, 51, 1923-1930.	3.7	14
220	The influence of grain size and strain rate on the mechanical behavior of pure magnesium. Journal of Materials Science, 2016, 51, 3013-3024.	3.7	65
221	An investigation into the effect of substrate on the load-bearing capacity of thin hard coatings. Journal of Materials Science, 2016, 51, 4390-4398.	3.7	12
222	Principle of one-step synthesis for multilayered structures using tube high-pressure shearing. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2016, 658, 367-375.	5.6	14
223	Producing Bulk Ultrafine-Grained Materials by Severe Plastic Deformation: Ten Years Later. Jom, 2016, 68, 1216-1226.	1.9	346
224	Spherical nanoindentation creep behavior of nanocrystalline and coarse-grained CoCrFeMnNi high-entropy alloys. Acta Materialia, 2016, 109, 314-322.	7.9	156
225	Achieving superior grain refinement and mechanical properties in vanadium through high-pressure torsion and subsequent short-term annealing. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2016, 655, 60-69.	5.6	25
226	Developing superplasticity in an aluminum matrix composite processed by high-pressure torsion. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2016, 655, 36-43.	5.6	40
227	Superplasticity of a nano-grained Mgâ€“Gdâ€“Yâ€“Zr alloy processed by high-pressure torsion. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2016, 651, 786-794.	5.6	85
228	Fundamentals of Superior Properties in Bulk NanoSPD Materials. Materials Research Letters, 2016, 4, 1-21.	8.7	280
229	Review: Overcoming the paradox of strength and ductility in ultrafine-grained materials at low temperatures. Journal of Materials Science, 2016, 51, 7-18.	3.7	91
230	Review: achieving superplastic properties in ultrafine-grained materials at high temperatures. Journal of Materials Science, 2016, 51, 19-32.	3.7	96
231	Strengthening and weakening in the processing of ultrafine-grained metals. Metallic Materials, 2016, 53, 213-219.	0.3	5
232	Nanomechanical behavior and structural stability of a nanocrystalline CoCrFeNiMn high-entropy alloy processed by high-pressure torsion. Journal of Materials Research, 2015, 30, 2804-2815.	2.6	101
233	Grain boundary character distribution of CuNiSi and FeNi alloys processed by severe plastic deformation. IOP Conference Series: Materials Science and Engineering, 2015, 82, 012076.	0.6	5
234	Developing ultrafine-grained materials with high strength and good ductility for micro-forming applications. MATEC Web of Conferences, 2015, 21, 07002.	0.2	1

#	Article	IF	Citations
235	An evaluation of formability using micro-embossing on an ultrafine-grained magnesium AZ31 alloy processed by high-pressure torsion. MATEC Web of Conferences, 2015, 21, 09005.	0.2	3
236	Micro-deformation behavior in micro-compression with high-purity aluminum processed by ECAP. Manufacturing Review, 2015, 2, 1.	1.5	48
237	Microstructure and microhardness of OFHC copper processed by high-pressure torsion. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2015, 641, 21-28.	5.6	29
238	Microstructural stability and grain growth kinetics in an extruded fine-grained Mgâ€“Gdâ€“Yâ€“Zr alloy. Journal of Materials Science, 2015, 50, 4940-4951.	3.7	50
239	Microstructure and texture evolution in a Cuâ€“Niâ€“Si alloy processed by equal-channel angular pressing. Journal of Alloys and Compounds, 2015, 638, 88-94.	5.5	24
240	A critical examination of pure tantalum processed by high-pressure torsion. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2015, 638, 174-182.	5.6	46
241	Effects of equal-channel angular pressing and accumulative roll-bonding on hydrogen storage properties of a commercial ZK60 magnesium alloy. International Journal of Hydrogen Energy, 2015, 40, 16971-16976.	7.1	44
242	Influence of phase volume fraction on the grain refining of a Ti-6Al-4V alloy by high-pressure torsion. Journal of Materials Research and Technology, 2015, 4, 2-7.	5.8	30
243	Microâ€Forming Using Ultrafineâ€Grained Aluminum Processed by Equalâ€Channel Angular Pressing. Advanced Engineering Materials, 2015, 17, 1022-1033.	3.5	21
244	Structural impact on the Hallâ€“Petch relationship in an Alâ€“5Mg alloy processed by high-pressure torsion. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2015, 626, 9-15.	5.6	81
245	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
246	Annealing behavior and shape memory effect in NiTi alloy processed by equal-channel angular pressing at room temperature. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2015, 629, 16-22.	5.6	31
247	Grain boundary formation by remnant dislocations from the de-twinning of thin nano-twins. Scripta Materialia, 2015, 100, 98-101.	5.2	58
248	Evolution in hardness and texture of a ZK60A magnesium alloy processed by high-pressure torsion. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2015, 630, 90-98.	5.6	74
249	Wear resistance of an ultrafine-grained Cu-Zr alloy processed by equal-channel angular pressing. Wear, 2015, 326-327, 10-19.	3.1	64
250	Evaluating the Room Temperature ECAP Processing of a NiTi Alloy via Simulation and Experiments. Advanced Engineering Materials, 2015, 17, 532-538.	3.5	9
251	Temperature and strain rate dependence of microstructural evolution and dynamic mechanical behavior in nanocrystalline Ti. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2015, 641, 29-36.	5.6	12
252	Effect of temperature on microstructural stabilization and mechanical properties in the dynamic testing of nanocrystalline pure Ti. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2015, 634, 64-70.	5.6	17

#	Article	IF	Citations
253	Grain size and microhardness evolution during annealing of a magnesium alloy processed by high-pressure torsion. Journal of Materials Research and Technology, 2015, 4, 14-17.	5.8	30
254	Rapid synthesis of an extra hard metal matrix nanocomposite at ambient temperature. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2015, 635, 109-117.	5.6	59
255	Evolution in hardness and microstructure of ZK60A magnesium alloy processed by high-pressure torsion. Journal of Materials Research and Technology, 2015, 4, 18-25.	5.8	27
256	Microstructural evolution and microhardness variations in a Cuâ€“36Znâ€“2Pb alloy processed by high-pressure torsion. Journal of Materials Science, 2015, 50, 1535-1543.	3.7	3
257	The contribution of grain boundary sliding in tensile deformation of an ultrafine-grained aluminum alloy having high strength and high ductility. Journal of Materials Science, 2015, 50, 3549-3561.	3.7	36
258	Hardening of an Al0.3CoCrFeNi high entropy alloy via high-pressure torsion and thermal annealing. Materials Letters, 2015, 151, 126-129.	2.6	135
259	The microstructure length scale of strain rate sensitivity in ultrafine-grained aluminum. Journal of Materials Research, 2015, 30, 981-992.	2.6	5
260	Superplasticity and superplastic-like flow in cubic zirconia with silica. Journal of Materials Science, 2015, 50, 3716-3726.	3.7	3
261	An evaluation of the saturation hardness in an ultrafine-grained aluminum 7075 alloy processed using different techniques. Journal of Materials Science, 2015, 50, 4357-4365.	3.7	38
262	Using dilatometry to study martensitic stabilization and recrystallization kinetics in a severely deformed NiTi alloy. Journal of Materials Science, 2015, 50, 4003-4011.	3.7	15
263	An examination of the elastic distortions of anvils in high-pressure torsion. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2015, 631, 201-208.	5.6	26
264	Two-Step SPD Processing of a Trimodal Al-Based Nano-Composite. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2015, 46, 5877-5886.	2.2	26
265	Effect of grain size and specimen dimensions on micro-forming of high purity aluminum. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2015, 646, 207-217.	5.6	52
266	An X-ray absorption spectroscopy investigation of the local atomic structure in Cuâ€“Niâ€“Si alloy after severe plastic deformation and ageing. Philosophical Magazine, 2015, 95, 2482-2490.	1.6	2
267	Effect of grain size on compressive behaviour of titanium at different strain rates. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2015, 645, 311-317.	5.6	22
268	Microhardness, microstructure and tensile behavior of an AZ31 magnesium alloy processed by high-pressure torsion. Journal of Materials Science, 2015, 50, 7424-7436.	3.7	60
269	Microstructural homogeneity and superplastic behavior in an aluminumâ€“copper eutectic alloy processed by high-pressure torsion. Journal of Materials Science, 2015, 50, 6700-6712.	3.7	4
270	Shape memory effect in nanocrystalline NiTi alloy processed by high-pressure torsion. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2015, 626, 203-206.	5.6	46

#	Article	IF	Citations
271	Enhancement of strain-rate sensitivity and shear yield strength of a magnesium alloy processed by high-pressure torsion. Scripta Materialia, 2015, 94, 44-47.	5.2	56
272	Enhancement in mechanical properties of a Î²-titanium alloy by high-pressure torsion. Journal of Materials Research and Technology, 2015, 4, 79-83.	5.8	35
273	Formation of epsilon martensite by high-pressure torsion in a TRIP steel. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2015, 625, 114-118.	5.6	25
274	Achieving superplasticity through severe plastic deformation. Letters on Materials, 2015, 5, 233-239.	0.7	1
275	Grain refining of a Ti-6Al-4V alloy by high-pressure torsion and low temperature superplasticity. Letters on Materials, 2015, 5, 281-286.	0.7	13
276	Microstructural properties, thermal stability and superplasticity of a ZK60 Mg alloy processed by high-pressure torsion. Letters on Materials, 2015, 5, 287-293.	0.7	12
277	Examining the mechanical properties and superplastic behaviour in an Al-Mg-Sc alloy after processing by HPT. Letters on Materials, 2015, 5, 294-300.	0.7	9
278	Achieving superplasticity in a Bi-Sn alloy processed by high-pressure torsion. Letters on Materials, 2015, 5, 301-305.	0.7	1
279	Microstructural saturation, hardness stability and superplasticity in ultrafine-grained metals processed by a combination of severe plastic deformation techniques. Letters on Materials, 2015, 5, 335-340.	0.7	3
280	An evaluation of high temperature tensile properties for a magnesium AZ31 alloy processed by high-pressure torsion. Letters on Materials, 2015, 5, 341-346.	0.7	1
281	The characteristics of two-phase Al-Cu and Zn-Al alloys processed by high-pressure torsion. IOP Conference Series: Materials Science and Engineering, 2014, 63, 012106.	0.6	2
282	The significance of self-annealing in two-phase alloys processed by high-pressure torsion. IOP Conference Series: Materials Science and Engineering, 2014, 63, 012126.	0.6	8
283	High-Pressure Torsion of Ti: Synchrotron characterization of phase volume fraction and domain sizes. IOP Conference Series: Materials Science and Engineering, 2014, 63, 012147.	0.6	4
284	Evolution of hardness, microstructure, and strain rate sensitivity in a Zn-22% Al eutectoid alloy processed by high-pressure torsion. IOP Conference Series: Materials Science and Engineering, 2014, 63, 012101.	0.6	2
285	Microstructural evolution and microhardness in a low carbon steel processed by high-pressure torsion. Journal of Materials Research and Technology, 2014, 3, 344-348.	5.8	15
286	An overview of flow patterns development on disc lower surfaces when processing by high-pressure torsion. Journal of Materials Research and Technology, 2014, 3, 303-310.	5.8	7
287	Strain weakening and superplasticity in a Bi-Sn eutectic alloy processed by high-pressure torsion. IOP Conference Series: Materials Science and Engineering, 2014, 63, 012107.	0.6	4
288	Processing magnesium alloys by severe plastic deformation. IOP Conference Series: Materials Science and Engineering, 2014, 63, 012171.	0.6	16

#	Article	IF	Citations
289	An examination of the saturation microstructures achieved in ultrafine-grained metals processed by high-pressure torsion. Journal of Materials Research and Technology, 2014, 3, 319-326.	5.8	15
290	Shape memory effect of NiTi alloy processed by equal-channel angular pressing followed by post deformation annealing. IOP Conference Series: Materials Science and Engineering, 2014, 63, 012111.	0.6	10
291	Martensitic Phase Transformation and Deformation Behavior of Feâ€“Mnâ€“Câ€“Al Twinningâ€Induced Plasticity Steel during Highâ€Pressure Torsion. Advanced Engineering Materials, 2014, 16, 927-932.	3.5	12
292	Strain-induced martensite to austenite reverse transformation in an ultrafine-grained Feâ€“Niâ€“Mn martensitic steel. Philosophical Magazine, 2014, 94, 1493-1507.	1.6	18
293	Grain Boundary Phenomena in an Ultrafineâ€Grained Alâ€“Zn Alloy with Improved Mechanical Behavior for Microâ€Devices. Advanced Engineering Materials, 2014, 16, 1000-1009.	3.5	92
294	Fatigue Life and Failure Characteristics of an Ultrafineâ€Grained Tiâ€“6Alâ€“4V Alloy Processed by ECAP and Extrusion. Advanced Engineering Materials, 2014, 16, 1038-1043.	3.5	32
295	Using finite element modelling to examine the flow process and temperature evolution in HPT under different constraining conditions. IOP Conference Series: Materials Science and Engineering, 2014, 63, 012041.	0.6	15
296	The effect of microstructure heterogeneity on the microscale deformation of ultrafine-grained aluminum. Journal of Materials Research, 2014, 29, 1664-1674.	2.6	12
297	A critical examination of the paradox of strength and ductility in ultrafine-grained metals. Journal of Materials Research, 2014, 29, 2534-2546.	2.6	32
298	Reassessment of temperature increase and equivalent strain calculation during high-pressure torsion. IOP Conference Series: Materials Science and Engineering, 2014, 63, 012052.	0.6	8
299	Characterization of stressâ€“strain relationships in Al over a wide range of testing temperatures. International Journal of Plasticity, 2014, 54, 178-192.	8.8	21
300	Correlation between hydrogen storage properties and textures induced in magnesium through ECAP and cold rolling. International Journal of Hydrogen Energy, 2014, 39, 3810-3821.	7.1	63
301	Processing of commercial purity titanium by ECAP using a 90 degrees die at room temperature. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2014, 607, 482-489.	5.6	52
302	Evaluating the Superplastic Flow of a Magnesium AZ31 Alloy Processed by Equal-Channel Angular Pressing. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2014, 45, 3197-3204.	2.2	16
303	A critical evaluation of the processing of an aluminum 7075 alloy using a combination of ECAP and HPT. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2014, 596, 52-58.	5.6	57
304	Evolution of microstructure and hardness in NiTi shape memory alloys processed by high-pressure torsion. Journal of Materials Science, 2014, 49, 2998-3009.	3.7	36
305	An in situ synchrotron X-ray diffraction study of precipitation kinetics in a severely deformed Cuâ€“Niâ€“Si alloy. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2014, 597, 288-294.	5.6	38
306	The corrosion behaviour of commercial purity titanium processed by high-pressure torsion. Journal of Materials Science, 2014, 49, 2824-2831.	3.7	79

#	Article	IF	Citations
307	Effect of anvil roughness on the flow patterns and hardness development in high-pressure torsion. Journal of Materials Science, 2014, 49, 6517-6528.	3.7	11
308	Dynamic compressive behavior of ultrafine-grained pure Ti at elevated temperatures after processing by ECAP. Journal of Materials Science, 2014, 49, 6640-6647.	3.7	14
309	Microstructural evolution and mechanical properties in a Znâ€“Al eutectoid alloy processed by high-pressure torsion. Acta Materialia, 2014, 72, 67-79.	7.9	54
310	Evolution of plasticity, strain-rate sensitivity and the underlying deformation mechanism in Znâ€“22% Al during high-pressure torsion. Scripta Materialia, 2014, 75, 102-105.	5.2	54
311	An evaluation of the shearing patterns introduced by different anvil alignments in high-pressure torsion. Journal of Materials Science, 2014, 49, 3146-3157.	3.7	19
312	Effect of annealing on wear resistance and electroconductivity of copper processed by high-pressure torsion. Journal of Materials Science, 2014, 49, 2270-2278.	3.7	16
313	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
314	Properties of a ZK60 magnesium alloy processed by high-pressure torsion. Journal of Alloys and Compounds, 2014, 613, 357-363.	5.5	96
315	Electron backscatter diffraction (EBSD) microstructure evolution in HPT copper annealed at a low temperature. Journal of Materials Research and Technology, 2014, 3, 338-343.	5.8	28
316	Microstructural evolution of cryomilled Ti/Al mixture during high-pressure torsion. Journal of Materials Research, 2014, 29, 578-585.	2.6	8
317	Microhardness evolution and mechanical characteristics of commercial purity titanium processed by high-pressure torsion. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2014, 614, 223-231.	5.6	71
318	Evolution of hardness in ultrafine-grained metals processed by high-pressure torsion. Journal of Materials Research and Technology, 2014, 3, 311-318.	5.8	28
319	Improving the fatigue behavior of dental implants through processing commercial purity titanium by equal-channel angular pressing. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2014, 619, 312-318.	5.6	51
320	Review: achieving superplasticity in metals processed by high-pressure torsion. Journal of Materials Science, 2014, 49, 6487-6496.	3.7	61
321	Long-term self-annealing of copper and aluminium processed by high-pressure torsion. Journal of Materials Science, 2014, 49, 6529-6535.	3.7	12
322	Microstructural evolution in ultrafine-grained titanium processed by high-pressure torsion under different pressures. Journal of Materials Science, 2014, 49, 6558-6564.	3.7	43
323	Mechanical properties and microstructure evolution in an aluminum 6082 alloy processed by high-pressure torsion. Journal of Materials Science, 2014, 49, 6597-6607.	3.7	18
324	Effect of short-term annealing on the microstructures and flow properties of an Alâ€“1% Mg alloy processed by high-pressure torsion. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2014, 615, 231-239.	5.6	73

#	Article	IF	Citations
325	Evaluating a New Coreâ€Sheath Procedure for Processing Hard Metals by Equalâ€Channel Angular Pressing. Advanced Engineering Materials, 2014, 16, 918-926.	3.5	10
326	Superplasticity of a fine-grained Mgâ€“9Gdâ€“4Yâ€“0.4Zr alloy evaluated using shear punch testing. Journal of Materials Research and Technology, 2014, 3, 228-232.	5.8	49
327	High-cycle fatigue behavior of Znâ€“22% Al alloy processed by high-pressure torsion. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2014, 618, 37-40.	5.6	9
328	Modeling the temperature rise in high-pressure torsion. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2014, 593, 185-188.	5.6	68
329	Interpretation of hardness evolution in metals processed by high-pressure torsion. Journal of Materials Science, 2014, 49, 6586-6596.	3.7	59
330	Microstructures and mechanical properties of pure tantalum processed by high-pressure torsion. IOP Conference Series: Materials Science and Engineering, 2014, 63, 012100.	0.6	10
331	Producing ultrafine-grained materials through severe plastic deformation. Emerging Materials Research, 2014, 3, 252-260.	0.7	5
332	Report of International NanoSPD Steering Committee and statistics on recent NanoSPD activities. IOP Conference Series: Materials Science and Engineering, 2014, 63, 011002.	0.6	4
333	Mechanical property evaluation of an Al-2024 alloy subjected to HPT processing. IOP Conference Series: Materials Science and Engineering, 2014, 63, 012085.	0.6	11
334	The flow characteristics of superplasticity. Letters on Materials, 2014, 4, 78-83.	0.7	3
335	A comparison of microstructures and mechanical properties in a Cuâ€“Zr alloy processed using different SPD techniques. Journal of Materials Science, 2013, 48, 4653-4660.	3.7	108
336	Effect of heat treatment on microstructure and microhardness evolution in a Tiâ€“6Alâ€“4V alloy processed by high-pressure torsion. Journal of Materials Science, 2013, 48, 4646-4652.	3.7	52
337	Inhomogeneous softening during annealing of ultrafine-grained silver processed by HPT. Journal of Materials Science, 2013, 48, 7384-7391.	3.7	5
338	Recent developments in modelling of microhardness saturation during SPD processing of metals and alloys. Journal of Materials Science, 2013, 48, 4461-4466.	3.7	21
339	An analytical approach and experimental confirmation of dislocationâ€“twin boundary interactions in titanium. Journal of Materials Science, 2013, 48, 4476-4483.	3.7	23
340	Microstructure and microtexture evolution with aging treatment in an Alâ€“Mgâ€“Si alloy severely deformed by HPT. Journal of Materials Science, 2013, 48, 4573-4581.	3.7	7
341	Microstructural evolution in two-phase alloys processed by high-pressure torsion. Journal of Materials Science, 2013, 48, 4582-4591.	3.7	45
342	Achieving homogeneity in a two-phase Cuâ€“Ag composite during high-pressure torsion. Journal of Materials Science, 2013, 48, 4606-4612.	3.7	16

#	Article	IF	Citations
343	Evolution of a martensitic structure in a Cuâ€“Al alloy during processing by high-pressure torsion. Journal of Materials Science, 2013, 48, 4613-4619.	3.7	9
344	Stability of the ultrafine-grained microstructure in silver processed by ECAP and HPT. Journal of Materials Science, 2013, 48, 4637-4645.	3.7	18
345	Structural and hardness inhomogeneities in Mgâ€“Alâ€“Zn alloys processed by high-pressure torsion. Journal of Materials Science, 2013, 48, 4661-4670.	3.7	37
346	Tribology testing of ultrafine-grained Ti processed by high-pressure torsion with subsequent coating. Journal of Materials Science, 2013, 48, 4742-4748.	3.7	31
347	Using ball indentation to determine the mechanical properties of an Al-7475 alloy processed by high-pressure torsion. Journal of Materials Science, 2013, 48, 4773-4779.	3.7	10
348	Dry sliding wear of an AZ31 magnesium alloy processed by equal-channel angular pressing. Journal of Materials Science, 2013, 48, 4117-4127.	3.7	33
349	Hardness homogeneity and micro-tensile behavior in a magnesium AZ31 alloy processed by equal-channel angular pressing. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2013, 586, 108-114.	5.6	49
350	Evolution of microhardness and microstructure in a cast Alâ€“7Â% Si alloy during high-pressure torsion. Journal of Materials Science, 2013, 48, 4671-4680.	3.7	23
351	A characterization of microstructure and microhardness on longitudinal planes of an Alâ€“Mgâ€“Si alloy processed by ECAP. Materials Characterization, 2013, 84, 126-133.	4.4	26
352	An investigation of hydrogen storage in a magnesium-based alloy processed by equal-channel angular pressing. International Journal of Hydrogen Energy, 2013, 38, 8306-8312.	7.1	96
353	Achieving superplasticity in ultrafine-grained metals. Mechanics of Materials, 2013, 67, 2-8.	3.2	42
354	The significance of grain boundary sliding in the superplastic Znâ€“22Â% Al alloy processed by ECAP. Journal of Materials Science, 2013, 48, 4730-4741.	3.7	24
355	Laser compression of nanocrystalline tantalum. Acta Materialia, 2013, 61, 7767-7780.	7.9	46
356	Twenty-five years of ultrafine-grained materials: Achieving exceptional properties through grain refinement. Acta Materialia, 2013, 61, 7035-7059.	7.9	649
357	High temperature thermal stability of ultrafine-grained silver processed by equal-channel angular pressing. Journal of Materials Science, 2013, 48, 1675-1684.	3.7	16
358	Using X-ray microbeam diffraction to study the long-range internal stresses in aluminum processed by ECAP. Acta Materialia, 2013, 61, 7741-7748.	7.9	14
359	Microstructures and textures of a Cuâ€“Niâ€“Si alloy processed by high-pressure torsion. Journal of Alloys and Compounds, 2013, 574, 361-367.	5.5	68
360	De-twinning via secondary twinning in face-centered cubic alloys. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2013, 578, 110-114.	5.6	38

#	Article	IF	Citations
361	Using an Alâ€“Cu binary alloy to compare processing by multi-axial compression and high-pressure torsion. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2013, 588, 280-287.	5.6	27
362	An examination of microstructural evolution in a Cuâ€“Niâ€“Si alloy processed by HPT and ECAP. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2013, 576, 149-155.	5.6	45
363	An investigation of flow patterns and hardness distributions using different anvil alignments in high-pressure torsion. Journal of Materials Science, 2013, 48, 4533-4542.	3.7	28
364	The processing of NiTi shape memory alloys by equal-channel angular pressing at room temperature. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2013, 576, 178-184.	5.6	45
365	Advances in ultrafine-grained materials. Materials Today, 2013, 16, 85-93.	14.2	148
366	On the relation between the microstructure and the mechanical behavior of pure Zn processed by high pressure torsion. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2013, 562, 196-202.	5.6	63
367	Creep mechanisms in an Mgâ€“4Zn alloy in the as-cast and aged conditions. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2013, 564, 423-430.	5.6	25
368	Indentation and scratch testing of DLC-Zr coatings on ultrafine-grained titanium processed by high-pressure torsion. Wear, 2013, 306, 304-310.	3.1	47
369	Microstructural evolution in a Cuâ€“Zr alloy processed by a combination of ECAP and HPT. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2013, 579, 126-135.	5.6	39
370	Wear resistance and electroconductivity in copper processed by severe plastic deformation. Wear, 2013, 305, 89-99.	3.1	100
371	Adiabatic heating and the saturation of grain refinement during SPD of metals and alloys: experimental assessment and computer modeling. Journal of Materials Science, 2013, 48, 4626-4636.	3.7	26
372	Three-dimensional analysis of plastic flow during high-pressure torsion. Journal of Materials Science, 2013, 48, 4524-4532.	3.7	27
373	Microstructure and microtexture in pure copper processed by high-pressure torsion. Journal of Materials Science, 2013, 48, 4563-4572.	3.7	34
374	Processing of an ultrafine-grained titanium by high-pressure torsion: An evaluation of the wear properties with and without a TiN coating. Journal of the Mechanical Behavior of Biomedical Materials, 2013, 17, 166-175.	3.1	59
375	Influence of phase volume fractions on the processing of a Tiâ€“6Alâ€“4V alloy by high-pressure torsion. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2013, 559, 861-867.	5.6	46
376	Development of hardness homogeneity and superplastic behavior in an aluminumâ€“copper eutectic alloy processed by high-pressure torsion. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2013, 561, 118-125.	5.6	40
377	Recrystallization and Grain Growth due to Annealing of an Ultrafine-Grained Al Alloy. Materials Science Forum, 2013, 753, 303-306.	0.3	0
378	Influence of annealing on ductility of ultrafine-grained titanium processed by equal-channel angular pressingâ€“Conform and drawing. MRS Communications, 2013, 3, 249-253.	1.8	34

#	Article	IF	Citations
379	Influence of Anvil Alignment on Shearing Patterns in Highâ€Pressure Torsion. Advanced Engineering Materials, 2013, 15, 747-755.	3.5	33
380	The many facets of deformation mechanism mapping and the application to nanostructured materials. Journal of Materials Research, 2013, 28, 1827-1834.	2.6	19
381	Heterogeneous flow during high-pressure torsion. Materials Research, 2013, 16, 571-576.	1.3	4
382	Evaluating the flow processes in ultrafine-grained materials at elevated temperatures. Materials Research, 2013, 16, 565-570.	1.3	3
383	Microhardness and EBSD microstructure mapping in partially-pressed al and cu through 90Âº ECAP die. Materials Research, 2013, 16, 586-591.	1.3	4
384	Microstructure and texture evolution in a magnesium alloy during processing by high-pressure torsion. Materials Research, 2013, 16, 577-585.	1.3	33
385	Recent Advances in the Processing and Properties of Ultrafine-Grained Metals Prepared Using Severe Plastic Deformation. Advanced Structured Materials, 2013, , 241-250.	0.5	0
386	The Influence of Impurity Content on Thermal Stability of Low Stacking Fault Energy Silver Processed by Severe Plastic Deformation. Materials Science Forum, 2012, 729, 222-227.	0.3	4
387	Observations of unique plastic behavior in micro-pillars of an ultrafine-grained alloy. MRS Communications, 2012, 2, 75-78.	1.8	32
388	Applied stress controls the production of nano-twins in coarse-grained metals. Applied Physics Letters, 2012, 101, 231903.	3.3	23
389	Possible self-organized criticality in the Portevin-Le Chatelier effect during decomposition of solid solution alloys. MRS Communications, 2012, 2, 1-4.	1.8	9
390	THE PROPERTIES OF BULK ULTRAFINE-GRAINED METALS PROCESSED THROUGH THE APPLICATION OF SEVERE PLASTIC DEFORMATION. International Journal of Modern Physics Conference Series, 2012, 05, 299-306.	0.7	1
391	An Investigation of Cavity Development during Superplastic Flow in a Zinc–Aluminum Alloy Processed Using Severe Plastic Deformation. Materials Transactions, 2012, 53, 87-95.	1.2	17
392	Microstructural evolution and electro-resistivity in HPT nickel. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2012, 556, 437-445.	5.6	41
393	The development of hardness homogeneity in a Cuâ€“Zr alloy processed by equal-channel angular pressing. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2012, 556, 526-532.	5.6	39
394	Microstructure of low stacking fault energy silver processed by different routes of severe plastic deformation. Journal of Alloys and Compounds, 2012, 536, S190-S193.	5.5	17
395	Fabricating Ultrafine-Grained Materials through the Application of Severe Plastic Deformation: a Review of Developments in Brazil. Journal of Materials Research and Technology, 2012, 1, 55-62.	5.8	39
396	Preface to the special issue on ultrafine-grained materials. Journal of Materials Science, 2012, 47, 7717-7718.	3.7	2

#	Article	IF	Citations
397	Twenty-five years of severe plastic deformation: recent developments in evaluating the degree of homogeneity through the thickness of disks processed by high-pressure torsion. Journal of Materials Science, 2012, 47, 7719-7725.	3.7	47
398	Using deformation mechanism maps to depict flow processes in superplastic ultrafine-grained materials. Journal of Materials Science, 2012, 47, 7726-7734.	3.7	8
399	Microstructural evolution and the mechanical properties of an aluminum alloy processed by high-pressure torsion. Journal of Materials Science, 2012, 47, 7789-7795.	3.7	72
400	Effect of temperature on the processing of a magnesium alloy by high-pressure torsion. Journal of Materials Science, 2012, 47, 7796-7806.	3.7	34
401	Analysis of plastic flow during high-pressure torsion. Journal of Materials Science, 2012, 47, 7807-7814.	3.7	52
402	Effect of aging on microstructural development in an Alâ€“Mgâ€“Si alloy processed by high-pressure torsion. Journal of Materials Science, 2012, 47, 7815-7820.	3.7	47
403	Microstructure and tensile strength of grade 2 titanium processed by equal-channel angular pressing and by rolling. Journal of Materials Science, 2012, 47, 7870-7876.	3.7	65
404	Microstructure and microtexture evolution in pure metals after ultra-high straining. Journal of Materials Science, 2012, 47, 7888-7893.	3.7	11
405	Processing a twinning-induced plasticity steel by high-pressure torsion. Scripta Materialia, 2012, 67, 649-652.	5.2	45
406	Principles of severe plastic deformation using tube high-pressure shearing. Scripta Materialia, 2012, 67, 810-813.	5.2	65
407	Optimizing strength and ductility of Cuâ€“Zn alloys through severe plastic deformation. Scripta Materialia, 2012, 67, 871-874.	5.2	71
408	Influence of rolling direction on flow and cavitation in a superplastic magnesium alloy processed by equal-channel angular pressing. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2012, 556, 211-220.	5.6	17
409	Factors influencing creep flow and ductility in ultrafine-grained metals. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2012, 558, 403-411.	5.6	18
410	Bulk Nanostructured Metals for Innovative Applications. Jom, 2012, 64, 1134-1142.	1.9	106
411	Influence of Pressing Temperature on Microstructure Evolution and Mechanical Behavior of Ultrafineâ€Grained Cu Processed by Equalâ€Channel Angular Pressing. Advanced Engineering Materials, 2012, 14, 185-194.	3.5	32
412	Evolution of Strength and Homogeneity in a Magnesium AZ31 Alloy Processed by Highâ€Pressure Torsion at Different Temperatures. Advanced Engineering Materials, 2012, 14, 1018-1026.	3.5	74
413	Achieving homogeneity in a Cuâ€“Zr alloy processed by high-pressure torsion. Journal of Materials Science, 2012, 47, 7782-7788.	3.7	58
414	Tribological properties of ultrafine-grained materials processed by severe plastic deformation. Journal of Materials Science, 2012, 47, 4779-4797.	3.7	94

#	Article	IF	Citations
415	Microstructural heterogeneity in hexagonal close-packed pure Ti processed by high-pressure torsion. Journal of Materials Science, 2012, 47, 4838-4844.	3.7	18
416	Introducing a strain-hardening capability to improve the ductility of bulk metallic glasses via severe plastic deformation. Acta Materialia, 2012, 60, 253-260.	7.9	72
417	Microstructures, strengthening mechanisms and fracture behavior of Cuâ€“Ag alloys processed by high-pressure torsion. Acta Materialia, 2012, 60, 269-281.	7.9	71
418	The effect of dislocation density on the interactions between dislocations and twin boundaries in nanocrystalline materials. Acta Materialia, 2012, 60, 3181-3189.	7.9	134
419	Using finite element modeling to examine the temperature distribution in quasi-constrained high-pressure torsion. Acta Materialia, 2012, 60, 3190-3198.	7.9	271
420	Enhanced strengthâ€“ductility synergy in nanostructured Cu and Cuâ€“Al alloys processed by high-pressure torsion and subsequent annealing. Scripta Materialia, 2012, 66, 227-230.	5.2	140
421	Ultrafine grains and the Hallâ€“Petch relationship in an Alâ€“Mgâ€“Si alloy processed by high-pressure torsion. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2012, 532, 139-145.	5.6	141
422	A theoretical and experimental evaluation of repetitive corrugation and straightening: Application to Alâ€“Cu and Alâ€“Cuâ€“Sc alloys. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2012, 534, 282-287.	5.6	32
423	Strain rate sensitivity studies in an ultrafine-grained Alâ€“30wt.% Zn alloy using micro- and nanoindentation. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2012, 543, 117-120.	5.6	92
424	Effect of grain size on the micro-tribological behavior of pure titanium processed by high-pressure torsion. Wear, 2012, 280-281, 28-35.	3.1	94
425	An Evaluation of Homogeneity and Heterogeneity in Metals Processed by High-Pressure Torsion. Acta Physica Polonica A, 2012, 122, 425-429.	0.5	18
426	Macroscopic and Microscopic Descriptions of the Plastic Deformation of Fcc Metals over a Wide Range of Strain and Temperature. Acta Physica Polonica A, 2012, 122, 630-633.	0.5	1
427	Significance of stacking fault energy on microstructural evolution in Cu and Cuâ€“Al alloys processed by high-pressure torsion. Philosophical Magazine, 2011, 91, 3307-3326.	1.6	82
428	Using finite element modeling to examine the flow processes in quasi-constrained high-pressure torsion. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2011, 528, 8198-8204.	5.6	273
429	The effect of impurity level on ultrafine-grained microstructures and their stability in low stacking fault energy silver. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2011, 528, 8694-8699.	5.6	23
430	The development of hardness homogeneity in pure aluminum and aluminum alloy disks processed by high-pressure torsion. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2011, 529, 345-351.	5.6	81
431	Formation of fivefold deformation twins in an ultrafine-grained copper alloy processed by high-pressure torsion. Scripta Materialia, 2011, 64, 249-252.	5.2	46
432	Grain growth and dislocation density evolution in a nanocrystalline Niâ€“Fe alloy induced by high-pressure torsion. Scripta Materialia, 2011, 64, 327-330.	5.2	93

#	Article	IF	Citations
433	The influence of stacking fault energy on the mechanical properties of nanostructured Cu and Cuâ€“Al alloys processed by high-pressure torsion. Scripta Materialia, 2011, 64, 954-957.	5.2	124
434	Texture evolution during room temperature ageing of silver processed by equal-channel angular pressing. Scripta Materialia, 2011, 64, 1007-1010.	5.2	9
435	Strain hardening behavior of a two-phase Cuâ€“Ag alloy processed by high-pressure torsion. Scripta Materialia, 2011, 65, 477-480.	5.2	23
436	A convergent-beam electron diffraction study of strain homogeneity in severely strained aluminum processed by equal-channel angular pressing. Acta Materialia, 2011, 59, 7388-7395.	7.9	13
437	Wear behavior of an aluminum alloy processed by equal-channel angular pressing. Journal of Materials Science, 2011, 46, 123-130.	3.7	53
438	Achieving superplastic properties in a Pbâ€“Sn eutectic alloy processed by equal-channel angular pressing. Journal of Materials Science, 2011, 46, 155-160.	3.7	30
439	Influence of scandium on an Alâ€“2% Si alloy processed by high-pressure torsion. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2011, 528, 1702-1706.	5.6	27
440	Influence of strain rate on the characteristics of a magnesium alloy processed by high-pressure torsion. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2011, 528, 3601-3608.	5.6	62
441	Microstructural evolution in an aluminum solid solution alloy processed by ECAP. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2011, 528, 6059-6065.	5.6	61
442	Developing superplasticity and a deformation mechanism map for the Znâ€“Al eutectoid alloy processed by high-pressure torsion. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2011, 528, 6140-6145.	5.6	73
443	Structure and mechanical properties of commercial purity titanium processed by ECAP at room temperature. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2011, 528, 7708-7714.	5.6	66
444	Microstructural evolution and mechanical properties of a Cuâ€“Zr alloy processed by high-pressure torsion. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2011, 528, 7715-7722.	5.6	59
445	Segregation of solute elements at grain boundaries in an ultrafine grained Alâ€“Znâ€“Mgâ€“Cu alloy. Ultramicroscopy, 2011, 111, 500-505.	1.9	107
446	Achieving Exceptional Grain Refinement through Severe Plastic Deformation: New Approaches for Improving the Processing Technology. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2011, 42, 2942-2951.	2.2	85
447	Deformation Heterogeneity on the Cross-Sectional Planes of a Magnesium Alloy Processed by High-Pressure Torsion. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2011, 42, 3013-3021.	2.2	44
448	Intrinsically Ductile Failure in a Nanocrystalline Beta Titanium Alloy. Advanced Engineering Materials, 2011, 13, 1108-1113.	3.5	3
449	An investigation of hardness homogeneity throughout disks processed by high-pressure torsion. Acta Materialia, 2011, 59, 308-316.	7.9	174
450	Plastic behavior of fcc metals over a wide range of strain: Macroscopic and microscopic descriptions and their relationship. Acta Materialia, 2011, 59, 2385-2391.	7.9	34

#	Article	IF	Citations
451	Microstructural evolution and mechanical properties of a two-phase Cuâ€“Ag alloy processed by high-pressure torsion to ultrahigh strains. Acta Materialia, 2011, 59, 2783-2796.	7.9	110
452	Three-dimensional shear-strain patterns induced by high-pressure torsion and their impact on hardness evolution. Acta Materialia, 2011, 59, 3903-3914.	7.9	98
453	Comparison of microstructures and mechanical properties of a Cuâ€“Ag alloy processed using different severe plastic deformation modes. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2011, 528, 4331-4336.	5.6	47
454	Hardness homogeneity on longitudinal and transverse sections of an aluminum alloy processed by ECAP. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2011, 528, 3833-3840.	5.6	67
455	Development of structural heterogeneities in a magnesium alloy processed by high-pressure torsion. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2011, 528, 4500-4506.	5.6	82
456	Elemental redistribution in a nanocrystalline Niâ€“Fe alloy induced by high-pressure torsion. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2011, 528, 7500-7505.	5.6	8
457	Strain hardening and softening in a nanocrystalline Niâ€“Fe alloy induced by severe plastic deformation. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2011, 528, 3398-3403.	5.6	45
458	An experimental evaluation of a special ECAP die containing two equal arcs of curvature. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2011, 528, 4173-4179.	5.6	20
459	Strain softening in nanocrystalline Niâ€“Fe alloy induced by large HPT revolutions. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2011, 528, 4807-4811.	5.6	14
460	Flow mechanisms in ultrafine-grained metals with an emphasis on superplasticity. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2011, 528, 6624-6629.	5.6	50
461	Enhanced Mechanical Properties of Nanostructured Metals Produced by SPD Techniques. , 2011, , 31-59.		0
462	Microstructural Evolution in Pure Aluminum in the Early Stages of Processing by High-Pressure Torsion. Materials Transactions, 2010, 51, 2-7.	1.2	67
463	Principles of ECAPâ€“Conform as a continuous process for achieving grain refinement: Application to an aluminum alloy. Acta Materialia, 2010, 58, 1379-1386.	7.9	132
464	Influence of grain size on the density of deformation twins in Cuâ€“30%Zn alloy. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2010, 527, 3942-3948.	5.6	39
465	The role of stacking faults and twin boundaries in grain refinement of a Cuâ€“Zn alloy processed by high-pressure torsion. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2010, 527, 4959-4966.	5.6	141
466	Significance of strain reversals in a two-phase alloy processed by high-pressure torsion. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2010, 527, 7008-7016.	5.6	74
467	Developing Processing Routes for the Equal-Channel Angular Pressing of Age-Hardenable Aluminum Alloys. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2010, 41, 802-809.	2.2	34
468	Stable and Unstable Flow in Materials Processed by Equal-Channel Angular Pressing with an Emphasis on Magnesium Alloys. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2010, 41, 778-786.	2.2	50

#	Article	IF	Citations
469	An evaluation of creep behavior in ultrafine-grained aluminum alloys processed by ECAP. Journal of Materials Science, 2010, 45, 271-274.	3.7	22
470	A visualization of shear strain in processing by high-pressure torsion. Journal of Materials Science, 2010, 45, 765-770.	3.7	62
471	Avoiding cracks and inhomogeneities in billets processed by ECAP. Journal of Materials Science, 2010, 45, 4561-4570.	3.7	62
472	Influence of high-pressure torsion on microstructural evolution in an Alâ€“Znâ€“Mgâ€“Cu alloy. Journal of Materials Science, 2010, 45, 4621-4630.	3.7	48
473	Effect of strain reversals on the processing of high-purity aluminum by high-pressure torsion. Journal of Materials Science, 2010, 45, 4583-4593.	3.7	59
474	Unusual macroscopic shearing patterns observed in metals processed by high-pressure torsion. Journal of Materials Science, 2010, 45, 4545-4553.	3.7	64
475	Unusual super-ductility at room temperature in an ultrafine-grained aluminum alloy. Journal of Materials Science, 2010, 45, 4718-4724.	3.7	125
476	Grain refinement and mechanical behavior of a magnesium alloy processed by ECAP. Journal of Materials Science, 2010, 45, 4827-4836.	3.7	179
477	Preface to the Special Issue on Ultrafine Grained Materials. Journal of Materials Science, 2010, 45, 4543-4544.	3.7	3
478	Direct observations of microstructural evolution in a two-phase Cuâ€“Ag alloy processed by high-pressure torsion. Scripta Materialia, 2010, 63, 65-68.	5.2	54
479	Significance of twinning in the anisotropic behavior of a magnesium alloy processed by equal-channel angular pressing. Scripta Materialia, 2010, 63, 504-507.	5.2	53
480	Evolution of microstructural homogeneity in copper processed by high-pressure torsion. Scripta Materialia, 2010, 63, 560-563.	5.2	134
481	The Art and Science of Tailoring Materials by Nanostructuring for Advanced Properties Using SPD Techniques. Advanced Engineering Materials, 2010, 12, 677-691.	3.5	71
482	Principles of self-annealing in silver processed by equal-channel angular pressing: The significance of a very low stacking fault energy. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2010, 527, 752-760.	5.6	80
483	The characteristics of aluminumâ€“scandium alloys processed by ECAP. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2010, 527, 1448-1452.	5.6	11
484	Microstructural evolution of Fe-rich particles in an Alâ€“Znâ€“Mgâ€“Cu alloy during equal-channel angular pressing. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2010, 527, 4742-4749.	5.6	38
485	The processing of pure titanium through multiple passes of ECAP at room temperature. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2010, 527, 6335-6339.	5.6	111
486	Evolution of texture in a magnesium alloy processed by ECAP through dies with different angles. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2010, 527, 1709-1718.	5.6	38

#	Article	IF	Citations
487	Microstructural evolution in an Al-6061 alloy processed by high-pressure torsion. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2010, 527, 4864-4869.	5.6	119
488	The contributions of grain size, dislocation density and twinning to the strength of a magnesium alloy processed by ECAP. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2010, 528, 533-538.	5.6	76
489	Microstructural evolution in a two-phase alloy processed by high-pressure torsion. Acta Materialia, 2010, 58, 919-930.	7.9	128
490	Plastic behavior of face-centered-cubic metals over a wide range of strain. Acta Materialia, 2010, 58, 5015-5021.	7.9	28
491	Using X-ray microtomography to evaluate cavity formation in a superplastic magnesium alloy processed by equal-channel angular pressing. Acta Materialia, 2010, 58, 5737-5748.	7.9	30
492	Mechanical Properties of Al-6061 and an Al-6061 Metal Matrix Composite Processed by High-Pressure Torsion. Materials Science Forum, 2010, 667-669, 689-694.	0.3	1
493	Unique Features of Ultrafine-Grained Microstructures in Materials Having Low Stacking Fault Energy. Materials Science Forum, 2010, 659, 171-176.	0.3	1
494	Grain Size Effect on Deformation Twinning and De-Twinning in a Nanocrystalline Ni-Fe Alloy. Materials Science Forum, 2010, 667-669, 181-186.	0.3	2
495	Developing the Technique of Severe Plastic Deformation Processing through High-Pressure Torsion. Materials Science Forum, 2010, 667-669, 397-402.	0.3	1
496	Effect of a Special ECAP Die Configuration on Microhardness Distributions in Pure Aluminum. Materials Science Forum, 2010, 667-669, 69-74.	0.3	1
497	Decomposition of Nanostructured Martensite in Cu-Al Alloys Processed by High-Pressure Torsion. Materials Science Forum, 2010, 667-669, 469-474.	0.3	0
498	The Evolution of Homogeneity during Processing of Aluminium Alloys by HPT. Materials Science Forum, 2010, 667-669, 277-282.	0.3	3
499	Effect of Equal-Channel Angular Pressing on the Creep Resistance of Precipitation-Strengthened Alloys. Materials Science Forum, 2010, 667-669, 897-902.	0.3	8
500	Application of High-Pressure Torsion to Al-Si Alloys with and without Scandium Additions. Materials Science Forum, 2010, 667-669, 743-748.	0.3	1
501	Mechanical Characteristics of Zn-22% Al and Al-3% Mg Alloys Processed to High Strains by ECAP. Materials Science Forum, 2010, 667-669, 695-700.	0.3	0
502	Microstructures of Aluminum and Copper Single Crystals Processed by Equal-Channel Angular Pressing. Materials Science Forum, 2010, 638-642, 1946-1951.	0.3	4
503	Microstructural Evolution of Mg-4Nd Alloy Processed by High-Pressure Torsion. Materials Science Forum, 2010, 667-669, 391-396.	0.3	5
504	Monitoring of Self-Annealing in Ultrafine-Grained Silver Using Nanoindentation. Nanoscience and Nanotechnology Letters, 2010, 2, 294-297.	0.4	6

#	Article	IF	Citations
505	Processing of nanostructured metals and alloys via plastic deformation. MRS Bulletin, 2010, 35, 977-981.	3.5	82
506	Structural Evolution on the Cross-Section of an AZ31 Magnesium Alloy Processed by High-Pressure Torsion. Materials Science Forum, 2010, 667-669, 247-252.	0.3	4
507	New Developments in the Processing of Bulk Nanoscale Metals Using High-Pressure Torsion. Nanoscience and Nanotechnology Letters, 2010, 2, 303-307.	0.4	0
508	An atom probe characterisation of grain boundaries in an aluminium alloy processed by equal-channel angular pressing. International Journal of Materials Research, 2009, 100, 1674-1678.	0.3	23
509	Processing by severe plastic deformation:an ancient skill adapted for the modern world. International Journal of Materials Research, 2009, 100, 1623-1631.	0.3	8
510	The characteristics of superplastic flow in a magnesium alloy processed by ECAP. International Journal of Materials Research, 2009, 100, 843-846.	0.3	10
511	The nature of grain refinement in equal-channel angular pressing: a comparison of representative fcc and hcp metals. International Journal of Materials Research, 2009, 100, 1638-1646.	0.3	25
512	Influence of stacking fault energy on deformation mechanism and dislocation storage capacity in ultrafine-grained materials. Scripta Materialia, 2009, 60, 52-55.	5.2	133
513	The significance of slippage in processing by high-pressure torsion. Scripta Materialia, 2009, 60, 9-12.	5.2	107
514	Strategies for achieving high strain rate superplasticity in magnesium alloys processed by equal-channel angular pressing. Scripta Materialia, 2009, 61, 84-87.	5.2	73
515	Constructing a deformation mechanism map for a superplastic Pbâ€“Sn alloy processed by equal-channel angular pressing. Scripta Materialia, 2009, 61, 963-966.	5.2	40
516	Factors influencing superplastic behavior in a magnesium ZK60 alloy processed by equal-channel angular pressing. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2009, 503, 141-144.	5.6	36
517	Three-dimensional representations of hardness distributions after processing by high-pressure torsion. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2009, 503, 71-74.	5.6	56
518	Principles of grain refinement and superplastic flow in magnesium alloys processed by ECAP. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2009, 501, 105-114.	5.6	171
519	Dynamic testing at high strain rates of an ultrafine-grained magnesium alloy processed by ECAP. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2009, 517, 24-29.	5.6	96
520	Developing a strategy for the processing of age-hardenable alloys by ECAP at room temperature. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2009, 516, 248-252.	5.6	71
521	The evolution of damage in perfect-plastic and strain hardening materials processed by equal-channel angular pressing. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2009, 518, 124-131.	5.6	40
522	Twinning and dislocation activity in silver processed by severe plastic deformation. Journal of Materials Science, 2009, 44, 1656-1660.	3.7	24

#	Article	IF	Citations
523	Influence of strain rate on strength and ductility in an aluminum alloy processed by equal-channel angular pressing. Journal of Materials Science, 2009, 44, 3913-3916.	3.7	13
524	Principles of grain refinement in magnesium alloys processed by equal-channel angular pressing. Journal of Materials Science, 2009, 44, 4758-4762.	3.7	137
525	Seventy-five years of superplasticity: historic developments and new opportunities. Journal of Materials Science, 2009, 44, 5998-6010.	3.7	366
526	Principles of deformation in single crystals of two different orientations processed by equal-channel angular pressing. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2009, 503, 21-27.	5.6	8
527	Superplastic flow in a nanostructured aluminum alloy produced using high-pressure torsion. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2009, 500, 170-175.	5.6	43
528	Effect of stacking fault energy on strength and ductility of nanostructured alloys: An evaluation with minimum solution hardening. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2009, 525, 83-86.	5.6	75
529	Processing of a magnesium alloy by equal-channel angular pressing using a back-pressure. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2009, 527, 205-211.	5.6	58
530	Research on bulk nanostructured materials in Ufa: Twenty years of scientific achievements. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2009, 503, 6-9.	5.6	19
531	Flow behavior of a superplastic Znâ€“22% Al alloy processed by equal-channel angular pressing. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2009, 503, 48-51.	5.6	20
532	New observations on high-temperature creep at very low stresses. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2009, 510-511, 20-24.	5.6	14
533	Influence of specimen dimensions and strain measurement methods on tensile stressâ€“strain curves. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2009, 525, 68-77.	5.6	198
534	Microstructural evolution in high purity aluminum processed by ECAP. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2009, 524, 143-150.	5.6	209
535	Using ring samples to evaluate the processing characteristics in high-pressure torsion. Acta Materialia, 2009, 57, 1147-1153.	7.9	66
536	Influence of equal-channel angular pressing on precipitation in an Alâ€“Znâ€“Mgâ€“Cu alloy. Acta Materialia, 2009, 57, 3123-3132.	7.9	253
537	Using differential scanning calorimetry as an analytical tool for ultrafine grained metals processed by severe plastic deformation. Materials Science and Technology, 2009, 25, 687-698.	1.6	47
538	Correlation between microstructure and mechanical properties of severely deformed metals. Journal of Alloys and Compounds, 2009, 483, 271-274.	5.5	88
539	Achieving Microstructural Refinement in Magnesium Alloys through Severe Plastic Deformation. Materials Transactions, 2009, 50, 111-116.	1.2	7
540	Using Severe Plastic Deformation for the Processing of Advanced Engineering Materials. Materials Transactions, 2009, 50, 1613-1619.	1.2	34

#	Article	IF	Citations
541	Nanocrystalline body-centred cubic beta-titanium alloy processed by high-pressure torsion. International Journal of Materials Research, 2009, 100, 1662-1667.	0.3	25
542	The high-temperature creep properties of materials processed using severe plastic deformation. International Journal of Materials Research, 2009, 100, 750-756.	0.3	8
543	Stability of microstructure in silver processed by severe plastic deformation. International Journal of Materials Research, 2009, 100, 884-887.	0.3	2
544	Achieving superplastic behavior in fcc and hcp metals processed by equal-channel angular pressing. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2008, 493, 104-110.	5.6	33
545	On the feasibility of using a continuous processing technique incorporating a limited strain imposed by ECAP. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2008, 485, 476-480.	5.6	16
546	Microstructural characteristics of nickel processed to ultrahigh strains by high-pressure torsion. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2008, 489, 207-212.	5.6	35
547	Developing grain refinement and superplasticity in a magnesium alloy processed by high-pressure torsion. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2008, 488, 117-124.	5.6	170
548	Evaluating the influence of pressure and torsional strain on processing by high-pressure torsion. Journal of Materials Science, 2008, 43, 7286-7292.	3.7	65
549	The role of Harperâ€“Dorn creep at high temperatures and very low stresses. Journal of Materials Science, 2008, 43, 4801-4810.	3.7	12
550	An evaluation of microstructure and microhardness in copper subjected to ultra-high strains. Journal of Materials Science, 2008, 43, 7451-7456.	3.7	46
551	The development of internal cavitation in a superplastic zincâ€“aluminum alloy processed by ECAP. Journal of Materials Science, 2008, 43, 7360-7365.	3.7	16
552	Delayed microstructural recovery in silver processed by equal-channel angular pressing. Journal of Materials Science, 2008, 43, 5672-5676.	3.7	16
553	Developing superplasticity in a magnesium AZ31 alloy by ECAP. Journal of Materials Science, 2008, 43, 7366-7371.	3.7	89
554	Mechanical Properties of Bulk Nanocrystalline Aluminum-Tungsten Alloys. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2008, 39, 2528-2534.	2.2	41
555	Using high-pressure torsion for metal processing: Fundamentals and applications. Progress in Materials Science, 2008, 53, 893-979.	32.8	2,579
556	Evolution of defect structures during cold rolling of ultrafine-grained Cu and Cuâ€“Zn alloys: Influence of stacking fault energy. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2008, 474, 342-347.	5.6	144
557	The significance of strain reversals during processing by high-pressure torsion. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2008, 498, 341-348.	5.6	153
558	Influence of stacking-fault energy on microstructural characteristics of ultrafine-grain copper and copperâ€“zinc alloys. Acta Materialia, 2008, 56, 809-820.	7.9	251

#	Article	IF	Citations
559	Characterization of creep properties and creep textures in pure aluminum processed by equal-channel angular pressing. Acta Materialia, 2008, 56, 2307-2317.	7.9	44
560	Texture evolution by shear on two planes during ECAP of a high-strength aluminum alloy. Acta Materialia, 2008, 56, 3800-3809.	7.9	38
561	The evolution of homogeneity in an aluminum alloy processed using high-pressure torsion. Acta Materialia, 2008, 56, 5168-5176.	7.9	167
562	Texture evolution in an aluminum alloy processed by ECAP with concurrent precipitate fragmentation. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2008, 473, 219-225.	5.6	31
563	The evolution of homogeneity on longitudinal sections during processing by ECAP. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2008, 480, 449-455.	5.6	64
564	Using high-pressure torsion for the cold-consolidation of copper chips produced by machining. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2008, 486, 123-126.	5.6	90
565	Determining the optimal stacking fault energy for achieving high ductility in ultrafine-grained Cuâ€“Zn alloys. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2008, 493, 123-129.	5.6	157
566	Evaluating plastic anisotropy in two aluminum alloys processed by equal-channel angular pressing. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2008, 497, 206-211.	5.6	43
567	Achieving exceptional superplasticity in a bulk aluminum alloy processed by high-pressure torsion. Scripta Materialia, 2008, 58, 1029-1032.	5.2	82
568	Microstructure and properties of pure titanium processed by equal-channel angular pressing at room temperature. Scripta Materialia, 2008, 59, 542-545.	5.2	155
569	Influence of specimen dimensions on the tensile behavior of ultrafine-grained Cu. Scripta Materialia, 2008, 59, 627-630.	5.2	241
570	Microstructural and Mechanical Characteristics of AZ61 Magnesium Alloy Processed by High-Pressure Torsion. Materials Transactions, 2008, 49, 76-83.	1.2	112
571	Tougher ultrafine grain Cu via high-angle grain boundaries and low dislocation density. Applied Physics Letters, 2008, 92, .	3.3	158
572	Grain Boundary Sliding in a Superplastic Zinc-Aluminum Alloy Processed Using Severe Plastic Deformation. Materials Transactions, 2008, 49, 84-89.	1.2	51
573	Superplastic Deformation of a Mg-8% Li Alloy Processed at Room Temperature by ECAP. Materials Science Forum, 2007, 539-543, 2940-2946.	0.3	2
574	Ultrafine-grained materials: a personal perspective. International Journal of Materials Research, 2007, 98, 251-254.	0.3	16
575	Application of Equal-Channel Angular Pressing to Aluminum and Copper Single Crystals. Materials Science Forum, 2007, 539-543, 2853-2858.	0.3	9
576	Mechanical Properties of a Spray-Cast Aluminum Alloy Processed by Severe Plastic Deformation. Materials Science Forum, 2007, 539-543, 141-148.	0.3	1

#	Article	IF	Citations
577	Microstructural Evolution in the Processing of Bulk Samples Using High-Pressure Torsion. Materials Science Forum, 2007, 539-543, 80-85.	0.3	0
578	The Processing of Ultrafine-Grained Materials Using High-Pressure Torsion. Materials Science Forum, 2007, 558-559, 1283-1294.	0.3	1
579	Extending Creep and Superplasticity to Materials with Submicrometer Grain Sizes. Key Engineering Materials, 2007, 345-346, 539-544.	0.4	0
580	The Innovation Potential of Bulk Nanostructured Materials. Advanced Engineering Materials, 2007, 9, 527-533.	3.5	183
581	The evolution of homogeneity in processing by high-pressure torsion. Acta Materialia, 2007, 55, 203-212.	7.9	337
582	Influence of preliminary extrusion conditions on the superplastic properties of a magnesium alloy processed by ECAP. Acta Materialia, 2007, 55, 1083-1091.	7.9	122
583	The role of back pressure in the processing of pure aluminum by equal-channel angular pressing. Acta Materialia, 2007, 55, 2351-2360.	7.9	73
584	The processing of difficult-to-work alloys by ECAP with an emphasis on magnesium alloys. Acta Materialia, 2007, 55, 4769-4779.	7.9	179
585	The principles of grain refinement in equal-channel angular pressing. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2007, 462, 3-11.	5.6	311
586	A finite element analysis of the superplastic forming of an aluminum alloy processed by ECAP. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2007, 456, 236-242.	5.6	14
587	Microstructure and strength of severely deformed fcc metals. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2007, 462, 86-90.	5.6	91
588	Using X-ray microdiffraction to determine grain sizes at selected positions in disks processed by high-pressure torsion. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2007, 444, 153-156.	5.6	57
589	Influence of stacking fault energy on the minimum grain size achieved in severe plastic deformation. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2007, 463, 22-26.	5.6	119
590	The effect of severe plastic deformation on precipitation in supersaturated Alâ€“Znâ€“Mg alloys. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2007, 460-461, 77-85.	5.6	185
591	Particle and grain growth in an Alâ€“Si alloy during high-pressure torsion. Scripta Materialia, 2007, 57, 763-765.	5.2	73
592	The evolution of delta-phase in a superplastic Inconel 718 alloy. Journal of Materials Science, 2007, 42, 421-427.	3.7	88
593	Evolution of microstructure and microtexture in fcc metals during high-pressure torsion. Journal of Materials Science, 2007, 42, 1517-1528.	3.7	113
594	Influence of crystal orientation on the processing of copper single crystals by ECAP. Journal of Materials Science, 2007, 42, 1501-1511.	3.7	25

#	Article	IF	Citations
595	Fifty years of Harperâ€“Dorn creep: a viable creep mechanism or a Californian artifact?. Journal of Materials Science, 2007, 42, 409-420.	3.7	28
596	The development of hardness homogeneity in aluminum and an aluminum alloy processed by ECAP. Journal of Materials Science, 2007, 42, 1542-1550.	3.7	76
597	Characteristics of face-centered cubic metals processed by equal-channel angular pressing. Journal of Materials Science, 2007, 42, 1594-1605.	3.7	84
598	Principles of superplasticity in ultrafine-grained materials. Journal of Materials Science, 2007, 42, 1782-1796.	3.7	219
599	The processing of ultrafine-grained materials through the application of severe plastic deformation. Journal of Materials Science, 2007, 42, 3388-3397.	3.7	57
600	Developing Superplastic Ductilities in Ultrafine-Grained Metals. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2007, 38, 1891-1898.	2.2	28
601	Processing of Aluminium Alloys by Severe Plastic Deformation. Materials Science Forum, 2006, 519-521, 45-54.	0.3	5
602	Tailoring stacking fault energy for high ductility and high strength in ultrafine grained Cu and its alloy. Applied Physics Letters, 2006, 89, 121906.	3.3	295
603	Flow Mechanisms in Creep of an AZ 91 Magnesium-based Composite. , 2006, , 246-251.		2
604	Superplasticity in a Mg-8 mass%Li Two-Phase Alloy Processed by an ECAP Method. Nippon Kinzoku Gakkaishi/Journal of the Japan Institute of Metals, 2006, 70, 729-734.	0.4	6
605	Microstructural Evolution of a Mg-8 mass%Li Alloy Processed by ECAP during Superplastic Deformation. Nippon Kinzoku Gakkaishi/Journal of the Japan Institute of Metals, 2006, 70, 775-779.	0.4	2
606	Influence of crystal orientation on ECAP of aluminum single crystals. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2006, 420, 79-86.	5.6	57
607	Microtexture and microstructure evolution during processing of pure aluminum by repetitive ECAP. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2006, 429, 137-148.	5.6	99
608	Flow and cavitation in a quasi-superplastic two-phase magnesiumâ€“lithium alloy. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2006, 429, 334-340.	5.6	50
609	Mechanical characteristics of a Znâ€“22% Al alloy processed to very high strains by ECAP. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2006, 429, 324-328.	5.6	60
610	The development of superplastic ductilities and microstructural homogeneity in a magnesium ZK60 alloy processed by ECAP. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2006, 430, 151-156.	5.6	109
611	Flow processes at low temperatures in ultrafine-grained aluminum. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2006, 434, 326-334.	5.6	70
612	The aging characteristics of an Alâ€“Ag alloy processed by equal-channel angular pressing. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2006, 437, 240-247.	5.6	37

#	Article	IF	Citations
613	An overview: Fatigue behaviour of ultrafine-grained metals and alloys. International Journal of Fatigue, 2006, 28, 1001-1010.	5.7	188
614	Exceptional superplasticity in an AZ61 magnesium alloy processed by extrusion and ECAP. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2006, 420, 240-244.	5.6	128
615	Using ball-indentation to evaluate the properties of an ultrafine-grained Alâ€“2% Si alloy processed by ECAP. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2006, 427, 188-194.	5.6	18
616	Grain boundary sliding revisited: Developments in sliding over four decades. Journal of Materials Science, 2006, 41, 597-609.	3.7	349
617	Principles of equal-channel angular pressing as a processing tool for grain refinement. Progress in Materials Science, 2006, 51, 881-981.	32.8	3,680
618	Producing bulk ultrafine-grained materials by severe plastic deformation. Jom, 2006, 58, 33-39.	1.9	1,350
619	Strain-path effects on the evolution of microstructure and texture during the severe-plastic deformation of aluminum. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2006, 37, 2879-2891.	2.2	46
620	Experimental Evidence for Grain-Boundary Sliding in Ultrafine-Grained Aluminum Processed by Severe Plastic Deformation. Advanced Materials, 2006, 18, 34-39.	21.0	169
621	An Investigation of Cavitation in the Tensile Testing of a Spray-Cast Aluminum Alloy Processed by ECAP. Materials Science Forum, 2006, 503-504, 83-90.	0.3	4
622	Evolution of Microstructure and Precipitation in Heat-Treatable Aluminium Alloys during ECA Pressing and Subsequent Heat Treatment. Materials Science Forum, 2006, 503-504, 275-280.	0.3	20
623	Creep and Mechanical Properties of a Commercial Aluminum Alloy Processed by ECAP. Materials Science Forum, 2006, 503-504, 77-82.	0.3	5
624	An Investigation of Deformation in Copper Single Crystals Using Equal-Channel Angular Pressing. Materials Science Forum, 2006, 503-504, 113-118.	0.3	13
625	Developing a Model for Grain Refinement in Equal-Channel Angular Pressing. Materials Science Forum, 2006, 503-504, 19-24.	0.3	6
626	The Effect of Equal-Channel Angular Pressing on Structure-Phase Changes and Superplastic Properties of Al-Mg-Li Alloy. Materials Science Forum, 2006, 503-504, 983-988.	0.3	6
627	The Deformation Characteristics of Pure Aluminum Processed by Equal-Channel Angular Pressing. , 2006, , 201-208.		0
628	An Analysis of Flow Mechanisms in High Temperature Creep and Superplasticity. Materials Transactions, 2005, 46, 1951-1956.	1.2	56
629	Microstructural evolution in commercial purity aluminum during high-pressure torsion. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2005, 410-411, 277-280.	5.6	198
630	Achieving enhanced tensile ductility in an Al-6061 composite processed by severe plastic deformation. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2005, 410-411, 430-434.	5.6	30

#	Article	IF	Citations
631	Creep and superplasticity in a spray-cast aluminum alloy processed by ECA pressing. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2005, 410-411, 398-401.	5.6	22
632	Improving the high-temperature mechanical properties of a magnesium alloy by equal-channel angular pressing. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2005, 410-411, 435-438.	5.6	22
633	An analysis of superplastic flow after processing by ECAP. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2005, 410-411, 476-479.	5.6	23
634	Microstructure and properties of a low-carbon steel processed by equal-channel angular pressing. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2005, 410-411, 312-315.	5.6	44
635	Improving the superplastic properties of a two-phase Mgâ€“8% Li alloy through processing by ECAP. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2005, 410-411, 439-442.	5.6	100
636	The microstructural characteristics of ultrafine-grained nickel. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2005, 391, 377-389.	5.6	185
637	Grain refinement and superplasticity in an aluminum alloy processed by high-pressure torsion. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2005, 393, 344-351.	5.6	325
638	The evolution of homogeneity and grain refinement during equal-channel angular pressing: A model for grain refinement in ECAP. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2005, 398, 66-76.	5.6	232
639	Relationship between texture and low temperature superplasticity in an extruded AZ31 Mg alloy processed by ECAP. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2005, 402, 250-257.	5.6	257
640	Developing high-pressure torsion for use with bulk samples. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2005, 406, 268-273.	5.6	163
641	Flow processes in superplastic yttria-stabilized zirconia: A Deformation Limit Diagram. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2005, 409, 46-51.	5.6	13
642	Grain refinement and superplastic flow in an aluminum alloy processed by high-pressure torsion. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2005, 408, 141-146.	5.6	84
643	A quantitative study of cavity development in the tensile testing of an aluminum metal matrix composite processed by equal-channel angular pressing. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2005, 410-411, 402-407.	5.6	30
644	Influence of stacking fault energy on nanostructure formation under high pressure torsion. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2005, 410-411, 188-193.	5.6	179
645	Microstructural evolution in a spray-cast aluminum alloy during equal-channel angular pressing. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2005, 410-411, 303-307.	5.6	20
646	An investigation of the deformation process during equal-channel angular pressing of an aluminum single crystal. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2005, 410-411, 194-200.	5.6	30
647	Using the stressâ€“strain relationships to propose regions of low and high temperature plastic deformation in aluminum. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2005, 410-411, 234-238.	5.6	25
648	The significance of grain boundary sliding in the superplastic Znâ€“22% Al alloy after processing by ECAP. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2005, 410-411, 447-450.	5.6	47

#	Article	IF	Citations
649	Cavitation and failure in a fine-grained Inconel 718 alloy having potential superplastic properties. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2005, 410-411, 130-133.	5.6	18
650	Mechanical behavior of a 6061 Al alloy and an Al2O3/6061 Al composite after equal-channel angular processing. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2005, 410-411, 472-475.	5.6	10
651	Microstructures and microhardness of an aluminum alloy and pure copper after processing by high-pressure torsion. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2005, 410-411, 422-425.	5.6	173
652	An analysis of the shear zone for metals deformed by equal-channel angular processing. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2005, 410-411, 239-242.	5.6	32
653	Influence of ECAP on precipitate distributions in a spray-cast aluminum alloy. Acta Materialia, 2005, 53, 749-758.	7.9	162
654	An investigation of cavity growth in a superplastic aluminum alloy processed by ECAP. Acta Materialia, 2005, 53, 5353-5364.	7.9	40
655	Achieving High Strength and High Ductility in Precipitation-Hardened Alloys. Advanced Materials, 2005, 17, 1599-1602.	21.0	273
656	Influence of grain size on deformation mechanisms: An extension to nanocrystalline materials. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2005, 409, 234-242.	5.6	106
657	Grain refinement and superplasticity in a magnesium alloy processed by equal-channel angular pressing. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2005, 36, 1705-1711.	2.2	62
658	Processing by equal-channel angular pressing: Applications to grain boundary engineering. Journal of Materials Science, 2005, 40, 909-917.	3.7	32
659	Grain Refinement and Microstructural Evolution in Nickel during High-Pressure Torsion. , 2005, , 387-392.		1
660	Developing High Strain Rate Superplasticity in Aluminum Alloys. Materials Science Forum, 2005, 475-479, 2949-2954.	0.3	2
661	Effect of Microstructures on Tensile Properties of AZ31 Mg Alloy Processed by ECAP. Materials Science Forum, 2005, 488-489, 473-476.	0.3	2
662	Identifying creep mechanisms in plastic flow. International Journal of Materials Research, 2005, 96, 522-531.	0.8	43
663	Microstructure and Properties of a Low Carbon Steel after Equal Channel Angular Pressing. , 2005, , 829-834.		0
664	Microstructures after Processing by Aging and ECAP for Al-Mg₂Si Alloys Containing Excess Si or Mg. Materials Science Forum, 2005, 475-479, 4047-4050.	0.3	2
665	Performance and applications of nanostructured materials produced by severe plastic deformation. Scripta Materialia, 2004, 51, 825-830.	5.2	284
666	Using Equal-Channel Angular Pressing for the Production of Superplastic Aluminum and Magnesium Alloys. Journal of Materials Engineering and Performance, 2004, 13, 683-690.	2.5	32

#	Article	IF	Citations
667	Creep properties of a fiber-reinforced magnesium alloy. Journal of Materials Science, 2004, 39, 1647-1652.	3.7	11
668	Effect of Mg addition on microstructure and mechanical properties of aluminum. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2004, 387-389, 55-59.	5.6	139
669	The fundamentals of nanostructured materials processed by severe plastic deformation. Jom, 2004, 56, 58-63.	1.9	176
670	Achieving enhanced ductility in a dilute magnesium alloy through severe plastic deformation. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2004, 35, 1735-1744.	2.2	55
671	Using grain boundary engineering to evaluate the diffusion characteristics in ultrafine-grained Alâ€“Mg and Alâ€“Zn alloys. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2004, 371, 241-250.	5.6	79
672	The application of equal-channel angular pressing to an aluminum single crystal. Acta Materialia, 2004, 52, 1387-1395.	7.9	103
673	Microstructural development in equal-channel angular pressing using a 60Â° die. Acta Materialia, 2004, 52, 2497-2507.	7.9	81
674	A new constitutive relationship for the homogeneous deformation of metals over a wide range of strain. Acta Materialia, 2004, 52, 3555-3563.	7.9	129
675	Superplasticity of a Cu-Zn-Sn Alloy Processed by Equal-Channel Angular Pressing. Materials Science Forum, 2004, 447-448, 483-488.	0.3	1
676	Severe plastic deformation as a processing tool for developing superplastic metals. Journal of Alloys and Compounds, 2004, 378, 27-34.	5.5	66
677	An Evaluation of Superplastic Anisotropy after Processing by Equal-Channel Angular Pressing. Materials Transactions, 2004, 45, 3079-3081.	1.2	18
678	Achieving Superplasticity of Al-1%Mg-0.2%Sc Alloy in Plate Samples Processed by Equal-channel Angular Pressing. Materials Transactions, 2004, 45, 2521-2524.	1.2	11
679	Severe plastic deformation. Series in Materials Science and Engineering, 2004, , .	0.1	1
680	Factors influencing microstructural development in equal-channel angular pressing. Metals and Materials International, 2003, 9, 141-149.	3.4	44
681	The creep behavior of discontinuously reinforced metal-matrix composites. Jom, 2003, 55, 15-20.	1.9	27
682	Influence of a round corner die on flow homogeneity in ECA pressing. Scripta Materialia, 2003, 48, 1-4.	5.2	97
683	Comment on the role of intragranular dislocations in superplastic yttria-stabilized zirconia. Scripta Materialia, 2003, 48, 599-604.	5.2	23
684	Characteristics of superplasticity in an ultrafine-grained aluminum alloy processed by ECA pressing. Scripta Materialia, 2003, 49, 467-472.	5.2	78

#	Article	IF	Citations
685	Achieving a Superplastic Forming Capability through Severe Plastic Deformation. Advanced Engineering Materials, 2003, 5, 359-364.	3.5	37
686	Developing a superplastic forming capability in a commercial aluminum alloy without scandium or zirconium additions. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2003, 342, 294-301.	5.6	54
687	A model investigation of the shearing characteristics in equal-channel angular pressing. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2003, 347, 223-230.	5.6	34
688	Achieving superplasticity in ultrafine-grained copper: influence of Zn and Zr additions. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2003, 352, 129-135.	5.6	59
689	Using atomic force microscopy to evaluate the development of mesoscopic shear planes in materials processed by severe plastic deformation. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2003, 358, 114-121.	5.6	40
690	Equal-channel angular pressing using plate samples. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2003, 361, 258-266.	5.6	81
691	Experimental parameters influencing grain refinement and microstructural evolution during high-pressure torsion. Acta Materialia, 2003, 51, 753-765.	7.9	717
692	Using ECAP to achieve grain refinement, precipitate fragmentation and high strain rate superplasticity in a spray-cast aluminum alloy. Acta Materialia, 2003, 51, 6139-6149.	7.9	219
693	Developing superplasticity in a magnesium alloy through a combination of extrusion and ECAP. Acta Materialia, 2003, 51, 3073-3084.	7.9	351
694	Developing superplasticity in a spray-cast aluminum 7034 alloy through equal-channel angular pressing. Materials Letters, 2003, 57, 3588-3592.	2.6	30
695	Processing and Properties of Bulk Ultrafine-Grained Materials Produced through Severe Plastic Deformation. Solid State Phenomena, 2003, 94, 3-12.	0.3	1
696	Characteristics of diffusion in Al-Mg alloys with ultrafine grain sizes. Philosophical Magazine A: Physics of Condensed Matter, Structure, Defects and Mechanical Properties, 2002, 82, 2249-2262.	0.6	73
697	Diffusion in Fine-Grained Al Alloys Having Low and High Angle Grain Boundaries. Materials Science Forum, 2002, 396-402, 1061-1066.	0.3	5
698	Microstructural Control of an Al-Mg-Si Alloy Using Equal-Channel Angular Pressing. Materials Science Forum, 2002, 396-402, 333-338.	0.3	44
699	RÃ©alisation de superplasticitÃ© Ã grande vitesse dans des alliages Al_Mg_Sc_Zr par utilisation de l'extrusion dans des canaux dÃ©viÃ©s. Annales De Chimie: Science Des Materiaux, 2002, 27, 99-109.	0.4	22
700	Orientation imaging microscopy of ultrafine-grained nickel. Scripta Materialia, 2002, 46, 575-580.	5.2	217
701	A two-step processing route for achieving a superplastic forming capability in dilute magnesium alloys. Scripta Materialia, 2002, 47, 255-260.	5.2	133
702	An investigation of microstructure and grain-boundary evolution during ECA pressing of pure aluminum. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2002, 33, 2173-2184.	2.2	211

#	Article	IF	Citations
703	Creep at low stresses: An evaluation of diffusion creep and Harper-Dorn creep as viable creep mechanisms. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2002, 33, 249-259.	2.2	78
704	Creep processes in magnesium alloys and their composites. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2002, 33, 883-889.	2.2	33
705	Thermal stability and microstructural evolution in ultrafine-grained nickel after equal-channel angular pressing (ECAP). Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2002, 33, 1865-1868.	2.2	50
706	Factors contributing to creep strengthening in discontinuously-reinforced materials. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2002, 322, 73-78.	5.6	20
707	The role of matrix microstructure in the creep behaviour of discontinuous fiber-reinforced AZ 91 magnesium alloy. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2002, 324, 151-156.	5.6	20
708	Creep properties of an Al-2024 composite reinforced with SiC particulates. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2002, 328, 39-47.	5.6	38
709	Factors influencing the shearing patterns in equal-channel angular pressing. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2002, 332, 97-109.	5.6	226
710	An evaluation of the creep characteristics of an AZ91 magnesium alloy composite using acoustic emission. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2002, 338, 1-7.	5.6	14
711	Influence of scandium and zirconium on grain stability and superplastic ductilities in ultrafine-grained Alâ€“Mg alloys. Acta Materialia, 2002, 50, 553-564.	7.9	319
712	Processing of a low-carbon steel by equal-channel angular pressing. Acta Materialia, 2002, 50, 1359-1368.	7.9	213
713	The use of severe plastic deformation for microstructural control. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2002, 324, 82-89.	5.6	153
714	Grain refinement of pure nickel using equal-channel angular pressing. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2002, 325, 54-58.	5.6	130
715	Characteristics of thermal cycling in a magnesium alloy composite. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2002, 325, 320-323.	5.6	17
716	Characterization of deformation processes in a Zn-22% Al alloy using atomic force microscopy. Journal of Materials Science, 2002, 37, 4993-4998.	3.7	39
717	Creep processes in magnesium alloys and their composites. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2002, 33, 883-889.	2.2	22
718	An evaluation of the flow behavior during high strain rate superplasticity in an Al-Mg-Sc alloy. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2001, 32, 707-716.	2.2	25
719	An evaluation of the flow behavior during high strain rate superplasticity in an Alâ^'Mgâ^'Sc alloy. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2001, 32, 707-716.	2.2	54
720	Influence of magnesium on grain refinement and ductility in a dilute AlÃ¢Â€Â“Sc alloy. Acta Materialia, 2001, 49, 3829-3838.	7.9	125

#	Article	IF	Citations
721	Optimizing the procedure of equal-channel angular pressing for maximum superplasticity. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2001, 297, 111-118.	5.6	132
722	Improving the mechanical properties of magnesium and a magnesium alloy through severe plastic deformation. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2001, 300, 142-147.	5.6	606
723	The potential for scaling ECAP: effect of sample size on grain refinement and mechanical properties. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2001, 318, 34-41.	5.6	222
724	Improvement of mechanical properties for Al alloys using equal-channel angular pressing. Journal of Materials Processing Technology, 2001, 117, 288-292.	6.3	239
725	Developing Ultrafine Grain Sizes Using Severe Plastic Deformation. Advanced Engineering Materials, 2001, 3, 121-125.	3.5	41
726	Strengthening of a commercial Al-5754 alloy using equal-channel angular pressing. Journal of Materials Science Letters, 2001, 20, 1601-1603.	0.5	5
727	Review: Processing of metals by equal-channel angular pressing. Journal of Materials Science, 2001, 36, 2835-2843.	3.7	391
728	Low-temperature superplasticity in a Cuâ€“Znâ€“Sn alloy processed by severe plastic deformation. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2001, 307, 23-28.	5.6	58
729	Deformation heating and its effect on grain size evolution during equal channel angular extrusion. Scripta Materialia, 2001, 44, 135-140.	5.2	57
730	Estimating the equivalent strain in equal-channel angular pressing. Scripta Materialia, 2001, 44, 575-579.	5.2	61
731	Influence of rolling on the superplastic behavior of an Al-Mg-Sc alloy after ECAP. Scripta Materialia, 2001, 44, 759-764.	5.2	118
732	Microhardness and microstructural evolution in pure nickel during high-pressure torsion. Scripta Materialia, 2001, 44, 2753-2758.	5.2	282
733	Achieving superplasticity in a Cuâ€“40%Zn alloy through severe plastic deformation. Scripta Materialia, 2001, 45, 965-970.	5.2	56
734	High Strain Rate Superplasticity in a Zn - 22% Al Alloy after Equal-Channel Angular Pressing. Materials Science Forum, 2001, 357-359, 321-326.	0.3	28
735	Grain boundary structure in Alâ€“Mg and Alâ€“Mgâ€“Sc alloys after equal-channel angular pressing. Journal of Materials Research, 2001, 16, 583-589.	2.6	66
736	Superplasticity of ultrafine-grained Al-3%Mg-0.2%Sc alloy produced by equal-channel angular pressing.. Keikinzoku/Journal of Japan Institute of Light Metals, 2000, 50, 376-380.	0.4	5
737	Achieving superplasticity at high strain rates using equal channel angular pressing. Materials Science and Technology, 2000, 16, 1330-1333.	1.6	11
738	Achieving Superplasticity and Superplastic Forming through Severe Plastic Deformation. Materials Research Society Symposia Proceedings, 2000, 634, 851.	0.1	2

#	Article	IF	Citations
739	Influence of pressing temperature on microstructural development in equal-channel angular pressing. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2000, 287, 100-106.	5.6	200
740	Development of a multi-pass facility for equal-channel angular pressing to high total strains. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2000, 281, 82-87.	5.6	234
741	Superplastic forming at high strain rates after severe plastic deformation. Acta Materialia, 2000, 48, 3633-3640.	7.9	294
742	Identifiying creep mechanisms at low stresses. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2000, 283, 266-273.	5.6	131
743	Using equal-channel angular pressing for refining grain size. Jom, 2000, 52, 30-33.	1.9	199
744	Equal-channel angular pressing of commercial aluminum alloys: Grain refinement, thermal stability and tensile properties. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2000, 31, 691-701.	2.2	408
745	Influence of scandium on superplastic ductilities in an Alâ€“Mgâ€“Sc alloy. Journal of Materials Research, 2000, 15, 2571-2576.	2.6	51
746	Development of fine grained structures using severe plastic deformation. Materials Science and Technology, 2000, 16, 1239-1245.	1.6	116
747	Equal-channel angular pressing of an Al-6061 metal matrix composite. Journal of Materials Science, 2000, 35, 1201-1204.	3.7	53
748	Characteristics of creep deformation in discontinuously reinforced metal matrix composites. Materials Science and Technology, 1999, 15, 357-365.	1.6	11
749	Fabrication and thermal stability of a nanocrystalline Niâ€“Alâ€“Cr alloy: Comparison with pure Cu and Ni. Journal of Materials Research, 1999, 14, 4200-4207.	2.6	51
750	Creep Behavior of Ceramics and Geological Materials at Low Stress Levels. Key Engineering Materials, 1999, 166, 81-86.	0.4	0
751	Influence of stacking fault energy on microstructural development in equal-channel angular pressing. Journal of Materials Research, 1999, 14, 4044-4050.	2.6	172
752	An examination of the flow process in superplastic yttria-stabilized tetragonal zirconia. Acta Materialia, 1999, 47, 2485-2495.	7.9	68
753	A unified interpretation of threshold stresses in the creep and high strain rate superplasticity of metal matrix composites. Acta Materialia, 1999, 47, 3395-3403.	7.9	81
754	An examination of a substructure-invariant model for the creep of metal matrix composites. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 1999, 265, 276-284.	5.6	37
755	Thermal stability of ultrafine-grained aluminum in the presence of Mg and Zr additions. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 1999, 265, 188-196.	5.6	183
756	Developing superplastic properties in an aluminum alloy through severe plastic deformation. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 1999, 272, 63-72.	5.6	101

#	Article	IF	Citations
757	Influence of pressing speed on microstructural development in equal-channel angular pressing. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 1999, 30, 1989-1997.	2.2	144
758	Creep behavior of an AZ91 magnesium alloy reinforced with alumina fibers. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 1999, 30, 2059-2066.	2.2	39
759	Fundamental aspects of creep in metal matrix composites. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 1999, 30, 315-324.	2.2	38
760	Significance of adiabatic heating in equal-channel angular pressing. Scripta Materialia, 1999, 41, 791-796.	5.2	104
761	Metallographic investigation of reinforcement damage in creep of an AZ 91 matrix composite. Materials Letters, 1999, 39, 179-183.	2.6	12
762	A Discussion of Flow Mechanisms in Superplastic Yttria-Stabilized Tetragonal Zirconia. Materials Research Society Symposia Proceedings, 1999, 601, 105.	0.1	0
763	Creep Behavior of a Superplastic Y-TZP/Al2O3 Composite: An Examination of the Possibility for Diffusion Creep. Materials Research Society Symposia Proceedings, 1999, 601, 111.	0.1	1
764	An Examination of the Deformation Process in Equal-Channel Angular Pressing. Materials Research Society Symposia Proceedings, 1999, 601, 347.	0.1	0
765	Superplastic Properties of an Aluminum-Based Alloy After Equal-Channel Angular Pressing. Materials Research Society Symposia Proceedings, 1999, 601, 353.	0.1	0
766	Influence of Equal-Channel Angular Pressing on the Superplastic Properties of Commercial Aluminum Alloys. Materials Research Society Symposia Proceedings, 1999, 601, 359.	0.1	13
767	Processing by Equal-Channel Angular Pressing: Potential for Achieving Superplasticity. Materials Research Society Symposia Proceedings, 1999, 601, 365.	0.1	0
768	Recent Developments in High Strain Rate Superplasticity. Materials Transactions, JIM, 1999, 40, 716-722.	0.9	28
769	An Evaluation of Superplasticity in Aluminum-Scandium Alloys Processed by Equal-Channel Angular Pressing. Materials Transactions, JIM, 1999, 40, 772-778.	0.9	74
770	Creep behavior of a reinforced Al-7005 alloy: Implications for the creep processes in metal matrix composites. Acta Materialia, 1998, 46, 1143-1155.	7.9	74
771	High strain rate superplasticity in an Al-Mg alloy containing scandium. Scripta Materialia, 1998, 38, 1851-1856.	5.2	123
772	Strengthening and grain refinement in an Al-6061 metal matrix composite through intense plastic straining. Scripta Materialia, 1998, 40, 117-122.	5.2	89
773	Equal-channel angular pressing: A novel tool for microstructural control. Metals and Materials International, 1998, 4, 1181-1190.	0.2	83
774	Optimizing the rotation conditions for grain refinement in equal-channel angular pressing. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 1998, 29, 2011-2013.	2.2	221

#	Article	IF	Citations
775	Fabrication of bulk ultrafine-grained materials through intense plastic straining. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 1998, 29, 2237-2243.	2.2	123
776	Microstructural characteristics of ultrafine-grained aluminum produced using equal-channel angular pressing. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 1998, 29, 2245-2252.	2.2	257
777	Age hardening and the potential for superplasticity in a fine-grained Al-Mg-Li-Zr alloy. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 1998, 29, 169-177.	2.2	36
778	Factors influencing the equilibrium grain size in equal-channel angular pressing: Role of Mg additions to aluminum. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 1998, 29, 2503-2510.	2.2	270
779	A comparison of the creep properties of an Al-6092 composite and the unreinforced matrix alloy. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 1998, 29, 2523-2531.	2.2	63
780	Using intense plastic straining for high-strain-rate superplasticity. Jom, 1998, 50, 41-45.	1.9	37
781	Microstructural characteristics and superplastic ductility in a Zn-22% Al alloy with submicrometer grain size. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 1998, 241, 122-128.	5.6	140
782	An examination of the effect of processing procedure on the creep of metal matrix composites. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 1998, 245, 1-9.	5.6	35
783	The characteristics of microcavitation in high strain rate superplasticity. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 1998, 246, 117-123.	5.6	6
784	The shearing characteristics associated with equal-channel angular pressing. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 1998, 257, 328-332.	5.6	885
785	Influence of channel angle on the development of ultrafine grains in equal-channel angular pressing. Acta Materialia, 1998, 46, 1589-1599.	7.9	398
786	The process of grain refinement in equal-channel angular pressing. Acta Materialia, 1998, 46, 3317-3331.	7.9	1,166
787	High strain rate superplasticity in metal matrix composites: the role of load transfer. Acta Materialia, 1998, 46, 3937-3948.	7.9	56
788	Requirements for achieving high-strain-rate superplasticity in cast aluminium alloys. Philosophical Magazine Letters, 1998, 78, 313-316.	1.2	70
789	Observations of grain boundary structure in submicrometer-grained Cu and Ni using high-resolution electron microscopy. Journal of Materials Research, 1998, 13, 446-450.	2.6	150
790	Factors influencing the flow and hardness of materials with ultrafine grain sizes. Philosophical Magazine A: Physics of Condensed Matter, Structure, Defects and Mechanical Properties, 1998, 78, 203-216.	0.6	78
791	Factors influencing the flow and hardness of materials with ultrafine grain sizes. Philosophical Magazine A: Physics of Condensed Matter, Structure, Defects and Mechanical Properties, 1998, 78, 203-215.	0.6	18
792	OBSERVATIONS OF HIGH STRAIN RATE SUPERPLASTICITY IN COMMERCIAL ALUMINUM ALLOYS WITH ULTRAFINE GRAIN SIZES. Scripta Materialia, 1997, 37, 1945-1950.	5.2	294

#	Article	IF	Citations
793	A new miniature mechanical testing procedure: Application to intermetallics. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 1997, 28, 2577-2582.	2.2	7
794	An examination of creep data for an Al-Mg composite. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 1997, 28, 1271-1273.	2.2	22
795	Creep behavior of an aluminum 2024 alloy produced by powder metallurgy. Acta Materialia, 1997, 45, 529-540.	7.9	75
796	An investigation of microstructural evolution during equal-channel angular pressing. Acta Materialia, 1997, 45, 4733-4741.	7.9	778
797	Structural evolution and the Hall-Petch relationship in an Alî—¸Mgî—¸Liî—¸Zr alloy with ultra-fine grain size. Acta Materialia, 1997, 45, 4751-4757.	7.9	153
798	Creep behavior of an Al-6061 metal matrix composite reinforced with alumina particulates. Acta Materialia, 1997, 45, 4797-4806.	7.9	98
799	Characteristics of grain boundary migration and sliding during fatigue of high purity lead. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 1997, 222, 9-13.	5.6	2
800	Creep behavior of an Al-6061 metal matrix composite produced by liquid metallurgy processing. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 1997, 230, 183-187.	5.6	21
801	Process Modeling the Superplastic Forming Behavior of Inconel Alloy 718SPF. , 1997, , .		4
802	A simple technique for the preparation of tensile specimens of yttria-stabilized zirconia. Materials Letters, 1996, 27, 211-214.	2.6	5
803	Principle of equal-channel angular pressing for the processing of ultra-fine grained materials. Scripta Materialia, 1996, 35, 143-146.	5.2	1,683
804	A method of distinguishing between diffusion creep and Harper-Dorn creep at low stress levels. Scripta Materialia, 1996, 35, 733-737.	5.2	27
805	An investigation of grain boundaries in submicrometer-grained Al-Mg solid solution alloys using high-resolution electron microscopy. Journal of Materials Research, 1996, 11, 1880-1890.	2.6	317
806	High-Strain-Rate Superplasticity in Metallic Materials and the Potential for Ceramic Materials.. ISIJ International, 1996, 36, 1423-1438.	1.4	131
807	Miniaturized Double-Shear Testing Procedure for Evaluation of High Temperature Deformation in Al and Al–Mg Solid Solution Alloy. Materials Transactions, JIM, 1996, 37, 349-352.	0.9	0
808	Significance of Microstructural Control for Superplastic Deformation and Forming. Materials Transactions, JIM, 1996, 37, 336-339.	0.9	82
809	Transitions in Creep Behavior. Materials Transactions, JIM, 1996, 37, 359-362.	0.9	19
810	An evaluation of the creep properties of two Al-Si alloys produced by rapid solidification processing. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 1996, 27, 3871-3879.	2.2	18

#	Article	IF	Citations
811	The characteristics of cavitation in superplastic metals and ceramics. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 1996, 27, 873-878.	2.2	14
812	The inter-relationship between grain boundary sliding and cavitation during creep of polycrystalline copper. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 1996, 27, 901-907.	2.2	25
813	A model study of cavity growth in superplasticity using single premachined holes. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 1996, 27, 2532-2539.	2.2	10
814	Microstructural characteristics of an ultrafine grain metal processed with equal-channel angular pressing. Materials Characterization, 1996, 37, 277-283.	4.4	36
815	Evolution of grain boundary structure in submicrometer-grained Al-Mg alloy. Materials Characterization, 1996, 37, 285-294.	4.4	30
816	The development of cavitation in superplastic aluminum composites reinforced with Si3N4. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 1996, 208, 116-121.	5.6	21
817	Low stress creep behavior: An examination of Nabarroâ€"Herring and Harperâ€"Dorn creep. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 1996, 216, 20-29.	5.6	38
818	Enhanced grain growth in an Al-Mg alloy with ultrafine grain size. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 1996, 216, 41-46.	5.6	88
819	Significance of continuous precipitation during creep of a powder mettallurgy aluminum alloy. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 1996, 216, 161-168.	5.6	20
820	An investigation of microstructural stability in an AlMg alloy with submicrometer grain size. Acta Materialia, 1996, 44, 2973-2982.	7.9	301
821	Microhardness measurements and the Hall-Petch relationship in an Alî—¸Mg alloy with submicrometer grain size. Acta Materialia, 1996, 44, 4619-4629.	7.9	435
822	An examination of creep behaviour at low stresses in non-metallic materials. Journal of Materials Science Letters, 1996, 15, 1664-1666.	0.5	7
823	Fracture behaviour at elevated temperatures of alumina matrix composites reinforced with silicon carbide whiskers. Journal of Materials Science, 1996, 31, 5487-5492.	3.7	3
824	A quantitative analysis of cavitation in Alâ€"Cuâ€"Mg metal matrix composites exhibiting high strain rate superplasticity. Journal of Materials Research, 1996, 11, 1755-1764.	2.6	29
825	The Variation of Strain Rate with Stress in Superplastic Zirconia. Materials Science Forum, 1996, 243-245, 357-362.	0.3	13
826	Fabrication of submicrometer-grained Znâ€"22% Al by torsion straining. Journal of Materials Research, 1996, 11, 2128-2130.	2.6	52
827	An Investigation of the Role of Processing in the High Temperature Creep of Whisker-Reinforced Alumina Composites. Materials and Manufacturing Processes, 1996, 11, 589-604.	4.7	0
828	Examination of fracture surfaces of SiC whisker-reinforced alumina after high temperature creep deformation. Journal of Materials Science Letters, 1995, 14, 188-189.	0.5	2

#	Article	IF	Citations
829	Influence of whisker volume fraction on the creep behavior of alumina composites reinforced with silicon carbide. Journal of Materials Research, 1995, 10, 2925-2932.	2.6	5
830	Microstructural examination of a superplastic yttria-stabilized zirconia: Implications for the superplasticity mechanism. Acta Metallurgica Et Materialia, 1995, 43, 1211-1218.	1.8	57
831	High temperature deformation of an alumina composite reinforced with silicon carbide whiskers. Acta Metallurgica Et Materialia, 1995, 43, 1421-1427.	1.8	12
832	Yield stress measurements on an Al-1.5% Mg alloy with submicron grain size using a miniature bending procedure. Materials Letters, 1995, 23, 283-287.	2.6	10
833	Processing and superplastic properties of fine grained Si₃N₄/Alâ€“Mgâ€“Si composites. Materials Science and Technology, 1995, 11, 1295-1300.	1.6	15
834	A quantitative measure of internal cavitation in superplastic alloys using photoacoustic analysis. Journal of Materials Research, 1994, 9, 2238-2243.	2.6	3
835	An investigation of grain rotation and grain elongation in a superplastic alloy. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 1994, 187, 161-165.	5.6	14
836	An evaluation of the strain contributed by grain boundary sliding in superplasticity. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 1994, 174, 225-230.	5.6	244
837	Factors Influencing the Exceptional Ductility of a Superplastic Pb-62 pct Sn alloy. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 1994, 25, 2309-2311.	2.2	41
838	Evidence for Anelastic Creep Recovery in Silicon Carbide-Whisker-Reinforced Alumina. Journal of the American Ceramic Society, 1994, 77, 1679-1681.	3.8	17
839	A critical assessment of flow and cavity formation in a superplastic yttria-stabilized zirconia. Acta Metallurgica Et Materialia, 1994, 42, 2753-2761.	1.8	59
840	An investigation of the role of a liquid phase in Alî—¸Cuî—¸Mg metal matrix composites exhibiting high strain rate superplasticity. Acta Metallurgica Et Materialia, 1994, 42, 1739-1745.	1.8	117
841	A unified approach to grain boundary sliding in creep and superplasticity. Acta Metallurgica Et Materialia, 1994, 42, 2437-2443.	1.8	499
842	An evaluation of the rate-controlling flow process in Harper-Dorn creep. Acta Metallurgica Et Materialia, 1994, 42, 2487-2492.	1.8	35
843	Mechanical properties and microstructure of 6061 aluminum alloy matrix composite reinforced with alumina microspheres.. Keikinzoku/Journal of Japan Institute of Light Metals, 1994, 44, 286-291.	0.4	1
844	Superplastic-like flow in ceramics: Recent developments and potentials applications. Ceramics International, 1993, 19, 279-286.	4.8	10
845	The role of grain boundaries in high temperature deformation. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 1993, 166, 67-79.	5.6	67
846	Future research directions for interface engineering in high temperature plasticity. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 1993, 166, 237-241.	5.6	17

#	Article	IF	Citations
847	An examination of the implications of void growth in submicrometer and nanocrystalline structures. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 1993, 168, 225-230.	5.6	23
848	An investigation of the role of intragranular dislocation strain in the superplastic Pb-62% Sn eutectic alloy. Acta Metallurgica Et Materialia, 1993, 41, 949-954.	1.8	150
849	Observations on the use of a fractal model to predict superplastic ductility. Scripta Metallurgica Et Materialia, 1993, 28, 241-246.	1.0	3
850	An investigation of ductility and microstructural evolution in an Alâ^'3% Mg alloy with submicron grain size. Journal of Materials Research, 1993, 8, 2810-2818.	2.6	199
851	Structural Evolution and Deformation in an Aluminum-Based Solid Solution Alloy with Submicron Grain Size. Materials Research Society Symposia Proceedings, 1993, 319, 293.	0.1	1
852	Observations on diffusional cavity growth in superplastic materials. Scripta Metallurgica Et Materialia, 1992, 26, 1239-1244.	1.0	5
853	A first report on the use of a non-destructive technique to investigate cavitation in a superplastic aluminum alloy. Scripta Metallurgica Et Materialia, 1992, 26, 423-428.	1.0	7
854	An examination of the metals deforming by Harper-Dorn creep at high homologous temperatures. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 1992, 151, 147-151.	5.6	16
855	The Significance of Diffusion Creep in Simple and Multicomponent Ceramics. Defect and Diffusion Forum, 1991, 75, 89-106.	0.4	3
856	Creep behavior of copper at intermediate temperaturesâ€"III. A comparison with theory. Acta Metallurgica Et Materialia, 1991, 39, 1823-1832.	1.8	24
857	Creep behavior of copper at intermediate temperaturesâ€"II. Surface microstructural observations. Acta Metallurgica Et Materialia, 1991, 39, 1817-1822.	1.8	17
858	A New Analytical Procedure for the Identification of High Temperature Deformation Mechanisms Using the Strain Rate Change Test. Materials Transactions, JIM, 1991, 32, 339-344.	0.9	0
859	The physics of superplastic deformation. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 1991, 137, 1-11.	5.6	136
860	Characteristics of creep deformation in ceramics. Materials Science and Technology, 1991, 7, 577-584.	1.6	73
861	A Re-Appraisal of Cavity Growth Processes in Superplasticity. Materials Research Society Symposia Proceedings, 1990, 196, 39.	0.1	4
862	A Quantitative Study of Cavity Evolution in An Al-Cu-Zr Alloy. Materials Research Society Symposia Proceedings, 1990, 196, 215.	0.1	0
863	An Investigation of the Mechanical Behavior of a Superplastic Yttria-Stabilized Zirconia. Materials Research Society Symposia Proceedings, 1990, 196, 325.	0.1	4
864	Superplasticity in ceramics. Journal of Materials Science, 1990, 25, 2275-2286.	3.7	132

#	Article	IF	Citations
865	Superplasticity of steels and ferrous alloys. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 1990, 128, 1-13.	5.6	37
866	The nucleation and growth of cavities in a superplastic quasi-single phase copper alloy. Acta Metallurgica Et Materialia, 1990, 38, 867-877.	1.8	46
867	Cyclic grain boundary migration and sliding in pure aluminum. Acta Metallurgica Et Materialia, 1990, 38, 497-507.	1.8	4
868	The influence of rolling direction on the mechanical behavior and formation of cavity stringers in the superplastic Zn-22% Al alloy. Acta Metallurgica, 1989, 37, 715-723.	2.1	53
869	Creep behavior of copper at intermediate temperaturesâ€"I. Mechanical characteristics. Acta Metallurgica, 1989, 37, 843-852.	2.1	113
870	A determination of the structural dependence of cyclic migration in polycrystalline aluminum using electron channeling pattern analysis. Acta Metallurgica, 1989, 37, 705-714.	2.1	18
871	An examination of cyclic grain boundary migration and cavitation in an Al-3% Mg solid solution alloy. Acta Metallurgica, 1989, 37, 725-737.	2.1	13
872	Superplasticity in Alâ€“33Cu eutectic alloy in as extruded condition. Materials Science and Technology, 1989, 5, 435-442.	1.6	5
873	Creep of ceramics. Journal of Materials Science, 1988, 23, 1-20.	3.7	248
874	An investigation of grain boundary sliding in superplasticity at high elongations. Journal of Materials Science, 1988, 23, 2712-2722.	3.7	86
875	The mechanical properties of the superplastic Al- 33 Pct Cu eutectic alloy. Metallurgical and Materials Transactions A - Physical Metallurgy and Materials Science, 1988, 19, 2487-2496.	1.4	30
876	Principles of superplastic diffusion bonding. Materials Science and Technology, 1988, 4, 669-674.	1.6	26
877	The Mechanical Properties at High Temperatures of SiC Whisker-Reinforced Alumina. Materials Research Society Symposia Proceedings, 1988, 120, 265.	0.1	12
878	The activation energy for superplastic deformation in the Al-33% Cu eutectic alloy. Scripta Metallurgica, 1987, 21, 1669-1673.	1.2	12
879	A model for diffusional cavity growth in superplasticity. Acta Metallurgica, 1987, 35, 1089-1101.	2.1	121
880	The role of matrix dislocations in the superplastic deformation of a copper alloy. Acta Metallurgica, 1986, 34, 1203-1214.	2.1	67
881	High Temperature Creep of Al-Mg Alloys. , 1985, , 797-802.		10
882	The deviation from creep by viscous glide in solid solution alloys at high stressesâ€"I. Characteristics of the dragging stress. Acta Metallurgica, 1984, 32, 1991-1999.	2.1	51

#	Article	IF	Citations
883	Cyclic grain boundary migration during high temperature fatigueâ€"II. Measurements of grain boundary sliding. Acta Metallurgica, 1983, 31, 939-946.	2.1	16
884	Cavitation in high purity aluminium during fatigue at elevated temperatures. Journal of Materials Science Letters, 1983, 2, 522-524.	0.5	13
885	Ductility of the superplastic Pb-Sn eutectic at room temperature. Journal of Materials Science Letters, 1983, 2, 59-62.	0.5	28
886	The effect of grain size on ductility in the superplastic Pb-Sn eutectic. Journal of Materials Science Letters, 1983, 2, 337-340.	0.5	14
887	Observations of cyclic grain boundary migration in aluminium after large numbers of fatigue cycles. Journal of Materials Science Letters, 1983, 2, 180-182.	0.5	12
888	Grain boundary sliding at high temperatures in torsional fatigue. Journal of Materials Science Letters, 1983, 2, 25-27.	0.5	8
889	Creep of ceramics. Journal of Materials Science, 1983, 18, 1-50.	3.7	354
890	Cyclic grain boundary migration during high temperature fatigueâ€"I. Microstructural observations. Acta Metallurgica, 1983, 31, 927-938.	2.1	40
891	An examination of grain boundary migration during high temperature fatigue of aluminumâ€"I. Microstructural observations. Acta Metallurgica, 1983, 31, 1595-1603.	2.1	29
892	An examination of grain boundary migration during high temperature fatigue of aluminumâ€"II. Measurements of migration. Acta Metallurgica, 1983, 31, 1605-1610.	2.1	9
893	A detailed appraisal of steady state flow data for the superplastic Zn-22% Al Alloy. Materials Science and Engineering, 1983, 57, 55-65.	0.1	14
894	Simple reverse bending machine for low cycle fatigue at elevated temperatures. Review of Scientific Instruments, 1983, 54, 353-356.	1.3	11
895	On the possibility of Harper-Dorn creep in non-metallic crystals. Philosophical Magazine A: Physics of Condensed Matter, Structure, Defects and Mechanical Properties, 1983, 47, L29-L33.	0.6	33
896	Fracture processes in superplastic flow. Metal Science, 1982, 16, 175-183.	0.7	129
897	The mechanical properties of superplastic materials. Metallurgical and Materials Transactions A - Physical Metallurgy and Materials Science, 1982, 13, 689-701.	1.4	404
898	Deformation mechanisms in h.c.p. metals at elevated temperaturesâ€"II. Creep behavior of a Mg-0.8% Al solid solution alloy. Acta Metallurgica, 1982, 30, 1157-1170.	2.1	221
899	An investigation of harper-dorn creepâ€"I. Mechanical and microstructural characteristics. Acta Metallurgica, 1982, 30, 871-879.	2.1	93
900	An evaluation of the roles of intercrystalline and interphase boundary sliding in two-phase superplastic alloys. Acta Metallurgica, 1982, 30, 285-296.	2.1	107

#	Article	IF	Citations
901	An investigation of Harper-Dorn creepâ€"II. The flow process. Acta Metallurgica, 1982, 30, 881-887.	2.1	71
902	An examination of the breakdown in creep by viscous glide in solid solution alloys at high stress levels. Acta Metallurgica, 1982, 30, 2181-2196.	2.1	265
903	Deformation of Olivine, and the Application to Lunar and Planetary Interiors. , 1982, , 757-762.		5
904	A Constant Stress Tensile Creep Machine for Very Low Stresses. Journal of Testing and Evaluation, 1982, 10, 174-178.	0.7	6
905	Observations on the differences reported in region I for the superplastic Zn-22% Al eutectoid. Scripta Metallurgica, 1981, 15, 229-236.	1.2	25
906	Deformation mechanisms in h.c.p. metals at elevated temperaturesâ€"I. Creep behavior of magnesium. Acta Metallurgica, 1981, 29, 1969-1982.	2.1	277
907	Flow localization and neck formation in a superplastic metal. Acta Metallurgica, 1981, 29, 911-920.	2.1	57
908	Creep and substructure formation in an Al-5% Mg solid solution alloy. Acta Metallurgica, 1981, 29, 1495-1507.	2.1	199
909	Observations on the magnitude of grain boundary sliding in Region 1 of superplasticity. Journal of Materials Science, 1981, 16, 2613-2616.	3.7	29
910	Cavitation in a Superplastic Al–Zn–Mg Alloy. Transactions of the Japan Institute of Metals, 1980, 21, 123-126.	0.5	36
911	Deformation mechanism maps for applications at high temperatures. Ceramurgia International, 1980, 6, 11-18.	0.3	10
912	An investigation of intercrystalline and interphase boundary sliding in the superplastic Pb-62% Sn eutectic. Acta Metallurgica, 1979, 27, 251-257.	2.1	129
913	An analysis of cavitation failure incorporating cavity nucleation with strain. Materials Science and Engineering, 1979, 40, 159-166.	0.1	16
914	Further comments on theories of structural superplasticity. Materials Science and Engineering, 1979, 40, 293-295.	0.1	10
915	Neck formation and cavitation in the superplastic Zn-22% Al eutectoid. Journal of Materials Science, 1979, 14, 2913-2918.	3.7	56
916	Creep fracture maps for 316 stainless steel. Metallurgical and Materials Transactions A - Physical Metallurgy and Materials Science, 1979, 10, 1635-1641.	1.4	43
917	An analysis of cavity growth during superplasticity. Metallurgical and Materials Transactions A - Physical Metallurgy and Materials Science, 1979, 10, 1869-1874.	1.4	62
918	A Microscopic Examination Of Void Formation In Superplastic Materials. Journal of Microscopy, 1979, 116, 47-54.	1.8	8

#	Article	IF	Citations
919	The incorporation of ambipolar diffusion in deformation mechanism maps for ceramics. Journal of Materials Science, 1978, 13, 473-482.	3.7	37
920	A new type of deformation mechanism map for high-temperature creep. Materials Science and Engineering, 1978, 32, 103-112.	0.1	95
921	Comments on theories of structural superplasticity. Materials Science and Engineering, 1978, 36, 27-33.	0.1	42
922	Evidence for cavitation in superplastic Zn-22 pct Ai of very high purity. Metallurgical and Materials Transactions A - Physical Metallurgy and Materials Science, 1978, 9, 1688-1690.	1.4	39
923	The mechanical properties of a superplastic quasi-single phase copper alloy. Acta Metallurgica, 1978, 26, 639-646.	2.1	63
924	The activation energies for plastic flow in a superplastic copper alloy. Acta Metallurgica, 1978, 26, 1153-1158.	2.1	25
925	The activation energies for superplasticity. Scripta Metallurgica, 1977, 11, 575-579.	1.2	33
926	The relationship between strain rate sensitivity and ductility in superplastic materials. Scripta Metallurgica, 1977, 11, 997-1000.	1.2	31
927	Exceptional ductility in the superplastic Pb-62 Pct Sn eutectic. Metallurgical and Materials Transactions A - Physical Metallurgy and Materials Science, 1977, 8, 1832-1833.	1.4	80
928	Factors influencing ductility in the superplastic Zn-22 Pct Al eutectoid. Metallurgical and Materials Transactions A - Physical Metallurgy and Materials Science, 1977, 8, 933-938.	1.4	196
929	Evidence for cavitation in the superplastic Zn-22 Pct Al eutectoid. Metallurgical and Materials Transactions A - Physical Metallurgy and Materials Science, 1977, 8, 523-525.	1.4	75
930	Deformation mechanism maps for superplastic materials. Scripta Metallurgica, 1976, 10, 759-762.	1.2	109
931	Structural ceramics. Progress in Materials Science, 1976, 21, 171-285.	32.8	107
932	Discussion: â€œA Constitutive Equation for High-Temperature Flowâ€•(Paton, N., 1975, ASME J. Eng. Mater.) Tj ETQq0 0 0 rgBT /Overloc 1976, 98, 190-190.	1.4	0
933	The determination of the activation energy for superplastic flow. Physica Status Solidi A, 1976, 33, 375-381.	1.7	42
934	Structural ceramics. Progress in Materials Science, 1976, 21, 171-425.	32.8	152
935	Deformation Mechanism Maps: Their Use in Predicting Creep Behavior. Journal of Engineering Materials and Technology, Transactions of the ASME, 1976, 98, 125-130.	1.4	17
936	Closure to â€œDiscussion of â€˜Deformation Mechanism Maps: Their Use in Predicting Creep Behaviorâ€™â€• (1976, ASME J. Eng. Mater. Technol., 98, p. 130). Journal of Engineering Materials and Technology, Transactions of the ASME, 1976, 98, 130-131.	1.4	0

#	Article	IF	Citations
937	Grain-Boundary Sliding and Axial Strain during Diffusional Creep. Metal Science, 1975, 9, 141-144.	0.7	21
938	Creep at low stress levels in the superplastic Zn-22% Al eutectoid. Acta Metallurgica, 1975, 23, 117-124.	2.1	166
939	The activation energies associated with superplastic flow. Acta Metallurgica, 1975, 23, 1443-1450.	2.1	141
940	Grain-Boundary Sliding During Creep of MgO. Journal of the American Ceramic Society, 1975, 58, 92-93.	3.8	20
941	The influence of strain rate on ductility in the superplastic Znâ€“22% Al eutectoid. Philosophical Magazine and Journal, 1975, 32, 1269-1271.	1.7	113
942	Creep behaviour in the superplastic Pbâ€“62% Sn eutectic. Philosophical Magazine and Journal, 1975, 32, 697-709.	1.7	149
943	Deformation mechanism maps for solid solution alloys. Scripta Metallurgica, 1975, 9, 137-140.	1.2	24
944	Method of estimating stackingâ€fault energies in alkali halide crystals using creep data. Journal of Applied Physics, 1974, 45, 1965-1967.	2.5	53
945	Evidence for Coble creep in the relaxation of surfaceâ€compressive stresses in tempered polycrystalline aluminum oxide. Journal of Applied Physics, 1974, 45, 3729-3731.	2.5	9
946	The transition from dislocation climb to viscous glide in creep of solid solution alloys. Acta Metallurgica, 1974, 22, 779-788.	2.1	472
947	The portevin-le chatelier effect in Cu3Au. Acta Metallurgica, 1974, 22, 325-332.	2.1	39
948	Deformation mechanism maps based on grain size. Metallurgical and Materials Transactions A - Physical Metallurgy and Materials Science, 1974, 5, 2339-2345.	1.4	249
949	Low-temperature deformation and dislocation mobility in pure and Mg-doped LiF crystals. Philosophical Magazine and Journal, 1974, 30, 145-160.	1.7	36
950	The significance of grain boundaries in high-temperature creep. Canadian Metallurgical Quarterly, 1974, 13, 223-228.	1.2	9
951	The planar distribution of grain size in a polycrystalline ceramic. Metallography, 1973, 6, 9-15.	0.4	10
952	The strain dependence of vacancy creation and dislocation density during serrated yielding. Scripta Metallurgica, 1973, 7, 1199-1203.	1.2	7
953	Activation Energies for Creep of Pyrolytic and Glassy Carbon. Nature: Physical Science, 1972, 236, 60-60.	0.8	6
954	Grain-Boundary Sliding in Ceramics. Journal of the American Ceramic Society, 1972, 55, 430-430.	3.8	9

#	Article	IF	Citations
955	Dependence of Creep Rate on Porosity. Journal of the American Ceramic Society, 1972, 55, 630-631.	3.8	35
956	The effect of surface configuration on grain boundary sliding. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 1972, 3, 797-801.	2.1	98
957	Effect of Microstructure on Deformation of Polycrystalline MgO. Journal of the American Ceramic Society, 1971, 54, 240-246.	3.8	25
958	The significance of grain boundary dislocations in mechanical behavior. Materials Science and Engineering, 1971, 7, 117-118.	0.1	8
959	Creep mechanisms in stoichiometric uranium dioxide. Journal of Nuclear Materials, 1971, 38, 88-92.	2.7	16
960	The mechanism of creep in polycrystalline magnesium oxide. Acta Metallurgica, 1970, 18, 505-510.	2.1	62
961	On the nature of superplastic deformation in the Mgî—Al eutectic. Scripta Metallurgica, 1970, 4, 337-339.	1.2	3
962	Grain boundary displacements due to diffusional creep. Scripta Metallurgica, 1970, 4, 563-566.	1.2	34
963	The variation in secondary creep rate at large grain sizes. Scripta Metallurgica, 1970, 4, 693-695.	1.2	18
964	Grain boundary sliding as a deformation mechanism during creep. Philosophical Magazine and Journal, 1970, 22, 689-700.	1.7	288
965	The distribution of grain diameters in polycrystalline magnesium oxide. Metallography, 1969, 1, 333-340.	0.4	47
966	The shape of grains in a polycrystal. Metallography, 1969, 2, 171-178.	0.4	61
967	The dependence of grain-boundary sliding on shear stress. Journal of Materials Science, 1968, 3, 306-313.	3.7	44
968	Creep of polycrystalline lithium fluoride. Philosophical Magazine and Journal, 1968, 18, 1181-1192.	1.7	48
969	Low temperature dislocation mechanisms in ordered and disordered Cu₃Au. Philosophical Magazine and Journal, 1968, 17, 999-1015.	1.7	16
970	Thinning of Polycrystalline MgO for Transmission Electron Microscopy. Review of Scientific Instruments, 1967, 38, 125-127.	1.3	4
971	An investigation of grain-boundary sliding during creep. Journal of Materials Science, 1967, 2, 313-323.	3.7	123
972	A method of printing grids on to metal surfaces for deformation studies. Journal of Scientific Instruments, 1965, 42, 896-896.	0.5	6

#	Article	IF	Citations
973	Superplastic Behavior in Ultrafine-Grained Materials Produced by Equal-Channel Angular Pressing. Materials Science Forum, 0, 579, 29-40.	0.3	3
974	Effect of Pre-Aging on the Microstructure and Strength of Supersaturated AlZnMg Alloys Processed by ECAP. Materials Science Forum, 0, 584-586, 501-506.	0.3	4
975	Factors Influencing Ductility in Ultrafine-Grained Metals Processed by Equal-Channel Angular Pressing. Materials Science Forum, 0, 633-634, 341-352.	0.3	2
976	Processing Age-Hardenable Alloys by Equal-Channel Angular Pressing at Room Temperature: Strategies and Advantages. Materials Science Forum, 0, 633-634, 527-534.	0.3	3
977	The Effect of Grain Boundary Sliding and Strain Rate Sensitivity on the Ductility of Ultrafine-Grained Materials. Materials Science Forum, 0, 667-669, 677-682.	0.3	17
978	Microstructural Evolution in an Al-6061 Alloy Processed by High-Pressure Torsion and Rapid Annealing. Materials Science Forum, 0, 667-669, 223-228.	0.3	5
979	Wear Behaviour of Al-1050 Alloy Processed by Severe Plastic Deformation. Materials Science Forum, 0, 667-669, 1101-1106.	0.3	12
980	Characteristics of High Temperature Creep in Pure Aluminum Processed by Equal-Channel Angular Pressing. Materials Science Forum, 0, 638-642, 1965-1970.	0.3	7
981	Seventy-Five Years of Superplastic Research: An Overall Perspective for the Superplasticity Conferences. Key Engineering Materials, 0, 433, 3-8.	0.4	3
982	Stability of Ultrafine-Grained Microstructure in Fcc Metals Processed by Severe Plastic Deformation. Key Engineering Materials, 0, 465, 195-198.	0.4	14
983	Developing Hardness and Microstructural Homogeneity in High-Pressure Torsion. Materials Science Forum, 0, 706-709, 1805-1810.	0.3	0
984	Evaluating the Flow Properties of Ultrafine-Grained Materials. Advanced Materials Research, 0, 829, 3-9.	0.3	1
985	Analysis of Plastic Deformation and Sample Geometry during the Compression Stage in High-Pressure Torsion. Advanced Materials Research, 0, 922, 592-597.	0.3	3
986	Mechanical Properties of ZK60 Magnesium Alloy Processed by High-Pressure Torsion. Advanced Materials Research, 0, 922, 767-772.	0.3	15
987	An Investigation of Mechanical Properties and Microstructural Evolution in an Aluminum Alloy Processed by Severe Plastic Deformation. Advanced Materials Research, 0, 922, 610-615.	0.3	3
988	Microstructure Development and Superplasticity in a Zn-22% Al Eutectoid Alloy Processed by Severe Plastic Deformation. Materials Science Forum, 0, 783-786, 2647-2652.	0.3	3
989	An Investigation of Hardness Homogeneity and Microstructure in Pure Titanium Processed by High Pressure Torsion. Materials Science Forum, 0, 783-786, 2701-2706.	0.3	10
990	Factors Influencing the Shearing Patterns in High-Pressure Torsion. Materials Science Forum, 0, 783-786, 45-50.	0.3	2

#	Article	IF	Citations
991	Processing Different Magnesium Alloys through HPT. Materials Science Forum, 0, 783-786, 2617-2622.	0.3	4
992	Development of Homogeneity in an Al-6061 Alloy Processed by ECAP and ECAP-Conform. Materials Science Forum, 0, 783-786, 294-299.	0.3	1
993	The Flow Behavior of Ultrafine-Grained Materials. Advanced Materials Research, 0, 1013, 7-14.	0.3	0
994	Micro-Tensile Behavior at a High Temperature in an AZ31 Magnesium Alloy Processed by ECAP. Materials Science Forum, 0, 783-786, 2726-2731.	0.3	4
995	Microstructural Evolution and Grain Refinement in a Cu-Zr Alloy Processed by High-Pressure Torsion. Materials Science Forum, 0, 783-786, 2635-2640.	0.3	8
996	Influence of Initial Heat Treatment on the Microhardness Evolution of an Al-Mg-Sc Alloy Processed by High-Pressure Torsion. Materials Science Forum, 0, 879, 1471-1476.	0.3	4
997	Evolution of Microstructure, Phase Composition and Hardness in 316L Stainless Steel Processed by High-Pressure Torsion. Materials Science Forum, 0, 879, 502-507.	0.3	6
998	Resolving the Strength-Ductility Paradox through Severe Plastic Deformation of a Cast Al-7% Si Alloy. Materials Science Forum, 0, 879, 1043-1048.	0.3	1
999	Forty-Five Years of Superplastic Research: Recent Developments and Future Prospects. Materials Science Forum, 0, 838-839, 3-12.	0.3	13
1000	The Influence of Plastic Deformation on Lattice Defect Structure and Mechanical Properties of 316L Austenitic Stainless Steel. Materials Science Forum, 0, 885, 13-18.	0.3	4
1001	Investigation of Lattice Defects in a Plastically Deformed High-Entropy Alloy. Materials Science Forum, 0, 885, 74-79.	0.3	5
1002	Developing Superplasticity in High-Entropy Alloys Processed by Severe Plastic Deformation. Materials Science Forum, 0, 941, 1059-1064.	0.3	5
1003	Low Temperature Superplasticity in Ultrafine-Grained AZ31 Alloy. Defect and Diffusion Forum, 0, 385, 59-64.	0.4	6
1004	Superplastic Flow and Micro-Mechanical Response of Ultrafine-Grained Materials. Defect and Diffusion Forum, 0, 385, 9-14.	0.4	3
1005	Effect of Different Initial Lamellar Plate Thicknesses on Grain Refinement and Superplastic Behaviour in HPT-Processed Ti-6Al-4V Alloy. Defect and Diffusion Forum, 0, 385, 182-188.	0.4	0
1006	Influence of Inhomogeneity on Mechanical Properties of Commercially Pure Titanium Processed by HPT. Defect and Diffusion Forum, 0, 385, 284-289.	0.4	3
1007	The Background to Superplastic Forming and Opportunities Arising from New Developments. Solid State Phenomena, 0, 306, 1-8.	0.3	9
1008	Achieving Superplasticity in Fine-Grained Al-Mg-Sc Alloys. Materials Science Forum, 0, 1016, 11-17.	0.3	1

#	Article	IF	Citations
1009	Recent Developments in the Processing of Advanced Materials Using Severe Plastic Deformation. Materials Science Forum, 0, 1016, 3-8.	0.3	1
1010	Thermal Stability of Ultrafine-Grained Pure Titanium Processed by High-Pressure Torsion. Materials Science Forum, 0, 1016, 338-344.	0.3	2
1011	The Influence of HPT on Microstructure and Wear Resistance of Al-7wt%Si-2wt%Fe Alloy. Materials Science Forum, 0, 1016, 1618-1623.	0.3	0
1012	Hardness Development of Mechanically-Bonded Hybrid Nanostructured Alloys through High-Pressure Torsion. Materials Science Forum, 0, 1016, 177-182.	0.3	1