

Terence G Langdon

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

1,019
papers

59,115
citations

116
h-index

205
g-index

1,039
ext. papers

63,534
ext. citations

4.2
avg, IF

8.17
L-index

#	Paper	IF	Citations
1019	Using Plane Strain Compression Test to Evaluate the Mechanical Behavior of Magnesium Processed by HPT. <i>Metals</i> , 2022 , 12, 125	2.3	2
1018	Effect of creep parameters on the steady-state flow stress of pure metals processed by high-pressure torsion. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2022 , 835, 142666	5.3	2
1017	Exploiting tube high-pressure shearing to prepare a microstructure in Pb-Sn alloys for unprecedented superplasticity. <i>Scripta Materialia</i> , 2022 , 209, 114390	5.6	1
1016	Texture evolution in high-pressure torsion processing. <i>Progress in Materials Science</i> , 2022 , 125, 100886	42.2	6
1015	Microstructure and mechanical properties of an Fe-Mn-Al lightweight steel after dynamic plastic deformation processing and subsequent aging. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2022 , 833, 142566	5.3	0
1014	Fabrication of hybrid nanocrystalline Al-Mg alloys by mechanical bonding through high-pressure torsion. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2022 , 833, 142549	5.3	3
1013	Effect of grain size on strength and strain rate sensitivity in metals. <i>Journal of Materials Science</i> , 2022 , 57, 5210-5229	4.3	3
1012	Nanomaterials by severe plastic deformation: review of historical developments and recent advances. <i>Materials Research Letters</i> , 2022 , 10, 163-256	7.4	26
1011	Achieving an excellent combination of strength and plasticity in a low carbon steel through dynamic plastic deformation and subsequent annealing. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2022 , 842, 143051	5.3	0
1010	Relationship between strength and uniform elongation of metals based on an exponential hardening law. <i>Acta Materialia</i> , 2022 , 231, 117866	8.4	1
1009	A general physics-based hardening law for single phase metals. <i>Acta Materialia</i> , 2022 , 231, 117877	8.4	1
1008	Examining the effect of the aging state on strength and plasticity of wrought aluminum alloys. <i>Journal of Materials Science and Technology</i> , 2022 , 122, 54-67	9.1	2
1007	Formation of ultrafine grains and twins in the β phase during superplastic deformation of two-phase brasses. <i>Scripta Materialia</i> , 2022 , 218, 114804	5.6	1
1006	Study on the Surface Modification of Nanostructured Ti Alloys and Coarse-Grained Ti Alloys. <i>Metals</i> , 2022 , 12, 948	2.3	0
1005	Creep behavior of metals processed by equal-channel angular pressing. <i>Metallic Materials</i> , 2021 , 49, 75-83		9
1004	Effect of crystallographic texture and twinning on the corrosion behavior of Mg alloys: A review. <i>Journal of Magnesium and Alloys</i> , 2021 ,	8.8	4
1003	Microstructural Evolution and Tensile Testing of a Bi-Sn (57/43) Alloy Processed by Tube High-Pressure Shearing. <i>Crystals</i> , 2021 , 11, 1229	2.3	1

1002	In situ TEM observations of thickness effect on grain growth in pure titanium thin films. <i>Materials Characterization</i> , 2021 , 173, 110929	3.9	1
1001	An examination of microstructural evolution and homogeneity in a magnesium AZ80 alloy processed by high-pressure torsion. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2021 , 806, 140832	5.3	7
1000	Abnormal grain growth in a Zn-0.8Ag alloy after processing by high-pressure torsion. <i>Acta Materialia</i> , 2021 , 207, 116667	8.4	11
999	Advanced Materials for Mechanical Engineering: Ultrafine-Grained Alloys with Multilayer Coatings. <i>Advanced Engineering Materials</i> , 2021 , 23, 2100145	3.5	6
998	Micro-mechanical response of ultrafine grain and nanocrystalline tantalum. <i>Journal of Materials Research and Technology</i> , 2021 , 12, 1804-1815	5.5	3
997	Evidence for a phase transition in an AlCrFe ₂ Ni ₂ high entropy alloy processed by high-pressure torsion. <i>Journal of Alloys and Compounds</i> , 2021 , 867, 159063	5.7	5
996	Using high-pressure torsion to fabricate an AlTi hybrid system with exceptional mechanical properties. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2021 , 799, 140114	5.3	7
995	Evaluating the paradox of strength and ductility in ultrafine-grained oxygen-free copper processed by ECAP at room temperature. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2021 , 802, 140546	5.3	9
994	Phase evolution and mechanical properties of an intercritically-annealed Fe ₇₀ Ni ₁₀ Mn (wt. %) martensitic steel severely deformed by high-pressure torsion. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2021 , 804, 140519	5.3	3
993	The effect of high-pressure torsion on the microstructure and outstanding pseudoelasticity of a ternary Fe ₇₀ Ni ₁₀ Mn shape memory alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2021 , 802, 140647	5.3	2
992	An examination of microstructural evolution in a PbSn eutectic alloy processed by high-pressure torsion and subsequent self-annealing. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2021 , 802, 140653	5.3	3
991	A stored energy analysis of grains with shear texture orientations in Cu-Ni-Si and Fe-Ni alloys processed by high-pressure torsion. <i>Journal of Alloys and Compounds</i> , 2021 , 864, 158142	5.7	2
990	Engineering mechanical properties by controlling the microstructure of an Fe ₇₀ Ni ₁₀ Mn martensitic steel through pre-cold rolling and subsequent heat treatment. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2021 , 804, 140760	5.3	1
989	Effect of grain size and crystallographic structure on the corrosion and tribocorrosion behaviour of a CoCrMo biomedical grade alloy in simulated body fluid. <i>Wear</i> , 2021 , 478-479, 203884	3.5	3
988	A multiscale experimental analysis of mechanical properties and deformation behavior of sintered copper/silicon carbide composites enhanced by high-pressure torsion. <i>Archives of Civil and Mechanical Engineering</i> , 2021 , 21, 1	3.4	1
987	The nature of the maximum microhardness and thickness of the gradient layer in surface-strengthened Cu-Al alloys. <i>Acta Materialia</i> , 2021 , 215, 117073	8.4	0
986	Deformation mechanisms in ultrafine-grained metals with an emphasis on the Hall-Petch relationship and strain rate sensitivity. <i>Journal of Materials Research and Technology</i> , 2021 , 14, 137-159	5.5	11
985	An examination of strain weakening and self-annealing in a Bi-Sn alloy processed by high-pressure torsion. <i>Materials Letters</i> , 2021 , 301, 130321	3.3	1

984	Effect of post-deformation annealing on the microstructure and mechanical behavior of an Fe-Ni-Mn steel processed by high-pressure torsion. <i>Journal of Materials Research and Technology</i> , 2021 , 15, 1537-1546	5.5	0
983	The mechanics and physics of gradient nanomaterials: Dedicated to the memory of Alexander Zhilyaev (1959-2020). <i>Materials Letters</i> , 2021 , 302, 130369	3.3	
982	Numerical Investigation of Plastic Strain Homogeneity during Equal-Channel Angular Pressing of a Cu-Zr Alloy. <i>Crystals</i> , 2021 , 11, 1505	2.3	0
981	Microstructural and Hardness Evolution in a Duplex Stainless Steel Processed by High-Pressure Torsion. <i>Crystals</i> , 2020 , 10, 1138	2.3	2
980	Analysis of the creep behavior of fine-grained AZ31 magnesium alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2020 , 787, 139489	5.3	8
979	Recrystallization in an Mg-Nd alloy processed by high-pressure torsion: a calorimetric analysis. <i>Journal of Materials Research and Technology</i> , 2020 , 9, 3047-3054	5.5	1
978	Microstructural Evolution and Mechanical Properties of Ultrafine-Grained Ti Fabricated by Cryorolling and Subsequent Annealing. <i>Advanced Engineering Materials</i> , 2020 , 22, 1901463	3.5	2
977	The fabrication of high strength Zr/Nb nanocomposites using high-pressure torsion. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2020 , 790, 139693	5.3	5
976	Using High-Pressure Torsion to Achieve Superplasticity in an AZ91 Magnesium Alloy. <i>Metals</i> , 2020 , 10, 681	2.3	7
975	Effect of dynamic plastic deformation on the microstructure and mechanical properties of an Al-Ni-Mg alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2020 , 784, 139287	5.3	10
974	Enhanced Creep Resistance of an Ultrafine-Grained Ti-6Al-4V Alloy with Modified Surface by Ion Implantation and (Ti + V)N Coating. <i>Advanced Engineering Materials</i> , 2020 , 22, 1901219	3.5	5
973	Microstructural Evolution and Microhardness Variations in Pure Titanium Processed by High-Pressure Torsion. <i>Advanced Engineering Materials</i> , 2020 , 22, 1901462	3.5	7
972	An Investigation of Strain-Softening Phenomenon in Al-0.1% Mg Alloy during High-Pressure Torsion Processing. <i>Advanced Engineering Materials</i> , 2020 , 22, 1901578	3.5	
971	Interface structures in Al-Nb ₂ O ₅ nanocomposites processed by high-pressure torsion at room temperature. <i>Materials Characterization</i> , 2020 , 162, 110222	3.9	5
970	An investigation by EXAFS of local atomic structure in an Mg-Nd alloy after processing by high-pressure torsion and ageing. <i>Materials Letters</i> , 2020 , 264, 127379	3.3	2
969	Characteristics of grain refinement in oxygen-free copper processed by equal-channel angular pressing and dynamic testing. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2020 , 775, 138985	5.3	13
968	A Novel High-Strength Zn-3Ag-0.5Mg Alloy Processed by Hot Extrusion, Cold Rolling, or High-Pressure Torsion. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2020 , 51, 3335-3348	2.3	11
967	Microstructure and mechanical properties of a Zn-0.5Cu alloy processed by high-pressure torsion. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2020 , 776, 139047	5.3	14

966	The Stability of Oxygen-Free Copper Processed by High-Pressure Torsion after Room Temperature Storage for 12 Months. <i>Advanced Engineering Materials</i> , 2020 , 22, 1901015	3.5	0
965	A Comparison of Warm and Combined Warm and Low-Temperature Processing Routes for the Equal-Channel Angular Pressing of Pure Titanium. <i>Advanced Engineering Materials</i> , 2020 , 22, 1900698	3.5	3
964	An Evaluation of the Microstructure and Microhardness in an AlZnMg Alloy Processed by ECAP and Post-ECAP Heat Treatments. <i>Advanced Engineering Materials</i> , 2020 , 22, 1901040	3.5	2
963	An investigation of the stored energy and thermal stability in a CuNiBi alloy processed by high-pressure torsion. <i>Philosophical Magazine</i> , 2020 , 100, 688-712	1.6	6
962	Microstructural Evolution and Mechanical Behavior of Cu/Nb Multilayer Composites Processed by Accumulative Roll Bonding. <i>Advanced Engineering Materials</i> , 2020 , 22, 1900702	3.5	10
961	Synthesis of Hybrid Nanocrystalline Alloys by Mechanical Bonding through High-Pressure Torsion. <i>Advanced Engineering Materials</i> , 2020 , 22, 1901289	3.5	17
960	The significance of strain weakening and self-annealing in a superplastic BiSn eutectic alloy processed by high-pressure torsion. <i>Acta Materialia</i> , 2020 , 185, 245-256	8.4	12
959	Microstructure and Microhardness Evolution in Pure Molybdenum Processed by High-Pressure Torsion. <i>Advanced Engineering Materials</i> , 2020 , 22, 1901022	3.5	1
958	Development of an Al 7050-10 vol.% alumina nanocomposite through cold consolidation of particles by high-pressure torsion. <i>Journal of Materials Research and Technology</i> , 2020 , 9, 12626-12633	5.5	0
957	Corrosion Behavior in Hank's Solution of a MagnesiumHydroxyapatite Composite Processed by High-Pressure Torsion. <i>Advanced Engineering Materials</i> , 2020 , 22, 2000765	3.5	4
956	The Background to Superplastic Forming and Opportunities Arising from New Developments. <i>Solid State Phenomena</i> , 2020 , 306, 1-8	0.4	3
955	Superior strength of tri-layered AlCuAl nano-composites processed by high-pressure torsion. <i>Journal of Alloys and Compounds</i> , 2020 , 846, 156380	5.7	11
954	Mechanical properties and structural stability of a bulk nanostructured metastable aluminum-magnesium system. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2020 , 796, 140050	5.3	11
953	On the Heterogeneity of Local Shear Strain Induced by High-Pressure Torsion. <i>Advanced Engineering Materials</i> , 2020 , 22, 1900477	3.5	15
952	Inverse HallPetch Behaviour in an AZ91 Alloy and in an AZ91Al ₂ O ₃ Composite Consolidated by High-Pressure Torsion. <i>Advanced Engineering Materials</i> , 2020 , 22, 1900894	3.5	12
951	Effect of Cu on Amorphization of a TiNi Alloy during HPT and Shape Memory Effect after Post-Deformation Annealing. <i>Advanced Engineering Materials</i> , 2020 , 22, 1900387	3.5	3
950	Effect of Numbers of Turns of High-Pressure Torsion on the Development of Exceptional Ductility in Pure Magnesium. <i>Advanced Engineering Materials</i> , 2020 , 22, 1900565	3.5	2
949	A Lifetime of Research in Creep, Superplasticity, and Ultrafine-Grained Materials. <i>Advanced Engineering Materials</i> , 2020 , 22, 1900442	3.5	5

948	Fabrication and characterization of nanostructured immiscible Cu ₃ Al alloys processed by high-pressure torsion. <i>Journal of Alloys and Compounds</i> , 2020 , 832, 155007	5.7	13
947	Magnesium-Based Bioactive Composites Processed at Room Temperature. <i>Materials</i> , 2019 , 12,	3.5	8
946	The Characteristics of Creep in Metallic Materials Processed by Severe Plastic Deformation. <i>Materials Transactions</i> , 2019 , 60, 1506-1517	1.3	13
945	Effect of spark plasma sintering and high-pressure torsion on the microstructural and mechanical properties of a Cu ₃ BiC composite. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2019 , 766, 138350	5.3	9
944	On the microstructure and mechanical properties of an Fe-10Ni-7Mn martensitic steel processed by high-pressure torsion. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2019 , 749, 27-34	5.3	10
943	A possible stabilizing effect of work hardening on the tensile performance of superplastic materials. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2019 , 759, 448-454	5.3	5
942	Bulk-State Reactions and Improving the Mechanical Properties of Metals through High-Pressure Torsion. <i>Materials Transactions</i> , 2019 , 60, 1131-1138	1.3	26
941	The Contribution of Severe Plastic Deformation to Research on Superplasticity. <i>Materials Transactions</i> , 2019 , 60, 1123-1130	1.3	10
940	Electrochemical behavior of a magnesium ZK60 alloy processed by high-pressure torsion. <i>Corrosion Science</i> , 2019 , 154, 90-100	6.8	34
939	Strain rate dependence of compressive behavior in an Al-Zn-Mg alloy processed by ECAP. <i>Journal of Alloys and Compounds</i> , 2019 , 791, 1079-1087	5.7	14
938	An investigation of the thermal stability of an Mg Dy alloy after processing by high-pressure torsion. <i>Materials Characterization</i> , 2019 , 151, 519-529	3.9	12
937	Micro-Embossing Formability of a Superlight Dual-Phase Mg ₂ Al Alloy Processed by High-Pressure Torsion. <i>Advanced Engineering Materials</i> , 2019 , 21, 1800961	3.5	6
936	Cytotoxicity and Corrosion Behavior of Magnesium and Magnesium Alloys in Hank's Solution after Processing by High-Pressure Torsion. <i>Advanced Engineering Materials</i> , 2019 , 21, 1900391	3.5	17
935	A magnesium-aluminium composite produced by high-pressure torsion. <i>Journal of Alloys and Compounds</i> , 2019 , 804, 421-426	5.7	23
934	Thermal Stability of an Mg ₂ Al Alloy Processed by High-Pressure Torsion. <i>Advanced Engineering Materials</i> , 2019 , 21, 1900801	3.5	9
933	Developing magnesium-based composites through high-pressure torsion. <i>Letters on Materials</i> , 2019 , 9, 541-545	0.9	5
932	Effect of Long-Term Storage on Microstructure and Microhardness Stability in OFHC Copper Processed by High-Pressure Torsion. <i>Advanced Engineering Materials</i> , 2019 , 21, 1801300	3.5	8
931	Synthesis of a bulk nanostructured metastable Al alloy with extreme supersaturation of Mg. <i>Scientific Reports</i> , 2019 , 9, 17186	4.9	20

930	Thirty years of collaboration and research from 1989 to 2019: a tribute to Ruslan Z. Valiev. <i>IOP Conference Series: Materials Science and Engineering</i> , 2019 , 672, 012001	0.4	
929	Processing Magnesium and Its Alloys by High-Pressure Torsion: An Overview. <i>Advanced Engineering Materials</i> , 2019 , 21, 1801039	3.5	35
928	Evaluating the textural and mechanical properties of an Mg-Dy alloy processed by high-pressure torsion. <i>Journal of Alloys and Compounds</i> , 2019 , 778, 61-71	5.7	25
927	The Effect of High-Pressure Torsion on Microstructure, Hardness and Corrosion Behavior for Pure Magnesium and Different Magnesium Alloys. <i>Advanced Engineering Materials</i> , 2019 , 21, 1801081	3.5	26
926	Processing of CP-Ti by high-pressure torsion and the effect of surface modification using a post-HPT laser treatment. <i>Journal of Alloys and Compounds</i> , 2019 , 784, 653-659	5.7	9
925	The fabrication of graphene-reinforced Al-based nanocomposites using high-pressure torsion. <i>Acta Materialia</i> , 2019 , 164, 499-511	8.4	72
924	Development of a magnesium-alumina composite through cold consolidation of machining chips by high-pressure torsion. <i>Journal of Alloys and Compounds</i> , 2019 , 780, 422-427	5.7	32
923	High-pressure torsion and equal-channel angular pressing 2019 , 3-19		2
922	The influence of chemical heterogeneities on the local mechanical behavior of a high-entropy alloy: A micropillar compression study. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2018 , 721, 165-167	5.3	6
921	Effect of a minor titanium addition on the superplastic properties of a CoCrFeNiMn high-entropy alloy processed by high-pressure torsion. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2018 , 718, 468-476	5.3	31
920	Factors influencing superplasticity in the Ti-6Al-4V alloy processed by high-pressure torsion. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2018 , 718, 198-206	5.3	20
919	An EBSD analysis of Fe-36%Ni alloy processed by HPT at ambient and a warm temperature. <i>Journal of Alloys and Compounds</i> , 2018 , 753, 46-53	5.7	13
918	Texture and microhardness of Mg-Rare Earth (Nd and Ce) alloys processed by high-pressure torsion. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2018 , 724, 477-485	5.3	26
917	Effect of Ti on phase stability and strengthening mechanisms of a nanocrystalline CoCrFeMnNi high-entropy alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2018 , 725, 196-206	5.3	34
916	Fracture toughness at cryogenic temperatures of ultrafine-grained Ti-6Al-4V alloy processed by ECAP. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2018 , 716, 260-267	5.3	31
915	Effect of temperature rise on microstructural evolution during high-pressure torsion. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2018 , 714, 167-171	5.3	50
914	Features of Duplex Microstructural Evolution and Mechanical Behavior in the Titanium Alloy Processed by Equal-Channel Angular Pressing. <i>Advanced Engineering Materials</i> , 2018 , 20, 1700813	3.5	10
913	Effect of heat treatments on the microstructures and tensile properties of an ultrafine-grained Al-Zn-Mg alloy processed by ECAP. <i>Journal of Alloys and Compounds</i> , 2018 , 749, 567-574	5.7	17

912	Using Post-Deformation Annealing to Optimize the Properties of a ZK60 Magnesium Alloy Processed by High-Pressure Torsion. <i>Advanced Engineering Materials</i> , 2018 , 20, 1700703	3.5	10
911	Effect of Initial Annealing Temperature on Microstructural Development and Microhardness in High-Purity Copper Processed by High-Pressure Torsion. <i>Advanced Engineering Materials</i> , 2018 , 20, 1700503	3.5	6
910	Thirty Years of Superplastic Ultrafine-Grained Materials: Examining the Legacy of Oscar Kaibyshev. <i>Defect and Diffusion Forum</i> , 2018 , 385, 3-8	0.7	3
909	Low Temperature Superplasticity in Ultrafine-Grained AZ31 Alloy. <i>Defect and Diffusion Forum</i> , 2018 , 385, 59-64	0.7	3
908	Superplastic Flow and Micro-Mechanical Response of Ultrafine-Grained Materials. <i>Defect and Diffusion Forum</i> , 2018 , 385, 9-14	0.7	1
907	Effect of Different Initial Lamellar Plate Thicknesses on Grain Refinement and Superplastic Behaviour in HPT-Processed Ti-6Al-4V Alloy. <i>Defect and Diffusion Forum</i> , 2018 , 385, 182-188	0.7	
906	Shape memory characteristics of a nanocrystalline TiNi alloy processed by HPT followed by post-deformation annealing. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2018 , 734, 445-452	5.3	11
905	Influence of Inhomogeneity on Mechanical Properties of Commercially Pure Titanium Processed by HPT. <i>Defect and Diffusion Forum</i> , 2018 , 385, 284-289	0.7	2
904	Spall strength dependence on grain size and strain rate in tantalum. <i>Acta Materialia</i> , 2018 , 158, 313-329	8.4	57
903	Mechanical properties of an Al-Zn-Mg alloy processed by ECAP and heat treatments. <i>Journal of Alloys and Compounds</i> , 2018 , 769, 631-639	5.7	27
902	Effect of high-pressure torsion on microstructure, mechanical properties and corrosion resistance of cast pure Mg. <i>Journal of Materials Science</i> , 2018 , 53, 16585-16597	4.3	26
901	Fabrication of nanocomposites through diffusion bonding under high-pressure torsion. <i>Journal of Materials Research</i> , 2018 , 33, 2700-2710	2.5	29
900	Direct Bonding of Aluminum-Copper Metals through High-Pressure Torsion Processing. <i>Advanced Engineering Materials</i> , 2018 , 20, 1800642	3.5	26
899	Fabrication of High Strength Hybrid Materials through the Application of High-Pressure Torsion. <i>Acta Physica Polonica A</i> , 2018 , 134, 615-623	0.6	3
898	Characterization of precipitates in an Al-Zn-Mg alloy processed by ECAP and subsequent annealing. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2018 , 712, 146-156	5.3	23
897	Exceptionally high strength and good ductility in an ultrafine-grained 316L steel processed by severe plastic deformation and subsequent annealing. <i>Materials Letters</i> , 2018 , 214, 240-242	3.3	19
896	Enhanced grain refinement and microhardness by hybrid processing using hydrostatic extrusion and high-pressure torsion. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2018 , 712, 513-520	5.3	21
895	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. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2018 , 712, 373-379	5.3	19

894	Studies on the Superplasticity Effect in UFA: History and Development (In Memory of Prof. O.A. Kaibyshev). <i>Reviews on Advanced Materials Science</i> , 2018 , 54, 14-24	4.8	2
893	Superplasticity in Ultrafine-Grained Materials.. <i>Reviews on Advanced Materials Science</i> , 2018 , 54, 46-55	4.8	21
892	Consolidation of Magnesium and Magnesium Alloy Machine Chips Using High-Pressure Torsion. <i>Materials Science Forum</i> , 2018 , 941, 851-856	0.4	10
891	Microstructure evolution of Al-7wt%Si-2wt%Fe alloy processed by high-pressure torsion. <i>MATEC Web of Conferences</i> , 2018 , 192, 02068	0.3	
890	Developing Superplasticity in High-Entropy Alloys Processed by Severe Plastic Deformation. <i>Materials Science Forum</i> , 2018 , 941, 1059-1064	0.4	1
889	Micro-Scale Mechanical Behavior of Ultrafine-Grained Materials Processed by High-Pressure Torsion. <i>Materials Science Forum</i> , 2018 , 941, 1495-1500	0.4	
888	Effect of carbon content and annealing on structure and hardness of CrFe2NiMnV0.25 high-entropy alloys processed by high-pressure torsion. <i>Journal of Materials Science</i> , 2018 , 53, 11813-11822	4.3	12
887	Annealing-Induced Hardening in Ultrafine-Grained NiMo Alloys. <i>Advanced Engineering Materials</i> , 2018 , 20, 1800184	3.5	12
886	Grain refinement and superplastic flow in a fully lamellar Ti-6Al-4V alloy processed by high-pressure torsion. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2018 , 732, 398-405	5.3	19
885	Evidence for superplasticity in a CoCrFeNiMn high-entropy alloy processed by high-pressure torsion. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2017 , 685, 342-348	5.3	67
884	Influence of grain size on the flow properties of an Al-Mg-Sc alloy over seven orders of magnitude of strain rate. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2017 , 685, 367-376	5.3	48
883	Effect of severe plastic deformation on the biocompatibility and corrosion rate of pure magnesium. <i>Journal of Materials Science</i> , 2017 , 52, 5992-6003	4.3	55
882	Effect of Mo addition on the microstructure and hardness of ultrafine-grained Ni alloys processed by a combination of cryorolling and high-pressure torsion. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2017 , 688, 92-100	5.3	21
881	Mechanical behavior and microstructure properties of titanium powder consolidated by high-pressure torsion. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2017 , 688, 498-504	5.3	33
880	Applying Conventional Creep Mechanisms to Ultrafine-Grained Materials. <i>Minerals, Metals and Materials Series</i> , 2017 , 117-131	0.3	1
879	The Influence of Plastic Deformation on Lattice Defect Structure and Mechanical Properties of 316L Austenitic Stainless Steel. <i>Materials Science Forum</i> , 2017 , 885, 13-18	0.4	4
878	Investigation of Lattice Defects in a Plastically Deformed High-Entropy Alloy. <i>Materials Science Forum</i> , 2017 , 885, 74-79	0.4	3
877	Mechanical behavior and impact toughness of the ultrafine-grained Grade 5 Ti alloy processed by ECAP. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2017 , 696, 166-173	5.3	24

876	The sequence and kinetics of pre-precipitation in Mg-Nd alloys after HPT processing: A synchrotron and DSC study. <i>Journal of Alloys and Compounds</i> , 2017 , 719, 236-241	5.7	10
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1	Superplasticity of Bulk Nanostructured Materials	455-468	3