

Pedro Henrique R Pereira

List of Publications by Year in descending order

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49
papers

1,448
citations

304602

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49
all docs

49
docs citations

49
times ranked

916
citing authors

#	ARTICLE	IF	CITATIONS
1	Using finite element modeling to examine the temperature distribution in quasi-constrained high-pressure torsion. <i>Acta Materialia</i> , 2012, 60, 3190-3198.	3.8	271
2	The fabrication of graphene-reinforced Al-based nanocomposites using high-pressure torsion. <i>Acta Materialia</i> , 2019, 164, 499-511.	3.8	121
3	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.	2.6	74
4	Modeling the temperature rise in high-pressure torsion. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2014, 593, 185-188.	2.6	68
5	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.	2.6	64
6	Microstructural evolution and superplasticity in an Mg-Gd-Y-Zr alloy after processing by different SPD techniques. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2017, 682, 577-585.	2.6	53
7	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.	1.6	42
8	Microstructure, Texture, and Superplasticity of a Fine-Grained Mg-Gd-Zr Alloy Processed by Equal-Channel Angular Pressing. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2016, 47, 6056-6069.	1.1	40
9	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.	2.8	38
10	Effect of ECAP processing on microstructure evolution and dynamic compressive behavior at different temperatures in an Al-Zn-Mg alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2017, 684, 617-625.	2.6	35
11	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.	2.6	35
12	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.	2.8	35
13	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.	2.6	33
14	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.	2.6	32
15	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.	1.3	31
16	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.	1.6	31
17	A magnesium-aluminium composite produced by high-pressure torsion. <i>Journal of Alloys and Compounds</i> , 2019, 804, 421-426.	2.8	29
18	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.	2.8	28

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19	An examination of the elastic distortions of anvils in high-pressure torsion. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2015, 631, 201-208.	2.6	26
20	Finite Element Modelling of High-Pressure Torsion: An Overview. <i>Materials Transactions</i> , 2019, 60, 1139-1150.	0.4	26
21	Determination of mechanical anisotropy of magnesium processed by ECAP. <i>Journal of Materials Research and Technology</i> , 2014, 3, 331-337.	2.6	25
22	Achieving superior grain refinement and mechanical properties in vanadium through high-pressure torsion and subsequent short-term annealing. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2016, 655, 60-69.	2.6	25
23	Mechanical properties and microstructural evolution of nanocrystalline titanium at elevated temperatures. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2016, 669, 358-366.	2.6	24
24	Annealing-Induced Hardening in Ultrafine-Grained Ni-Mo Alloys. <i>Advanced Engineering Materials</i> , 2018, 20, 1800184.	1.6	23
25	Strain heterogeneities in the rolling direction of steel sheets submitted to the skin pass: A finite element analysis. <i>Journal of Materials Processing Technology</i> , 2015, 216, 234-247.	3.1	20
26	Fabrication and characterization of nanostructured immiscible Cu-Ta alloys processed by high-pressure torsion. <i>Journal of Alloys and Compounds</i> , 2020, 832, 155007.	2.8	19
27	An examination of the superplastic characteristics of Al-Mg-Sc alloys after processing. <i>Journal of Materials Research</i> , 2017, 32, 4541-4553.	1.2	17
28	Inverse Hall-Petch Behaviour in an AZ91 Alloy and in an AZ91-Al ₂ O ₃ Composite Consolidated by High-Pressure Torsion. <i>Advanced Engineering Materials</i> , 2020, 22, 1900894.	1.6	16
29	Using finite element modelling to examine the flow process and temperature evolution in HPT under different constraining conditions. <i>IOP Conference Series: Materials Science and Engineering</i> , 2014, 63, 012041.	0.3	15
30	Examining the microhardness evolution and thermal stability of an Al-Mg-Sc alloy processed by high-pressure torsion at a high temperature. <i>Journal of Materials Research and Technology</i> , 2017, 6, 348-354.	2.6	13
31	Microstructural evolution and mechanical behavior of copper processed by low strain amplitude multi-directional forging. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2019, 756, 474-483.	2.6	13
32	Magnesium-Based Bioactive Composites Processed at Room Temperature. <i>Materials</i> , 2019, 12, 2609.	1.3	12
33	Using Plane Strain Compression Test to Evaluate the Mechanical Behavior of Magnesium Processed by HPT. <i>Metals</i> , 2022, 12, 125.	1.0	11
34	Examining the Thermal Stability of an Al-Mg-Sc Alloy Processed by High-Pressure Torsion. <i>Materials Research</i> , 2017, 20, 39-45.	0.6	10
35	Consolidation of Magnesium and Magnesium Alloy Machine Chips Using High-Pressure Torsion. <i>Materials Science Forum</i> , 2018, 941, 851-856.	0.3	10
36	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.	1.6	10

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37	Interface structures in Al-Nb ₂ O ₅ nanocomposites processed by high-pressure torsion at room temperature. <i>Materials Characterization</i> , 2020, 162, 110222.	1.9	10
38	Thermal stability and superplastic behaviour of an Al-Mg-Sc alloy processed by ECAP and HPT at different temperatures. <i>IOP Conference Series: Materials Science and Engineering</i> , 2017, 194, 012013.	0.3	9
39	Mechanical behavior and microstructures of aluminum in the Multi-Axial Compression (MAC) with and without specimen re-machining. <i>Materials Letters</i> , 2019, 237, 84-87.	1.3	9
40	Thermal stability and mechanical properties of HPT-processed CP-Ti. <i>IOP Conference Series: Materials Science and Engineering</i> , 2017, 194, 012012.	0.3	7
41	Low Temperature Superplasticity in Ultrafine-Grained AZ31 Alloy. <i>Defect and Diffusion Forum</i> , 0, 385, 59-64.	0.4	6
42	Influence of Strain Amplitude on the Microstructural Evolution and Flow Properties of Copper Processed by Multidirectional Forging. <i>Advanced Engineering Materials</i> , 2020, 22, 1901510.	1.6	6
43	Developing magnesium-based composites through high-pressure torsion. <i>Letters on Materials</i> , 2019, 9, 541-545.	0.2	6
44	Effect of High-pressure Torsion on Corrosion Behavior of a Solution-treated Al-Mg-Sc Alloy in a Saline Solution. <i>Materials Research</i> , 2019, 22, .	0.6	6
45	Influence of Initial Heat Treatment on the Microhardness Evolution of an Al-Mg-Sc Alloy Processed by High-Pressure Torsion. <i>Materials Science Forum</i> , 0, 879, 1471-1476.	0.3	4
46	Analysis of Plastic Deformation and Sample Geometry during the Compression Stage in High-Pressure Torsion. <i>Advanced Materials Research</i> , 0, 922, 592-597.	0.3	3
47	Microstructural evolution and mechanical properties in a Zn-Al-Cu-Mg hypoeutectic alloy processed by multi-directional forging at room temperature. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2021, 801, 140420.	2.6	3
48	Hardness, Microstructure and Strain Distributions in Commercial Purity Aluminum Processed by Multi Directional Forging (MDF). <i>Materials Research</i> , 2020, 23, .	0.6	3
49	Recovery or Non-Recovery in Al-0.1% Mg and Al-1% Mg Alloy during High-Pressure Torsion Processing. <i>Materials Science Forum</i> , 2016, 879, 773-778.	0.3	1