

Ali Asghar Roostaei

List of Publications by Year in descending order

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Version: 2024-02-01

21
papers

855
citations

686830

13
h-index

794141

19
g-index

21
all docs

21
docs citations

21
times ranked

628
citing authors

#	ARTICLE	IF	CITATIONS
1	An investigation into the hot deformation characteristics of 7075 aluminum alloy. <i>Materials & Design</i> , 2011, 32, 2339-2344.	5.1	157
2	Constitutive base analysis of a 7075 aluminum alloy during hot compression testing. <i>Materials & Design</i> , 2011, 32, 4955-4960.	5.1	138
3	The high temperature flow behavior modeling of AZ81 magnesium alloy considering strain effects. <i>Materials & Design</i> , 2012, 39, 384-389.	5.1	126
4	An investigation into the mechanical behavior and microstructural evolution of the accumulative roll bonded AZ31 Mg alloy upon annealing. <i>Materials & Design</i> , 2011, 32, 2963-2968.	5.1	58
5	Microstructure evolution and semi-solid deformation behavior of an A356 aluminum alloy processed by strain induced melt activated method. <i>Materials & Design</i> , 2013, 46, 579-587.	5.1	57
6	Role of loading direction on cyclic behaviour characteristics of AM30 extrusion and its fatigue damage modelling. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2016, 670, 26-40.	2.6	56
7	Deformation homogeneity in accumulative back extrusion processing of AZ31 magnesium alloy. <i>Journal of Alloys and Compounds</i> , 2010, 507, 207-214.	2.8	46
8	The semi-solid tensile deformation behavior of wrought AZ31 magnesium alloy. <i>Materials & Design</i> , 2010, 31, 4386-4391.	5.1	44
9	Multiaxial cyclic behaviour and fatigue modelling of AM30 Mg alloy extrusion. <i>International Journal of Fatigue</i> , 2017, 97, 150-161.	2.8	36
10	Evaluating the mechanical properties of a thermomechanically processed unmodified A356 Al alloy employing shear punch testing method. <i>Materials & Design</i> , 2013, 43, 419-425.	5.1	30
11	A cyclic small-strain plasticity model for wrought Mg alloys under multiaxial loading: Numerical implementation and validation. <i>International Journal of Mechanical Sciences</i> , 2018, 145, 318-329.	3.6	22
12	On the definition of elastic strain energy density in fatigue modelling. <i>International Journal of Fatigue</i> , 2019, 121, 237-242.	2.8	22
13	Fatigue of ZEK100-F magnesium alloy: Characterisation and modelling. <i>International Journal of Fatigue</i> , 2019, 125, 179-186.	2.8	18
14	An analysis to plastic deformation behavior of AZ31 alloys during accumulative roll bonding process. <i>Journal of Materials Science</i> , 2010, 45, 4494-4500.	1.7	16
15	Applications of Neuber's and Glinka's notch plasticity correction rules to asymmetric magnesium alloys under cyclic load. <i>Theoretical and Applied Fracture Mechanics</i> , 2020, 105, 102431.	2.1	9
16	The effect of cooling rate and degassing on microstructure and mechanical properties of cast AZ80 magnesium alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2022, 844, 143176.	2.6	9
17	Cyclic plasticity applied to the notch analysis of metals. , 2022, , 283-323.		3
18	Multiaxial fatigue behavior of low temperature closed die forged ZK60 extrusion under proportional and non-proportional loading. <i>Fatigue and Fracture of Engineering Materials and Structures</i> , 2022, 45, 1866-1881.	1.7	3

#	ARTICLE	IF	CITATIONS
19	A Novel Test Design for Large Strain Uniaxial Reverse Loading of AZ31B Sheet Out of the Rolling Plane. Journal of Engineering Materials and Technology, Transactions of the ASME, 2021, 143, .	0.8	2
20	Modelling Residual Stresses in Shot-Peened Magnesium Alloys: A Hybrid Method. Metals and Materials International, 2022, 28, 2395-2412.	1.8	2
21	Experimental observations in cyclic loading of metals. , 2022, , 3-22.		1