Reza Mahmudi

List of Publications by Year
in descending order

21	518	623734 14	794594 19
papers	citations	h-index	g-index

23	23	23	339
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Constitutive analysis of wrought Mg-Gd magnesium alloys during hot compression at elevated temperatures. Journal of Alloys and Compounds, 2019, 791, 1200-1206.	5.5	72
2	An Unusual Extrusion Texture in Mgâ€“Gdâ€“Yâ€“Zr Alloys. Advanced Engineering Materials, 2016, 18, 1044-1049.	3.5	61
3	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
4	Effects of Zirconium Additions on the Microstructure of Asâ€Cast and Aged AZ91 Magnesium Alloy. Advanced Engineering Materials, 2009, 11, 189-193.	3.5	38
5	A comparative study on the effects of Gd, Y and La rare-earth elements on the microstructure and creep behavior of AZ81 Mg alloy. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2020, 790, 139712.	5.6	37
6	Microstructural Evolution and Mechanical Properties of the Asâ€Cast and Extruded Mgâ€“Gd Alloys. Advanced Engineering Materials, 2016, 18, 156-161.	3.5	31
7	Microstructure and Impression Creep Characteristics of Cast Mg-5Sn-xBi Magnesium Alloys. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2011, 42, 1990-2003.	2.2	29
8	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
9	Effects of Gd, Y, and La Rare-Earth Elements on the Microstructural Stability and Elevated-Temperature Mechanical Properties of AZ81 Magnesium Alloy. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2019, 50, 5957-5968.	2.2	22
10	Unraveling the Effect of Deformation Temperature on the Mechanical Behavior and Transformationâ€Induced Plasticity of the SUS304L Stainless Steel. Steel Research International, 2020, 91, 2000114.	1.8	22
11	Dynamic recrystallization kinetics in Mg-3Gd-1Zn magnesium alloy during hot deformation. International Journal of Materials Research, 2016, 107, 277-279.	0.3	21
12	Applicability of shear punch testing to the evaluation of hot tensile deformation parameters and constitutive analyses. Journal of Materials Research and Technology, 2019, 8, 996-1002.	5.8	21
13	High Temperature Mechanical Properties of an Extruded Mgâ€“TiO₂ Nanoâ€Composite. Advanced Engineering Materials, 2015, 17, 1639-1644.	3.5	17
14	Effect of Gd on Dynamic Recrystallization Behavior of Magnesium During Hot Compression. Metals and Materials International, 2021, 27, 843-850.	3.4	17
15	Evolutions of mechanical properties of AISI 304L stainless steel under shear loading. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2020, 791, 139667.	5.6	14
16	Microstructural Characterization and Highâ€Temperature Mechanical Behavior of Cast Mgâ€“4Znâ€“xSi Alloys. Advanced Engineering Materials, 2014, 16, 1160-1166.	3.5	12
17	SUPERPLASTIC INDENTATION CREEP OF FINE-GRAINED Sn-1% Bi ALLOY. International Journal of Modern Physics B, 2008, 22, 2823-2832.	2.0	11
18	Finite element analysis of plastic deformation in shear punch test. Materials Letters, 2021, 284, 128953.	2.6	10

#	Article	IF	Citations
19	A new experimental-numerical approach for studying the effects of gas pressure profile on superplastic forming characteristics of Al-Mg5.6 alloy. International Journal of Advanced Manufacturing Technology, 2017, 91, 1771-1780.	3.0	5
20	The Analysis of Time-Dependent Thermo-Mechanical Creep in Functionally Graded Al-SiC Composites Under Various Operating Temperatures. Iranian Journal of Science and Technology - Transactions of Mechanical Engineering, 2018, 42, 117-126.	1.3	0
21	Solid Solution Hardening Effect of Aluminum on the Creep Deformaton of AZ91 Magnesium Alloy. , 2012, , 423-426.		0