

Ahmad Bahmani

List of Publications by Year in descending order

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427
citing authors

#	ARTICLE	IF	CITATIONS
1	Formulation of corrosion rate of magnesium alloys using microstructural parameters. Journal of Magnesium and Alloys, 2020, 8, 134-149.	11.9	107
2	Corrosion behavior of Mgâ€“Mnâ€“Ca alloy: Influences of Al, Sn and Zn. Journal of Magnesium and Alloys, 2019, 7, 38-46.	11.9	77
3	A mathematical model for prediction of microporosity in aluminum alloy A356. International Journal of Advanced Manufacturing Technology, 2013, 64, 1313-1321.	3.0	43
4	A simple one step cerium conversion coating formation on to magnesium alloy and electrochemical corrosion performance. Surface and Coatings Technology, 2018, 349, 757-772.	4.8	42
5	Corrosion behaviour of AZ31 magnesium alloy containing various levels of strontium. Corrosion Science, 2018, 141, 117-126.	6.6	40
6	In- vitro corrosion behavior of the cast and extruded biodegradable Mg-Zn-Cu alloys in simulated body fluid (SBF). Journal of Magnesium and Alloys, 2021, 9, 2078-2096.	11.9	38
7	Improved corrosion resistant and strength of a magnesium alloy using multi-directional forging (MDF). International Journal of Advanced Manufacturing Technology, 2019, 105, 785-797.	3.0	33
8	Corrosion performance of high pressure die-cast Al-Si-Mg-Zn alloys in 3.5â€“wt% NaCl solution. Journal of Alloys and Compounds, 2019, 783, 494-502.	5.5	33
9	Achieving a high corrosion resistant and high strength magnesium alloy using multi directional forging. Journal of Alloys and Compounds, 2021, 856, 158077.	5.5	30
10	Thermal behavior of newly developed Zr33Hf8Ti6Cu32Ni10Co5Al6 high-entropy bulk metallic glass. Journal of Alloys and Compounds, 2022, 892, 162220.	5.5	25
11	Improvement of corrosion resistance and mechanical properties of a magnesium alloy using screw rolling. Journal of Alloys and Compounds, 2020, 813, 152155.	5.5	24
12	The dynamic recrystallization and mechanical property responses during hot screw rolling on pre-aged ZM61 magnesium alloys. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2020, 798, 140126.	5.6	22
13	Effect of Grain Refinement and Dispersion of Particles and Reinforcements on Mechanical Properties of Metals and Metal Matrix Composites through High-Ratio Differential Speed Rolling. Materials, 2020, 13, 4159.	2.9	15
14	Controlling the Microstructure and Texture Using Multidirectional Forging (MDF) to Develop a Low Corrosion Rate Mg Alloy. Corrosion, 2020, 76, 750-765.	1.1	14
15	Mechanochemical characteristics of Ca-added Mg-based alloys: A multimodality approach. Materials Characterization, 2020, 167, 110475.	4.4	12
16	Protective Performance of Plasma-Enhanced Chemical Vapor-Deposited Ethyl Cyclohexane Coating on Magnesium Alloys. Journal of Materials Engineering and Performance, 2019, 28, 1360-1372.	2.5	9
17	Deformation, Cracking and Fracture Behavior of Dynamically-Formed Oxide Layers on Molten Metals. Metals and Materials International, 2021, 27, 1701-1712.	3.4	8
18	Determination of dendrite coherency point characteristics in Al-Si-Mg alloy. International Journal of Cast Metals Research, 2021, 34, 14-20.	1.0	3