

Mohammed Asmael

List of Publications by Year in descending order

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papers

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citations

623188

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55
all docs

55
docs citations

55
times ranked

541
citing authors

#	ARTICLE	IF	CITATIONS
1	Machine Learning in Predictive Maintenance towards Sustainable Smart Manufacturing in Industry 4.0. Sustainability, 2020, 12, 8211.	1.6	243
2	Finite element analysis of natural fibers composites: A review. Nanotechnology Reviews, 2020, 9, 853-875.	2.6	84
3	Recent Developments in Luffa Natural Fiber Composites: Review. Sustainability, 2020, 12, 7683.	1.6	78
4	Experimental and simulation study of liquid coolant battery thermal management system for electric vehicles: A review. International Journal of Energy Research, 2021, 45, 6495-6517.	2.2	76
5	State-of-the-art review of fabrication, application, and mechanical properties of functionally graded porous nanocomposite materials. Nanotechnology Reviews, 2022, 11, 321-371.	2.6	55
6	Static bending analysis of functionally graded polymer composite curved beams reinforced with carbon nanotubes. Thin-Walled Structures, 2020, 157, 107139.	2.7	44
7	Recent Developments in Palm Fibers Composites: A Review. Journal of Polymers and the Environment, 2020, 28, 3029-3054.	2.4	37
8	Influence of Lanthanum on Solidification, Microstructure, and Mechanical Properties of Eutectic Al-Si Piston Alloy. Journal of Materials Engineering and Performance, 2016, 25, 2799-2813.	1.2	35
9	Ultrasonic machining of carbon fiber reinforced plastic composites: a review. International Journal of Advanced Manufacturing Technology, 2021, 113, 3079-3120.	1.5	31
10	Reduction in secondary dendrite arm spacing in cast eutectic Al-Si piston alloys by cerium addition. International Journal of Minerals, Metallurgy and Materials, 2017, 24, 91-101.	2.4	26
11	Modeling and simulation of the elastic properties of natural fiber reinforced thermosets. Polymer Composites, 2021, 42, 3508-3517.	2.3	25
12	Applications of Machine Learning to Friction Stir Welding Process Optimization. Jurnal Kejuruteraan, 2020, 32, 171-186.	0.2	23
13	Influence of Cerium on Microstructure and Solidification of Eutectic Al-Si Piston Alloy. Materials and Manufacturing Processes, 2016, 31, 1948-1957.	2.7	22
14	Developments on Electron Beam Melting (EBM) of Ti-6Al-4V: A Review. Transactions of the Indian Institute of Metals, 2021, 74, 783-790.	0.7	21
15	Virtual Minimization of Residual Stress and Deflection Error in the Five-Axis Milling of Turbine Blades. Strojniski Vestnik/Journal of Mechanical Engineering, 2021, 67, 235-244.	0.6	18
16	The experimental study of CFRP interlayer of dissimilar joint AA7075-T651/Ti-6Al-4V alloys by friction stir spot welding on mechanical and microstructural properties. Nanotechnology Reviews, 2021, 10, 401-413.	2.6	16
17	Classification of research and applications of the computer aided process planning in manufacturing systems. Independent Journal of Management & Production, 2021, 12, 1250-1281.	0.1	16
18	Effect of Pouring Temperature and Melt Treatment on Microstructure of Lost Foam Casting of AL-Si LM6 Alloy. Advanced Materials Research, 0, 264-265, 295-300.	0.3	15

#	ARTICLE	IF	CITATIONS
19	Calcium carbonate nanoparticles effects on cement plast properties. <i>Microsystem Technologies</i> , 2021, 27, 3059-3076.	1.2	14
20	Effects of rotation speed and dwell time on the mechanical properties and microstructure of dissimilar aluminum-titanium alloys by friction stir spot welding (FSSW). <i>Materialwissenschaft Und Werkstofftechnik</i> , 2020, 51, 1002-1008.	0.5	13
21	Minimization of surface roughness in 5-axis milling of turbine blades. <i>Mechanics Based Design of Structures and Machines</i> , 2023, 51, 5213-5230.	3.4	13
22	Prediction of properties of friction stir spot welded joints of AA7075-T651/Ti-6Al-4V alloy using machine learning algorithms. <i>Archives of Civil and Mechanical Engineering</i> , 2022, 22, 1.	1.9	12
23	Effect of Pouring Temperature on Microstructure Properties of Al-Si LM6 Alloy Sand Casting. <i>Applied Mechanics and Materials</i> , 0, 315, 856-860.	0.2	11
24	Development of a TiC/Cr23C6 Composite Coating on a 304 Stainless Steel Substrate through a Tungsten Inert Gas Process. <i>Coatings</i> , 2017, 7, 80.	1.2	11
25	Friction stir spot welding of AA5052 with additional carbon fiber-reinforced polymer composite interlayer. <i>Nanotechnology Reviews</i> , 2021, 10, 201-209.	2.6	11
26	Recent Development in Friction Stir Welding Process: A Review. <i>SAE International Journal of Materials and Manufacturing</i> , 0, 14, .	0.3	11
27	Smart Manufacturing for Industry 4.0 using Radio Frequency Identification (RFID) Technology. <i>Jurnal Kejuruteraan</i> , 2020, 32, 31-38.	0.2	8
28	Effect of Carbon Nanotubes and Porosity on Vibrational Behavior of Nanocomposite Structures: A Review. <i>Archives of Computational Methods in Engineering</i> , 2022, 29, 2621-2657.	6.0	8
29	Solidification, microstructure, and mechanical properties of the as-cast ZRE1 magnesium alloy with different praseodymium contents. <i>International Journal of Minerals, Metallurgy and Materials</i> , 2017, 24, 1306-1320.	2.4	6
30	EFFECT OF AGING TIME ON MICROSTRUCTURE AND MECHANICAL PROPERTIES OF AA6061 FRICTION STIR WELDING JOINTS. <i>International Journal of Automotive and Mechanical Engineering</i> , 2015, 11, 2364-2372.	0.5	6
31	Recent developments in tensile properties of friction welding of carbon fiber-reinforced composite: A review. <i>Nanotechnology Reviews</i> , 2022, 11, 1408-1436.	2.6	6
32	An Experimental and Metamodeling Approach to Tensile Properties of Natural Fibers Composites. <i>Journal of Polymers and the Environment</i> , 2022, 30, 4377-4393.	2.4	6
33	Developments in Plasma Arc Cutting (PAC) of Steel Alloys: A Review. <i>Jurnal Kejuruteraan</i> , 2018, 30, 7-16.	0.2	5
34	Mechanical Behavior of Materials in Metal Cutting Operations : A Review. <i>Journal of New Technology and Materials</i> , 2020, 10, 79-89.	0.4	5
35	Effect of Elements Cerium and Lanthanum on Eutectic Solidification of Al-Si-Cu near Eutectic Cast Alloy. <i>Advanced Materials Research</i> , 0, 845, 118-122.	0.3	4
36	Effect of Rotational Speed, and Dwell Time on the Mechanical Properties and Microstructure of Dissimilar AA5754 and AA7075-T651 Aluminum Sheet Alloys by Friction Stir Spot Welding. <i>Medziagotyra</i> , 2021, 27, 308-312.	0.1	4

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37	Effect of rare earth addition on solidification characteristics and microstructure of ZRE1 magnesium cast alloy. <i>Advances in Materials and Processing Technologies</i> , 2017, 3, 418-427.	0.8	3
38	The Effect of Metallic Addition on Mechanical Property of Aluminum (LM6) Alloy. <i>Applied Mechanics and Materials</i> , 0, 465-466, 958-961.	0.2	2
39	Effect of High Cerium and Lanthanum on Impact Toughness of Al-11Si-Cu Eutectic Cast Alloy. <i>Applied Mechanics and Materials</i> , 2014, 660, 195-198.	0.2	2
40	Effect of praseodymium and erbium additions on solidification characteristics, microstructure and mechanical properties of as-cast ZRE1%magnesium alloy. <i>Materialwissenschaft Und Werkstofftechnik</i> , 2017, 48, 218-225.	0.5	2
41	Surface modification of hypereutectic Al-Si alloy via friction stir process. <i>AIP Conference Proceedings</i> , 2017, , .	0.3	2
42	Solidification and microstructure characterizations of eutectic aluminum-silicon casting alloy with the addition of tin. <i>Materialwissenschaft Und Werkstofftechnik</i> , 2021, 52, 871-878.	0.5	2
43	The Effect of Process Parameters in Friction Stir Processing of Cast Hypereutectic Al-Si Alloy. <i>Advanced Science Letters</i> , 2018, 24, 3993-3998.	0.2	2
44	Effect of Mish Metal Cerium Addition on Fluidity of Aluminum Eutectic Silica Alloys - LM6. <i>Applied Mechanics and Materials</i> , 0, 465-466, 839-842.	0.2	1
45	Effect of Cerium Addition and Cooling Rate on Microstructure of ADC12 Eutectic Cast Alloy. <i>Advanced Materials Research</i> , 0, 1119, 486-489.	0.3	1
46	Effect of Yttrium Addition on Microstructure and Hardness of Cast EV31A Magnesium Alloy. <i>Key Engineering Materials</i> , 0, 740, 81-85.	0.4	1
47	The Influence of Holmium on the Microstructure and Hardness of Mg-Nd-Gd-Zn-Zr Alloys. <i>Key Engineering Materials</i> , 0, 740, 48-53.	0.4	1
48	Outcome of mix Ce and Er addition on solidification microstructure of the LM25 (Al-7Si-alloy). <i>Materials Today: Proceedings</i> , 2021, 39, 935-940.	0.9	1
49	The Influence of Metallic Addition on Fluidity of Aluminum (LM6) Alloy. <i>Applied Mechanics and Materials</i> , 0, 465-466, 954-957.	0.2	0
50	Effect of Lanthanum Addition on Fluidity of Complex Al-11Si-Cu-Mg Cast Alloy. <i>Advanced Materials Research</i> , 0, 1119, 490-494.	0.3	0
51	Effect of Lanthanum Addition on Microstructure and Hardness as Cooling Rate Function of ADC12 Eutectic Cast Alloy. <i>Advanced Materials Research</i> , 0, 1119, 495-499.	0.3	0
52	Effect of Rare Earth Metals on Diffusion and Porosity Deformation of Al-11Si-2Cu Cast Alloy. <i>Advanced Materials Research</i> , 0, 1133, 305-309.	0.3	0
53	Effects of Rare Earth Neodymium on Microstructure and Mechanical Properties of Mg-Ce-Zn-Zr Alloy. <i>International Journal of Materials Science and Engineering</i> , 2017, 5, 133-139.	0.1	0