

Adel Mohamed Amer Mohamed

List of Publications by Year in descending order

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35
papers

1,099
citations

361296

20
h-index

414303

32
g-index

35
all docs

35
docs citations

35
times ranked

990
citing authors

#	ARTICLE	IF	CITATIONS
1	Economic evaluation of hybrid electrical systems for rural electrification: A case study of a rural community in Nigeria. <i>International Journal of Green Energy</i> , 2022, 19, 1059-1071.	2.1	20
2	Intermetallics Formation during Solidification of Al-Si-Cu-Mg Cast Alloys. <i>Materials</i> , 2022, 15, 1335.	1.3	13
3	Economic analysis of cross-breed power arrangement for Salalah region in the Al-Khareef season. <i>International Journal of Sustainable Energy</i> , 2021, 40, 188-206.	1.3	13
4	Performance of Sprayed PVDF-Al ₂ O ₃ Composite Coating for Industrial and Civil Applications. <i>Materials</i> , 2021, 14, 6358.	1.3	12
5	Structural, mechanical and thermal characteristics of Al-Cu-Li particle reinforced Al-matrix composites synthesized by microwave sintering and hot extrusion. <i>Composites Part B: Engineering</i> , 2019, 164, 485-492.	5.9	60
6	Microstructure and Compressive Behavior of Al-Y ₂ O ₃ Nanocomposites Prepared by Microwave-Assisted Mechanical Alloying. <i>Metals</i> , 2019, 9, 414.	1.0	24
7	Structural and Mechanical Properties of Amorphous Si ₃ N ₄ Nanoparticles Reinforced Al Matrix Composites Prepared by Microwave Sintering. <i>Ceramics</i> , 2019, 2, 126-134.	1.0	20
8	Surface engineering of the PLA films for fabricating dexterous humidity sensors. <i>Journal of Materials Science: Materials in Electronics</i> , 2018, 29, 8135-8141.	1.1	4
9	A comparative study of structural and mechanical properties of Al-Cu composites prepared by vacuum and microwave sintering techniques. <i>Journal of Materials Research and Technology</i> , 2018, 7, 165-172.	2.6	37
10	Erosion Behavior of API X120 Steel: Effect of Particle Speed and Impact Angle. <i>Coatings</i> , 2018, 8, 343.	1.2	13
11	Synthesis, Characterization, and Application of Novel Ni-P-Carbon Nitride Nanocomposites. <i>Coatings</i> , 2018, 8, 37.	1.2	28
12	Enhancing compressive, tensile, thermal and damping response of pure Al using BN nanoparticles. <i>Journal of Alloys and Compounds</i> , 2018, 762, 398-408.	2.8	68
13	New Electrospun Polystyrene/Al ₂ O ₃ Nanocomposite Superhydrophobic Coatings; Synthesis, Characterization, and Application. <i>Coatings</i> , 2018, 8, 65.	1.2	31
14	Metal Matrix Composite Coatings of Cupronickel Embedded with Nanoplatelets for Improved Corrosion Resistant Properties. <i>International Journal of Corrosion</i> , 2018, 2018, 1-11.	0.6	13
15	Fabrication and Mechanical Properties of Extruded Al-SiC Nanocomposites. <i>Nano Hybrids and Composites</i> , 2017, 16, 9-12.	0.8	8
16	Improved properties of Al-Si ₃ N ₄ nanocomposites fabricated through a microwave sintering and hot extrusion process. <i>RSC Advances</i> , 2017, 7, 34401-34410.	1.7	51
17	Using B ₄ C Nanoparticles to Enhance Thermal and Mechanical Response of Aluminum. <i>Materials</i> , 2017, 10, 621.	1.3	34
18	Corrosion Behavior of API X100 Steel Material in a Hydrogen Sulfide Environment. <i>Metals</i> , 2017, 7, 109.	1.0	17

#	ARTICLE	IF	CITATIONS
19	Microwave Rapid Sintering of Al-Metal Matrix Composites: A Review on the Effect of Reinforcements, Microstructure and Mechanical Properties. <i>Metals</i> , 2016, 6, 143.	1.0	41
20	Erosion Behaviour of API X100 Pipeline Steel at Various Impact Angles and Particle Speeds. <i>Metals</i> , 2016, 6, 232.	1.0	22
21	Erosive wear performance of API X42 pipeline steel. <i>Engineering Failure Analysis</i> , 2016, 60, 86-95.	1.8	16
22	Low temperature hydrothermal synthesis, structural investigation and functional properties of Co Mn γ Fe γ 2O γ 4 Microstructures, 2015, 81, 233-242.	1.4	40
23	Effect of microstructure on the erosion behavior of carbon steel. <i>Wear</i> , 2015, 332-333, 1080-1089.	1.5	53
24	Characterization and corrosion resistance of electrodeposited Ni γ Mo γ silicate platelet nanocomposite coatings. <i>Surface and Coatings Technology</i> , 2014, 259, 517-525.	2.2	26
25	Salt water corrosion resistance of electrodeposited Ni-layered silicate nanocomposite coatings from Watts' type solution. <i>Surface and Coatings Technology</i> , 2014, 242, 170-176.	2.2	13
26	An optimization of superhydrophobic polyvinylidene fluoride/zinc oxide materials using Taguchi method. <i>Applied Surface Science</i> , 2014, 288, 229-237.	3.1	38
27	Microstructure, tensile properties and fracture behavior of high temperature Al γ Si γ Mg γ Cu cast alloys. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2013, 577, 64-72.	2.6	117
28	Influence of Bath Composition at Acidic pH on Electrodeposition of Nickel-Layered Silicate Nanocomposites for Corrosion Protection. <i>International Journal of Electrochemistry</i> , 2013, 2013, 1-8.	2.4	14
29	The role of alloying additives and aging treatment on the impact behavior of 319 cast alloy. <i>Materials & Design</i> , 2011, 32, 3205-3220.	5.1	41
30	Precipitation-hardening in cast Al γ Si γ Cu γ Mg alloys. <i>Journal of Materials Science</i> , 2010, 45, 641-651.	1.7	68
31	Effects of Individual and Combined Additions of Pb, Bi, and Sn on the Microstructure and Mechanical Properties of Al-10.8Si-2.25Cu-0.3Mg Alloy. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2009, 40, 240-254.	1.1	21
32	Precipitation of γ -Al γ 5FeSi Phase Platelets in Al-Si Based Casting Alloys. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2009, 40, 2457-2469.	1.1	36
33	Influence of additives on the impact toughness of Al γ 10.8% Si near-eutectic cast alloys. <i>Materials & Design</i> , 2009, 30, 4218-4229.	5.1	44
34	Influence of Tin Addition on the Microstructure and Mechanical Properties of Al-Si-Cu-Mg and Al-Si-Mg Casting Alloys. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2008, 39, 490-501.	1.1	41
35	Electrodeposition of Cu γ Ni Composite Coatings. , 0, , .		2