Adel Mohamed Amer Mohamed

List of Publications by Year in descending order

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Adel Mohamed Amer

#	Article	IF	CITATIONS
1	Economic evaluation of hybrid electrical systems for rural electrification: A case study of a rural community in Nigeria. International Journal of Green Energy, 2022, 19, 1059-1071.	3.8	20
2	Intermetallics Formation during Solidification of Al-Si-Cu-Mg Cast Alloys. Materials, 2022, 15, 1335.	2.9	13
3	Economic analysis of cross-breed power arrangement for Salalah region in the Al-Khareef season. International Journal of Sustainable Energy, 2021, 40, 188-206.	2.4	13
4	Performance of Sprayed PVDF-Al2O3 Composite Coating for Industrial and Civil Applications. Materials, 2021, 14, 6358.	2.9	12
5	Structural, mechanical and thermal characteristics of Al-Cu-Li particle reinforced Al-matrix composites synthesized by microwave sintering and hot extrusion. Composites Part B: Engineering, 2019, 164, 485-492.	12.0	60
6	Microstructure and Compressive Behavior of Al–Y2O3 Nanocomposites Prepared by Microwave-Assisted Mechanical Alloying. Metals, 2019, 9, 414.	2.3	24
7	Structural and Mechanical Properties of Amorphous Si3N4 Nanoparticles Reinforced Al Matrix Composites Prepared by Microwave Sintering. Ceramics, 2019, 2, 126-134.	2.6	20
8	Surface engineering of the PLA films for fabricating dexterous humidity sensors. Journal of Materials Science: Materials in Electronics, 2018, 29, 8135-8141.	2.2	4
9	A comparative study of structural and mechanical properties of Al–Cu composites prepared by vacuum and microwave sintering techniques. Journal of Materials Research and Technology, 2018, 7, 165-172.	5.8	37
10	Erosion Behavior of API X120 Steel: Effect of Particle Speed and Impact Angle. Coatings, 2018, 8, 343.	2.6	13
11	Synthesis, Characterization, and Application of Novel Ni-P-Carbon Nitride Nanocomposites. Coatings, 2018, 8, 37.	2.6	28
12	Enhancing compressive, tensile, thermal and damping response of pure Al using BN nanoparticles. Journal of Alloys and Compounds, 2018, 762, 398-408.	5.5	68
13	New Electrospun Polystyrene/Al2O3 Nanocomposite Superhydrophobic Coatings; Synthesis, Characterization, and Application. Coatings, 2018, 8, 65.	2.6	31
14	Metal Matrix Composite Coatings of Cupronickel Embedded with Nanoplatelets for Improved Corrosion Resistant Properties. International Journal of Corrosion, 2018, 2018, 1-11.	1.1	13
15	Fabrication and Mechanical Properties of Extruded Al-SiC Nanocomposites. Nano Hybrids and Composites, 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. RSC Advances, 2017, 7, 34401-34410.	3.6	51
17	Using B4C Nanoparticles to Enhance Thermal and Mechanical Response of Aluminum. Materials, 2017, 10, 621.	2.9	34
18	Corrosion Behavior of API X100 Steel Material in a Hydrogen Sulfide Environment. Metals, 2017, 7, 109.	2.3	17

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19	Microwave Rapid Sintering of Al-Metal Matrix Composites: A Review on the Effect of Reinforcements, Microstructure and Mechanical Properties. Metals, 2016, 6, 143.	2.3	41
20	Erosion Behaviour of API X100 Pipeline Steel at Various Impact Angles and Particle Speeds. Metals, 2016, 6, 232.	2.3	22
21	Erosive wear performance of API X42 pipeline steel. Engineering Failure Analysis, 2016, 60, 86-95.	4.0	16
22	Mn1â ⁻ Fe2O4 <mml:math <br="" altimg="si1.gif" xmlns:mml="http://www.w3.org/1998/Math/Math/L">overflow="scroll"><mml:mrow><mml:mo stretchy="false">(<mml:mn>0</mml:mn><mml:mo>⩽</mml:mo><mml:mi>x</mml:mi></mml:mo </mml:mrow></mml:math>	o>â℃ ¹ /2 </td <td>-40 mml:mo><m< td=""></m<></td>	-40 mml:mo> <m< td=""></m<>
	Microstructures, 2015, 81, 233-242.		
23	Effect of microstructure on the erosion behavior of carbon steel. Wear, 2015, 332-333, 1080-1089.	3.1	53
24	Characterization and corrosion resistance of electrodeposited Ni–Mo–silicate platelet nanocomposite coatings. Surface and Coatings Technology, 2014, 259, 517-525.	4.8	26
25	Salt water corrosion resistance of electrodeposited Ni-layered silicate nanocomposite coatings from Watts' type solution. Surface and Coatings Technology, 2014, 242, 170-176.	4.8	13
26	An optimization of superhydrophobic polyvinylidene fluoride/zinc oxide materials using Taguchi method. Applied Surface Science, 2014, 288, 229-237.	6.1	38
27	Microstructure, tensile properties and fracture behavior of high temperature Al–Si–Mg–Cu cast alloys. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2013, 577, 64-72.	5.6	117
28	Influence of Bath Composition at Acidic pH on Electrodeposition of Nickel-Layered Silicate Nanocomposites for Corrosion Protection. International Journal of Electrochemistry, 2013, 2013, 1-8.	2.4	14
29	The role of alloying additives and aging treatment on the impact behavior of 319 cast alloy. Materials & Design, 2011, 32, 3205-3220.	5.1	41
30	Precipitation-hardening in cast AL–Si–Cu–Mg alloys. Journal of Materials Science, 2010, 45, 641-651.	3.7	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. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2009, 40, 240-254.	2.2	21
32	Precipitation of β-Al5FeSi Phase Platelets in Al-Si Based Casting Alloys. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2009, 40, 2457-2469.	2.2	36
33	Influence of additives on the impact toughness of Al–10.8% Si near-eutectic cast alloys. Materials & Design, 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. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2008, 39, 490-501.	2.2	41
35	Electrodeposition of Cu–Ni Composite Coatings. , 0, , .		2