

Iman El-Mahallawi

List of Publications by Year in descending order

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citations

448610

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71
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71
docs citations

71
times ranked

952
citing authors

#	ARTICLE	IF	CITATIONS
1	Structure and thermoelectric behavior of polyaniline-based/ CNT-composite. Current Applied Physics, 2022, 36, 88-92.	1.1	9
2	Refinement effect of Zirconium and Samarium on Al-4Mg cast alloy. Materials Research Express, 2021, 8, 046522.	0.8	3
3	Study of Solidification Thermal Analysis, Microstructure and Mechanical Characteristics of A384 Cast Alloy Treated with Rare Earth (Sm, Tb, Ce and La) Elements. Journal of Materials Engineering and Performance, 2021, 30, 4466-4483.	1.2	4
4	Facile synthesis of hybrid electrode materials based on RGO.Ag/Co for an efficient symmetric supercapacitor. Journal of Electroanalytical Chemistry, 2021, 886, 115114.	1.9	6
5	Sustainable Materials for Energy Conversion. , 2020, , 867-879.		0
6	Structural, Optical and Microstructural Properties of TiNi Thin Films before and after Oxidation. Key Engineering Materials, 2020, 835, 193-199.	0.4	1
7	Thermal Analysis and Microstructure of Al-12%Si-2.5%Cu-0.4%Mg Cast Alloy with Ce and/or La Rare Earth Metals. Minerals, Metals and Materials Series, 2020, , 1056-1062.	0.3	2
8	Effects of Process Parameters on the Machining Process in Die-Sinking EDM of Alloyed Tool Steel. Advanced Structured Materials, 2020, , 215-233.	0.3	7
9	On the influence of nanoparticles as addition to the A356 aluminum alloy: Is it acting as a refining or strengthening mechanism?. Materialwissenschaft Und Werkstofftechnik, 2020, 51, 594-602.	0.5	1
10	Low-temperature thermoelectric performance of novel polyaniline/iron oxide composites with superior Seebeck coefficient. Applied Physics A: Materials Science and Processing, 2019, 125, 1.	1.1	14
11	Empirical Model for Predicting Process Parameters during Electric Arc Furnace Refining Stage Based on Real Measurements. Steel Research International, 2019, 90, 1900208.	1.0	2
12	Influence of process parameters in electrical discharge machining on H13 die steel. Heliyon, 2019, 5, e01813.	1.4	23
13	Optical properties and microstructure of TiN thin films before and after annealing. Materials Express, 2019, 9, 15-26.	0.2	3
14	Comparison of Solar-Selective Absorbance Properties of TiN, TiNxOy, and TiO2 Thin Films. Minerals, Metals and Materials Series, 2019, , 253-263.	0.3	2
15	DOC-Stabilized PVAc/MWCNTs Composites for Higher Thermoelectric Performance. Minerals, Metals and Materials Series, 2019, , 283-291.	0.3	2
16	Effect of FSP parameters and tool geometry on microstructure, hardness, and wear properties of AA7075 with and without reinforcing B4C ceramic particles. International Journal of Advanced Manufacturing Technology, 2019, 102, 3945-3961.	1.5	42
17	Optical Properties and Microstructure of TiNxOy and TiN Thin Films before and after Annealing at Different Conditions. Coatings, 2019, 9, 22.	1.2	23
18	Production of AlSi12CuNiMg/Al2O3 Micro/Nanodispersed Surface Composites Using Friction Stir Processing for Automotive Applications. Minerals, Metals and Materials Series, 2019, , 233-242.	0.3	3

#	ARTICLE	IF	CITATIONS
19	Fabrication of Supercapacitor Based on Reduced Graphene Oxide for Energy Storage Applications. , 2019, , .		3
20	Design and Manufacturing of Polyaniline- based Thermoelectric Generators. , 2019, , .		0
21	Effect of Nano-Graphite Dispersion on the Thermal Solar Selective Absorbance of Polymeric-Based Coating Material. Minerals, Metals and Materials Series, 2018, , 523-533.	0.3	1
22	Effective Nanoparticles Feeding Treatment in Casting of A356/ZrO ₂ Nano-reinforced Composite. Minerals, Metals and Materials Series, 2018, , 1105-1111.	0.3	0
23	Effect of prolonged temperature exposure on pitting corrosion of duplex stainless steel weld joints. Ain Shams Engineering Journal, 2018, 9, 1407-1415.	3.5	6
24	Simulation of EAF refining stage. Ain Shams Engineering Journal, 2018, 9, 2781-2793.	3.5	9
25	Effect of Gas Dilution Ratios and Substrate Temperature on the Structural Transition of a-Si/ ¹ / ₄ c-Si Thin-Film Solar Cell Using PECVD. Key Engineering Materials, 2018, 786, 373-383.	0.4	1
26	Computational Simulation Model for Metallurgical Effects during EAF Refining Stage: Waiting and Arcing Time. ISIJ International, 2018, 58, 1669-1678.	0.6	7
27	Role of silver nanoparticles deposition temperature on a-Si/ ¹ / ₄ c-Si thin-film solar cell light absorption. Materials Research Express, 2018, 5, 076401.	0.8	1
28	Thermoelectric Behaviour of Polyvinyl Acetate/CNT Composites. Minerals, Metals and Materials Series, 2017, , 287-294.	0.3	3
29	Effect of Heat Treatment on Friction-Stir-Processed Nanodispersed AA7075 and 2024 Al Alloys. Minerals, Metals and Materials Series, 2017, , 297-309.	0.3	3
30	Identification of copper precipitates in scrap based recycled low carbon rebar steel. Materials and Design, 2017, 120, 157-169.	3.3	5
31	Effect of manganese, silicon and chromium additions on microstructure and wear characteristics of grey cast iron for sugar industries applications. Wear, 2017, 390-391, 113-124.	1.5	35
32	Mechanical Properties and Wear Resistance of Semisolid Cast Al ₂ O ₃ Nano Reinforced Hypo and Hyper-eutectic Al- ¹ / ₂ Si Composites. Advanced Structured Materials, 2017, , 13-30.	0.3	7
33	Options for Nanoreinforced Cast Al- ¹ / ₂ Si Alloys with TiO ₂ Nanoparticles. Advanced Structured Materials, 2017, , 1-12.	0.3	1
34	Centrifugal Casting of Al- ¹ / ₂ Si Scrap. Minerals, Metals and Materials Series, 2017, , 1131-1137.	0.3	1
35	Welding-associated failures in power boilers. , 2016, , 387-410.		1
36	Microstructure, Hardness and Impact Toughness of Heat-Treated Nanodispersed Surface and Friction Stir-Processed Aluminum Alloy AA7075. Journal of Materials Engineering and Performance, 2016, 25, 5087-5101.	1.2	26

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37	Influence of friction stir processing on the microstructure and mechanical properties of a compocast AA2024-Al ₂ O ₃ nanocomposite. <i>Materials and Design</i> , 2016, 106, 273-284.	3.3	66
38	The Effect of Process Parameters on the Mechanical Properties of A356 Al-Alloy/ZrO ₂ Nanocomposite. <i>Journal of Nano Research</i> , 2016, 38, 1-8.	0.8	5
39	Nanoreinforced Cast Al-Si Alloys with Al ₂ O ₃ , TiO ₂ and ZrO ₂ Nanoparticles. <i>Metals</i> , 2015, 5, 802-821.	1.0	71
40	Effect of Pouring Temperature and Water Cooling on the Thixotropic Semi-solid Microstructure of A319 Aluminium Cast Alloy. <i>Materials Research</i> , 2015, 18, 170-176.	0.6	27
41	Effect of tempcore processing on mitigating problems of tramp elements in low c steel produced from recycled material. <i>Journal of Iron and Steel Research International</i> , 2015, 22, 582-589.	1.4	7
42	Hardness and Wear Behaviour of Semi-Solid Cast A390 Alloy Reinforced with Al ₂ O ₃ and TiO ₂ Nanoparticles. <i>Arabian Journal for Science and Engineering</i> , 2014, 39, 5171-5184.	1.1	28
43	Effect of Nano-Reinforcement on Properties of Cast Mg-Al Alloy AZ91. , 2014, , 471-476.		0
44	Influence of heat input and post-weld heat treatment on boiler steel P91 (9Crâ€“1Moâ€“Vâ€“Nb) weld joints Part 1 â€“ Microstructure. <i>International Heat Treatment and Surface Engineering</i> , 2013, 7, 23-31.	0.2	19
45	Influence of heat input and post-weld heat treatment on boiler steel P91 (9Crâ€“1Moâ€“Vâ€“Nb) weld joints Part 2 â€“ Mechanical properties. <i>International Heat Treatment and Surface Engineering</i> , 2013, 7, 32-37.	0.2	26
46	Recycling of Metal Products. <i>Green Energy and Technology</i> , 2013, , 29-65.	0.4	2
47	Influence of Al ₂ O ₃ nano-dispersions on microstructure features and mechanical properties of cast and T6 heat-treated Al Si hypoeutectic Alloys. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2012, 556, 76-87.	2.6	65
48	Correlating cutting efficiency and debris retention of endodontic files to their design features using AutoCAD measurements. <i>Engineering Failure Analysis</i> , 2011, 18, 1775-1783.	1.8	2
49	Thermomechanical processing of 42CrMoS4 steel. <i>International Heat Treatment and Surface Engineering</i> , 2010, 4, 87-92.	0.2	2
50	Optimising heat treatment requirements for improved toughness of V containing 3%NiCrMo steel. <i>International Heat Treatment and Surface Engineering</i> , 2010, 4, 81-86.	0.2	1
51	Influence of nanodispersions on strengthâ€“ductility properties of semisolid cast A356 Al alloy. <i>Materials Science and Technology</i> , 2010, 26, 1226-1231.	0.8	26
52	Control of Ca addition for improved cleanness of low C, Al killed steel. <i>Ironmaking and Steelmaking</i> , 2009, 36, 432-441.	1.1	41
53	Failure investigation of secondary super-heater tubes in a power boiler. <i>Engineering Failure Analysis</i> , 2009, 16, 433-448.	1.8	38
54	Correlation between the degree of sensitization and stress corrosion cracking susceptibility of type 304H stainless steel. <i>Corrosion Science</i> , 2009, 51, 203-208.	3.0	63

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55	Improvements in mechanical and stress corrosion cracking properties in Al-alloy 7075 via retrogression and reaging. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2008, 485, 468-475.	2.6	127
56	Synthesis and Characterization of New Cast A356(Al ₂ O ₃)P Metal Matrix Nano-Composites. , 2008, , .		10
57	Current research in Egypt on optimisation of combined mechanical strength and corrosion behaviour of steel rebar. <i>International Heat Treatment and Surface Engineering</i> , 2007, 1, 126-137.	0.2	7
58	Influence of graphite nodularity on microstructure and processing window of 1.5% Ni-0.3% Mo austempered cast iron. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2006, 435-436, 564-572.	2.6	6
59	Comparison of austempering transformation in spheroidal graphite and compacted graphite cast irons. <i>International Journal of Cast Metals Research</i> , 2006, 19, 151-155.	0.5	7
60	Effects of thermal aging on microstructure and mechanical properties of duplex stainless steel weldments. <i>Materials Science and Technology</i> , 2004, 20, 375-381.	0.8	29
61	Thermal aging of 16Cr - 5Ni - 1Mo stainless steel Part 2 - Mechanical property characterisation. <i>Materials Science and Technology</i> , 2004, 20, 370-374.	0.8	16
62	Thermal aging of 16Cr - 5Ni - 1Mo stainless steel Part 1 - Microstructural analysis. <i>Materials Science and Technology</i> , 2004, 20, 363-369.	0.8	40
63	Effect of thermal aging on pitting corrosion resistance of 16Cr - 5Ni - 1Mo precipitation hardening stainless steel. <i>Materials Science and Technology</i> , 2004, 20, 1573-1577.	0.8	3
64	Microstructure and corrosion properties of nitrogen stainless steel 316L produced by hiping. <i>Powder Metallurgy</i> , 2004, 47, 43-48.	0.9	8
65	Morphology and identification of carbides in aged W-alloyed austenitic stainless steel. <i>Materials Letters</i> , 2001, 51, 375-384.	1.3	4
66	Evaluation of effect of chromium on wear performance of high manganese steel. <i>Materials Science and Technology</i> , 2001, 17, 1385-1390.	0.8	33
67	Improvement of Mechanical Properties and Structure Modifications of Low Carbon Steel by Inoculations with Nano-Size Silicon Nitride. <i>Journal of Nano Research</i> , 0, 47, 24-32.	0.8	5
68	Surface Treatment of AISI M2 Tool Steel by Laser Melting. <i>Key Engineering Materials</i> , 0, 786, 128-133.	0.4	3