

Mohammad S Alsoufi

List of Publications by Year in descending order

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papers

667
citations

623734

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62
times ranked

612
citing authors

#	ARTICLE	IF	CITATIONS
1	Energy conservation and environmental sustainability during grinding operation of Ti-6Al-4V alloys via eco-friendly oil/graphene nano additive and Minimum quantity lubrication. Tribology International, 2020, 150, 106387.	5.9	48
2	An extensive analysis of mechanical, thermal and physical properties of jute fiber composites with different fiber orientations. Case Studies in Thermal Engineering, 2021, 28, 101612.	5.7	48
3	Evaluating the effect of minimum quantity lubrication during hard turning of AISI D3 steel using vegetable oil enriched with nano-additives. AEJ - Alexandria Engineering Journal, 2022, 61, 10925-10938.	6.4	38
4	Synthesis and characterization of Nitrogen-doped & CaCO ₃ -decorated reduced graphene oxide nanocomposite for electrochemical supercapacitors. Electrochimica Acta, 2015, 184, 193-202.	5.2	36
5	Municipal Solid Waste Characterization and Landfill Gas Generation in Kakia Landfill, Makkah. Sustainability, 2021, 13, 1462.	3.2	36
6	Enhancing the performance of vanadyl phthalocyanine-based humidity sensor by varying the thickness. Sensors and Actuators B: Chemical, 2019, 279, 148-156.	7.8	35
7	Excellent improvement in photocatalytic nature of ZnO nanoparticles via Fe doping content. Inorganic Chemistry Communication, 2021, 130, 108668.	3.9	27
8	Experimental Characterization of the Influence of Nozzle Temperature in FDM 3D Printed Pure PLA and Advanced PLA+. American Journal of Mechanical Engineering, 2019, 7, 45-60.	0.4	27
9	The (2D-2D) tunnels structured manganese dioxide nanorods with \pm phase for lithium air batteries. Superlattices and Microstructures, 2016, 90, 184-190.	3.1	23
10	Performance Assessment and Chip Morphology Evaluation of Austenitic Stainless Steel under Sustainable Machining Conditions. Metals, 2021, 11, 1931.	2.3	23
11	Machinability Investigation of Nitronic 60 Steel Turning Using SiAlON Ceramic Tools under Different Cooling/Lubrication Conditions. Materials, 2022, 15, 2368.	2.9	21
12	Experimental Investigations into the Mechanical, Tribological, and Corrosion Properties of Hybrid Polymer Matrix Composites Comprising Ceramic Reinforcement for Biomedical Applications. International Journal of Biomaterials, 2018, 2018, 1-8.	2.4	17
13	Mathematical Modelling of a Friction Stir Welding Process to Predict the Joint Strength of Two Dissimilar Aluminium Alloys Using Experimental Data and Genetic Programming. Modelling and Simulation in Engineering, 2018, 2018, 1-18.	0.7	16
14	Multi-output optimization of tribological characteristics control factors of thermally sprayed industrial ceramic coatings using hybrid Taguchi-grey relation analysis. Friction, 2016, 4, 208-216.	6.4	15
15	Experimental investigations on indirect contact type liquid desiccant cooling systems for high latent heat load application. Case Studies in Thermal Engineering, 2022, 31, 101814.	5.7	15
16	Compositional engineering of VOPcPhO-TiO ₂ nano-composite to reduce the absolute threshold value of humidity sensors. Talanta, 2017, 174, 279-284.	5.5	14
17	VOPcPhO:P3HT composite micro-structures with nano-porous surface morphology. Applied Surface Science, 2017, 399, 426-431.	6.1	12
18	A novel self-powered photodiode based on solution-processed organic TPD:Alq ₃ active layer. Materials Science in Semiconductor Processing, 2021, 131, 105886.	4.0	12

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19	Extended Finite Element Numerical Analysis of Scale Effect in Notched Glass Fiber Reinforced Epoxy Composite. <i>Archive of Mechanical Engineering</i> , 2015, 62, 217-236.	0.7	11
20	Organic nanostructure sensing layer developed by AAO template for the application in humidity sensors. <i>Journal of Materials Science: Materials in Electronics</i> , 2019, 30, 2382-2388.	2.2	11
21	From 3D models to FDM 3D prints: experimental study of chemical treatment to reduce stairs-stepping of semi-sphere profile. <i>AIMS Materials Science</i> , 2019, 6, 1086-1106.	1.4	11
22	Quantitative analysis of 0% infill density surface profile of printed part fabricated by personal FDM 3D printer. <i>International Journal of Engineering and Technology(UAE)</i> , 2017, 7, 44.	0.3	10
23	VTP as an Active Layer in a Vertical Organic Field Effect Transistor. <i>Journal of Electronic Materials</i> , 2018, 47, 2184-2191.	2.2	10
24	Optimizing the performance of P3HT-based photodetector by tuning the composition of OXCBA. <i>Synthetic Metals</i> , 2020, 268, 116506.	3.9	10
25	Gallium oxide nanospheres: Effect of the post-annealing treatment. <i>Materials Letters</i> , 2017, 194, 53-57.	2.6	9
26	Organic humidity sensing film optimization by embedding inorganic nano-anatase TiO ₂ powder. <i>Applied Physics A: Materials Science and Processing</i> , 2018, 124, 1.	2.3	9
27	Taguchi-Grey relation analysis for assessing the optimal set of control factors of thermal barrier coatings for high-temperature applications. <i>Mechanics of Advanced Materials and Modern Processes</i> , 2016, 2, .	2.2	8
28	Enhanced sensitivity of zinc phthalocyanine-based microporous humidity sensors by varying size of electrode gaps. <i>Sensors and Actuators B: Chemical</i> , 2021, 343, 130158.	7.8	8
29	Effect of Aqueous Extracts of <i>Salvadora persica</i> "Miswak" on the Acid Eroded Enamel Surface at Nano-Mechanical Scale. <i>Materials Sciences and Applications</i> , 2016, 07, 754-771.	0.4	8
30	In Vitro Degradability, Microstructural Evaluation, and Biocompatibility of Zn-Ti-Cu-Ca-P Alloy. <i>Nanomaterials</i> , 2022, 12, 1357.	4.1	8
31	A study on optoelectronics and spectroscopic properties of TPD:Alq ₃ heterojunction films for the application of UV sensors. <i>Physica B: Condensed Matter</i> , 2021, 600, 412546.	2.7	6
32	The Correlation of Device Parameters with Illumination Energy to Explore the Performance of a Monocrystalline Silicon Solar Module. <i>Silicon</i> , 2022, 14, 1439-1445.	3.3	6
33	Fracture and Mechanical Characteristics Degradation of Glass Fiber Reinforced Petroleum epoxy Pipes. <i>Journal for Manufacturing Science and Production</i> , 2016, 16, 33-40.	0.1	5
34	Co/Cr-Decorated Carbon Nanofibers as Novel and Efficacious Electrocatalyst for Ethanol Oxidation in Alkaline Medium. <i>Journal of Nanoscience and Nanotechnology</i> , 2017, 17, 1280-1286.	0.9	5
35	Mathematical Modeling of Multiple Quality Characteristics of a Laser Microdrilling Process Used in Al7075/SiCp Metal Matrix Composite Using Genetic Programming. <i>Modelling and Simulation in Engineering</i> , 2019, 2019, 1-15.	0.7	5
36	Enhancing the Electrical Properties of Vertical OFETs Using a P(VDF-TrFE) Dielectric Layer. <i>Journal of Electronic Materials</i> , 2020, 49, 1362-1371.	2.2	5

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37	Prediction of Mechanical Properties of Plasma Sprayed Thermal Barrier Coatings (TBCs) with Genetic Programming (GP). SSRG International Journal of Engineering Trends and Technology, 2017, 47, 139-145.	0.5	5
38	Experimental Investigation of Wire-EDM Process Parameters for Surface Roughness in the Machining of Carbon Steel 1017 and Aluminum Alloy 6060. American Journal of Mechanical Engineering, 2018, 6, 132-147.	0.4	5
39	DEVELOPMENT OF A HEAT PIPE AND GREY BASED TAGUCHI METHOD FOR MULTI-OUTPUT OPTIMIZATION TO IMPROVE THERMAL PERFORMANCE USING HYBRID NANOFLUIDS. Frontiers in Heat and Mass Transfer, 0, 12, .	0.2	5
40	Template-assisted growth of nanoporous VTTBnC films: Morphology and moisture sensitivity studies. Materials Letters, 2018, 211, 195-198.	2.6	4
41	Improving the photo-current of poly(3-hexylthiophene): [6,6]-phenyl C71 butyric acid methyl-ester photodetector by incorporating the small molecules. Thin Solid Films, 2020, 703, 137976.	1.8	4
42	Effect of raster inclinations and part positions on mechanical properties, surface roughness and manufacturing price of printed parts produced by fused deposition method. Journal of Mechanical Engineering and Sciences, 2020, 14, 7416-7423.	0.6	4
43	Solvent-free facile fabrication of gold nanoparticles loaded carbon nitride and their photocatalytic performance under visible light illumination. Optik, 2021, 241, 167205.	2.9	3
44	Genetic Based Experimental Investigation on Finishing Characteristics of AlSiCp-MMC by Abrasive Flow Machining. International Journal of Engineering and Technology Innovation, 2020, 10, 293-305.	1.2	3
45	Multi-objective optimizations of mechanical characteristics of objects in computer aided SIS manufacturing process using empirical PSO algorithm. Revista Română De Informatică și Automatică, 2020, 230, 23-36.		3
46	Multiresponse Particle Swarm Optimization of Wire-Electro-Discharge Machining Parameters of Nitinol Alloys. Mathematical Problems in Engineering, 2021, 2021, 1-12.	1.1	3
47	Identification of thermophysical characteristics of materials using heating probe. International Journal of Engineering and Technology(UAE), 2015, 5, 25.	0.3	2
48	Multi-thermal performance optimization of semi-circular heat pipes integrated with various solar collector profiles. Renewables: Wind, Water, and Solar, 2021, 8, .	3.7	2
49	Facile synthesis, characterization, and photoluminescence property of lanthanum incorporated TUD-1. Optik, 2021, 241, 166925.	2.9	2
50	EXPERIMENTAL INVESTIGATIONS ON PRECISION MACHINING OF THERMAL BARRIER COATINGS AND APPLICATION OF THE GREY RELATION APPROACH TO DETERMINE THE OPTIMUM PROCESS PARAMETERS. High Temperature Material Processes, 2016, 20, 333-354.	0.6	2
51	Numerical study of falling binary liquid film evaporation: liquid film thickness. , 0, 74, 35-43.		2
52	Environmental and economic sustainability in the Hajj system. Arabian Journal of Geosciences, 2021, 14, 1.	1.3	2
53	Naphthalocyanine-Based NIR Organic Photodiode: Understanding the Role of Different Types of Fullerenes. Micromachines, 2021, 12, 1383.	2.9	2
54	An investigation on the optical parameters of TPD:Alq3 composite thin films. Physica B: Condensed Matter, 2021, 606, 412816.	2.7	1

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55	Wavelets in the Analysis of Autoregressive Conditional Heteroskedasticity (ARCH) Models Using Neural Network. American Journal of Applied Mathematics, 2016, 4, 92.	0.2	1
56	Influence of Multi-Level Printing Process Parameters on 3D Printed Parts in Fused Deposition Molding of Poly(lactic) Acid Plus: A Comprehensive Investigation. American Journal of Mechanical Engineering, 2019, 7, 87-106.	0.4	1
57	POST-PROCESSING OF CERAMIC OXIDE AND METALLIC COATED SURFACES USING MICROWAVE GLAZING. High Temperature Material Processes, 2017, 21, 37-52.	0.6	1
58	PERFORMANCE CHARACTERISTICS EVALUATION OF VALVED PULSED-JET ENGINE USING PURE PETROLEUM AND BIO-FUELS. International Journal of Energetic Materials and Chemical Propulsion, 2020, 19, 189-198.	0.3	1
59	Effect of silver nanowires on the performance of VTP:PC71BM organic photodiodes. Materials Letters, 2022, 324, 132685.	2.6	1
60	A novel micro-friction measuring-head using force-feedback compensation. Proceedings of SPIE, 2010, , .	0.8	0
61	Characterization of Thermally Sprayed Coated GT Components Made of 3D Printing Based Selective Laser Melting Processed Inconel Alloy 718. International Journal of Aerospace Engineering, 2021, 2021, 1-14.	0.9	0
62	Template-assisted humidity sensors based on PFO-DBT nanotubes: fabrication and characterization. Optical and Quantum Electronics, 2022, 54, .	3.3	0