

Mohammad S Alsoufi

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	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
2	Experimental investigations on indirect contact type liquid desiccant cooling systems for high latent heat load application. <i>Case Studies in Thermal Engineering</i> , 2022, 31, 101814.	5.7	15
3	Machinability Investigation of Nitronic 60 Steel Turning Using SiAlON Ceramic Tools under Different Cooling/Lubrication Conditions. <i>Materials</i> , 2022, 15, 2368.	2.9	21
4	In Vitro Degradability, Microstructural Evaluation, and Biocompatibility of Zn-Ti-Cu-Ca-P Alloy. <i>Nanomaterials</i> , 2022, 12, 1357.	4.1	8
5	Evaluating the effect of minimum quantity lubrication during hard turning of AISI D3 steel using vegetable oil enriched with nano-additives. <i>AEJ - Alexandria Engineering Journal</i> , 2022, 61, 10925-10938.	6.4	38
6	Template-assisted humidity sensors based on PFO-DBT nanotubes: fabrication and characterization. <i>Optical and Quantum Electronics</i> , 2022, 54, .	3.3	0
7	Effect of silver nanowires on the performance of VTP:PC71BM organic photodiodes. <i>Materials Letters</i> , 2022, 324, 132685.	2.6	1
8	A study on optoelectronics and spectroscopic properties of TPD:Alq3 heterojunction films for the application of UV sensors. <i>Physica B: Condensed Matter</i> , 2021, 600, 412546.	2.7	6
9	Multi-thermal performance optimization of semi-circular heat pipes integrated with various solar collector profiles. <i>Renewables: Wind, Water, and Solar</i> , 2021, 8, .	3.7	2
10	An investigation on the optical parameters of TPD:Alq3 composite thin films. <i>Physica B: Condensed Matter</i> , 2021, 606, 412816.	2.7	1
11	Characterization of Thermally Sprayed Coated GT Components Made of 3D Printing Based Selective Laser Melting Processed Inconel Alloy 718. <i>International Journal of Aerospace Engineering</i> , 2021, 2021, 1-14.	0.9	0
12	Excellent improvement in photocatalytic nature of ZnO nanoparticles via Fe doping content. <i>Inorganic Chemistry Communication</i> , 2021, 130, 108668.	3.9	27
13	A novel self-powered photodiode based on solution-processed organic TPD:Alq3 active layer. <i>Materials Science in Semiconductor Processing</i> , 2021, 131, 105886.	4.0	12
14	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
15	Solvent-free facile fabrication of gold nanoparticles loaded carbon nitride and their photocatalytic performance under visible light illumination. <i>Optik</i> , 2021, 241, 167205.	2.9	3
16	Facile synthesis, characterization, and photoluminescence property of lanthanum incorporated TUD-1. <i>Optik</i> , 2021, 241, 166925.	2.9	2
17	Municipal Solid Waste Characterization and Landfill Gas Generation in Kakia Landfill, Makkah. <i>Sustainability</i> , 2021, 13, 1462.	3.2	36
18	Environmental and economic sustainability in the Hajj system. <i>Arabian Journal of Geosciences</i> , 2021, 14, 1.	1.3	2

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19	An extensive analysis of mechanical, thermal and physical properties of jute fiber composites with different fiber orientations. <i>Case Studies in Thermal Engineering</i> , 2021, 28, 101612.	5.7	48
20	Performance Assessment and Chip Morphology Evaluation of Austenitic Stainless Steel under Sustainable Machining Conditions. <i>Metals</i> , 2021, 11, 1931.	2.3	23
21	Naphthalocyanine-Based NIR Organic Photodiode: Understanding the Role of Different Types of Fullerenes. <i>Micromachines</i> , 2021, 12, 1383.	2.9	2
22	Multiresponse Particle Swarm Optimization of Wire-Electro-Discharge Machining Parameters of Nitinol Alloys. <i>Mathematical Problems in Engineering</i> , 2021, 2021, 1-12.	1.1	3
23	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
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	Improving the photo-current of poly(3-hexylthiophene): [6,6]-phenyl C71 butyric acid methyl-ester photodetector by incorporating the small molecules. <i>Thin Solid Films</i> , 2020, 703, 137976.	1.8	4
26	Energy conservation and environmental sustainability during grinding operation of Ti-6Al-4V alloys via eco-friendly oil/graphene nano additive and Minimum quantity lubrication. <i>Tribology International</i> , 2020, 150, 106387.	5.9	48
27	Effect of raster inclinations and part positions on mechanical properties, surface roughness and manufacturing price of printed parts produced by fused deposition method. <i>Journal of Mechanical Engineering and Sciences</i> , 2020, 14, 7416-7423.	0.6	4
28	Genetic Based Experimental Investigation on Finishing Characteristics of AlSiCp-MMC by Abrasive Flow Machining. <i>International Journal of Engineering and Technology Innovation</i> , 2020, 10, 293-305.	1.2	3
29	Multi-objective optimizations of mechanical characteristics of objects in computer aided SIS manufacturing process using empirical PSO algorithm. <i>Revista Română De Informatică și Automatică</i> , 2020, 230, 23-36.		3
30	PERFORMANCE CHARACTERISTICS EVALUATION OF VALVED PULSED-JET ENGINE USING PURE PETROLEUM AND BIO-FUELS. <i>International Journal of Energetic Materials and Chemical Propulsion</i> , 2020, 19, 189-198.	0.3	1
31	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
32	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
33	Enhancing the performance of vanadyl phthalocyanine-based humidity sensor by varying the thickness. <i>Sensors and Actuators B: Chemical</i> , 2019, 279, 148-156.	7.8	35
34	Experimental Characterization of the Influence of Nozzle Temperature in FDM 3D Printed Pure PLA and Advanced PLA+. <i>American Journal of Mechanical Engineering</i> , 2019, 7, 45-60.	0.4	27
35	Influence of Multi-Level Printing Process Parameters on 3D Printed Parts in Fused Deposition Molding of Poly(lactic) Acid Plus: A Comprehensive Investigation. <i>American Journal of Mechanical Engineering</i> , 2019, 7, 87-106.	0.4	1
36	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

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37	VTP as an Active Layer in a Vertical Organic Field Effect Transistor. Journal of Electronic Materials, 2018, 47, 2184-2191.	2.2	10
38	Template-assisted growth of nanoporous VTTBNC films: Morphology and moisture sensitivity studies. Materials Letters, 2018, 211, 195-198.	2.6	4
39	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
40	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
41	Organic humidity sensing film optimization by embedding inorganic nano-anatase TiO ₂ powder. Applied Physics A: Materials Science and Processing, 2018, 124, 1.	2.3	9
42	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
43	Gallium oxide nanospheres: Effect of the post-annealing treatment. Materials Letters, 2017, 194, 53-57.	2.6	9
44	Co/Cr-Decorated Carbon Nanofibers as Novel and Efficacious Electrocatalyst for Ethanol Oxidation in Alkaline Medium. Journal of Nanoscience and Nanotechnology, 2017, 17, 1280-1286.	0.9	5
45	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
46	VOPcPhO:P3HT composite micro-structures with nano-porous surface morphology. Applied Surface Science, 2017, 399, 426-431.	6.1	12
47	Quantitative analysis of 0% infill density surface profile of printed part fabricated by personal FDM 3D printer. International Journal of Engineering and Technology(UAE), 2017, 7, 44.	0.3	10
48	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
49	POST-PROCESSING OF CERAMIC OXIDE AND METALLIC COATED SURFACES USING MICROWAVE GLAZING. High Temperature Material Processes, 2017, 21, 37-52.	0.6	1
50	Taguchi-Grey relation analysis for assessing the optimal set of control factors of thermal barrier coatings for high-temperature applications. Mechanics of Advanced Materials and Modern Processes, 2016, 2, .	2.2	8
51	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
52	The (2Å–Å ²) tunnels structured manganese dioxide nanorods with \pm phase for lithium air batteries. Superlattices and Microstructures, 2016, 90, 184-190.	3.1	23
53	Fracture and Mechanical Characteristics Degradation of Glass Fiber Reinforced Petroleum epoxy Pipes. Journal for Manufacturing Science and Production, 2016, 16, 33-40.	0.1	5
54	Wavelets in the Analysis of Autoregressive Conditional Heteroskedasticity (ARCH) Models Using Neural Network. American Journal of Applied Mathematics, 2016, 4, 92.	0.2	1

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55	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
56	Effect of Aqueous Extracts of <i>Salvadora persica</i> "Miswak" on the Acid Eroded Enamel Surface at Nano-Mechanical Scale. Materials Sciences and Applications, 2016, 07, 754-771.	0.4	8
57	Identification of thermophysical characteristics of materials using heating probe. International Journal of Engineering and Technology(UAE), 2015, 5, 25.	0.3	2
58	Extended Finite Element Numerical Analysis of Scale Effect in Notched Glass Fiber Reinforced Epoxy Composite. Archive of Mechanical Engineering, 2015, 62, 217-236.	0.7	11
59	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
60	A novel micro-friction measuring-head using force-feedback compensation. Proceedings of SPIE, 2010, , .	0.8	0
61	Numerical study of falling binary liquid film evaporation: liquid film thickness. , 0, 74, 35-43.		2
62	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