C Ahamed Saleel

List of Publications by Year
in descending order

102 papers	1,826 citations	236925 25 h-index	361022 35 g-index
104 all docs	104 docs citations	104 times ranked	977 citing authors

#	Article	IF	Citations
1	A Review on Battery Modelling Techniques. Sustainability, 2021, 13, 10042.	3.2	100
2	Novel approach to the analysis of fifth-order weakly nonlocal fractional SchrÃ¶dinger equation with Caputo derivative. Results in Physics, 2021, 31, 104958.	4.1	60
3	Thermal examination of renewable solar energy in parabolic trough solar collector utilizing Maxwell nanofluid: A noble case study. Case Studies in Thermal Engineering, 2021, 27, 101258.	5.7	59
4	Active drying of unripened bananas (Musa Nendra) in a multi-tray mixed-mode solar cabinet dryer with backup energy storage. Solar Energy, 2019, 188, 1002-1012.	6.1	58
5	Air-conditioning condensate recovery and applicationsâ€"Current developments and challenges ahead. Sustainable Cities and Society, 2018, 37, 263-274.	10.4	56
6	Thermal Performance of Compression Ignition Engine Using High Content Biodiesels: A Comparative Study with Diesel Fuel. Sustainability, 2021, 13, 7688.	3.2	55
7	Role of ultrasonication duration and surfactant on characteristics of ZnO and CuO nanofluids. Materials Research Express, 2019, 6, 1150d8.	1.6	54
8	Human thermal comfort in passenger vehicles using an organic phase change materialâ€" an experimental investigation, neural network modelling, and optimization. Building and Environment, 2020, 180, 107012.	6.9	49
9	Synthesis and Characterization of Mechanical Properties and Wire Cut EDM Process Parameters Analysis in AZ61 Magnesium Alloy + B4C + SiC. Materials, 2021, 14, 3689.	2.9	45
10	Optimization of Thermal and Structural Design in Lithium-Ion Batteries to Obtain Energy Efficient Battery Thermal Management System (BTMS): A Critical Review. Archives of Computational Methods in Engineering, 2022, 29, 129-194.	10.2	44
11	Thermal analyses of minichannels and use of mathematical and numerical models. Numerical Heat Transfer; Part A: Applications, 2020, 77, 497-537.	2.1	43
12	A numerical frame work of magnetically driven Powell-Eyring nanofluid using single phase model. Scientific Reports, 2021, 11, 16500.	3.3	43
13	Effect of injection timing in reducing the harmful pollutants emitted from CI engine using N-butanol antioxidant blended eco-friendly Mahua biodiesel. Energy Reports, 2021, 7, 6205-6221.	5.1	43
14	Mechanical and Corrosion Studies of Friction Stir Welded Nano Al2O3 Reinforced Al-Mg Matrix Composites: RSM-ANN Modelling Approach. Symmetry, 2021, 13, 537.	2.2	41
15	An overview on energy and exergy analysis of solar thermal collectors with passive performance enhancers. AEJ - Alexandria Engineering Journal, 2022, 61, 8123-8147.	6.4	41
16	A novel case study of thermal and streamline analysis in a grooved enclosure filled with (Agâ€"MgO/Water) hybrid nanofluid: Galerkin FEM. Case Studies in Thermal Engineering, 2021, 28, 101372.	5.7	40
17	Epidemiological analysis of fractional order COVID-19 model with Mittag-Leffler kernel. AIMS Mathematics, 2021, 7, 756-783.	1.6	37
18	Supervised neural networks learning algorithm for three dimensional hybrid nanofluid flow with radiative heat and mass fluxes. Ain Shams Engineering Journal, 2022, 13, 101573.	6.1	34

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19	Influence of the Fly Ash Material Inoculants on the Tensile and Impact Characteristics of the Aluminum AA 5083/7.5SiC Composites. Materials, 2021, 14, 2452.	2.9	30
20	Galerkin finite element analysis of Darcyâ€"Brinkmanâ€"Forchheimer natural convective flow in conical annular enclosure with discrete heat sources. Energy Reports, 2021, 7, 6172-6181.	5.1	30
21	Computational Investigation of the Combined Impact of Nonlinear Radiation and Magnetic Field on Three-Dimensional Rotational Nanofluid Flow across a Stretchy Surface. Processes, 2021, 9, 1453.	2.8	29
22	Magnesium doped TiO2 as an efficient electron transport layer in perovskite solar cells. Case Studies in Thermal Engineering, 2021, 26, 101101.	5.7	28
23	Microstructure, Mechanical Properties, and Corrosion Behavior of Boron Carbide Reinforced Aluminum Alloy (Al-Fe-Si-Zn-Cu) Matrix Composites Produced via Powder Metallurgy Route. Materials, 2021, 14, 4315.	2.9	28
24	Influence of Heat Treatment and Reinforcements on Tensile Characteristics of Aluminium AA 5083/Silicon Carbide/Fly Ash Composites. Materials, 2021, 14, 5261.	2.9	28
25	Features of Cu and TiO2 in the flow of engine oil subject to thermal jump conditions. Scientific Reports, 2021, 11, 19592.	3.3	28
26	Coconut oil as phase change material to maintain thermal comfort in passenger vehicles. Journal of Thermal Analysis and Calorimetry, 2019, 136, 629-636.	3.6	26
27	Influence of the location of discrete macro-encapsulated thermal energy storage on the performance of a double pass solar plate collector system. Renewable Energy, 2020, 146, 675-686.	8.9	26
28	Investigation of Mechanical and Physical Properties of Big Sheep Horn as an Alternative Biomaterial for Structural Applications. Materials, 2021, 14, 4039.	2.9	26
29	Partial velocity slip effect on working magneto non-Newtonian nanofluids flow in solar collectors subject to change viscosity and thermal conductivity with temperature. PLoS ONE, 2021, 16, e0259881.	2.5	25
30	Performance comparison of empirical model and Particle Swarm Optimization & its boiling point prediction models for waste sunflower oil biodiesel. Case Studies in Thermal Engineering, 2022, 33, 101947.	5.7	23
31	Merits and Limitations of Mathematical Modeling and Computational Simulations in Mitigation of COVID-19 Pandemic: A Comprehensive Review. Archives of Computational Methods in Engineering, 2022, 29, 1311-1337.	10.2	21
32	Integrated Taguchi-GRA-RSM optimization and ANN modelling of thermal performance of zinc oxide nanofluids in an automobile radiator. Case Studies in Thermal Engineering, 2021, 26, 101068.	5.7	21
33	Different analytical approaches for finding novel optical solitons with generalized third-order nonlinear SchrÃ¶dinger equation. Results in Physics, 2021, 29, 104755.	4.1	21
34	A study of sound pressure level (SPL) inside the truck cabin for new acoustic materials: An experimental and FEA approach. AEJ - Alexandria Engineering Journal, 2021, 60, 5949-5976.	6.4	21
35	The Combined Effect of Alcohols and Calophyllum inophyllum Biodiesel Using Response Surface Methodology Optimization. Sustainability, 2021, 13, 7345.	3.2	20
36	Experimental Investigation of the Base Flow and Base Pressure of Sudden Expansion Nozzle. IOP Conference Series: Materials Science and Engineering, 2018, 370, 012052.	0.6	18

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37	Assessment of the Thermo-Hydraulic Efficiency of an Indoor-Designed Jet Impingement Solar Thermal Collector Roughened with Single Discrete Arc-Shaped Ribs. Sustainability, 2022, 14, 3527.	3.2	17
38	Magnetic Dipole and Thermophoretic Particle Deposition Impact on Bioconvective Oldroyd-B Fluid Flow over a Stretching Surface with Cattaneoâ€"Christov Heat Flux. Nanomaterials, 2022, 12, 2181.	4.1	17
39	Thermal modelling and characteristic evaluation of electric vehicle battery system. Case Studies in Thermal Engineering, 2021, 26, 101058.	5.7	16
40	Parameter Study on Friction Surfacing of AISI316Ti Stainless Steel over EN8 Carbon Steel and Its Effect on Coating Dimensions and Bond Strength. Materials, 2021, 14, 4967.	2.9	16
41	The intelligent networks for double-diffusion and MHD analysis of thin film flow over a stretched surface. Scientific Reports, 2021, 11, 19239.	3.3	15
42	Joule heating and viscous dissipation effects in hydromagnetized boundary layer flow with variable temperature. Case Studies in Thermal Engineering, 2022, 35, 102083.	5.7	15
43	Effect of parameters on thermal and fluid-flow behavior of battery thermal management system. Thermal Science, 2021, 25, 3775-3787.	1.1	14
44	Clustering of COVID-19 data for knowledge discovery using c-means and fuzzy c-means. Results in Physics, 2021, 29, 104639.	4.1	14
45	Entropy Generation Analysis of Peristaltic Flow of Nanomaterial in a Rotating Medium through Generalized Complaint Walls of Micro-Channel with Radiation and Heat Flux Effects. Micromachines, 2022, 13, 375.	2.9	14
46	A review on the use of coconut oil as an organic phase change material with its melting process, heat transfer, and energy storage characteristics. Journal of Thermal Analysis and Calorimetry, 2022, 147, 4451-4472.	3.6	13
47	Blends of scum oil methyl ester, alcohols, silver nanoparticles and the operating conditions affecting the diesel engine performance and emission: an optimization study using Dragon fly algorithm. Applied Nanoscience (Switzerland), 2021, 11, 2415-2432.	3.1	13
48	On Simulation of Double-Diffusive Natural Convection in a Micropolar Nanofluid Filled Cubic Cavity. Heat Transfer Engineering, 2021, 42, 947-965.	1.9	12
49	Sustainable Adsorption Method for the Remediation of Crystal Violet Dye Using Nutraceutical Industrial Fenugreek Seed Spent. Applied Sciences (Switzerland), 2021, 11, 7635.	2.5	12
50	Exergy, sustainability and performance analysis of ground source direct evaporative cooling system. Case Studies in Thermal Engineering, 2022, 31, 101810.	5.7	12
51	A case study on the electrical energy auditing and saving techniques in an educational institution (IMCO, Sohar, Oman). Case Studies in Thermal Engineering, 2022, 31, 101820.	5.7	11
52	Experimental based comparative exergy analysis of a sparkâ€ignition Honda GX270 Genset engine fueled with LPG and syngas. Energy Science and Engineering, 2022, 10, 2191-2204.	4.0	11
53	Influence of artificial roughness parametric variation on thermal performance of solar thermal collector: An experimental study, response surface analysis and ANN modelling. Sustainable Energy Technologies and Assessments, 2022, 52, 102047.	2.7	11
54	Shrinkage Study and Strength Aspects of Concrete with Foundry Sand and Coconut Shell as a Partial Replacement for Coarse and Fine Aggregate. Materials, 2021, 14, 7420.	2.9	11

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55	Parallel finite volume method-based fluid flow computations using OpenMP and CUDA applying different schemes. Journal of Thermal Analysis and Calorimetry, 2021, 145, 1891-1909.	3.6	10
56	Experimental investigation of the impact of CeO2 nanoparticles in Jet-A and Jatropha-SPK blended fuel in an aircraft can-combustor at flight conditions. Fuel, 2022, 317, 123393.	6.4	10
57	Thermal Performance Study of Solar Air Dryers for Cashew Kernel: A Comparative Analysis and Modelling Using Response Surface Methodology (RSM) and Artificial Neural Network (ANN). International Journal of Photoenergy, 2022, 2022, 1-18.	2.5	10
58	Numerical investigation of the effect of spray angle on emission characteristics of a diesel engine fueled with natural gas and diesel. Energy Reports, 2021, 7, 7273-7287.	5.1	9
59	Grey Wolf Optimizer for enhancing Nicotiana Tabacum L. oil methyl ester and prediction model for calorific values. Case Studies in Thermal Engineering, 2022, 35, 102095.	5.7	9
60	Performance enhancement in tribological properties of lubricants by dispersing TiO2 nanoparticles. Materials Today: Proceedings, 2021, 47, 6180-6184.	1.8	8
61	Thermally radiated jeffery fluid flow with nanoparticles over a surface of varying thickness in the influence of heat source. Case Studies in Thermal Engineering, 2021, 28, 101549.	5.7	8
62	Energetic, exergetic, and thermoeconomic analyses of different nanoparticles-added lubricants in a heat pump water heater. Case Studies in Thermal Engineering, 2022, 33, 101975.	5.7	8
63	Three-Dimensional Numerical Analysis on Performance Enhancement of Micropolar Hybrid Nanofluid in Comparison with Simple Nanofluid. Heat Transfer Engineering, 2021, 42, 1590-1610.	1.9	7
64	Computational examination of Jeffrey nanofluid through a stretchable surface employing Tiwari and Das model. Open Physics, 2021, 19, 897-911.	1.7	7
65	Comparative Analysis on Dehumidification Performance of KCOOHâ€"LiCl Hybrid Liquid Desiccant Air-Conditioning System: An Energy-Saving Approach. Sustainability, 2022, 14, 3441.	3.2	7
66	Numerical study on melting and heat transfer characteristics of paraffin wax/ SiC paraffin using enthalpy-porosity model. Journal of Thermal Analysis and Calorimetry, 2022, 147, 10497-10508.	3.6	7
67	Investigating the Water Jet Erosion Performance of HVOF-Sprayed WC-10Co Coatings on 35CrMo Steel Utilizing Design of Experiments. Coatings, 2022, 12, 482.	2.6	7
68	Forecasting the energy output from a combined cycle thermal power plant using deep learning models. Case Studies in Thermal Engineering, 2021, 28, 101693.	5.7	7
69	Effects of asna fibre reinforced with epoxy resin with and without steel wire mesh and simulation of car bumper. Materials Research Express, 2022, 9, 055301.	1.6	7
70	Developments in Nanoparticles Enhanced Biofuels and Solar Energy in Malaysian Perspective: A Review of State of the Art. Journal of Nanomaterials, 2022, 2022, 1-22.	2.7	7
71	An experimental analysis of single slope solar still integrated with parabolic trough collector and packed layer of glass balls. Journal of Thermal Analysis and Calorimetry, 2021, 146, 2655-2665.	3.6	6
72	Numerical analysis and machine learning for battery thermal performance cooled with different fluids. International Journal of Energy Research, 2022, 46, 21452-21466.	4.5	6

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73	The influence of exhaust gas recirculation on the characteristics of compression ignition engines powered by tamanu methyl ester. International Journal of Low-Carbon Technologies, 2022, 17, 856-869.	2.6	6
74	COMPUTATIONAL SIMULATION OF FLUID FLOW OVER A TRIANGULAR STEP USING IMMERSED BOUNDARY METHOD. International Journal of Computational Methods, 2013, 10, 1350016.	1.3	5
75	Influence of bifurcation angle in left coronary artery with stenosis: A CFD analysis. Bio-Medical Materials and Engineering, 2020, 31, 339-349.	0.6	5
76	Experimental investigation of mechanical properties of Acrylonitrile Butadiene Styrene (ABS) based polymer for Submersible pumps. IOP Conference Series: Materials Science and Engineering, 2021, 1065, 012035.	0.6	5
77	Comparative Analysis of Performance, Emission, and Combustion Characteristics of a Common Rail Direct Injection Diesel Engine Powered with Three Different Biodiesel Blends. Energies, 2021, 14, 5597.	3.1	5
78	Dynamical behaviour of the foam drainage equation. Results in Physics, 2021, 30, 104844.	4.1	5
79	Computational fluid dynamics analysis on solar water heater: Role of thermal stratification and mixing on dynamic mode of operation. Thermal Science, 2020, 24, 1461-1472.	1.1	5
80	Pressure-Driven Electro-Osmotic Flow and Mass Transport in Constricted Mixing Micro-Channels. Journal of Applied Fluid Mechanics, 2020, 13, 429-441.	0.2	5
81	Numerical investigation on pressure-driven electro osmatic flow and mixing in a constricted micro channel by triangular obstacle. International Journal of Numerical Methods for Heat and Fluid Flow, 2021, 31, 982-1013.	2.8	4
82	Numerical analysis of rectangular fins with circular perforations. Materials Today: Proceedings, 2021, 47, 6235-6241.	1.8	4
83	The influence of multi-stenosis in the left coronary artery subjected to the variable blood flow rate. Frontiers in Engineering and Built Environment, 2021, 1, 97-106.	1.5	4
84	Heat Transfer and Entropy in a Vertical Porous Plate Subjected to Suction Velocity and MHD. Entropy, 2021, 23, 1069.	2.2	4
85	Thermal and Mechanical Properties of Vinyl Ester Hybrid Composites with Carbon Black and Glass Reinforcement. Advances in Materials Science and Engineering, 2021, 2021, 1-7.	1.8	4
86	Numerical Analysis of Film Cooling Due to Simple/Compound Angle Hole Combination. Arabian Journal for Science and Engineering, 2020, 45, 8931-8944.	3.0	3
87	Transient Heat Transfer Analysis Of Dimpled Rod. IOP Conference Series: Materials Science and Engineering, 2021, 1065, 012034.	0.6	3
88	Heat transfer enhancement of rectangular fins with circular perforations. Materials Today: Proceedings, 2021, 47, 6185-6191.	1.8	3
89	Performance Investigation of Supercritical CO2 Brayton Cycles in Combination With Solar Power and Waste Heat Recovery Systems. Journal of Solar Energy Engineering, Transactions of the ASME, 2022, 144, .	1.8	3
90	Erosion wear behavior of glass fiber hybridized flax and sisal fabric hybrid composites with taguchi experimental design. Materials Today: Proceedings, 2021, 47, 5901-5906.	1.8	2

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91	Flow control in microfluidics devices: electro-osmotic Couette flow with joule heating effect. Frontiers in Engineering and Built Environment, 2021, 1, 146-160.	1.5	2
92	Vibration analysis of composite exhaust manifold for diesel engine using CFD. Case Studies in Thermal Engineering, 2022, , 101853.	5.7	2
93	Effect of Injection Parameters on the Performance of Compression Ignition Engine Powered with Jamun Seed and Cashew Nutshell B20 Biodiesel Blends. Sustainability, 2022, 14, 4642.	3.2	2
94	Investigation of heat transfer in porous channels. International Journal of Numerical Methods for Heat and Fluid Flow, 2019, 30, 1497-1517.	2.8	1
95	An immersed boundary method for simulations of flow and mixing in micro-channels with electro kinetic effects. Progress in Computational Fluid Dynamics, 2020, 20, 93.	0.2	1
96	Stratified heat transfer of magneto-tangent hyperbolic bio-nanofluid flow with gyrotactic microorganisms: Keller-Box solution technique. Open Physics, 2021, 19, 568-582.	1.7	1
97	Comparative Study of the Mechanical and Water Absorption Behaviour of Basalt Fiber Reinforced Polymer Matrix Composites with Different Epoxies as Matrix for Biomedical Applications. Advances in Materials Science and Engineering, 2021, 2021, 1-9.	1.8	1
98	Performance of new dyes along with some semi conductive oxides (ZnO) and analysis of the same. Materials Today: Proceedings, 2021, , .	1.8	0
99	Preparation of dye (Bala gidda) for DSSC application. Materials Today: Proceedings, 2021, , .	1.8	0
100	Performance and Emission analysis of Multi-Cylinder Common Rail Direct Injection Diesel Engine Powered with Blends of Tyre Pyrolysis Oil-Ethanol-Diesel. Journal of Engineering Research, 0, , .	0.7	0
101	Effect of non-conjugate and conjugate condition on heat transfer from battery pack. AEJ - Alexandria Engineering Journal, 2022, 61, 3131-3145.	6.4	0
102	Investigation of Dualâ€"Pass Inclined Oscillating Bed Solar Dryer for Drying of Non-Parboiled Paddy Grains. Sustainability, 2022, 14, 5558.	3.2	0