

C Ahamed Saleel

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/8955027/publications.pdf>

Version: 2024-02-01

102
papers

1,826
citations

236912

25
h-index

361001

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 Schrödinger 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 applications"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 material" 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 Al ₂ O ₃ 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 (Ag-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

#	ARTICLE	IF	CITATIONS
19	Influence of the Fly Ash Material Inoculants on the Tensile and Impact Characteristics of the Aluminum AA 5083/7.5SiC Composites. <i>Materials</i> , 2021, 14, 2452.	2.9	30
20	Galerkin finite element analysis of Darcy–Brinkman–Forchheimer natural convective flow in conical annular enclosure with discrete heat sources. <i>Energy Reports</i> , 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. <i>Processes</i> , 2021, 9, 1453.	2.8	29
22	Magnesium doped TiO ₂ as an efficient electron transport layer in perovskite solar cells. <i>Case Studies in Thermal Engineering</i> , 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. <i>Materials</i> , 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. <i>Materials</i> , 2021, 14, 5261.	2.9	28
25	Features of Cu and TiO ₂ in the flow of engine oil subject to thermal jump conditions. <i>Scientific Reports</i> , 2021, 11, 19592.	3.3	28
26	Coconut oil as phase change material to maintain thermal comfort in passenger vehicles. <i>Journal of Thermal Analysis and Calorimetry</i> , 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. <i>Renewable Energy</i> , 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. <i>Materials</i> , 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. <i>PLoS ONE</i> , 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. <i>Case Studies in Thermal Engineering</i> , 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. <i>Archives of Computational Methods in Engineering</i> , 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. <i>Case Studies in Thermal Engineering</i> , 2021, 26, 101068.	5.7	21
33	Different analytical approaches for finding novel optical solitons with generalized third-order nonlinear Schrödinger equation. <i>Results in Physics</i> , 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. <i>AEJ - Alexandria Engineering Journal</i> , 2021, 60, 5949-5976.	6.4	21
35	The Combined Effect of Alcohols and Calophyllum inophyllum Biodiesel Using Response Surface Methodology Optimization. <i>Sustainability</i> , 2021, 13, 7345.	3.2	20
36	Experimental Investigation of the Base Flow and Base Pressure of Sudden Expansion Nozzle. <i>IOP Conference Series: Materials Science and Engineering</i> , 2018, 370, 012052.	0.6	18

#	ARTICLE	IF	CITATIONS
37	Assessment of the Thermo-Hydraulic Efficiency of an Indoor-Designed Jet Impingement Solar Thermal Collector Roughened with Single Discrete Arc-Shaped Ribs. <i>Sustainability</i> , 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 Cattaneo-Christov Heat Flux. <i>Nanomaterials</i> , 2022, 12, 2181.	4.1	17
39	Thermal modelling and characteristic evaluation of electric vehicle battery system. <i>Case Studies in Thermal Engineering</i> , 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. <i>Materials</i> , 2021, 14, 4967.	2.9	16
41	The intelligent networks for double-diffusion and MHD analysis of thin film flow over a stretched surface. <i>Scientific Reports</i> , 2021, 11, 19239.	3.3	15
42	Joule heating and viscous dissipation effects in hydromagnetized boundary layer flow with variable temperature. <i>Case Studies in Thermal Engineering</i> , 2022, 35, 102083.	5.7	15
43	Effect of parameters on thermal and fluid-flow behavior of battery thermal management system. <i>Thermal Science</i> , 2021, 25, 3775-3787.	1.1	14
44	Clustering of COVID-19 data for knowledge discovery using c-means and fuzzy c-means. <i>Results in Physics</i> , 2021, 29, 104639.	4.1	14
45	Entropy Generation Analysis of Peristaltic Flow of Nanomaterial in a Rotating Medium through Generalized Compliant Walls of Micro-Channel with Radiation and Heat Flux Effects. <i>Micromachines</i> , 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. <i>Journal of Thermal Analysis and Calorimetry</i> , 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. <i>Applied Nanoscience (Switzerland)</i> , 2021, 11, 2415-2432.	3.1	13
48	On Simulation of Double-Diffusive Natural Convection in a Micropolar Nanofluid Filled Cubic Cavity. <i>Heat Transfer Engineering</i> , 2021, 42, 947-965.	1.9	12
49	Sustainable Adsorption Method for the Remediation of Crystal Violet Dye Using Nutraceutical Industrial Fenugreek Seed Spent. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 7635.	2.5	12
50	Exergy, sustainability and performance analysis of ground source direct evaporative cooling system. <i>Case Studies in Thermal Engineering</i> , 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). <i>Case Studies in Thermal Engineering</i> , 2022, 31, 101820.	5.7	11
52	Experimental based comparative exergy analysis of a spark ignition Honda GX270 Genset engine fueled with LPG and syngas. <i>Energy Science and Engineering</i> , 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. <i>Sustainable Energy Technologies and Assessments</i> , 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. <i>Materials</i> , 2021, 14, 7420.	2.9	11

#	ARTICLE	IF	CITATIONS
55	Parallel finite volume method-based fluid flow computations using OpenMP and CUDA applying different schemes. <i>Journal of Thermal Analysis and Calorimetry</i> , 2021, 145, 1891-1909.	3.6	10
56	Experimental investigation of the impact of CeO ₂ nanoparticles in Jet-A and Jatropa-SPK blended fuel in an aircraft can-combustor at flight conditions. <i>Fuel</i> , 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). <i>International Journal of Photoenergy</i> , 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. <i>Energy Reports</i> , 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. <i>Case Studies in Thermal Engineering</i> , 2022, 35, 102095.	5.7	9
60	Performance enhancement in tribological properties of lubricants by dispersing TiO ₂ nanoparticles. <i>Materials Today: Proceedings</i> , 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. <i>Case Studies in Thermal Engineering</i> , 2021, 28, 101549.	5.7	8
62	Energetic, exergetic, and thermoeconomic analyses of different nanoparticles-added lubricants in a heat pump water heater. <i>Case Studies in Thermal Engineering</i> , 2022, 33, 101975.	5.7	8
63	Three-Dimensional Numerical Analysis on Performance Enhancement of Micropolar Hybrid Nanofluid in Comparison with Simple Nanofluid. <i>Heat Transfer Engineering</i> , 2021, 42, 1590-1610.	1.9	7
64	Computational examination of Jeffrey nanofluid through a stretchable surface employing Tiwari and Das model. <i>Open Physics</i> , 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. <i>Sustainability</i> , 2022, 14, 3441.	3.2	7
66	Numerical study on melting and heat transfer characteristics of paraffin wax/ SiC paraffin using enthalpy-porosity model. <i>Journal of Thermal Analysis and Calorimetry</i> , 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. <i>Coatings</i> , 2022, 12, 482.	2.6	7
68	Forecasting the energy output from a combined cycle thermal power plant using deep learning models. <i>Case Studies in Thermal Engineering</i> , 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. <i>Materials Research Express</i> , 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. <i>Journal of Nanomaterials</i> , 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. <i>Journal of Thermal Analysis and Calorimetry</i> , 2021, 146, 2655-2665.	3.6	6
72	Numerical analysis and machine learning for battery thermal performance cooled with different fluids. <i>International Journal of Energy Research</i> , 2022, 46, 21452-21466.	4.5	6

#	ARTICLE	IF	CITATIONS
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 osmotic 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

#	ARTICLE	IF	CITATIONS
91	Flow control in microfluidics devices: electro-osmotic Couette flow with joule heating effect. <i>Frontiers in Engineering and Built Environment</i> , 2021, 1, 146-160.	1.5	2
92	Vibration analysis of composite exhaust manifold for diesel engine using CFD. <i>Case Studies in Thermal Engineering</i> , 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. <i>Sustainability</i> , 2022, 14, 4642.	3.2	2
94	Investigation of heat transfer in porous channels. <i>International Journal of Numerical Methods for Heat and Fluid Flow</i> , 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. <i>Progress in Computational Fluid Dynamics</i> , 2020, 20, 93.	0.2	1
96	Stratified heat transfer of magneto-tangent hyperbolic bio-nanofluid flow with gyrotactic microorganisms: Keller-Box solution technique. <i>Open Physics</i> , 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. <i>Advances in Materials Science and Engineering</i> , 2021, 2021, 1-9.	1.8	1
98	Performance of new dyes along with some semi conductive oxides (ZnO) and analysis of the same. <i>Materials Today: Proceedings</i> , 2021, , .	1.8	0
99	Preparation of dye (Bala gidda) for DSSC application. <i>Materials Today: Proceedings</i> , 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. <i>Journal of Engineering Research</i> , 0, , .	0.7	0
101	Effect of non-conjugate and conjugate condition on heat transfer from battery pack. <i>AEJ - Alexandria Engineering Journal</i> , 2022, 61, 3131-3145.	6.4	0
102	Investigation of Dualâ€“Pass Inclined Oscillating Bed Solar Dryer for Drying of Non-Parboiled Paddy Grains. <i>Sustainability</i> , 2022, 14, 5558.	3.2	0