

# C Ahamed Saleel

## List of Publications by Citations

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90  
papers

640  
citations

14  
h-index

19  
g-index

104  
ext. papers

1,180  
ext. citations

3.6  
avg. IF

5.02  
L-index

#	Paper	IF	Citations
90	Air-conditioning condensate recovery and applications: Current developments and challenges ahead. <i>Sustainable Cities and Society</i> , <b>2018</b> , 37, 263-274	10.1	38
89	Thermal examination of renewable solar energy in parabolic trough solar collector utilizing Maxwell nanofluid: A noble case study. <i>Case Studies in Thermal Engineering</i> , <b>2021</b> , 27, 101258	5.6	32
88	Active drying of unripened bananas (Musa Nendra) in a multi-tray mixed-mode solar cabinet dryer with backup energy storage. <i>Solar Energy</i> , <b>2019</b> , 188, 1002-1012	6.8	31
87	Role of ultrasonication duration and surfactant on characteristics of ZnO and CuO nanofluids. <i>Materials Research Express</i> , <b>2019</b> , 6, 1150d8	1.7	29
86	Thermal analyses of minichannels and use of mathematical and numerical models. <i>Numerical Heat Transfer; Part A: Applications</i> , <b>2020</b> , 77, 497-537	2.3	26
85	Human thermal comfort in passenger vehicles using an organic phase change material: An experimental investigation, neural network modelling, and optimization. <i>Building and Environment</i> , <b>2020</b> , 180, 107012	6.5	22
84	Novel approach to the analysis of fifth-order weakly nonlocal fractional Schrödinger equation with Caputo derivative. <i>Results in Physics</i> , <b>2021</b> , 31, 104958	3.7	20
83	Synthesis and Characterization of Mechanical Properties and Wire Cut EDM Process Parameters Analysis in AZ61 Magnesium Alloy + BC + SiC. <i>Materials</i> , <b>2021</b> , 14,	3.5	19
82	A novel case study of thermal and streamline analysis in a grooved enclosure filled with (Ag/MgO/Water) hybrid nanofluid: Galerkin FEM. <i>Case Studies in Thermal Engineering</i> , <b>2021</b> , 28, 101372	5.6	19
81	Mechanical and Corrosion Studies of Friction Stir Welded Nano Al <sub>2</sub> O <sub>3</sub> Reinforced Al-Mg Matrix Composites: RSM-ANN Modelling Approach. <i>Symmetry</i> , <b>2021</b> , 13, 537	2.7	18
80	A numerical frame work of magnetically driven Powell-Eyring nanofluid using single phase model. <i>Scientific Reports</i> , <b>2021</b> , 11, 16500	4.9	18
79	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> , <b>2020</b> , 146, 675-686	8.1	17
78	A Review on Battery Modelling Techniques. <i>Sustainability</i> , <b>2021</b> , 13, 10042	3.6	17
77	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> , <b>2021</b> , 9, 1453	2.9	15
76	Coconut oil as phase change material to maintain thermal comfort in passenger vehicles. <i>Journal of Thermal Analysis and Calorimetry</i> , <b>2019</b> , 136, 629-636	4.1	14
75	Thermal Performance of Compression Ignition Engine Using High Content Biodiesels: A Comparative Study with Diesel Fuel. <i>Sustainability</i> , <b>2021</b> , 13, 7688	3.6	14
74	Influence of the Fly Ash Material Inoculants on the Tensile and Impact Characteristics of the Aluminum AA 5083/7.5SiC Composites. <i>Materials</i> , <b>2021</b> , 14,	3.5	13

73	Investigation of Mechanical and Physical Properties of Big Sheep Horn as an Alternative Biomaterial for Structural Applications. <i>Materials</i> , <b>2021</b> , 14,	3.5	13
72	Effect of injection timing in reducing the harmful pollutants emitted from CI engine using N-butanol antioxidant blended eco-friendly Mahua biodiesel. <i>Energy Reports</i> , <b>2021</b> , 7, 6205-6221	4.6	13
71	Optimization of Thermal and Structural Design in Lithium-Ion Batteries to Obtain Energy Efficient Battery Thermal Management System (BTMS): A Critical Review. <i>Archives of Computational Methods in Engineering</i> , <b>2021</b> , 1-66	7.8	11
70	Epidemiological analysis of fractional order COVID-19 model with Mittag-Leffler kernel. <i>AIMS Mathematics</i> , <b>2021</b> , 7, 756-783	2.2	10
69	Effect of parameters on thermal and fluid-flow behavior of battery thermal management system. <i>Thermal Science</i> , <b>2021</b> , 25, 3775-3787	1.2	10
68	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> , <b>2021</b> , 14,	3.5	10
67	The Combined Effect of Alcohols and Calophyllum inophyllum Biodiesel Using Response Surface Methodology Optimization. <i>Sustainability</i> , <b>2021</b> , 13, 7345	3.6	9
66	Influence of Heat Treatment and Reinforcements on Tensile Characteristics of Aluminium AA 5083/Silicon Carbide/Fly Ash Composites. <i>Materials</i> , <b>2021</b> , 14,	3.5	9
65	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> , <b>2021</b> , 26, 101068	5.6	8
64	The intelligent networks for double-diffusion and MHD analysis of thin film flow over a stretched surface. <i>Scientific Reports</i> , <b>2021</b> , 11, 19239	4.9	8
63	Supervised neural networks learning algorithm for three dimensional hybrid nanofluid flow with radiative heat and mass fluxes. <i>Ain Shams Engineering Journal</i> , <b>2021</b> , 13, 101573-101573	4.4	8
62	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> , <b>2021</b> , 60, 5949-5976	6.1	8
61	An overview on energy and exergy analysis of solar thermal collectors with passive performance enhancers. <i>AEJ - Alexandria Engineering Journal</i> , <b>2022</b> , 61, 8123-8147	6.1	7
60	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> , <b>2021</b> , 16, e0259881	3.7	7
59	Magnesium doped TiO <sub>2</sub> as an efficient electron transport layer in perovskite solar cells. <i>Case Studies in Thermal Engineering</i> , <b>2021</b> , 26, 101101	5.6	7
58	Features of Cu and TiO in the flow of engine oil subject to thermal jump conditions. <i>Scientific Reports</i> , <b>2021</b> , 11, 19592	4.9	7
57	Galerkin finite element analysis of Darcy-Brinkman-Borchheimer natural convective flow in conical annular enclosure with discrete heat sources. <i>Energy Reports</i> , <b>2021</b> , 7, 6172-6181	4.6	7
56	Experimental Investigation of the Base Flow and Base Pressure of Sudden Expansion Nozzle. <i>IOP Conference Series: Materials Science and Engineering</i> , <b>2018</b> , 370, 012052	0.4	6

55	Exergy, sustainability and performance analysis of ground source direct evaporative cooling system. <i>Case Studies in Thermal Engineering</i> , <b>2022</b> , 31, 101810	5.6	5
54	Parallel finite volume method-based fluid flow computations using OpenMP and CUDA applying different schemes. <i>Journal of Thermal Analysis and Calorimetry</i> , <b>2021</b> , 145, 1891-1909	4.1	5
53	Thermal modelling and characteristic evaluation of electric vehicle battery system. <i>Case Studies in Thermal Engineering</i> , <b>2021</b> , 26, 101058	5.6	5
52	Sustainable Adsorption Method for the Remediation of Crystal Violet Dye Using Nutraceutical Industrial Fenugreek Seed Spent. <i>Applied Sciences (Switzerland)</i> , <b>2021</b> , 11, 7635	2.6	5
51	A study of a computational BVP for heat transfer and friction drag in magnetohydrodynamics viscous flow of a nanofluid subject to the curved surface. <i>Proceedings of the Institution of Mechanical Engineers, Part E: Journal of Process Mechanical Engineering</i> , 095440892110464	1.5	5
50	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> , <b>2021</b> , 11, 2415	3.3	5
49	Pressure-Driven Electro-Osmotic Flow and Mass Transport in Constricted Mixing Micro-Channels. <i>Journal of Applied Fluid Mechanics</i> , <b>2020</b> , 13, 429-441	1.5	4
48	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> , 1	4.1	4
47	Experimental investigation of mechanical properties of Acrylonitrile Butadiene Styrene (ABS) based polymer for Submersible pumps. <i>IOP Conference Series: Materials Science and Engineering</i> , <b>2021</b> , 1065, 012035	0.4	4
46	Clustering of COVID-19 data for knowledge discovery using c-means and fuzzy c-means. <i>Results in Physics</i> , <b>2021</b> , 29, 104639	3.7	4
45	Different analytical approaches for finding novel optical solitons with generalized third-order nonlinear Schrödinger equation. <i>Results in Physics</i> , <b>2021</b> , 29, 104755	3.7	4
44	COMPUTATIONAL SIMULATION OF FLUID FLOW OVER A TRIANGULAR STEP USING IMMERSED BOUNDARY METHOD. <i>International Journal of Computational Methods</i> , <b>2013</b> , 10, 1350016	1.1	3
43	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> , <b>2021</b> , 7, 7273-7287	4.6	3
42	Computational fluid dynamics analysis on solar water heater: Role of thermal stratification and mixing on dynamic mode of operation. <i>Thermal Science</i> , <b>2020</b> , 24, 1461-1472	1.2	3
41	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> , <b>2021</b> , 28, 101549	5.6	3
40	On Simulation of Double-Diffusive Natural Convection in a Micropolar Nanofluid Filled Cubic Cavity. <i>Heat Transfer Engineering</i> , <b>2021</b> , 42, 947-965	1.7	3
39	Three-Dimensional Numerical Analysis on Performance Enhancement of Micropolar Hybrid Nanofluid in Comparison with Simple Nanofluid. <i>Heat Transfer Engineering</i> , <b>2021</b> , 42, 1590-1610	1.7	3
38	Transient Heat Transfer Analysis Of Dimpled Rod. <i>IOP Conference Series: Materials Science and Engineering</i> , <b>2021</b> , 1065, 012034	0.4	3

37	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> , <b>2021</b> , 14,	3.5	3
36	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> , <b>2022</b> , 33, 101947	5.6	3
35	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> , <b>2022</b> , 52, 102047	4.7	3
34	Effects of asna fibre reinforced with epoxy resin with and without steel wire mesh and simulation of car bumper. <i>Materials Research Express</i> , <b>2022</b> , 9, 055301	1.7	3
33	Joule heating and viscous dissipation effects in hydromagnetized boundary layer flow with variable temperature. <i>Case Studies in Thermal Engineering</i> , <b>2022</b> , 35, 102083	5.6	3
32	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> , <b>2022</b> , 31, 101820	5.6	2
31	Numerical investigation on pressure-driven electro osmotic flow and mixing in a constricted micro channel by triangular obstacle. <i>International Journal of Numerical Methods for Heat and Fluid Flow</i> , <b>2021</b> , 31, 982-1013	4.5	2
30	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> , <b>2021</b> , 1-27	7.8	2
29	Comparative Analysis of Performance, Emission, and Combustion Characteristics of a Common Rail Direct Injection Diesel Engine Powered with Three Different Biodiesel Blends. <i>Energies</i> , <b>2021</b> , 14, 5597	3.1	2
28	Computational examination of Jeffrey nanofluid through a stretchable surface employing Tiwari and Das model. <i>Open Physics</i> , <b>2021</b> , 19, 897-911	1.3	1
27	Experimental investigation of the impact of CeO <sub>2</sub> nanoparticles in Jet-A and Jatropa-SPK blended fuel in an aircraft can-combustor at flight conditions. <i>Fuel</i> , <b>2022</b> , 317, 123393	7.1	1
26	Influence of bifurcation angle in left coronary artery with stenosis: A CFD analysis. <i>Bio-Medical Materials and Engineering</i> , <b>2020</b> , 31, 339-349	1	1
25	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> , <b>2020</b> , 1	4.1	1
24	Performance enhancement in tribological properties of lubricants by dispersing TiO <sub>2</sub> nanoparticles. <i>Materials Today: Proceedings</i> , <b>2021</b> , 47, 6180-6180	1.4	1
23	Erosion wear behavior of glass fiber hybridized flax and sisal fabric hybrid composites with taguchi experimental design. <i>Materials Today: Proceedings</i> , <b>2021</b> ,	1.4	1
22	Heat transfer enhancement of rectangular fins with circular perforations. <i>Materials Today: Proceedings</i> , <b>2021</b> , 47, 6185-6185	1.4	1
21	Investigation of heat transfer in porous channels. <i>International Journal of Numerical Methods for Heat and Fluid Flow</i> , <b>2019</b> , 30, 1497-1517	4.5	1
20	Heat Transfer and Entropy in a Vertical Porous Plate Subjected to Suction Velocity and MHD. <i>Entropy</i> , <b>2021</b> , 23,	2.8	1

19	Thermal and Mechanical Properties of Vinyl Ester Hybrid Composites with Carbon Black and Glass Reinforcement. <i>Advances in Materials Science and Engineering</i> , <b>2021</b> , 2021, 1-7	1.5	1
18	Dynamical behaviour of the foam drainage equation. <i>Results in Physics</i> , <b>2021</b> , 30, 104844	3.7	1
17	Comparative Analysis on Dehumidification Performance of KCOOH $\cdot$ iCl Hybrid Liquid Desiccant Air-Conditioning System: An Energy-Saving Approach. <i>Sustainability</i> , <b>2022</b> , 14, 3441	3.6	1
16	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> , <b>2022</b> , 14, 3527	3.6	1
15	Investigating the Water Jet Erosion Performance of HVOF-Sprayed WC-10Co Coatings on 35CrMo Steel Utilizing Design of Experiments. <i>Coatings</i> , <b>2022</b> , 12, 482	2.9	1
14	Forecasting the energy output from a combined cycle thermal power plant using deep learning models. <i>Case Studies in Thermal Engineering</i> , <b>2021</b> , 28, 101693	5.6	1
13	Developments in Nanoparticles Enhanced Biofuels and Solar Energy in Malaysian Perspective: A Review of State of the Art. <i>Journal of Nanomaterials</i> , <b>2022</b> , 2022, 1-22	3.2	1
12	Numerical Analysis of Film Cooling Due to Simple/Compound Angle Hole Combination. <i>Arabian Journal for Science and Engineering</i> , <b>2020</b> , 45, 8931-8944	2.5	0
11	Vibration analysis of composite exhaust manifold for diesel engine using CFD. <i>Case Studies in Thermal Engineering</i> , <b>2022</b> , 101853	5.6	0
10	An immersed boundary method for simulations of flow and mixing in micro-channels with electro kinetic effects. <i>Progress in Computational Fluid Dynamics</i> , <b>2020</b> , 20, 93	0.7	0
9	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> , 1	4.1	0
8	Energetic, exergetic, and thermoeconomic analyses of different nanoparticles-added lubricants in a heat pump water heater. <i>Case Studies in Thermal Engineering</i> , <b>2022</b> , 33, 101975	5.6	0
7	Effect of Injection Parameters on the Performance of Compression Ignition Engine Powered with Jamun Seed and Cashew Nutshell B20 Biodiesel Blends. <i>Sustainability</i> , <b>2022</b> , 14, 4642	3.6	0
6	Grey wolf optimizer model for enhancing Nicotiana Tabacum L. oil methyl ester and prediction model for calorific values. <i>Case Studies in Thermal Engineering</i> , <b>2022</b> , 102095	5.6	0
5	Stratified heat transfer of magneto-tangent hyperbolic bio-nanofluid flow with gyrotactic microorganisms: Keller-Box solution technique. <i>Open Physics</i> , <b>2021</b> , 19, 568-582	1.3	
4	Effect of non-conjugate and conjugate condition on heat transfer from battery pack. <i>AEJ - Alexandria Engineering Journal</i> , <b>2021</b> , 61, 3131-3131	6.1	
3	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> , <b>2021</b> , 2021, 1-9	1.5	
2	Investigation of DualPass Inclined Oscillating Bed Solar Dryer for Drying of Non-Parboiled Paddy Grains. <i>Sustainability</i> , <b>2022</b> , 14, 5558	3.6	

- 1 Performance Investigation of Supercritical CO<sub>2</sub> Brayton Cycles in Combination with Solar Power and Waste Heat Recovery Systems. *Journal of Solar Energy Engineering, Transactions of the ASME*, 1-28 2.3