Shafiq Ahmad

List of Publications by Year
in descending order

117 papers	2,962 citations	172207 29 h-index	276539 41 g-index
121 all docs	121 docs citations	121 times ranked	2005 citing authors

#	Article	IF	Citations
1	Dual nature solutions for temperature–dependent transport properties of nanofluid flow with entropy generation. Numerical Methods for Partial Differential Equations, 2024, 40, .	2.0	4
2	Thermal analysis in buoyancy driven flow of hybrid nanofluid subject to thermal radiation. International Journal of Ambient Energy, 2022, 43, 3868-3876.	1.4	15
3	Enhanced transport properties and its theoretical analysis in two-phase hybrid nanofluid. Applied Nanoscience (Switzerland), 2022, 12, 309-316.	1.6	23
4	Heat enhancement analysis of the hybridized micropolar nanofluid with Cattaneo–Christov and stratification effects. Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science, 2022, 236, 943-955.	1.1	18
5	Impact of Joule heating and multiple slips on a Maxwell nanofluid flow past a slendering surface. Communications in Theoretical Physics, 2022, 74, 015001.	1.1	23
6	Aquila Optimization Based Harmonic Elimination in a Modified H-Bridge Inverter. Sustainability, 2022, 14, 929.	1.6	14
7	Blasius–Rayleigh–Stokes Flow of Hybrid Nanomaterial Liquid Past a Stretching Surface with Generalized Fourier's and Fick's Law. Nanomaterials, 2022, 12, 439.	1.9	11
8	Unsteady three dimensional bioconvective flow of Maxwell nanofluid over an exponentially stretching sheet with variable thermal conductivity and chemical reaction. International Journal of Ambient Energy, 2022, 43, 6542-6552.	1.4	26
9	Natural bio-convective flow of Maxwell nanofluid over an exponentially stretching surface with slip effect and convective boundary condition. Scientific Reports, 2022, 12, 2220.	1.6	33
10	Advanced Authentication Scheme with Bio-Key Using Artificial Neural Network. Sustainability, 2022, 14, 3950.	1.6	1
11	Heat and mass transfer analysis of nonlinear mixed convective hybrid nanofluid flow with multiple slip boundary conditions. Case Studies in Thermal Engineering, 2022, 32, 101893.	2.8	65
12	Archimedes Optimization Algorithm Based Selective Harmonic Elimination in a Cascaded H-Bridge Multilevel Inverter. Sustainability, 2022, 14, 310.	1.6	15
13	Reliability Analysis and Fault-Tolerant Operation in a Multilevel Inverter for Industrial Application. Electronics (Switzerland), 2022, 11, 98.	1.8	5
14	A Dual Source Switched-Capacitor Multilevel Inverter with Reduced Device Count. Electronics (Switzerland), 2022, 11, 67.	1.8	9
15	A Symbiotic Organism Search-Based Selective Harmonic Elimination in a Switched Capacitor Multilevel Inverter. Energies, 2022, 15, 89.	1.6	2
16	Cattaneo–Christov heat flux model for stagnation point flow of micropolar nanofluid toward a nonlinear stretching surface with slip effects. Journal of Thermal Analysis and Calorimetry, 2021, 143, 1187-1199.	2.0	100
17	Mixed convection flow of hybrid nanoparticle along a Riga surface with Thomson and Troian slip condition. Journal of Thermal Analysis and Calorimetry, 2021, 143, 2099-2109.	2.0	56
18	A comprehensive investigation of geometrical accuracy errors during WEDM of Al6061-7.5%SiC composite. Materials and Manufacturing Processes, 2021, 36, 362-372.	2.7	26

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19	Corrigendum to "Summarizing Online Movie Reviews: A Machine Learning Approach to Big Data Analytics". Scientific Programming, 2021, 2021, 1-1.	0.5	1
20	Green thin film for stable electrical switching in a low-cost washable memory device: proof of concept. RSC Advances, 2021, 11, 4327-4338.	1.7	20
21	Energy, Environmental, Economic, and Technological Analysis of Al-GnP Nanofluid- and Cryogenic LN2-Assisted Sustainable Machining of Ti-6Al-4V Alloy. Metals, 2021, 11, 88.	1.0	15
22	Generalized OWA operators for uncertain queuing modeling with application in healthcare. Soft Computing, 2021, 25, 4951-4962.	2.1	7
23	Liver-Tumor Detection Using CNN ResUNet. Computers, Materials and Continua, 2021, 67, 1899-1914.	1.5	8
24	Supplier Selection Problem with Type-2 Fuzzy Parameters: A Neutrosophic Optimization Approach. International Journal of Fuzzy Systems, 2021, 23, 755-775.	2.3	15
25	Intelligent Traffic Flow Prediction Using Optimized GRU Model. IEEE Access, 2021, 9, 100736-100746.	2.6	20
26	A Robust Neutrosophic Modeling and Optimization Approach for Integrated Energy-Food-Water Security Nexus Management under Uncertainty. Water (Switzerland), 2021, 13, 121.	1.2	14
27	User-Defined Dual Setting Directional Overcurrent Relays with Hybrid Time Current-Voltage Characteristics-Based Protection Coordination for Active Distribution Network. IEEE Access, 2021, 9, 62752-62769.	2.6	35
28	Mathematical modeling and experimental analysis of the efficacy of photodynamic therapy in conjunction with photo thermal therapy and PEG-coated Au-doped TiO_2 nanostructures to target MCF-7 cancerous cells. Saudi Journal of Biological Sciences, 2021, 28, 1226-1232.	1.8	15
29	Generalized Structures for Switched-Capacitor Multilevel Inverter Topology for Energy Storage System Application. Applied Sciences (Switzerland), 2021, 11, 1319.	1.3	6
30	Manganese-doped cerium oxide nanocomposite as a therapeutic agent for MCF-7 adenocarcinoma cell line. Saudi Journal of Biological Sciences, 2021, 28, 1233-1238.	1.8	20
31	Structural, electrical and optical properties of $Zn_{1-x}Cu_xO$ (x=0.00–0.09) nanoparticles. Journal of King Saud University - Science, 2021, 33, 101330.	1.6	5
32	Mixed convection hybridized micropolar nanofluid with triple stratification and Cattaneo–Christov heat flux model. Physica Scripta, 2021, 96, 075205.	1.2	36
33	Flow and heat transfer investigation of bio–convective hybrid nanofluid with triple stratification effects. Physica Scripta, 2021, 96, 065210.	1.2	29
34	Buoyancy Effect on a Micropolar Fluid Flow Past a Vertical Riga Surface Comprising Water-Based SWCNT–MWCNT Hybrid Nanofluid Subject to Partially Slipped and Thermal Stratification: Cattaneo–Christov Model. Mathematical Problems in Engineering, 2021, 2021, 1-13.	0.6	12
35	Mathematical Analysis of Thermal Energy Distribution in a Hybridized Mixed Convective Flow. Journal of Nanofluids, 2021, 10, 222-231.	1.4	14
36	Healthcare Human Resources: Trends and Demand in Saudi Arabia. Healthcare (Switzerland), 2021, 9, 955.	1.0	7

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37	Green Synthesis of CeO2 Nanoparticles from the Abelmoschus esculentus Extract: Evaluation of Antioxidant, Anticancer, Antibacterial, and Wound-Healing Activities. Molecules, 2021, 26, 4659.	1.7	43
38	Sustainable production and waste management policies for COVID-19 medical equipment under uncertainty: A case study analysis. Computers and Industrial Engineering, 2021, 157, 107381.	3.4	19
39	Computational analysis of the unsteady 3D chemically reacting MHD flow with the properties of temperature dependent transpose suspended Maxwell nanofluid. Case Studies in Thermal Engineering, 2021, 26, 101169.	2.8	24
40	Chaos Induced Coyote Algorithm (CICA) for Extracting the Parameters in a Single, Double, and Three Diode Model of a Mono-Crystalline, Polycrystalline, and a Thin-Film Solar PV Cell. Electronics (Switzerland), 2021, 10, 2094.	1.8	6
41	Improving the Convergence Period of Adaptive Data Rate in a Long Range Wide Area Network for the Internet of Things Devices. Energies, 2021, 14, 5614.	1.6	14
42	Artificial Jellyfish Search Algorithm-Based Selective Harmonic Elimination in a Cascaded H-Bridge Multilevel Inverter. Electronics (Switzerland), 2021, 10, 2402.	1.8	16
43	Mathematical analysis of heat and mass transfer in a Maxwell fluid with double stratification. Physica Scripta, 2021, 96, 025202.	1.2	20
44	Hybridized nanofluid with stagnation point past a rotating disk. Physica Scripta, 2021, 96, 025214.	1.2	15
45	Mathematical analysis of heat and mass transfer in a Maxwell fluid. Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science, 2021, 235, 4967-4976.	1.1	13
46	A Comprehensive Analysis of the Effect of Graphene-Based Dielectric for Sustainable Electric Discharge Machining of Ti-6Al-4V. Materials, 2021, 14, 23.	1.3	34
47	Meta-Heuristic Optimization Techniques Used for Maximum Power Point Tracking in Solar PV System. Electronics (Switzerland), 2021, 10, 2419.	1.8	31
48	Analysis of Heat and Mass Transfer Features of Hybrid Casson Nanofluid Flow with the Magnetic Dipole Past a Stretched Cylinder. Applied Sciences (Switzerland), 2021, 11, 11203.	1.3	17
49	Flow Analysis of Hybridized Nanomaterial Liquid Flow in the Existence of Multiple Slips and Hall Current Effect over a Slendering Stretching Surface. Crystals, 2021, 11, 1546.	1.0	5
50	A Robust Multilevel Inverter Topology for Operation under Fault Conditions. Electronics (Switzerland), 2021, 10, 3099.	1.8	6
51	Optimal Placement of Reclosers in a Radial Distribution System for Reliability Improvement. Electronics (Switzerland), 2021, 10, 3182.	1.8	7
52	Fe2O3 Nanoparticles Deposited over Self-Floating Facial Sponge for Facile Interfacial Seawater Solar Desalination. Crystals, 2021, 11, 1509.	1.0	6
53	Integration of Electric Vehicles and Energy Storage System in Home Energy Management System with Home to Grid Capability. Energies, 2021, 14, 8557.	1.6	21
54	Radiative SWCNT and MWCNT nanofluid flow of Falkner–Skan problem with double stratification. Physica A: Statistical Mechanics and Its Applications, 2020, 547, 124054.	1.2	71

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55	A Robust Adaptive Overcurrent Relay Coordination Scheme for Wind-Farm-Integrated Power Systems Based on Forecasting the Wind Dynamics for Smart Energy Systems. Applied Sciences (Switzerland), 2020, 10, 6318.	1.3	28
56	A Novel Switched-Capacitor Multilevel Inverter Topology for Energy Storage and Smart Grid Applications. Electronics (Switzerland), 2020, 9, 1703.	1.8	28
57	Remote Pain Monitoring Using Fog Computing for e-Healthcare: An Efficient Architecture. Sensors, 2020, 20, 6574.	2.1	46
58	Bibliometric research indicators for green supply chain modelling. International Journal of Industrial and Systems Engineering, 2020, 35, 314.	0.1	0
59	A Voltage Multiplier Circuit Based Quadratic Boost Converter for Energy Storage Application. Applied Sciences (Switzerland), 2020, 10, 8254.	1.3	12
60	Biomaterial-Induced Stable Resistive Switching Mechanism in TiO_2 Thin Films: The Role of Active Interstitial Sites/Ions in Minimum Current Leakage and Superior Bioactivity. ACS Omega, 2020, 5, 19050-19060.	1.6	19
61	Wear performance of surface treated drills in high speed drilling of AISI 304 stainless steel. Journal of Manufacturing Processes, 2020, 58, 223-235.	2.8	22
62	Optimization of WEDM for precise machining of novel developed Al6061-7.5% SiC squeeze-casted composite. International Journal of Advanced Manufacturing Technology, 2020, 111, 2031-2049.	1.5	39
63	Summarizing Online Movie Reviews: A Machine Learning Approach to Big Data Analytics. Scientific Programming, 2020, 2020, 1-13.	0.5	5
64	Xbee-Based WSN Architecture for Monitoring of Banana Ripening Process Using Knowledge-Level Artificial Intelligent Technique. Sensors, 2020, 20, 4033.	2.1	14
65	Low-cost green recyclable biomaterial for energy-dependent electrical switching and intact biofilm with antibacterial properties. Scientific Reports, 2020, 10, 14600.	1.6	7
66	Super Hydrophilic Activated Carbon Decorated Nanopolymer Foam for Scalable, Energy Efficient Photothermal Steam Generation, as an Effective Desalination System. Nanomaterials, 2020, 10, 2510.	1.9	18
67	A New High Voltage Gain DC to DC Converter with Low Voltage Stress for Energy Storage System Application. Electronics (Switzerland), 2020, 9, 2067.	1.8	9
68	Linear Discriminant Analysis-Based Dynamic Indoor Localization Using Bluetooth Low Energy (BLE). Sustainability, 2020, 12, 10627.	1.6	10
69	Wear performance of modified inserts in hard turning of AISI D2 steel: A concept of one-step sustainable machining. Journal of Manufacturing Processes, 2020, 60, 457-469.	2.8	6
70	Milling Microchannels in Monel 400 Alloy by Wire EDM: An Experimental Analysis. Micromachines, 2020, 11, 469.	1.4	16
71	Reversible data hiding techniques with high message embedding capacity in images. PLoS ONE, 2020, 15, e0231602.	1.1	19
72	On the turning of electron beam melted gamma-TiAl with coated and uncoated tools: A machinability analysis. Journal of Materials Processing Technology, 2020, 282, 116664.	3.1	24

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73	An Enhanced Deep Neural Network for Predicting Workplace Absenteeism. Complexity, 2020, 2020, 1-12.	0.9	31
74	Application of CNT-based micropolar hybrid nanofluid flow in the presence of Newtonian heating. Applied Nanoscience (Switzerland), 2020, 10, 5265-5277.	1.6	29
75	Analysis of ferrite nanoparticles in liquid. Pramana - Journal of Physics, 2020, 94, 1.	0.9	38
76	Entropy generation and temperature-dependent viscosity in the study of SWCNT–MWCNT hybrid nanofluid. Applied Nanoscience (Switzerland), 2020, 10, 5107-5119.	1.6	95
77	Machine Learning Approach for Answer Detection in Discussion Forums: An Application of Big Data Analytics. Scientific Programming, 2020, 2020, 1-10.	0.5	9
78	On the Cattaneo–Christov Heat Flux Model and OHAM Analysis for Three Different Types of Nanofluids. Applied Sciences (Switzerland), 2020, 10, 886.	1.3	40
79	Flow analysis by Cattaneo–Christov heat flux in the presence of Thomson and Troian slip condition. Applied Nanoscience (Switzerland), 2020, 10, 4673-4687.	1.6	36
80	Analysis of activation energy and its impact on hybrid nanofluid in the presence of Hall and ion slip currents. Applied Nanoscience (Switzerland), 2020, 10, 5315-5330.	1.6	46
81	Cattaneo–Christov-based study of SWCNT–MWCNT/EG Casson hybrid nanofluid flow past a lubricated surface with entropy generation. Applied Nanoscience (Switzerland), 2020, 10, 5449-5458.	1.6	49
82	Bibliometric analysis for process capability research. Quality Technology and Quantitative Management, 2019, 16, 459-477.	1.1	24
83	Effects of anodal transcranial direct current stimulation on motor evoked potentials variability in humans. Physiological Reports, 2019, 7, e14087.	0.7	14
84	Corrigendum to "Analyzing Critical Failures in a Production Process: Is Industrial IoT the Solution?". Wireless Communications and Mobile Computing, 2019, 2019, 1-1.	0.8	0
85	LBM of aluminum alloy: towards a control of material removal and roughness. International Journal of Advanced Manufacturing Technology, 2019, 105, 1901-1915.	1.5	6
86	Numerical Simulation of Darcy–Forchheimer 3D Unsteady Nanofluid Flow Comprising Carbon Nanotubes with Cattaneo–Christov Heat Flux and Velocity and Thermal Slip Conditions. Processes, 2019, 7, 687.	1.3	34
87	A Numerical Simulation of Silver–Water Nanofluid Flow with Impacts of Newtonian Heating and Homogeneous–Heterogeneous Reactions Past a Nonlinear Stretched Cylinder. Symmetry, 2019, 11, 295.	1.1	47
88	Boundary Layer Flow over a Curved Surface Imbedded in Porous Medium. Communications in Theoretical Physics, 2019, 71, 344.	1.1	52
89	Mathematical analysis of bio-convective micropolar nanofluid. Journal of Computational Design and Engineering, 2019, 6, 233-242.	1.5	55
90	The potentiality of sinking EDM for micro-impressions on Ti-6Al-4V: keeping the geometrical errors (axial and radial) and other machining measures (tool erosion and work roughness) at minimum. Scientific Reports, 2019, 9, 17218.	1.6	33

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91	Machinability of titanium alloy through laser machining: material removal and surface roughness analysis. International Journal of Advanced Manufacturing Technology, 2019, 105, 3303-3323.	1.5	20
92	Performance Evaluation Using Multivariate Non-Normal Process Capability. Processes, 2019, 7, 833.	1.3	4
93	Bibliometric analysis of abrasive water jet machining research. Journal of King Saud University, Engineering Sciences, 2019, 31, 262-270.	1.2	8
94	Numerical simulation for homogeneousâ€"heterogeneous reactions and Newtonian heating in the silver-water nanofluid flow past a nonlinear stretched cylinder. Physica Scripta, 2019, 94, 085702.	1.2	35
95	An overview of transcranial magnetic stimulation research with bibliometric Indicators. Journal of Nature and Science of Medicine, 2019, 2, 196.	0.1	0
96	A note on â€œdesigning of a hybrid exponentially weighted moving averageâ€. International Journal of Advanced Manufacturing Technology, 2018, 97, 375-377.	1.5	3
97	Computational study of Falkner-Skan problem for a static and moving wedge. Sensors and Actuators B: Chemical, 2018, 263, 69-76.	4.0	66
98	Toward Dynamic Resources Management for IoT-Based Manufacturing. , 2018, 56, 52-59.		132
99	Big Data Analytics in Industrial IoT Using a Concentric Computing Model. , 2018, 56, 37-43.		101
100	A Framework for Software Defect Prediction and Metric Selection. IEEE Access, 2018, 6, 2844-2858.	2.6	56
101	An Ensemble Oversampling Model for Class Imbalance Problem in Software Defect Prediction. IEEE Access, 2018, 6, 24184-24195.	2.6	83
102	Impact of Nonlinear Thermal Radiation and Entropy Optimization Coatings with Hybrid Nanoliquid Flow Past a Curved Stretched Surface. Coatings, 2018, 8, 430.	1.2	34
103	Analyzing Critical Failures in a Production Process: Is Industrial IoT the Solution?. Wireless Communications and Mobile Computing, 2018, 2018, 1-12.	0.8	22
104	Examining spatio-temporal patterns, drivers and trends of residential fires in South East Queensland, Australia. Disaster Prevention and Management, 2018, 27, 586-603.	0.6	8
105	Performance Analysis of Personal Cloud Storage Services for Mobile Multimedia Health Record Management. IEEE Access, 2018, 6, 52625-52638.	2.6	18
106	A numerical treatment of MHD radiative flow of Micropolar nanofluid with homogeneous-heterogeneous reactions past a nonlinear stretched surface. Scientific Reports, 2018, 8, 12431.	1.6	36
107	Cattaneo-Christov flux in the flow of a viscoelastic fluid in the presence of Newtonian heating. Journal of Molecular Liquids, 2017, 237, 180-184.	2.3	85
108	A pilot study investigating the association between sleep and cognitive function among adolescents. Asian Journal of Psychiatry, 2017, 28, 34-37.	0.9	4

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109	Chemically reactive species in the flow of a Maxwell fluid. Results in Physics, 2017, 7, 2607-2613.	2.0	57
110	Upshot of binary chemical reaction and activation energy on carbon nanotubes with Cattaneo-Christov heat flux and buoyancy effects. Physics of Fluids, 2017, 29, .	1.6	50
111	Body composition analysis to determine gender specific physical fitness equations in a cohort of Saudi population. Pakistan Journal of Medical Sciences, 2014, 30, 798-903.	0.3	7
112	Supply Chain Technology Acceptance, Adoption, and Possible Challenges: A Case Study of Service Organizations of Saudi Arabia. , 2013, , .		19
113	Towards the selection of future 4G mobile service provider from customers' perspective. , 2012, , .		2
114	Multivariate Performance Analysis Methods - A Comparison Study. , 2011, , .		0
115	Numerical simulation of hybrid Casson nanofluid flow by the influence of magnetic dipole and gyrotactic microorganism. Waves in Random and Complex Media, 0, , 1-16.	1.6	19
116	Numerical investigation of hybrid nanofluid with gyrotactic microorganism and multiple slip conditions through a porous rotating disk. Waves in Random and Complex Media, 0, , 1-16.	1.6	20
117	Thermal and solutal transport analysis of Blasius–Rayleigh–Stokes flow of hybrid nanofluid with convective boundary conditions. Waves in Random and Complex Media, 0, , 1-19.	1.6	12