

Shafiq Ahmad

List of Publications by Year in descending order

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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	Toward Dynamic Resources Management for IoT-Based Manufacturing. , 2018, 56, 52-59.		132
2	Big Data Analytics in Industrial IoT Using a Concentric Computing Model. , 2018, 56, 37-43.		101
3	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
4	Entropy generation and temperature-dependent viscosity in the study of SWCNT-MWCNT hybrid nanofluid. Applied Nanoscience (Switzerland), 2020, 10, 5107-5119.	1.6	95
5	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
6	An Ensemble Oversampling Model for Class Imbalance Problem in Software Defect Prediction. IEEE Access, 2018, 6, 24184-24195.	2.6	83
7	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
8	Computational study of Falkner-Skan problem for a static and moving wedge. Sensors and Actuators B: Chemical, 2018, 263, 69-76.	4.0	66
9	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
10	Chemically reactive species in the flow of a Maxwell fluid. Results in Physics, 2017, 7, 2607-2613.	2.0	57
11	A Framework for Software Defect Prediction and Metric Selection. IEEE Access, 2018, 6, 2844-2858.	2.6	56
12	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
13	Mathematical analysis of bio-convective micropolar nanofluid. Journal of Computational Design and Engineering, 2019, 6, 233-242.	1.5	55
14	Boundary Layer Flow over a Curved Surface Imbedded in Porous Medium. Communications in Theoretical Physics, 2019, 71, 344.	1.1	52
15	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
16	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
17	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
18	Remote Pain Monitoring Using Fog Computing for e-Healthcare: An Efficient Architecture. Sensors, 2020, 20, 6574.	2.1	46

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19	Analysis of activation energy and its impact on hybrid nanofluid in the presence of Hall and ion slip currents. <i>Applied Nanoscience (Switzerland)</i> , 2020, 10, 5315-5330.	1.6	46
20	Green Synthesis of CeO ₂ Nanoparticles from the <i>Abelmoschus esculentus</i> Extract: Evaluation of Antioxidant, Anticancer, Antibacterial, and Wound-Healing Activities. <i>Molecules</i> , 2021, 26, 4659.	1.7	43
21	On the Cattaneo–Christov Heat Flux Model and OHAM Analysis for Three Different Types of Nanofluids. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 886.	1.3	40
22	Optimization of WEDM for precise machining of novel developed Al6061-7.5% SiC squeeze-casted composite. <i>International Journal of Advanced Manufacturing Technology</i> , 2020, 111, 2031-2049.	1.5	39
23	Analysis of ferrite nanoparticles in liquid. <i>Pramana - Journal of Physics</i> , 2020, 94, 1.	0.9	38
24	A numerical treatment of MHD radiative flow of Micropolar nanofluid with homogeneous-heterogeneous reactions past a nonlinear stretched surface. <i>Scientific Reports</i> , 2018, 8, 12431.	1.6	36
25	Flow analysis by Cattaneo–Christov heat flux in the presence of Thomson and Troian slip condition. <i>Applied Nanoscience (Switzerland)</i> , 2020, 10, 4673-4687.	1.6	36
26	Mixed convection hybridized micropolar nanofluid with triple stratification and Cattaneo–Christov heat flux model. <i>Physica Scripta</i> , 2021, 96, 075205.	1.2	36
27	User-Defined Dual Setting Directional Overcurrent Relays with Hybrid Time Current-Voltage Characteristics-Based Protection Coordination for Active Distribution Network. <i>IEEE Access</i> , 2021, 9, 62752-62769.	2.6	35
28	Numerical simulation for homogeneous–heterogeneous reactions and Newtonian heating in the silver-water nanofluid flow past a nonlinear stretched cylinder. <i>Physica Scripta</i> , 2019, 94, 085702.	1.2	35
29	Impact of Nonlinear Thermal Radiation and Entropy Optimization Coatings with Hybrid Nanoliquid Flow Past a Curved Stretched Surface. <i>Coatings</i> , 2018, 8, 430.	1.2	34
30	Numerical Simulation of Darcy–Forchheimer 3D Unsteady Nanofluid Flow Comprising Carbon Nanotubes with Cattaneo–Christov Heat Flux and Velocity and Thermal Slip Conditions. <i>Processes</i> , 2019, 7, 687.	1.3	34
31	A Comprehensive Analysis of the Effect of Graphene-Based Dielectric for Sustainable Electric Discharge Machining of Ti-6Al-4V. <i>Materials</i> , 2021, 14, 23.	1.3	34
32	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. <i>Scientific Reports</i> , 2019, 9, 17218.	1.6	33
33	Natural bio-convective flow of Maxwell nanofluid over an exponentially stretching surface with slip effect and convective boundary condition. <i>Scientific Reports</i> , 2022, 12, 2220.	1.6	33
34	An Enhanced Deep Neural Network for Predicting Workplace Absenteeism. <i>Complexity</i> , 2020, 2020, 1-12.	0.9	31
35	Meta-Heuristic Optimization Techniques Used for Maximum Power Point Tracking in Solar PV System. <i>Electronics (Switzerland)</i> , 2021, 10, 2419.	1.8	31
36	Application of CNT-based micropolar hybrid nanofluid flow in the presence of Newtonian heating. <i>Applied Nanoscience (Switzerland)</i> , 2020, 10, 5265-5277.	1.6	29

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37	Flow and heat transfer investigation of bioconvective hybrid nanofluid with triple stratification effects. <i>Physica Scripta</i> , 2021, 96, 065210.	1.2	29
38	A Robust Adaptive Overcurrent Relay Coordination Scheme for Wind-Farm-Integrated Power Systems Based on Forecasting the Wind Dynamics for Smart Energy Systems. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 6318.	1.3	28
39	A Novel Switched-Capacitor Multilevel Inverter Topology for Energy Storage and Smart Grid Applications. <i>Electronics (Switzerland)</i> , 2020, 9, 1703.	1.8	28
40	A comprehensive investigation of geometrical accuracy errors during WEDM of Al6061-7.5%SiC composite. <i>Materials and Manufacturing Processes</i> , 2021, 36, 362-372.	2.7	26
41	Unsteady three dimensional bioconvective flow of Maxwell nanofluid over an exponentially stretching sheet with variable thermal conductivity and chemical reaction. <i>International Journal of Ambient Energy</i> , 2022, 43, 6542-6552.	1.4	26
42	Bibliometric analysis for process capability research. <i>Quality Technology and Quantitative Management</i> , 2019, 16, 459-477.	1.1	24
43	On the turning of electron beam melted gamma-TiAl with coated and uncoated tools: A machinability analysis. <i>Journal of Materials Processing Technology</i> , 2020, 282, 116664.	3.1	24
44	Computational analysis of the unsteady 3D chemically reacting MHD flow with the properties of temperature dependent transpose suspended Maxwell nanofluid. <i>Case Studies in Thermal Engineering</i> , 2021, 26, 101169.	2.8	24
45	Enhanced transport properties and its theoretical analysis in two-phase hybrid nanofluid. <i>Applied Nanoscience (Switzerland)</i> , 2022, 12, 309-316.	1.6	23
46	Impact of Joule heating and multiple slips on a Maxwell nanofluid flow past a slendering surface. <i>Communications in Theoretical Physics</i> , 2022, 74, 015001.	1.1	23
47	Analyzing Critical Failures in a Production Process: Is Industrial IoT the Solution?. <i>Wireless Communications and Mobile Computing</i> , 2018, 2018, 1-12.	0.8	22
48	Wear performance of surface treated drills in high speed drilling of AISI 304 stainless steel. <i>Journal of Manufacturing Processes</i> , 2020, 58, 223-235.	2.8	22
49	Integration of Electric Vehicles and Energy Storage System in Home Energy Management System with Home to Grid Capability. <i>Energies</i> , 2021, 14, 8557.	1.6	21
50	Machinability of titanium alloy through laser machining: material removal and surface roughness analysis. <i>International Journal of Advanced Manufacturing Technology</i> , 2019, 105, 3303-3323.	1.5	20
51	Green thin film for stable electrical switching in a low-cost washable memory device: proof of concept. <i>RSC Advances</i> , 2021, 11, 4327-4338.	1.7	20
52	Intelligent Traffic Flow Prediction Using Optimized GRU Model. <i>IEEE Access</i> , 2021, 9, 100736-100746.	2.6	20
53	Manganese-doped cerium oxide nanocomposite as a therapeutic agent for MCF-7 adenocarcinoma cell line. <i>Saudi Journal of Biological Sciences</i> , 2021, 28, 1233-1238.	1.8	20
54	Mathematical analysis of heat and mass transfer in a Maxwell fluid with double stratification. <i>Physica Scripta</i> , 2021, 96, 025202.	1.2	20

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55	Numerical investigation of hybrid nanofluid with gyrotactic microorganism and multiple slip conditions through a porous rotating disk. <i>Waves in Random and Complex Media</i> , 0, , 1-16.	1.6	20
56	Supply Chain Technology Acceptance, Adoption, and Possible Challenges: A Case Study of Service Organizations of Saudi Arabia. , 2013, , .		19
57	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. <i>ACS Omega</i> , 2020, 5, 19050-19060.	1.6	19
58	Reversible data hiding techniques with high message embedding capacity in images. <i>PLoS ONE</i> , 2020, 15, e0231602.	1.1	19
59	Sustainable production and waste management policies for COVID-19 medical equipment under uncertainty: A case study analysis. <i>Computers and Industrial Engineering</i> , 2021, 157, 107381.	3.4	19
60	Numerical simulation of hybrid Casson nanofluid flow by the influence of magnetic dipole and gyrotactic microorganism. <i>Waves in Random and Complex Media</i> , 0, , 1-16.	1.6	19
61	Performance Analysis of Personal Cloud Storage Services for Mobile Multimedia Health Record Management. <i>IEEE Access</i> , 2018, 6, 52625-52638.	2.6	18
62	Super Hydrophilic Activated Carbon Decorated Nanopolymer Foam for Scalable, Energy Efficient Photothermal Steam Generation, as an Effective Desalination System. <i>Nanomaterials</i> , 2020, 10, 2510.	1.9	18
63	Heat enhancement analysis of the hybridized micropolar nanofluid with Cattaneo–Christov and stratification effects. <i>Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science</i> , 2022, 236, 943-955.	1.1	18
64	Analysis of Heat and Mass Transfer Features of Hybrid Casson Nanofluid Flow with the Magnetic Dipole Past a Stretched Cylinder. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 11203.	1.3	17
65	Milling Microchannels in Monel 400 Alloy by Wire EDM: An Experimental Analysis. <i>Micromachines</i> , 2020, 11, 469.	1.4	16
66	Artificial Jellyfish Search Algorithm-Based Selective Harmonic Elimination in a Cascaded H-Bridge Multilevel Inverter. <i>Electronics (Switzerland)</i> , 2021, 10, 2402.	1.8	16
67	Thermal analysis in buoyancy driven flow of hybrid nanofluid subject to thermal radiation. <i>International Journal of Ambient Energy</i> , 2022, 43, 3868-3876.	1.4	15
68	Energy, Environmental, Economic, and Technological Analysis of Al-GnP Nanofluid- and Cryogenic LN ₂ -Assisted Sustainable Machining of Ti-6Al-4V Alloy. <i>Metals</i> , 2021, 11, 88.	1.0	15
69	Supplier Selection Problem with Type-2 Fuzzy Parameters: A Neutrosophic Optimization Approach. <i>International Journal of Fuzzy Systems</i> , 2021, 23, 755-775.	2.3	15
70	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. <i>Saudi Journal of Biological Sciences</i> , 2021, 28, 1226-1232.	1.8	15
71	Hybridized nanofluid with stagnation point past a rotating disk. <i>Physica Scripta</i> , 2021, 96, 025214.	1.2	15
72	Archimedes Optimization Algorithm Based Selective Harmonic Elimination in a Cascaded H-Bridge Multilevel Inverter. <i>Sustainability</i> , 2022, 14, 310.	1.6	15

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73	Effects of anodal transcranial direct current stimulation on motor evoked potentials variability in humans. <i>Physiological Reports</i> , 2019, 7, e14087.	0.7	14
74	Xbee-Based WSN Architecture for Monitoring of Banana Ripening Process Using Knowledge-Level Artificial Intelligent Technique. <i>Sensors</i> , 2020, 20, 4033.	2.1	14
75	A Robust Neutrosophic Modeling and Optimization Approach for Integrated Energy-Food-Water Security Nexus Management under Uncertainty. <i>Water (Switzerland)</i> , 2021, 13, 121.	1.2	14
76	Mathematical Analysis of Thermal Energy Distribution in a Hybridized Mixed Convective Flow. <i>Journal of Nanofluids</i> , 2021, 10, 222-231.	1.4	14
77	Improving the Convergence Period of Adaptive Data Rate in a Long Range Wide Area Network for the Internet of Things Devices. <i>Energies</i> , 2021, 14, 5614.	1.6	14
78	Aquila Optimization Based Harmonic Elimination in a Modified H-Bridge Inverter. <i>Sustainability</i> , 2022, 14, 929.	1.6	14
79	Mathematical analysis of heat and mass transfer in a Maxwell fluid. <i>Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science</i> , 2021, 235, 4967-4976.	1.1	13
80	A Voltage Multiplier Circuit Based Quadratic Boost Converter for Energy Storage Application. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 8254.	1.3	12
81	Buoyancy Effect on a Micropolar Fluid Flow Past a Vertical Riga Surface Comprising Water-Based SWCNTâ€“MWCNT Hybrid Nanofluid Subject to Partially Slipped and Thermal Stratification: Cattaneoâ€“Christov Model. <i>Mathematical Problems in Engineering</i> , 2021, 2021, 1-13.	0.6	12
82	Thermal and solutal transport analysis of Blasiusâ€“Rayleighâ€“Stokes flow of hybrid nanofluid with convective boundary conditions. <i>Waves in Random and Complex Media</i> , 0, , 1-19.	1.6	12
83	Blasiusâ€“Rayleighâ€“Stokes Flow of Hybrid Nanomaterial Liquid Past a Stretching Surface with Generalized Fourierâ€™s and Fickâ€™s Law. <i>Nanomaterials</i> , 2022, 12, 439.	1.9	11
84	Linear Discriminant Analysis-Based Dynamic Indoor Localization Using Bluetooth Low Energy (BLE). <i>Sustainability</i> , 2020, 12, 10627.	1.6	10
85	A New High Voltage Gain DC to DC Converter with Low Voltage Stress for Energy Storage System Application. <i>Electronics (Switzerland)</i> , 2020, 9, 2067.	1.8	9
86	Machine Learning Approach for Answer Detection in Discussion Forums: An Application of Big Data Analytics. <i>Scientific Programming</i> , 2020, 2020, 1-10.	0.5	9
87	A Dual Source Switched-Capacitor Multilevel Inverter with Reduced Device Count. <i>Electronics (Switzerland)</i> , 2022, 11, 67.	1.8	9
88	Examining spatio-temporal patterns, drivers and trends of residential fires in South East Queensland, Australia. <i>Disaster Prevention and Management</i> , 2018, 27, 586-603.	0.6	8
89	Bibliometric analysis of abrasive water jet machining research. <i>Journal of King Saud University, Engineering Sciences</i> , 2019, 31, 262-270.	1.2	8
90	Liver-Tumor Detection Using CNN ResUNet. <i>Computers, Materials and Continua</i> , 2021, 67, 1899-1914.	1.5	8

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91	Body composition analysis to determine gender specific physical fitness equations in a cohort of Saudi population. <i>Pakistan Journal of Medical Sciences</i> , 2014, 30, 798-903.	0.3	7
92	Low-cost green recyclable biomaterial for energy-dependent electrical switching and intact biofilm with antibacterial properties. <i>Scientific Reports</i> , 2020, 10, 14600.	1.6	7
93	Generalized OWA operators for uncertain queuing modeling with application in healthcare. <i>Soft Computing</i> , 2021, 25, 4951-4962.	2.1	7
94	Healthcare Human Resources: Trends and Demand in Saudi Arabia. <i>Healthcare (Switzerland)</i> , 2021, 9, 955.	1.0	7
95	Optimal Placement of Reclosers in a Radial Distribution System for Reliability Improvement. <i>Electronics (Switzerland)</i> , 2021, 10, 3182.	1.8	7
96	LBM of aluminum alloy: towards a control of material removal and roughness. <i>International Journal of Advanced Manufacturing Technology</i> , 2019, 105, 1901-1915.	1.5	6
97	Wear performance of modified inserts in hard turning of AISI D2 steel: A concept of one-step sustainable machining. <i>Journal of Manufacturing Processes</i> , 2020, 60, 457-469.	2.8	6
98	Generalized Structures for Switched-Capacitor Multilevel Inverter Topology for Energy Storage System Application. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 1319.	1.3	6
99	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. <i>Electronics (Switzerland)</i> , 2021, 10, 2094.	1.8	6
100	A Robust Multilevel Inverter Topology for Operation under Fault Conditions. <i>Electronics (Switzerland)</i> , 2021, 10, 3099.	1.8	6
101	Fe ₂ O ₃ Nanoparticles Deposited over Self-Floating Facial Sponge for Facile Interfacial Seawater Solar Desalination. <i>Crystals</i> , 2021, 11, 1509.	1.0	6
102	Summarizing Online Movie Reviews: A Machine Learning Approach to Big Data Analytics. <i>Scientific Programming</i> , 2020, 2020, 1-13.	0.5	5
103	Structural, electrical and optical properties of Zn _{1-x} Cu _x O (x=0.00-0.09) nanoparticles. <i>Journal of King Saud University - Science</i> , 2021, 33, 101330.	1.6	5
104	Reliability Analysis and Fault-Tolerant Operation in a Multilevel Inverter for Industrial Application. <i>Electronics (Switzerland)</i> , 2022, 11, 98.	1.8	5
105	Flow Analysis of Hybridized Nanomaterial Liquid Flow in the Existence of Multiple Slips and Hall Current Effect over a Slendering Stretching Surface. <i>Crystals</i> , 2021, 11, 1546.	1.0	5
106	A pilot study investigating the association between sleep and cognitive function among adolescents. <i>Asian Journal of Psychiatry</i> , 2017, 28, 34-37.	0.9	4
107	Performance Evaluation Using Multivariate Non-Normal Process Capability. <i>Processes</i> , 2019, 7, 833.	1.3	4
108	Dual nature solutions for temperature-dependent transport properties of nanofluid flow with entropy generation. <i>Numerical Methods for Partial Differential Equations</i> , 2024, 40, .	2.0	4

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109	A note on "redesigning of a hybrid exponentially weighted moving average"; International Journal of Advanced Manufacturing Technology, 2018, 97, 375-377.	1.5	3
110	Towards the selection of future 4G mobile service provider from customers' perspective. , 2012, , .		2
111	A Symbiotic Organism Search-Based Selective Harmonic Elimination in a Switched Capacitor Multilevel Inverter. Energies, 2022, 15, 89.	1.6	2
112	Corrigendum to "Summarizing Online Movie Reviews: A Machine Learning Approach to Big Data Analytics"; Scientific Programming, 2021, 2021, 1-1.	0.5	1
113	Advanced Authentication Scheme with Bio-Key Using Artificial Neural Network. Sustainability, 2022, 14, 3950.	1.6	1
114	Multivariate Performance Analysis Methods - A Comparison Study. , 2011, , .		0
115	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
116	Bibliometric research indicators for green supply chain modelling. International Journal of Industrial and Systems Engineering, 2020, 35, 314.	0.1	0
117	An overview of transcranial magnetic stimulation research with bibliometric Indicators. Journal of Nature and Science of Medicine, 2019, 2, 196.	0.1	0