

# Zahir Shah

## List of Publications by Year in descending order

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331  
papers

14,258  
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29928

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35719

98  
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349  
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349  
docs citations

349  
times ranked

12608  
citing authors

#	ARTICLE	IF	CITATIONS
1	Numerical unsteady modeling for solidification of PCM containing nanomaterials with thermal effect. International Journal of Modern Physics B, 2024, 38, .	1.9	0
2	Convective micropolar fluid over inclined surface with thermal radiation and velocity slip condition effects: Duality and stability. International Journal of Modern Physics B, 2024, 38, .	1.9	4
3	Modeling and analysis of the transmission of avian spirochetosis with non-singular and non-local kernel. Computer Methods in Biomechanics and Biomedical Engineering, 2024, 27, 905-917.	1.7	2
4	Complete classification of static Bertotti's "Robinson spacetime and its physical significance. Indian Journal of Physics, 2024, 98, 1545-1552.	1.7	0
5	Numerical simulation and irreversibility analysis of nanofluid flow within a solar absorber duct equipped with a novel turbulator. Results in Physics, 2024, 56, 107271.	4.2	2
6	Similarity and entropy measures for circular intuitionistic fuzzy sets. Engineering Applications of Artificial Intelligence, 2024, 131, 107786.	8.3	7
7	Numerical investigation of sodium alginate-alumina/copper radiative hybrid nanofluid flow over a power law stretching/shrinking sheet with suction effect: A study of dual solutions. Results in Engineering, 2024, 21, 101881.	5.2	9
8	Gyrotactic microorganism's and heat transfer analysis of water conveying MHD SWCNT nanoparticles using fourth-grade fluid model over Riga plate. Case Studies in Thermal Engineering, 2024, 55, 104119.	5.8	4
9	Computational study of double diffusive MHD natural convection flow of non-Newtonian fluid between concentric cylinders. Results in Engineering, 2024, 21, 101925.	5.2	8
10	Boosting constrained teaching's learning based optimization algorithm through group discussion. Scientific African, 2024, 24, e02126.	1.6	0
11	Natural convection heat transfer of a hybrid nanofluid in a permeable quadrantal enclosure with heat generation. Case Studies in Thermal Engineering, 2024, 56, 104207.	5.8	3
12	Dual solutions of magnetized radiative flow of Casson Nanofluid over a stretching/shrinking cylinder: Stability analysis. Heliyon, 2024, 10, e29696.	3.3	0
13	A fractional perspective on the transmission dynamics of a parasitic infection, considering the impact of both strong and weak immunity. PLoS ONE, 2024, 19, e0297967.	2.5	1
14	Numerical simulation and stability analysis of radiative magnetized hybridized ferrofluid flow with acute magnetic force over shrinking/stretching surface. Results in Engineering, 2024, 22, 102315.	5.2	0
15	Optimization of heat transfer rate of trihybrid nanofluid Embedded between two horizontal coaxial cylinders by RSM. Case Studies in Thermal Engineering, 2024, 60, 104637.	5.8	1
16	Global dynamics and computational modeling for analyzing and controlling Hepatitis B: A novel epidemic approach. PLoS ONE, 2024, 19, e0304375.	2.5	0
17	Rayleigh-Benard convection and sensitivity analysis of magnetized couple stress water conveying bio-nanofluid flow with thermal diffusivities effect. Results in Engineering, 2024, 23, 102652.	5.2	0
18	Shape optimization study for heat and mass transport of magnetic fluid in a closed domain using a nonhomogeneous dynamic model. Case Studies in Thermal Engineering, 2024, 61, 104911.	5.8	0

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19	Entropy generation and heat transfer analysis of unsteady micropolar magnetized hybrid-nanofluid flow over a radially stretchable permeable rotating disk with viscous and Joule dissipation effects. International Journal of Thermofluids, 2024, , 100802.	7.8	0
20	Modeling the transmission phenomena of water-borne disease with non-singular and non-local kernel. Computer Methods in Biomechanics and Biomedical Engineering, 2023, 26, 1294-1307.	1.7	10
21	Mathematical modeling of corona virus (COVID-19) and stability analysis. Computer Methods in Biomechanics and Biomedical Engineering, 2023, 26, 1114-1133.	1.7	5
22	MHD stagnation point flow of a water-based copper nanofluid past a flat plate with solar radiation effect. Journal of Petroleum Science and Engineering, 2023, 220, 111148.	4.3	11
23	Darcy–Forchheimer Magnetized Nanofluid flow along with Heating and Dissipation Effects over a Shrinking Exponential Sheet with Stability Analysis. Micromachines, 2023, 14, 106.	3.0	7
24	A numerical study of the micropolar nanofluid flow containing aluminum alloy nanoparticles over a variable thickened stretching sheet. International Journal of Modern Physics B, 2023, 37, .	1.9	1
25	Computational analysis of radiative engine oil-based Prandtl–Eyring hybrid nanofluid flow with variable heat transfer using the Cattaneo–Christov heat flux model. RSC Advances, 2023, 13, 3552-3560.	3.7	42
26	Magnetized mixed convection hybrid nanofluid with effect of heat generation/absorption and velocity slip condition. Heliyon, 2023, 9, e13189.	3.3	53
27	Approximate Noether symmetries of the geodetic Lagrangian of spherically symmetric spacetimes. European Physical Journal Plus, 2023, 138, .	2.6	3
28	Mathematical study of the dynamics of lymphatic filariasis infection via fractional-calculus. European Physical Journal Plus, 2023, 138, .	2.6	9
29	A fractional modeling approach of Buruli ulcer in Possum mammals. Physica Scripta, 2023, 98, 065219.	2.5	9
30	Dual solutions of convective rotating flow of three-dimensional hybrid nanofluid across the linear stretching/shrinking sheet. AEJ - Alexandria Engineering Journal, 2023, 75, 297-312.	6.7	21
31	Entropy generation analysis of magnetized radiative Ellis (Cu-TiO <sub>2</sub> /Engine Oil) nanofluid flow using Cattaneo-Christov heat flux model with viscous dissipation and Joule heating effects. Journal of Magnetism and Magnetic Materials, 2023, 570, 168107.	2.3	9
32	Slip and radiative effect on magnetized CNTs/Al <sub>2</sub> O <sub>3</sub> hybrid base nanofluid over exponentially shrinking. Journal of Magnetism and Magnetic Materials, 2023, 570, 168107.	2.3	4
33	A Fractional Perspective on the Dynamics of HIV, Considering the Interaction of Viruses and Immune System with the Effect of Antiretroviral Therapy. Journal of Nonlinear Mathematical Physics, 2023, 30, 1327-1344.	1.2	3
34	Entropy generation analysis on Darcy-Forchheimer Maxwell nanofluid flow past a porous stretching sheet with threshold Non-Fourier heat flux model and Joule heating. Case Studies in Thermal Engineering, 2023, 52, 103738.	5.8	15
35	Design of Backpropagated Intelligent Networks for Nonlinear Second-Order Lane–Emden Pantograph Delay Differential Systems. Arabian Journal for Science and Engineering, 2022, 47, 1197-1210.	3.1	31
36	Soft computing paradigm for Ferrofluid by exponentially stretched surface in the presence of magnetic dipole and heat transfer. AEJ - Alexandria Engineering Journal, 2022, 61, 1607-1623.	6.7	37

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37	Optimal control application to the epidemiology of HBV and HCV co-infection. International Journal of Biomathematics, 2022, 15, .	2.9	9
38	Investigation of enhancement in the thermal response of phase change materials through nano powders. Case Studies in Thermal Engineering, 2022, 29, 101654.	5.8	12
39	Fractional order mathematical modeling of typhoid fever disease. Results in Physics, 2022, 32, 105044.	4.2	53
40	Numerical modeling of nanofluid exergy loss within tube with multi-helical tapes. European Physical Journal Plus, 2022, 137, 1.	2.6	2
41	Significance of Lorentz forces on Jeffrey nanofluid flows over a convectively heated flat surface featured by multiple velocity slips and dual stretching constraint: a homotopy analysis approach. Journal of Computational Design and Engineering, 2022, 9, 564-582.	3.0	17
42	Modeling and Analysis of Breast Cancer with Adverse Reactions of Chemotherapy Treatment through Fractional Derivative. Computational and Mathematical Methods in Medicine, 2022, 2022, 1-19.	1.4	24
43	On unsteady 3D bio-convection flow of viscoelastic nanofluid with radiative heat transfer inside a solar collector plate. Scientific Reports, 2022, 12, 2952.	3.4	14
44	Evaluating the Higher-Order Slip Consequence in Bioconvection Nanofluid Flow Configured by a Variable Thick Surface of Disk. Journal of Nanomaterials, 2022, 2022, 1-13.	2.8	9
45	Analysis and dynamical behavior of a novel dengue model via fractional calculus. International Journal of Biomathematics, 2022, 15, .	2.9	29
46	Mathematical Modelling of Ree-Eyring Nanofluid Using Koo-Kleinstreuer and Cattaneo-Christov Models on Chemically Reactive AA7072-AA7075 Alloys over a Magnetic Dipole Stretching Surface. Coatings, 2022, 12, 391.	2.7	17
47	Modeling the dynamics of tumor-immune cells interactions via fractional calculus. European Physical Journal Plus, 2022, 137, 1.	2.6	36
48	A comparative analysis of the performance of magnetised copper-copper oxide/water and copper-copper oxide/kerosene oil hybrid nanofluids flowing through an extending surface with velocity slips and thermal convective conditions. International Journal of Ambient Energy, 2022, 43, 7330-7348.	2.4	23
49	Bidirectional flow of MHD nanofluid with Hall current and Cattaneo-Christove heat flux toward the stretching surface. PLoS ONE, 2022, 17, e0264208.	2.5	31
50	Mathematical Modeling of Carreau Fluid Flow and Heat Transfer Characteristics in the Renal Tubule. Journal of Mathematics, 2022, 2022, 1-14.	1.0	4
51	Effect of Thermal Radiation on Three-Dimensional Magnetized Rotating Flow of a Hybrid Nanofluid. Nanomaterials, 2022, 12, 1566.	4.2	29
52	Entropy Optimization on Axisymmetric Darcy-Forchheimer Powell-Eyring Nanofluid over a Horizontally Stretching Cylinder with Viscous Dissipation Effect. Coatings, 2022, 12, 749.	2.7	13
53	Axion instability supernovae. Physical Review D, 2022, 105, .	4.8	12
54	Chaotic Phenomena and Oscillations in Dynamical Behaviour of Financial System via Fractional Calculus. Complexity, 2022, 2022, 1-14.	1.7	29

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55	Modeling of Hepatitis B Virus Transmission with Fractional Analysis. <i>Mathematical Problems in Engineering</i> , 2022, 2022, 1-14.	1.2	5
56	Radiative Darcy-Forchheimer Micropler BÄ¶dewadt flow of CNTs with viscous dissipation effect. <i>Journal of Petroleum Science and Engineering</i> , 2022, 217, 110857.	4.3	16
57	Spatial control of robust transgene expression in mouse artery endothelium under ultrasound guidance. <i>Signal Transduction and Targeted Therapy</i> , 2022, 7, .	17.5	4
58	Entropy Generation and Thermal Analysis on MHD Second-Grade Fluid with Variable Thermophysical Properties over a Stratified Permeable Surface of Paraboloid Revolution. <i>ACS Omega</i> , 2022, 7, 27436-27449.	3.6	8
59	Convergence for a Fixed Point of Evolution Families in Banach Space via Iterative Process. <i>Journal of Mathematics</i> , 2022, 2022, 1-8.	1.0	1
60	Blood Flow of Au-Nanofluid Using Sisko Model in Stenotic Artery with Porous Walls and Viscous Dissipation Effect. <i>Micromachines</i> , 2022, 13, 1303.	3.0	12
61	Qualitative Analysis of the Transmission Dynamics of Dengue with the Effect of Memory, Reinfection, and Vaccination. <i>Computational and Mathematical Methods in Medicine</i> , 2022, 2022, 1-20.	1.4	31
62	Efficient Echocardiographic Image Segmentation. <i>Mathematical Problems in Engineering</i> , 2022, 2022, 1-5.	1.2	1
63	Electromagnetic Trihybrid Ellis Nanofluid Flow Influenced with a Magnetic Dipole and Chemical Reaction Across a Vertical Surface. <i>ACS Omega</i> , 2022, 7, 36611-36622.	3.6	8
64	Strong Convergence of Krasnoselskiiâ€™Mann Process for Nonexpansive Evolution Families. <i>Mathematical Problems in Engineering</i> , 2022, 2022, 1-10.	1.2	1
65	An optimal analysis for magnetohydrodynamics <sc>Darcyâ€™Forchheimer</sc> boundary layer radiative flow past a porous medium. <i>Computational and Mathematical Methods</i> , 2021, 3, e1136.	0.9	0
66	Solution of fractional-order integro-differential equations using optimal homotopy asymptotic method. <i>Journal of Thermal Analysis and Calorimetry</i> , 2021, 146, 1421-1433.	3.6	7
67	Entropy generation on magneto-convective flow of copperâ€™water nanofluid in a cavity with chamfers. <i>Journal of Thermal Analysis and Calorimetry</i> , 2021, 143, 2203-2214.	3.6	115
68	Entropy generation in electrical magnetohydrodynamic flow of Al <sub>2</sub> O <sub>3</sub> â€™Cu/H <sub>2</sub> O hybrid nanofluid with non-uniform heat flux. <i>Journal of Thermal Analysis and Calorimetry</i> , 2021, 143, 2135-2148.	3.6	68
69	Analysis of hybrid nanofluid behavior within a porous cavity including Lorentz forces and radiation impacts. <i>Journal of Thermal Analysis and Calorimetry</i> , 2021, 143, 1129-1137.	3.6	59
70	Stability analysis of multiple solutions in case of a stretched nanofluid flow obeying Corcione's correlation: An extended Darcy model. <i>ZAMM Zeitschrift Fur Angewandte Mathematik Und Mechanik</i> , 2021, 101, e202000172.	1.7	8
71	Impact of activation energy on hyperbolic tangent nanofluid with mixed convection rheology and entropy optimization. <i>AEJ - Alexandria Engineering Journal</i> , 2021, 60, 1123-1135.	6.7	28
72	Mathematical modeling and study of MHD flow of Williamson nanofluid over a nonlinear stretching plate with activation energy. <i>Heat Transfer</i> , 2021, 50, 2558-2570.	3.0	37

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73	Mathematical modeling of stagnation region nanofluid flow through Darcy–Forchheimer space taking into account inconsistent heat source/sink. <i>Journal of Applied Mathematics and Computing</i> , 2021, 65, 713-734.	2.4	15
74	Bi-parametric distance and similarity measures of picture fuzzy sets and their applications in medical diagnosis. <i>Egyptian Informatics Journal</i> , 2021, 22, 201-212.	6.8	56
75	Simulation of entropy optimization and thermal behavior of nanofluid through the porous media. <i>International Communications in Heat and Mass Transfer</i> , 2021, 120, 105039.	5.7	29
76	<sc>CVFEM</sc> based numerical investigation and mathematical modeling of surface dependent magnetized <sc>copper oxide</sc> nanofluid flow using new model of porous space. <i>Numerical Methods for Partial Differential Equations</i> , 2021, 37, 1481-1494.	3.7	9
77	MATHEMATICAL AND STABILITY ANALYSIS OF FRACTIONAL ORDER MODEL FOR SPREAD OF PESTS IN TEA PLANTS. <i>Fractals</i> , 2021, 29, 2150008.	3.1	14
78	COMPUTATIONAL MODELING AND THEORETICAL ANALYSIS OF NONLINEAR FRACTIONAL ORDER PREY–PREDATOR SYSTEM. <i>Fractals</i> , 2021, 29, 2150001.	3.1	6
79	Analysis and modeling of fractional electro-osmotic ramped flow of chemically reactive and heat absorptive/generative Walters' B fluid with ramped heat and mass transfer rates. <i>AIMS Mathematics</i> , 2021, 6, 5942-5976.	1.6	6
80	Study of mathematical model of Hepatitis &lt;i>B</i> under Caputo-Fabrizio derivative. <i>AIMS Mathematics</i> , 2021, 6, 195-209.	1.6	21
81	Mesoscopic Simulation for Magnetized Nanofluid Flow Within a Permeable 3D Tank. <i>IEEE Access</i> , 2021, 9, 135234-135244.	4.4	15
82	Robust resource allocation strategy for technology innovation ecosystems: state and control constraints. <i>Nonlinear Dynamics</i> , 2021, 103, 2931-2954.	5.3	5
83	Analysis of boundary layer MHD Darcy-Forchheimer radiative nanofluid flow with solet and dufour effects by means of marangoni convection. <i>Case Studies in Thermal Engineering</i> , 2021, 23, 100792.	5.8	36
84	Development of Dynamic Model and Analytical Analysis for the Diffusion of Different Species in Non-Newtonian Nanofluid Swirling Flow. <i>Frontiers in Physics</i> , 2021, 8, .	2.2	13
85	On fractional order model of tumor dynamics with drug interventions under nonlocal fractional derivative. <i>Results in Physics</i> , 2021, 21, 103783.	4.2	31
86	Influence of Brownian motion and thermophoresis parameters on silver-based Di-Hydrogen CNTs between two stretchable rotating disks. <i>Physica Scripta</i> , 2021, 96, 055205.	2.5	21
87	NEW ITERATIVE TRANSFORM METHOD FOR TIME AND SPACE FRACTIONAL (n + 1)-DIMENSIONAL HEAT AND WAVE TYPE EQUATIONS. <i>Fractals</i> , 2021, 29, 2150056.	3.1	9
88	Fractional Dynamics of HIV with Source Term for the Supply of New CD4+ T-Cells Depending on the Viral Load via Caputo–Fabrizio Derivative. <i>Molecules</i> , 2021, 26, 1806.	3.9	38
89	Insight into the dynamics of second grade hybrid radiative nanofluid flow within the boundary layer subject to Lorentz force. <i>Scientific Reports</i> , 2021, 11, 4894.	3.4	22
90	3D nanofluid flow over exponentially expanding surface of Oldroyd-B fluid. <i>Ain Shams Engineering Journal</i> , 2021, 12, 3939-3946.	6.6	20

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91	A convective flow of Williamson nanofluid through cone and wedge with non-isothermal and non-isosolutal conditions: A revised Buongiorno model. <i>Case Studies in Thermal Engineering</i> , 2021, 24, 100869.	5.8	55
92	Toxicity Risks of Nanomaterials Used in the Building Construction Materials. <i>Current Nanotoxicity and Prevention</i> , 2021, 1, 26-43.	0.1	1
93	Unsteady thermal Maxwell power law nanofluid flow subject to forced thermal Marangoni Convection. <i>Scientific Reports</i> , 2021, 11, 7521.	3.4	18
94	A stochastic numerical analysis based on hybrid NAR-RBFs networks nonlinear SITR model for novel COVID-19 dynamics. <i>Computer Methods and Programs in Biomedicine</i> , 2021, 202, 105973.	4.9	118
95	Second-order slip effect on bio-convectational viscoelastic nanofluid flow through a stretching cylinder with swimming microorganisms and melting phenomenon. <i>Scientific Reports</i> , 2021, 11, 11208.	3.4	21
96	An assessment of the mathematical model for estimating of entropy optimized viscous fluid flow towards a rotating cone surface. <i>Scientific Reports</i> , 2021, 11, 10259.	3.4	25
97	Radiative MHD unsteady Casson fluid flow with heat source/sink through a vertical channel suspended in porous medium subject to generalized boundary conditions. <i>Physica Scripta</i> , 2021, 96, 075213.	2.5	10
98	On nonlinear classical and fractional order dynamical system addressing COVID-19. <i>Results in Physics</i> , 2021, 24, 104069.	4.2	34
99	Unsteady hybrid-nanofluid flow comprising ferrous oxide and CNTs through porous horizontal channel with dilating/squeezing walls. <i>Scientific Reports</i> , 2021, 11, 12637.	3.4	57
100	Nonlinear fractional mathematical model of tuberculosis (TB) disease with incomplete treatment under Atangana-Baleanu derivative. <i>AEJ - Alexandria Engineering Journal</i> , 2021, 60, 2845-2856.	6.7	54
101	Heat transfer intensification of nanomaterial with involve of swirl flow device concerning entropy generation. <i>Scientific Reports</i> , 2021, 11, 12504.	3.4	9
102	Joule heating in magnetohydrodynamic micropolar boundary layer flow past a stretching sheet with chemical reaction and microstructural slip. <i>Case Studies in Thermal Engineering</i> , 2021, 25, 100870.	5.8	54
103	The Intestinal Microbiota: Impacts of Antibiotics Therapy, Colonization Resistance, and Diseases. <i>International Journal of Molecular Sciences</i> , 2021, 22, 6597.	4.2	52
104	Significance of Shape Factor in Heat Transfer Performance of Molybdenum-Disulfide Nanofluid in Multiple Flow Situations; A Comparative Fractional Study. <i>Molecules</i> , 2021, 26, 3711.	3.9	21
105	Cattaneo-Christov theory for a time-dependent magnetohydrodynamic Maxwell fluid flow through a stretching cylinder. <i>Advances in Mechanical Engineering</i> , 2021, 13, 168781402110301.	1.6	19
106	Numerical simulation for bioconvectational flow of burger nanofluid with effects of activation energy and exponential heat source/sink over an inclined wall under the swimming microorganisms. <i>Scientific Reports</i> , 2021, 11, 14305.	3.4	13
107	Numerical modeling on hybrid nanofluid (Fe <sub>3</sub> O <sub>4</sub> +MWCNT/H <sub>2</sub> O) migration considering MHD effect over a porous cylinder. <i>PLoS ONE</i> , 2021, 16, e0251744.	2.5	31
108	Soret-Dufour impact on a three-dimensional Casson nanofluid flow with dust particles and variable characteristics in a permeable media. <i>Scientific Reports</i> , 2021, 11, 14513.	3.4	19

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109	Evolution of fractional mathematical model for drinking under Atangana-Baleanu Caputo derivatives. <i>Physica Scripta</i> , 2021, 96, 115203.	2.5	25
110	Modelling and numerical computation for flow of micropolar fluid towards an exponential curved surface: a Keller box method. <i>Scientific Reports</i> , 2021, 11, 16351.	3.4	16
111	Magnetized and non-magnetized Casson fluid flow with gyrotactic microorganisms over a stratified stretching cylinder. <i>Scientific Reports</i> , 2021, 11, 16376.	3.4	32
112	Mathematical Modeling and numerical simulation for nanofluid flow with entropy optimization. <i>Case Studies in Thermal Engineering</i> , 2021, 26, 101198.	5.8	21
113	Impact of nanoparticles shape and radiation on the behavior of nanofluid under the Lorentz forces. <i>Case Studies in Thermal Engineering</i> , 2021, 26, 101161.	5.8	29
114	Numerical analysis of 3-D MHD hybrid nanofluid over a rotational disk in presence of thermal radiation with Joule heating and viscous dissipation effects using Lobatto IIIA technique. <i>AEJ - Alexandria Engineering Journal</i> , 2021, 60, 3605-3619.	6.7	103
115	Analytical Simulation for Magnetohydrodynamic Maxwell Fluid Flow Past an Exponentially Stretching Surface with First-Order Velocity Slip Condition. <i>Coatings</i> , 2021, 11, 1009.	2.7	15
116	Entropy optimization and heat transfer analysis in MHD Williamson nanofluid flow over a vertical Riga plate with nonlinear thermal radiation. <i>Scientific Reports</i> , 2021, 11, 18386.	3.4	21
117	Soret and Dufour effects on a Casson nanofluid flow past a deformable cylinder with variable characteristics and Arrhenius activation energy. <i>Scientific Reports</i> , 2021, 11, 19282.	3.4	23
118	Nanomechanical Concepts in Magnetically Guided Systems to Investigate the Magnetic Dipole Effect on Ferromagnetic Flow Past a Vertical Cone Surface. <i>Coatings</i> , 2021, 11, 1129.	2.7	10
119	Double Slip Effects and Heat Transfer Characteristics for Channel Transport of Engine Oil With Titanium and Aluminum Alloy Nanoparticles: A Fractional Study. <i>IEEE Access</i> , 2021, 9, 52036-52052.	4.4	9
120	Magneto-Burgers Nanofluid Stratified Flow with Swimming Motile Microorganisms and Dual Variables Conductivity Configured by a Stretching Cylinder/Plate. <i>Mathematical Problems in Engineering</i> , 2021, 2021, 1-16.	1.2	25
121	<i>Ab initio</i> investigation of the physical properties of TI based chloroperovskites $\text{TiXCl}_3$ ( $X = \text{Ca}$ ) $T_j \text{ETQq1 1 0.784314 rgBT /Over}$	1.3	24
122	MHD stagnation point flow of hybrid nanofluid over a permeable cylinder with homogeneous and heterogenous reaction. <i>Physica Scripta</i> , 2021, 96, 035201.	2.5	16
123	Energy, Financial, and Environmental Investigation of a Direct Steam Production Power Plant Driven by Linear Fresnel Solar Reflectors. <i>Journal of Solar Energy Engineering, Transactions of the ASME</i> , 2021, 143, .	1.9	30
124	Impact of thermal radiation and non-uniform heat flux on MHD hybrid nanofluid along a stretching cylinder. <i>Scientific Reports</i> , 2021, 11, 20262.	3.4	34
125	Study of Slip Effects in Reverse Roll Coating Process Using Non-Isothermal Couple Stress Fluid. <i>Coatings</i> , 2021, 11, 1249.	2.7	17
126	A robust study to conceptualize the interactions of $\text{CD4}^+$ T-cells and human immunodeficiency virus via fractional-calculus. <i>Physica Scripta</i> , 2021, 96, 125231.	2.5	22



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127	Theoretical Analysis of Cu-H <sub>2</sub> O, Al <sub>2</sub> O <sub>3</sub> -H <sub>2</sub> O, and TiO <sub>2</sub> -H <sub>2</sub> O Nanofluid Flow Past a Rotating Disk with Velocity Slip and Convective Conditions. <i>Journal of Nanomaterials</i> , 2021, 2021, 1-10.	2.8	29
128	Electromagnetohydrodynamic bioconvective flow of binary fluid containing nanoparticles and gyrotactic microorganisms through a stratified stretching sheet. <i>Scientific Reports</i> , 2021, 11, 23159.	3.4	17
129	Numerical Analysis of $Cu + Al_2O_3$ Nanofluid Flow over a Rotating Disk with Velocity Slip and Convective Conditions. <i>Mathematical Problems in Engineering</i> , 2021, 2021, 1-12.	1.2	9
130	Heat source and sink effects on periodic mixed convection flow along the electrically conducting cone inserted in porous medium. <i>PLoS ONE</i> , 2021, 16, e0260845.	2.5	12
131	Hydrothermal analysis of nanoparticles transportation through a porous compound cavity utilizing two temperature model and radiation heat transfer under the effects of magnetic field. <i>Microsystem Technologies</i> , 2020, 26, 333-344.	2.1	8
132	Micropolar gold blood nanofluid flow and radiative heat transfer between permeable channels. <i>Computer Methods and Programs in Biomedicine</i> , 2020, 186, 105197.	4.9	73
133	Influence of Cattaneo-Christov model on Darcy-Forchheimer flow of Micropolar Ferrofluid over a stretching/shrinking sheet. <i>International Communications in Heat and Mass Transfer</i> , 2020, 110, 104385.	5.7	62
134	Influences of electrical MHD and Hall current on squeezing nanofluid flow inside rotating porous plates with viscous and joule dissipation effects. <i>Journal of Thermal Analysis and Calorimetry</i> , 2020, 140, 1215-1227.	3.6	60
135	Influence of nanoparticles inclusion into water on convective magneto hydrodynamic flow with heat transfer and entropy generation through permeable domain. <i>Case Studies in Thermal Engineering</i> , 2020, 21, 100732.	5.8	23
136	Soret, Dufour, and activation energy effects on double diffusive convective couple stress micropolar nanofluid flow in a Hall MHD generator system. <i>AIP Advances</i> , 2020, 10, .	1.3	12
137	COMPARATIVE ANALYSIS OF NATURAL TRANSFORM DECOMPOSITION METHOD AND NEW ITERATIVE METHOD FOR FRACTIONAL FOAM DRAINAGE PROBLEM AND FRACTIONAL ORDER MODIFIED REGULARIZED LONG-WAVE EQUATION. <i>Fractals</i> , 2020, 28, 2050124.	3.1	15
138	Cattaneo-Christov Heat Flux Model for Second Grade Nanofluid Flow with Hall Effect through Entropy Generation over Stretchable Rotating Disk. <i>Coatings</i> , 2020, 10, 610.	2.7	22
139	XPA deficiency affects the ubiquitin-proteasome system function. <i>DNA Repair</i> , 2020, 94, 102937.	2.9	6
140	Entropy optimization in MHD nanofluid flow over a curved exponentially stretching surface with binary chemical reaction and Arrhenius activation energy. <i>Journal of Physics Communications</i> , 2020, 4, 075021.	1.2	13
141	Chemically reactive MHD micropolar nanofluid flow with velocity slips and variable heat source/sink. <i>Scientific Reports</i> , 2020, 10, 20926.	3.4	55
142	A Meshless Method Based on the Laplace Transform for the 2D Multi-Term Time Fractional Partial Integro-Differential Equation. <i>Mathematics</i> , 2020, 8, 1972.	2.3	9
143	Entropy optimization in Darcy-Forchheimer MHD flow of water based copper and silver nanofluids with Joule heating and viscous dissipation effects. <i>AIP Advances</i> , 2020, 10, .	1.3	42
144	Entropy generation in MHD Casson fluid flow with variable heat conductance and thermal conductivity over non-linear bi-directional stretching surface. <i>Scientific Reports</i> , 2020, 10, 12530.	3.4	76

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145	Modeling of entropy optimization for hybrid nanofluid MHD flow through a porous annulus involving variation of Bejan number. <i>Scientific Reports</i> , 2020, 10, 12821.	3.4	16
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