Muhammad Ijaz Khan

List of Publications by Year in Descending Order

517 papers	15,870 citations	74 h-index	106 g-index
563 ext. papers	19,442 ext. citations	3.8 avg, IF	8.08 L-index

#	Paper	IF	Citations
517	A fractional model for the kerosene oil and water-based Casson nanofluid with inclined magnetic force. *Chemical Physics Letters*, **2022**, 787, 139277	2.5	12
516	LSM and DTM-Pade approximation for the combined impacts of convective and radiative heat transfer on an inclined porous longitudinal fin. *Case Studies in Thermal Engineering*, **2022**, 101846	5.6	12
515	Hall effects and viscous dissipation applications in peristaltic transport of Jeffrey nanofluid due to wave frame. *Colloids and Interface Science Communications*, **2022**, 47, 100593	5.4	3
514	Analysis of Wu's slip and CNTs (single and multi-wall carbon nanotubes) in Darcy-Forchheimer mixed convective nanofluid flow with magnetic dipole: Intelligent nano-coating simulation. *Materials Science and Engineering B: Solid-State Materials for Advanced Technology*, **2022**, 277, 115586	3.1	4
513	Aspects of thermal diffusivity and melting phenomenon in Carreau nanofluid flow confined by nonlinear stretching cylinder with convective Marangoni boundary constraints. *Mathematics and Computers in Simulation*, **2022**, 195, 138-150	3.3	2
512	A mathematical model for radiative peristaltic flow of Jeffrey fluid in curved channel with Joule heating and different walls: Shooting technique analysis. *Ain Shams Engineering Journal*, **2022**, 13, 101685	4.4	3
511	Analytical solution for temperature equation of a fin problem with variable temperature-dependent thermal properties: Application of LSM and DTM-Pade approximant. *Chemical Physics Letters*, **2022**, 793, 139409	2.5	4
510	Implementation of modified Buongiorno model for the investigation of chemically reacting rGO-Fe3O4-TiO2-H2O ternary nanofluid jet flow in the presence of bio-active mixers. *Chemical Physics Letters*, **2022**, 786, 139194	2.5	7
509	Intelligent supervised learning for viscous fluid submerged in water based carbon nanotubes with irreversibility concept. *International Communications in Heat and Mass Transfer*, **2022**, 130, 105790	5.8	11
508	Optimized framework for slip flow of viscous fluid towards a curved surface with viscous dissipation and Joule heating features. *Applied Mathematics and Computation*, **2022**, 417, 126777	2.7	0
507	Analytical investigation of magnetized 2D hybrid nanofluid (GO + ZnO + blood) flow through a perforated capillary.. *Computer Methods in Biomechanics and Biomedical Engineering*, **2022**, 1-13	2.1	2
506	Influential study of novel microorganism and nanoparticles during heat and mass transport in Homann flow of visco-elastic materials. *International Communications in Heat and Mass Transfer*, **2022**, 131, 105871	5.8	1
505	Non-singular fractional computations for the radiative heat and mass transfer phenomenon subject to mixed convection and slip boundary effects. *Chaos, Solitons and Fractals*, **2022**, 155, 111708	9.3	8
504	EMHD creeping rheology of nanofluid through a micro-channel via ciliated propulsion under porosity and thermal effects. *Case Studies in Thermal Engineering*, **2022**, 30, 101746	5.6	7
503	Combined impact of Cattaneo-Christov double diffusion and radiative heat flux on bio-convective flow of Maxwell liquid configured by a stretched nano-material surface. *Applied Mathematics and Computation*, **2022**, 419, 126883	2.7	96
502	Theoretical study of MHD electro-osmotically flow of third-grade fluid in micro channel. *Applied Mathematics and Computation*, **2022**, 420, 126868	2.7	99
501	Thermal prospective of Casson nano-materials in radiative binary reactive flow near oblique stagnation point flow with activation energy applications. *Chemical Physics Letters*, **2022**, 786, 139172	2.5	10

#	Reference	IF	Citations
500	Unsteady mixed convection flow of magneto-Williamson nanofluid due to stretched cylinder with significant non-uniform heat source/sink features. *AEJ - Alexandria Engineering Journal*, **2022**, 61, 195-206	6.1	22
499	Heat and mass transfer features of transient second-grade fluid flow through an exponentially stretching surface. *Pramana - Journal of Physics*, **2022**, 96, 1		0
498	Transportation of melting heat transport in bio-convective Pseudoplastic nanoparticles flow over bidirectional stretched Riga device. *European Physical Journal Plus*, **2022**, 137, 1	3.1	
497	Dynamics of thermosolutal Marangoni convection and nanoparticle aggregation effects on Oldroyd-B nanofluid past a porous boundary with homogeneous-heterogeneous catalytic reactions. *Journal of the Indian Chemical Society*, **2022**, 100458		1
496	Bio-convective Darcy-Forchheimer oscillating thermal flow of Eyring-Powell nanofluid subject to exponential heat source/sink and modified Cattaneo Christov model applications. *Journal of the Indian Chemical Society*, **2022**, 99, 100399		3
495	Entropy optimized flow of Darcy-Forchheimer viscous fluid with cubic autocatalysis chemical reactions. *International Journal of Hydrogen Energy*, **2022**, 47, 13911-13920	6.7	2
494	Thermal outcomes for blood-based carbon nanotubes (SWCNT and MWCNTs) with Newtonian heating by using new Prabhakar fractional derivative simulations. *Case Studies in Thermal Engineering*, **2022**, 32, 101904	5.6	3
493	Sustainable use of chemically modified tyre rubber in concrete: Machine learning based novel predictive model. *Chemical Physics Letters*, **2022**, 793, 139478	2.5	3
492	A three-dimensional flow of an Oldroyd-B liquid with magnetic field and radiation effects: An application of thermophoretic particle deposition. *International Communications in Heat and Mass Transfer*, **2022**, 134, 106007	5.8	0
491	Predictive modeling of compressive strength of sustainable rice husk ash concrete: Ensemble learner optimization and comparison. *Journal of Cleaner Production*, **2022**, 348, 131285	10.3	6
490	Prediction of Compressive Strength of Fly-Ash-Based Concrete Using Ensemble and Non-Ensemble Supervised Machine-Learning Approaches. *Applied Sciences (Switzerland)*, **2022**, 12, 361	2.6	5
489	Melting aspects in flow of second grade nanomaterial with homogeneous heterogeneous reactions and irreversibility phenomenon: A residual error analysis. *Progress in Reaction Kinetics and Mechanism*, **2022**, 47, 146867832210903	0.5	
488	Applications of bioconvection for tiny particles due to two concentric cylinders when role of Lorentz force is significant.. *PLoS ONE*, **2022**, 17, e0265026	3.7	2
487	Numerical simulations for optimised flow of second-grade nanofluid due to rotating disk with nonlinear thermal radiation: Chebyshev spectral collocation method analysis. *Pramana - Journal of Physics*, **2022**, 96, 1		2
486	Forced convection three-dimensional Maxwell nanofluid flow due to bidirectional movement of sheet with zero mass flux. *International Communications in Heat and Mass Transfer*, **2022**, 135, 106050	5.8	1
485	Bidirectional rotating flow of nanofluid over a variable thickened stretching sheet with non-Fourier's heat flux and non-Fick's mass flux theory.. *PLoS ONE*, **2022**, 17, e0265443	3.7	0
484	Insight into the relationship between the Fourier's law of heat conduction and Fick's law over a Riga device: Fourth grade analysis. *Journal of the Indian Chemical Society*, **2022**, 100502		2
483	Neuro-computing intelligent networks for entropy optimized MHD fully developed nanofluid flow with activation energy and slip effects. *Journal of the Indian Chemical Society*, **2022**, 100504		1

482	Numerical Modeling and Symmetry Analysis of a Pine Wilt Disease Model Using the Mittag⬚effler Kernel. *Symmetry*, **2022**, 14, 1067	2.7	0
481	Thermal conductivity performance in propylene glycol-based Darcy-Forchheimer nanofluid flow with entropy analysis. *Journal of Petroleum Science and Engineering*, **2022**, 110612	4.4	1
480	Support vector regression and ANN approach for predicting the ground water quality. *Journal of the Indian Chemical Society*, **2022**, 99, 100538		1
479	Electroosmosis optimized thermal model for peristaltic flow of with Sutterby nanoparticles in asymmetric trapped channel. *European Physical Journal Plus*, **2021**, 136, 1	3.1	3
478	Intelligent backpropagated neural networks application on Darcy-Forchheimer ferrofluid slip flow system. *International Communications in Heat and Mass Transfer*, **2021**, 129, 105730	5.8	18
477	Electro-osmotic flow of biological fluid in divergent channel: drug therapy in compressed capillaries. *Scientific Reports*, **2021**, 11, 23652	4.9	8
476	Ohmic heating effects and entropy generation for nanofluidic system of Ree-Eyring fluid: Intelligent computing paradigm. *International Communications in Heat and Mass Transfer*, **2021**, 129, 105883	5.8	27
475	Study of homogeneous⬚eterogeneous reactions in bioconvection stagnation point⬚slip flow of Walter's-B nanofluid with nonlinear thermal radiation and activation energy. *International Communications in Heat and Mass Transfer*, **2021**, 129, 105729	5.8	2
474	Study of Buongiorno⬚ nanofluid model for flow due to stretching disks in presence of gyrotactic microorganisms. *Ain Shams Engineering Journal*, **2021**, 12, 3975-3985	4.4	3
473	Heat transfer and melting flow of⬚a Reiner-Philippoff fluid over a surface with Darcy-Forchheimer medium. *Case Studies in Thermal Engineering*, **2021**, 28, 101649	5.6	4
472	Implication of Magneto-hydrodynamics and Melting Heat Transfer in Cubic Autocatalytic Reactive Flow with Entropy Generation. *Journal of Magnetics*, **2021**, 26, 285-293	1.9	2
471	A review of COVID-19: Treatment Strategies and CRISPR/Cas9 gene editing technology approaches to the coronavirus disease. *Saudi Journal of Biological Sciences*, **2021**, 29, 860-860	4	2
470	A bioconvection model for viscoelastic nanofluid confined by tapered asymmetric channel: implicit finite difference simulations. *Journal of Biological Physics*, **2021**, 47, 499-520	1.6	1
469	Compressive strength prediction of rice husk ash using multiphysics genetic expression programming. *Ain Shams Engineering Journal*, **2021**, 13, 101593-101593	4.4	11
468	Assessment of heat and mass transfer characteristics in Poiseuille flow of non-Newtonian nanofluid in a porous channel with convectively heated lower wall. *Chinese Journal of Physics*, **2021**,	3.5	5
467	Optimized analysis and enhanced thermal efficiency of copper⬚luminum oxide nanoparticles under the influence of Joule heating and viscous dissipation. *European Physical Journal Plus*, **2021**, 136, 1	3.1	2
466	Melting heat transportation in chemical reactive flow of third grade nanofluid with irreversibility analysis. *International Communications in Heat and Mass Transfer*, **2021**, 129, 105696	5.8	3
465	Slip flow of micropolar nanofluid over a porous rotating disk with motile microorganisms, nonlinear thermal radiation and activation energy. *International Communications in Heat and Mass Transfer*, **2021**, 122, 105161	5.8	28

464	Dynamics of multiple solutions of Darcy–Forchheimer saturated flow of Cross nanofluid by a vertical thin needle point. *European Physical Journal Plus*, **2021**, 136, 1	3.1	40
463	Stability analysis and modeling for the three-dimensional Darcy-Forchheimer stagnation point nanofluid flow towards a moving surface. *Applied Mathematics and Mechanics (English Edition)*, **2021**, 42, 357-370	3.2	5
462	Two-phase flow of MHD Jeffrey fluid with the suspension of tiny metallic particles incorporated with viscous dissipation and Porous Medium. *Advances in Mechanical Engineering*, **2021**, 13, 168781402110059	1.2	13
461	Comparative analysis of Al2O3-47 nm and Al2O3-36 nm hybrid nanoparticles in a symmetric porous peristaltic channel. *Physica Scripta*, **2021**, 96, 055005	2.6	7
460	Slip flow of Jeffrey nanofluid with activation energy and entropy generation applications. *Advances in Mechanical Engineering*, **2021**, 13, 168781402110065	1.2	5
459	Marangoni convective flow of hybrid nanofluid (MnZnFe2O4-NiZnFe2O4-H2O) with Darcy Forchheimer medium. *Ain Shams Engineering Journal*, **2021**, 12, 3931-3931	4.4	32
458	Optimized frame work for Reiner–Philippoff nanofluid with improved thermal sources and Cattaneo–Christov modifications: A numerical thermal analysis. *International Journal of Modern Physics B*, **2021**, 35, 2150083	1.1	8
457	Dynamics of Activation Energy and Nonlinear Mixed Convection in Darcy-Forchheimer Radiated Flow of Carreau Nanofluid Near Stagnation Point Region. *Journal of Thermal Science and Engineering Applications*, **2021**, 13,	1.9	38
456	Transportation of hybrid nanoparticles in forced convective Darcy-Forchheimer flow by a rotating disk. *International Communications in Heat and Mass Transfer*, **2021**, 122, 105177	5.8	86
455	Critical values in axisymmetric flow of magneto-Cross nanomaterial towards a radially shrinking disk. *International Journal of Modern Physics B*, **2021**, 35, 2150105	1.1	16
454	Dynamics of dust particles in a conducting water-based kerosene nanomaterials: a computational approach. *International Journal of Chemical Reactor Engineering*, **2021**, 19, 787-797	1.2	5
453	Numerical and scale analysis of non-Newtonian fluid (Eyring-Powell) through pseudo-spectral collocation method (PSCM) towards a magnetized stretchable Riga surface. *AEJ - Alexandria Engineering Journal*, **2021**, 60, 2127-2137	6.1	16
452	Dynamics of unsteady reactive flow of viscous nanomaterial subject to Ohmic heating, heat source and viscous dissipation. *Ain Shams Engineering Journal*, **2021**, 12, 3997-3997	4.4	5
451	Comparative study of ferromagnetic hybrid (manganese zinc ferrite, nickle zinc ferrite) nanofluids with velocity slip and convective conditions. *Physica Scripta*, **2021**, 96, 075203	2.6	10
450	Thermal and boundary layer flow analysis for MWCNT-SiO2 hybrid nanoparticles: An experimental thermal model. *Modern Physics Letters B*, **2021**, 35, 2150303	1.6	9
449	Irreversibility analysis in natural bio-convective flow of Eyring-Powell nanofluid subject to activation energy and gyrotactic microorganisms. *Ain Shams Engineering Journal*, **2021**,	4.4	8
448	Dual branch solutions (multi-solutions) for nonlinear radiative Falkner–Skan flow of Maxwell nanomaterials with heat and mass transfer over a static/moving wedge. *International Journal of Modern Physics C*, **2021**, 32, 2150130	1.1	5
447	An assessment of the mathematical model for estimating of entropy optimized viscous fluid flow towards a rotating cone surface. *Scientific Reports*, **2021**, 11, 10259	4.9	13

446	Comparative analysis of (Zinc ferrite, Nickel Zinc ferrite) hybrid nanofluids slip flow with entropy generation. *Modern Physics Letters B*, **2021**, 35, 2150342	1.6	30
445	Dynamics of Casson nanoparticles with non-uniform heat source/sink: A numerical analysis. *Ain Shams Engineering Journal*, **2021**, 13, 101496-101496	4.4	4
444	Entropy generation minimization in bio-convective flow of nanofluid with activation energy and gyrotactic micro-organisms. *AIP Advances*, **2021**, 11, 055017	1.5	5
443	Nonlinear mixed convective Williamson nanofluid flow with the suspension of gyrotactic microorganisms. *International Journal of Modern Physics B*, **2021**, 35, 2150145	1.1	15
442	Geopolymer Concrete Compressive Strength via Artificial Neural Network, Adaptive Neuro Fuzzy Interface System, and Gene Expression Programming With K-Fold Cross Validation. *Frontiers in Materials*, **2021**, 8,	4	17
441	Sustainable use of fly-ash: Use of gene-expression programming (GEP) and multi-expression programming (MEP) for forecasting the compressive strength geopolymer concrete. *Ain Shams Engineering Journal*, **2021**,	4.4	22
440	Entropy optimized Darcy-Forchheimer flow of Reiner-Philippoff fluid with chemical reaction. *Computational and Theoretical Chemistry*, **2021**, 1200, 113222	2	5
439	Determination of in vivo biological activities of Dodonaea viscosa flowers against CCL toxicity in albino mice with bioactive compound detection. *Scientific Reports*, **2021**, 11, 13336	4.9	2
438	Influence of thermo-diffusion and dissipation thermo on the characteristics of optimized mixed convective radiative laminar flow with chemical reaction. *Computational and Theoretical Chemistry*, **2021**, 1200, 113245	2	0
437	Thermally radioactive bioconvection flow of Carreau nanofluid with modified Cattaneo-Christov expressions and exponential space-based heat source. *AEJ - Alexandria Engineering Journal*, **2021**, 60, 3073-3086	6.1	56
436	Hall device impacts on ciliated pump-assisted blood flow of double-diffusion convection of nanofluid in a porous divergent channel. *European Physical Journal Plus*, **2021**, 136, 1	3.1	8
435	Analysis of single and multi-wall carbon nanotubes (SWCNT/MWCNT) in the flow of Maxwell nanofluid with the impact of magnetic dipole. *Computational and Theoretical Chemistry*, **2021**, 1200, 113223	2	25
434	Immunoinformatics based prediction of recombinant multi-epitope vaccine for the control and prevention of SARS-CoV-2. *AEJ - Alexandria Engineering Journal*, **2021**, 60, 3087-3097	6.1	3
433	MHD flow study of viscous fluid through a complex wavy curved surface due to bio-mimetic propulsion under porosity and second-order slip effects. *Communications in Theoretical Physics*, **2021**, 73, 085001	2.4	3
432	Dynamics of Cattaneo-Christov Double Diffusion (CCDD) and arrhenius activation law on mixed convective flow towards a stretched Riga device. *Chaos, Solitons and Fractals*, **2021**, 148, 111010	9.3	9
431	Control of dusty nanofluid due to the interaction on dust particles in a conducting medium: Numerical investigation. *AEJ - Alexandria Engineering Journal*, **2021**, 61, 3341-3341	6.1	8
430	Nonlinear thermally radiative heat transport for brinkman type micropolar nano-material over an inclined surface with motile microorganisms and exponential heat source. *International Communications in Heat and Mass Transfer*, **2021**, 126, 105351	5.8	8
429	Nonlinear dissipative slip flow of Jeffrey nanomaterial towards a curved surface with entropy generation and activation energy. *Mathematics and Computers in Simulation*, **2021**, 185, 47-61	3.3	93

428	A comparative study of MHD fluid-particle suspension induced by metachronal wave under the effects of lubricated walls. *International Journal of Modern Physics B*, **2021**, 35, 2150204	1.1	6
427	Implication of fluid rheology on the Cattaneo–Christov heat flux theory for fourth grade nanofluid over a riga device with thermal radiation. *International Journal of Modern Physics B*, **2021**, 35, 2150189	1.1	
426	Bio-convective couple stress nanofluid behavior analysis with temperature-dependent viscosity and higher order slip encountered by a moving surface. *International Journal of Modern Physics B*, **2021**, 35, 2150199	1.1	2
425	Dynamics of coupled reacted flow of Oldroyd-B material induced by isothermal/exothermal stretched disks with Joule heating, viscous dissipation and magnetic dipoles. *AEJ - Alexandria Engineering Journal*, **2021**, 60, 767-783	6.1	8
424	Combined impacts of heat source/sink, radiative heat flux, temperature dependent thermal conductivity on forced convective Rabinowitsch fluid. *International Communications in Heat and Mass Transfer*, **2021**, 120, 105011	5.8	31
423	Falkner-Skan time-dependent bioconvrction flow of cross nanofluid with nonlinear thermal radiation, activation energy and melting process. *International Communications in Heat and Mass Transfer*, **2021**, 120, 105028	5.8	19
422	Transportation of Marangoni convection and irregular heat source in entropy optimized dissipative flow. *International Communications in Heat and Mass Transfer*, **2021**, 120, 105031	5.8	16
421	Perturbation solution of the multiphase flows of third grade dispersions suspended with Hafnium and crystal particles. *Surfaces and Interfaces*, **2021**, 22, 100803	4.1	22
420	Generalized Fourier's Law and Darcy–Forchheimer Forced/Mixed Convective Flow Towards a Riga Plate with Second-Order Velocity Slip: A Numerical Study. *International Journal of Computational Methods*, **2021**, 18, 2042002	1.1	
419	Interpretation of entropy generation in Williamson fluid flow with nonlinear thermal radiation and first-order velocity slip. *Mathematical Methods in the Applied Sciences*, **2021**, 44, 7756-7765	2.3	14
418	Numerical simulation for the mixed convective flow of non-Newtonian fluid with activation energy and entropy generation. *Mathematical Methods in the Applied Sciences*, **2021**, 44, 7766-7777	2.3	23
417	Aspects of constructive/destructive chemical reactions for viscous fluid flow between deformable wall channel with absorption and generation features. *International Communications in Heat and Mass Transfer*, **2021**, 120, 104956	5.8	1
416	Multi-phase flow of Jeffrey Fluid bounded within magnetized horizontal surface. *Surfaces and Interfaces*, **2021**, 22, 100846	4.1	31
415	CVFEM based numerical investigation and mathematical modeling of surface dependent magnetized copper-oxide nanofluid flow using new model of porous space. *Numerical Methods for Partial Differential Equations*, **2021**, 37, 1481-1494	2.5	7
414	Non-magnetized mixed convective viscous flow submerged in titanium oxide and aluminum titanium oxide hybrid nanoparticles towards a surface of cylinder. *International Communications in Heat and Mass Transfer*, **2021**, 120, 105027	5.8	3
413	Thermophoresis particle deposition analysis for nonlinear thermally developed flow of Magneto-Walter's B nanofluid with buoyancy forces. *AEJ - Alexandria Engineering Journal*, **2021**, 60, 1851-1860	6.1	18
412	Modeling and numerical analysis of nanoliquid (titanium oxide, graphene oxide) flow viscous fluid with second order velocity slip and entropy generation. *Chinese Journal of Chemical Engineering*, **2021**, 31, 17-25	3.2	15
411	Significance of temperature-dependent viscosity and thermal conductivity of Walter's B nanoliquid when sinusodal wall and motile microorganisms density are significant. *Surfaces and Interfaces*, **2021**, 22, 100849	4.1	21

410	Free convection and radiation effects in nanofluid (Silicon dioxide and Molybdenum disulfide) with second order velocity slip, entropy generation, Darcy-Forchheimer porous medium. *International Journal of Hydrogen Energy*, **2021**, 46, 1362-1369	6.7	82
409	Rheology of hydromagnetic viscoelastic fluid subjected to dissipation aspect. *International Journal of Numerical Methods for Heat and Fluid Flow*, **2021**, 31, 1110-1123	4.5	
408	Assessment of bioconvection in magnetized Sutterby nanofluid configured by a rotating disk: A numerical approach. *Modern Physics Letters B*, **2021**, 35, 2150202	1.6	23
407	Numerical simulation of squeezing flow Jeffrey nanofluid confined by two parallel disks with the help of chemical reaction: effects of activation energy and microorganisms. *International Journal of Chemical Reactor Engineering*, **2021**, 19, 717-725	1.2	15
406	Numerical simulation of advection￼diffusion equation with caputo-fabrizio time fractional derivative in cylindrical domains: Applications of pseudo-spectral collocation method. *AEJ - Alexandria Engineering Journal*, **2021**, 60, 1731-1738	6.1	12
405	Analysis of Buongiorno￼ nanofluid model in marangoni convective flow with gyrotactic microorganism and activation energy. *International Journal of Modern Physics C*, **2021**, 32, 2150072	1.1	2
404	Double diffusive convection and Hall effect in creeping flow of viscous nanofluid through a convergent microchannel: a biotechnological applications. *Computer Methods in Biomechanics and Biomedical Engineering*, **2021**, 24, 1326-1343	2.1	4
403	A higher order slip flow of generalized Micropolar nanofluid with applications of motile microorganisms, nonlinear thermal radiation and activation energy. *International Journal of Modern Physics B*, **2021**, 35, 2150095	1.1	9
402	Three-Dimensional Radiative Bioconvective Flow of a Sisko Nanofluid with Motile Microorganisms. *Coatings*, **2021**, 11, 335	2.9	4
401	Peristaltic activity for electro-kinetic complex driven cilia transportation through a non-uniform channel. *Computer Methods and Programs in Biomedicine*, **2021**, 200, 105926	6.9	12
400	Numerical analysis of multiphase flow of couple stress fluid thermally effected by moving surface. *International Journal of Modern Physics B*, **2021**, 35, 2150188	1.1	5
399	Modeling and simulation of micro-rotation and spin gradient viscosity for ferromagnetic hybrid (Manganese Zinc Ferrite, Nickle Zinc Ferrite) nanofluids. *Mathematics and Computers in Simulation*, **2021**, 185, 497-509	3.3	11
398	Dual solution framework for mixed convection flow of Maxwell nanofluid instigated by exponentially shrinking surface with thermal radiation. *Scientific Reports*, **2021**, 11, 15944	4.9	4
397	Numerical study of bio-convection flow of magneto-cross nanofluid containing gyrotactic microorganisms with activation energy. *Scientific Reports*, **2021**, 11, 16030	4.9	23
396	Bio-convective Darcy-Forchheimer periodically accelerated flow of non-Newtonian nanofluid with Cattaneo￼Christov and Prandtl effective approach. *Case Studies in Thermal Engineering*, **2021**, 26, 101102	5.6	8
395	Nonlinear stability characteristics of rotating plane channel Poiseuille flow with the outcome of nonlinear evolution equation. *AIP Advances*, **2021**, 11, 085024	1.5	
394	Modelling and numerical computation for flow of micropolar fluid towards an exponential curved surface: a Keller box method. *Scientific Reports*, **2021**, 11, 16351	4.9	2
393	Numerical treatment of time dependent magnetohydrodynamic nanofluid flow of mass and heat transport subject to chemical reaction and heat source. *AEJ - Alexandria Engineering Journal*, **2021**, 61, 2484-2484	6.1	11

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392	Nonlinear thermal radiation and activation energy significances in slip flow of bioconvection of Oldroyd-B nanofluid with Cattaneo-Christov theories. *Case Studies in Thermal Engineering*, **2021**, 26, 101069	5.6	5
391	Numerical simulation of AA7072-AA7075/water-based hybrid nanofluid flow over a curved stretching sheet with Newtonian heating: A non-Fourier heat flux model approach. *Journal of Molecular Liquids*, **2021**, 335, 116103	6	87
390	Analytical simulation of nanoparticle-embedded blood flow control with magnetic field influence through spectra homotopy analysis method. *International Journal of Modern Physics B*, **2021**, 35,	1.1	7
389	Unmanned air vehicle based high resolution imagery for chlorophyll estimation using spectrally modified vegetation indices in vertical hierarchy of citrus grove. *Remote Sensing Applications: Society and Environment*, **2021**, 23, 100596	2.8	
388	Interfacial layer and shape effects of modified Hamilton Crosser model in entropy optimized Darcy-Forchheimer flow. *AEJ - Alexandria Engineering Journal*, **2021**, 60, 4067-4083	6.1	36
387	Entropy generation applications in flow of viscoelastic nanofluid past a lubricated disk in presence of nonlinear thermal radiation and Joule heating. *Communications in Theoretical Physics*, **2021**, 73, 095004	2.4	5
386	Entropy optimized dissipative flow of hybrid nanofluid in the presence of non-linear thermal radiation and Joule heating. *Scientific Reports*, **2021**, 11, 16067	4.9	2
385	Prevalence of drug-resistant microbes in sepsis cases of catheter and fistula based haemodialysis. *Saudi Journal of Biological Sciences*, **2021**, 28, 7443-7449	4	
384	Irreversibility analysis for axisymmetric nanomaterial flow towards a stretched surface. *Chaos, Solitons and Fractals*, **2021**, 150, 111145	9.3	1
383	Heat transport and bio-convective nanomaterial flow of Walter's-B fluid containing gyrotactic microorganisms. *Ain Shams Engineering Journal*, **2021**, 12, 3071-3079	4.4	2
382	Construction of similarity transformations and analytic solutions for a liquid film on an unsteady stretching sheet using lie point symmetries. *Chaos, Solitons and Fractals*, **2021**, 150, 111115	9.3	0
381	Entropy generation and Joule heating applications for Darcy Forchheimer flow of Ree-Eyring nanofluid due to double rotating disks with artificial neural network. *AEJ - Alexandria Engineering Journal*, **2021**, 61, 3679-3679	6.1	3
380	Comparative study of mechanical properties between irradiated and regular plastic waste as a replacement of cement and fine aggregate for manufacturing of green concrete. *Ain Shams Engineering Journal*, **2021**, 13, 101563-101563	4.4	5
379	Two-phase flow of couple stress fluid thermally effected slip boundary conditions: Numerical analysis with variable liquids properties. *AEJ - Alexandria Engineering Journal*, **2021**, 61, 3821-3821	6.1	6
378	Aspects of constructive/destructive chemical reaction with activation energy for Darcy-Forchheimer hybrid nanofluid flow due to semi-infinite asymmetric channel with absorption and generation features. *Ain Shams Engineering Journal*, **2021**, 12, 2981-2989	4.4	5
377	Development of mathematical modeling of multi-phase flow of Casson rheological fluid: Theoretical approach. *Chaos, Solitons and Fractals*, **2021**, 150, 111198	9.3	8
376	Reduction of systems of two nonlinear parabolic type partial differential equations to solvable forms using differential invariants. *Chaos, Solitons and Fractals*, **2021**, 150, 111107	9.3	
375	Non-uniform heat source/sink applications for the radiative flow of Brinkman micropolar nanofluid with microorganisms. *Computational and Theoretical Chemistry*, **2021**, 1203, 113330	2	0

374	Study of radiative Reiner–Philippoff nanofluid model with gyrotactic microorganisms and activation energy: A Cattaneo–Christov Double Diffusion (CCDD) model analysis. *Chinese Journal of Physics*, **2021**, 73, 569-580	3.5	2
373	Solar energy aspects of gyrotactic mixed bioconvection flow of nanofluid past a vertical thin moving needle influenced by variable Prandtl number. *Chaos, Solitons and Fractals*, **2021**, 151, 111244	9.3	18
372	Applications of modified Darcy law and nonlinear thermal radiation in bioconvection flow of micropolar nanofluid over an off centered rotating disk. *AEJ - Alexandria Engineering Journal*, **2021**, 60, 4607-4618	6.1	31
371	Significance of induced magnetic force bio-convective flow of radiative Maxwell nanofluid with activation energy. *Case Studies in Thermal Engineering*, **2021**, 27, 101282	5.6	7
370	Rumex hastatus derived silver nanoparticles development and their potential applications as hepatic-protection agent along with antimicrobial activity. *Journal of King Saud University - Science*, **2021**, 33, 101587	3.6	4
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