Muhammad Ijaz Khan

List of Publications by Citations

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	Impact of Cattaneo–Christov heat flux model in flow of variable thermal conductivity fluid over a variable thicked surface. *International Journal of Heat and Mass Transfer*, **2016**, 99, 702-710	4.9	588
516	A comparative study of Casson fluid with homogeneous-heterogeneous reactions. *Journal of Colloid and Interface Science*, **2017**, 498, 85-90	9.3	571
515	Magnetohydrodynamic (MHD) mixed convection flow of micropolar liquid due to nonlinear stretched sheet with convective condition. *International Journal of Heat and Mass Transfer*, **2016**, 102, 766-772	4.9	366
514	Stagnation point flow with Cattaneo-Christov heat flux and homogeneous-heterogeneous reactions. *Journal of Molecular Liquids*, **2016**, 220, 49-55	6	297
513	MHD stagnation point flow of viscoelastic nanofluid with non-linear radiation effects. *Journal of Molecular Liquids*, **2016**, 221, 1097-1103	6	249
512	Entropy generation in flow with silver and copper nanoparticles. *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, **2018**, 539, 335-346	5.1	232
511	Magnetohydrodynamics (MHD) radiated nanomaterial viscous material flow by a curved surface with second order slip and entropy generation. *Computer Methods and Programs in Biomedicine*, **2020**, 189, 105294	6.9	182
510	Activation energy impact in nonlinear radiative stagnation point flow of Cross nanofluid. *International Communications in Heat and Mass Transfer*, **2018**, 91, 216-224	5.8	181
509	Analysis of thixotropic nanomaterial in a doubly stratified medium considering magnetic field effects. *International Journal of Heat and Mass Transfer*, **2016**, 102, 1123-1129	4.9	180
508	Artificial neural networking (ANN) analysis for heat and entropy generation in flow of non-Newtonian fluid between two rotating disks. *Mathematical Methods in the Applied Sciences*,	2.3	178
507	Numerical simulation for melting heat transfer and radiation effects in stagnation point flow of carbon–water nanofluid. *Computer Methods in Applied Mechanics and Engineering*, **2017**, 315, 1011-1024	5.7	171
506	Numerical simulation for magneto Carreau nanofluid model with thermal radiation: A revised model. *Computer Methods in Applied Mechanics and Engineering*, **2017**, 324, 640-653	5.7	163
505	Fully developed Darcy-Forchheimer mixed convective flow over a curved surface with activation energy and entropy generation. *Computer Methods and Programs in Biomedicine*, **2020**, 188, 105298	6.9	156
504	Entropy generation minimization (EGM) of nanofluid flow by a thin moving needle with nonlinear thermal radiation. *Physica B: Condensed Matter*, **2018**, 534, 113-119	2.8	148
503	Entropy generation in magnetohydrodynamic radiative flow due to rotating disk in presence of viscous dissipation and Joule heating. *Physics of Fluids*, **2018**, 30, 017101	4.4	141
502	Impact of Marangoni convection in the flow of carbon–water nanofluid with thermal radiation. *International Journal of Heat and Mass Transfer*, **2017**, 106, 810-815	4.9	135
501	Entropy generation minimization and binary chemical reaction with Arrhenius activation energy in MHD radiative flow of nanomaterial. *Journal of Molecular Liquids*, **2018**, 259, 274-283	6	125

500	Entropy optimized MHD 3D nanomaterial of non-Newtonian fluid: A combined approach to good absorber of solar energy and intensification of heat transport. *Computer Methods and Programs in Biomedicine*, **2020**, 186, 105131	6.9	121
499	A modified homogeneous-heterogeneous reactions for MHD stagnation flow with viscous dissipation and Joule heating. *International Journal of Heat and Mass Transfer*, **2017**, 113, 310-317	4.9	120
498	Fully developed entropy optimized second order velocity slip MHD nanofluid flow with activation energy. *Computer Methods and Programs in Biomedicine*, **2020**, 190, 105362	6.9	120
497	New thermodynamics of entropy generation minimization with nonlinear thermal radiation and nanomaterials. *Physics Letters, Section A: General, Atomic and Solid State Physics*, **2018**, 382, 749-760	2.3	118
496	Entropy generation in dissipative flow of Williamson fluid between two rotating disks. *International Journal of Heat and Mass Transfer*, **2018**, 127, 933-942	4.9	114
495	Radiative flow of micropolar nanofluid accounting thermophoresis and Brownian moment. *International Journal of Hydrogen Energy*, **2017**, 42, 16821-16833	6.7	108
494	Entropy generation in flow of Carreau nanofluid. *Journal of Molecular Liquids*, **2019**, 278, 677-687	6	108
493	Entropy generation in radiative motion of tangent hyperbolic nanofluid in presence of activation energy and nonlinear mixed convection. *Physics Letters, Section A: General, Atomic and Solid State Physics*, **2018**, 382, 2017-2026	2.3	108
492	Entropy generation in Darcy-Forchheimer bidirectional flow of water-based carbon nanotubes with convective boundary conditions. *Journal of Molecular Liquids*, **2018**, 265, 629-638	6	107
491	Entropy generation in flow of ferromagnetic liquid with nonlinear radiation and slip condition. *Journal of Molecular Liquids*, **2019**, 276, 441-452	6	103
490	Magnetohydrodynamic (MHD) stratified bioconvective flow of nanofluid due to gyrotactic microorganisms. *Advanced Powder Technology*, **2017**, 28, 288-298	4.6	101
489	Theoretical investigation of Ree-Eyring nanofluid flow with entropy optimization and Arrhenius activation energy between two rotating disks. *Computer Methods and Programs in Biomedicine*, **2019**, 177, 57-68	6.9	99
488	Theoretical study of MHD electro-osmotically flow of third-grade fluid in micro channel. *Applied Mathematics and Computation*, **2022**, 420, 126868	2.7	99
487	Entropy optimized Darcy-Forchheimer nanofluid (Silicon dioxide, Molybdenum disulfide) subject to temperature dependent viscosity. *Computer Methods and Programs in Biomedicine*, **2020**, 190, 105363	6.9	99
486	A framework for nonlinear thermal radiation and homogeneous-heterogeneous reactions flow based on silver-water and copper-water nanoparticles: A numerical model for probable error. *Results in Physics*, **2017**, 7, 1907-1914	3.7	98
485	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
484	Water-carbon nanofluid flow with variable heat flux by a thin needle. *Journal of Molecular Liquids*, **2016**, 224, 786-791	6	95
483	Research progress in the development of natural gas as fuel for road vehicles: A bibliographic review (1991–2016). *Renewable and Sustainable Energy Reviews*, **2016**, 66, 702-741	16.2	93

482	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
481	Behavior of stratification phenomenon in flow of Maxwell nanomaterial with motile gyrotactic microorganisms in the presence of magnetic field. *International Journal of Mechanical Sciences*, **2017**, 131-132, 426-434	5.5	92
480	Entropy optimized MHD nanomaterial flow subject to variable thicked surface. *Computer Methods and Programs in Biomedicine*, **2020**, 189, 105311	6.9	92
479	Viscous dissipation effect in flow of magnetonanofluid with variable properties. *Journal of Molecular Liquids*, **2016**, 222, 47-54	6	92
478	Comparative investigation of five nanoparticles in flow of viscous fluid with Joule heating and slip due to rotating disk. *Physica B: Condensed Matter*, **2018**, 534, 173-183	2.8	91
477	Joule heating and viscous dissipation in flow of nanomaterial by a rotating disk. *International Communications in Heat and Mass Transfer*, **2017**, 89, 190-197	5.8	91
476	Stratified flow of an Oldroyd-B nanoliquid with heat generation. *Results in Physics*, **2017**, 7, 2489-2496	3.7	89
475	Mathematical modeling and analysis of SWCNT-Water and MWCNT-Water flow over a stretchable sheet. *Computer Methods and Programs in Biomedicine*, **2020**, 187, 105222	6.9	88
474	Entropy optimization in flow of Williamson nanofluid in the presence of chemical reaction and Joule heating. *International Journal of Heat and Mass Transfer*, **2019**, 133, 959-967	4.9	88
473	Flow and thermal analysis on Darcy-Forchheimer flow of copper-water nanofluid due to a rotating disk: A static and dynamic approach. *Journal of Materials Research and Technology*, **2020**, 9, 7387-7408	5.5	87
472	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
471	Heat transport and nonlinear mixed convective nanomaterial slip flow of Walter-B fluid containing gyrotactic microorganisms. *AEJ - Alexandria Engineering Journal*, **2020**, 59, 1761-1769	6.1	86
470	Modeling and computational analysis of hybrid class nanomaterials subject to entropy generation. *Computer Methods and Programs in Biomedicine*, **2019**, 179, 104973	6.9	86
469	Thermally stratified stretching flow with Cattaneo–Christov heat flux. *International Journal of Heat and Mass Transfer*, **2017**, 106, 289-294	4.9	86
468	Flow of hybrid nanofluid across a permeable longitudinal moving fin along with thermal radiation and natural convection. *Computer Methods and Programs in Biomedicine*, **2020**, 185, 105166	6.9	86
467	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
466	Magnetohydrodynamic flow of Casson fluid over a stretching cylinder. *Results in Physics*, **2017**, 7, 498-502	3.7	85
465	Entropy generation for flow of Sisko fluid due to rotating disk. *Journal of Molecular Liquids*, **2018**, 264, 375-385	6	84

464	Optimization of entropy generation and dissipative nonlinear radiative Von Karman's swirling flow with Soret and Dufour effects. *Journal of Molecular Liquids*, **2018**, 262, 261-274	6	82
463	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
462	Modeling and analysis for magnetic dipole impact in nonlinear thermally radiating Carreau nanofluid flow subject to heat generation. *Journal of Magnetism and Magnetic Materials*, **2019**, 485, 197-204	2.8	81
461	Numerical simulation for nonlinear radiative flow by convective cylinder. *Results in Physics*, **2016**, 6, 1031-1035	3.7	81
460	Outcome for chemically reactive aspect in flow of tangent hyperbolic material. *Journal of Molecular Liquids*, **2017**, 230, 143-151	6	80
459	Entropy optimization and quartic autocatalysis in MHD chemically reactive stagnation point flow of Sisko nanomaterial. *International Journal of Heat and Mass Transfer*, **2018**, 127, 829-837	4.9	80
458	Significance of nonlinear radiation in mixed convection flow of magneto Walter-B nanoliquid. *International Journal of Hydrogen Energy*, **2017**, 42, 26408-26416	6.7	79
457	Impacts of constructive and destructive chemical reactions in magnetohydrodynamic (MHD) flow of Jeffrey liquid due to nonlinear radially stretched surface. *Journal of Molecular Liquids*, **2017**, 225, 302-310	6	79
456	Transportation of heat generation/absorption and radiative heat flux in homogeneous-heterogeneous catalytic reactions of non-Newtonian fluid (Oldroyd-B model). *Computer Methods and Programs in Biomedicine*, **2020**, 189, 105310	6.9	79
455	Mathematical modeling of non-Newtonian fluid with chemical aspects: A new formulation and results by numerical technique. *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, **2017**, 518, 263-272	5.1	78
454	Simulation of magnetohydrodynamics and radiative heat transport in convectively heated stratified flow of Jeffrey nanofluid. *Journal of Physics and Chemistry of Solids*, **2019**, 133, 45-51	3.9	78
453	Simulation and modeling of second order velocity slip flow of micropolar ferrofluid with Darcy-Forchheimer porous medium. *Journal of Materials Research and Technology*, **2020**, 9, 7335-7340	5.5	78
452	Modeling and analyzing flow of third grade nanofluid due to rotating stretchable disk with chemical reaction and heat source. *Physica B: Condensed Matter*, **2018**, 537, 116-126	2.8	78
451	Physical significance of heat generation/absorption and Soret effects on peristalsis flow of pseudoplastic fluid in an inclined channel. *Journal of Molecular Liquids*, **2019**, 275, 599-615	6	78
450	Numerical simulation of hydromagnetic mixed convective radiative slip flow with variable fluid properties: A mathematical model for entropy generation. *Journal of Physics and Chemistry of Solids* , **2019**, 125, 153-164	3.9	78
449	Transportation of radiative energy in viscoelastic nanofluid considering buoyancy forces and convective conditions. *Chaos, Solitons and Fractals*, **2020**, 130, 109415	9.3	78
448	Activation energy and binary chemical reaction effect in nonlinear thermal radiative stagnation point flow of Walter-B nanofluid: Numerical computations. *International Journal of Modern Physics B*, **2020**, 34, 2050132	1.1	77
447	Entropy generation minimization (EGM) for convection nanomaterial flow with nonlinear radiative heat flux. *Journal of Molecular Liquids*, **2018**, 260, 279-291	6	76

446	Irreversibility Analysis and Heat Transport in Squeezing Nanoliquid Flow of Non-Newtonian (Second-Grade) Fluid Between Infinite Plates with Activation Energy. *Arabian Journal for Science and Engineering*, **2020**, 45, 4939-4947	2.5	75
445	Entropy generation optimization and unsteady squeezing flow of viscous fluid with five different shapes of nanoparticles. *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, **2018**, 554, 197-210	5.1	75
444	Mixed convective three-dimensional flow of Williamson nanofluid subject to chemical reaction. *International Journal of Heat and Mass Transfer*, **2018**, 127, 422-429	4.9	74
443	Modern developments about statistical declaration and probable error for skin friction and Nusselt number with copper and silver nanoparticles. *Chinese Journal of Physics*, **2017**, 55, 2501-2513	3.5	74
442	Current progresses about probable error and statistical declaration for radiative two phase flow using AgH2O and CuH2O nanomaterials. *International Journal of Hydrogen Energy*, **2017**, 42, 29107-29120	6.7	74
441	Fully developed second order velocity slip Darcy-Forchheimer flow by a variable thicked surface of disk with entropy generation. *International Communications in Heat and Mass Transfer*, **2020**, 117, 104778	5.8	74
440	Entropy generation minimization (EGM) in nonlinear mixed convective flow of nanomaterial with Joule heating and slip condition. *Journal of Molecular Liquids*, **2018**, 256, 108-120	6	73
439	VIV study of an elastically mounted cylinder having low mass-damping ratio using RANS model. *International Journal of Heat and Mass Transfer*, **2018**, 121, 309-314	4.9	73
438	Entropy generation minimization and statistical declaration with probable error for skin friction coefficient and Nusselt number. *Chinese Journal of Physics*, **2018**, 56, 1525-1546	3.5	73
437	Chemically reactive flow of Maxwell liquid due to variable thicked surface. *International Communications in Heat and Mass Transfer*, **2017**, 86, 231-238	5.8	73
436	On Cattaneo–Christov double diffusion impact for temperature-dependent conductivity of Powell–Eyring liquid. *Chinese Journal of Physics*, **2017**, 55, 729-737	3.5	71
435	Squeezing flow of second grade liquid subject to non-Fourier heat flux and heat generation/absorption. *Colloid and Polymer Science*, **2017**, 295, 967-975	2.4	71
434	Binary chemical reaction with activation energy in dissipative flow of non-Newtonian nanomaterial. *Journal of Theoretical and Computational Chemistry*, **2020**, 19, 2040006	1.8	71
433	Unsteady three-dimensional mixed convection flow with variable viscosity and thermal conductivity. *Journal of Molecular Liquids*, **2016**, 223, 1297-1310	6	70
432	MHD boundary layer thermal slip flow by nonlinearly stretching cylinder with suction/blowing and radiation. *Results in Physics*, **2017**, 7, 1207-1211	3.7	69
431	Effectiveness of magnetic nanoparticles in radiative flow of Eyring-Powell fluid. *Journal of Molecular Liquids*, **2017**, 231, 126-133	6	68
430	Magnetohydrodynamic flow of burgers fluid with heat source and power law heat flux. *Chinese Journal of Physics*, **2017**, 55, 318-330	3.5	68
429	Impact of heat generation/absorption and homogeneous-heterogeneous reactions on flow of Maxwell fluid. *Journal of Molecular Liquids*, **2017**, 233, 465-470	6	67

428	Ferrofluid flow by a stretched surface in the presence of magnetic dipole and homogeneous-heterogeneous reactions. *Journal of Molecular Liquids*, **2016**, 223, 1000-1005	6	67
427	Nonlinear thermal radiation in flow induced by a slendering surface accounting thermophoresis and Brownian diffusion. *European Physical Journal Plus*, **2017**, 132, 1	3.1	67
426	Diffusion of chemically reactive species in third grade fluid flow over an exponentially stretching sheet considering magnetic field effects. *Chinese Journal of Chemical Engineering*, **2017**, 25, 257-263	3.2	66
425	Numerical investigation of magnetohydrodynamic stagnation point flow with variable properties. *AEJ - Alexandria Engineering Journal*, **2016**, 55, 2367-2373	6.1	66
424	Numerical simulation of heat transfer in MHD stagnation point flow of Cross fluid model towards a stretched surface. *Results in Physics*, **2017**, 7, 1824-1827	3.7	65
423	Numerical simulation of nonlinear thermal radiation and homogeneous-heterogeneous reactions in convective flow by a variable thicked surface. *Journal of Molecular Liquids*, **2017**, 246, 259-267	6	65
422	Optimizing the theoretical analysis of entropy generation in the flow of second grade nanofluid. *Physica Scripta*, **2019**, 94, 085001	2.6	64
421	Modeling of Cattaneo-Christov double diffusions (CCDD) in Williamson nanomaterial slip flow subject to porous medium. *Journal of Materials Research and Technology*, **2020**, 9, 6172-6177	5.5	64
420	Electromagneto squeezing rotational flow of Carbon (C)-Water (H2O) kerosene oil nanofluid past a Riga plate: A numerical study. *PLoS ONE*, **2017**, 12, e0180976	3.7	64
419	Homogeneous-heterogeneous reactions and melting heat transfer effects in the MHD flow by a stretching surface with variable thickness. *Journal of Molecular Liquids*, **2016**, 223, 960-968	6	63
418	Similarity transformation approach for ferromagnetic mixed convection flow in the presence of chemically reactive magnetic dipole. *Physics of Fluids*, **2016**, 28, 102003	4.4	63
417	Simulation of ferromagnetic nanomaterial flow of Maxwell fluid. *Results in Physics*, **2018**, 8, 34-40	3.7	62
416	Newtonian heating effect in nanofluid flow by a permeable cylinder. *Results in Physics*, **2017**, 7, 256-262	3.7	61
415	Magneto rotating flow of hybrid nanofluid with entropy generation. *Computer Methods and Programs in Biomedicine*, **2020**, 183, 105093	6.9	57
414	On Cattaneo□Christov heat flux in the flow of variable thermal conductivity Eyring□Powell fluid. *Results in Physics*, **2017**, 7, 446-450	3.7	56
413	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
412	Properties of natural pozzolan and its potential utilization in environmental friendly concrete. *Canadian Journal of Civil Engineering*, **2011**, 38, 71-78	1.3	53
411	Investigation of Sisko fluid through entropy generation. *Journal of Molecular Liquids*, **2018**, 257, 155-163	6	51

410	Significance of activation energy, bio-convection and magnetohydrodynamic in flow of third grade fluid (non-Newtonian) towards stretched surface: A Buongiorno model analysis. *International Communications in Heat and Mass Transfer*, **2020**, 118, 104893	5.8	47
409	Entropy analysis for comparative study of effective Prandtl number and without effective Prandtl number via Al2O3-H2O and Al2O3-C2H6O2 nanoparticles. *Journal of Molecular Liquids*, **2018**, 266, 814-823	6	46
408	Entropy optimized CNTs based Darcy-Forchheimer nanomaterial flow between two stretchable rotating disks. *International Journal of Hydrogen Energy*, **2019**, 44, 31579-31592	6.7	46
407	Entropy generation optimization in flow of PrandtlEyring nanofluid with binary chemical reaction and Arrhenius activation energy. *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, **2019**, 570, 117-126	5.1	43
406	Transport of hybrid type nanomaterials in peristaltic activity of viscous fluid considering nonlinear radiation, entropy optimization and slip effects. *Computer Methods and Programs in Biomedicine*, **2020**, 184, 105086	6.9	43
405	Salient features of Dufour and Soret effect in radiative MHD flow of viscous fluid by a rotating cone with entropy generation. *International Journal of Hydrogen Energy*, **2020**, 45, 14552-14564	6.7	42
404	Bioconvection analysis for Sutterby nanofluid over an axially stretched cylinder with melting heat transfer and variable thermal features: A Marangoni and solutal model. *AEJ - Alexandria Engineering Journal*, **2021**, 60, 4663-4675	6.1	42
403	Dynamics of multiple solutions of DarcyForchheimer saturated flow of Cross nanofluid by a vertical thin needle point. *European Physical Journal Plus*, **2021**, 136, 1	3.1	40
402	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
401	Non-Darcy flow of water-based single (SWCNTs) and multiple (MWCNTs) walls carbon nanotubes with multiple slip conditions due to rotating disk. *Results in Physics*, **2018**, 9, 390-399	3.7	37
400	Nanomaterial based flow of Prandtl-Eyring (non-Newtonian) fluid using Brownian and thermophoretic diffusion with entropy generation. *Computer Methods and Programs in Biomedicine*, **2019**, 180, 105017	6.9	36
399	Interfacial layer and shape effects of modified HamiltonCrosser model in entropy optimized Darcy-Forchheimer flow. *AEJ - Alexandria Engineering Journal*, **2021**, 60, 4067-4083	6.1	36
398	Cattaneo-Christov Double Diffusion (CCDD) and magnetized stagnation point flow of non-Newtonian fluid with internal resistance of particles. *Physica Scripta*, **2020**, 95, 125002	2.6	35
397	Cattaneo-Christov (CC) heat flux model for nanomaterial stagnation point flow of Oldroyd-B fluid. *Computer Methods and Programs in Biomedicine*, **2020**, 187, 105247	6.9	35
396	Exploring magnetic dipole contribution on radiative flow of ferromagnetic Williamson fluid. *Results in Physics*, **2018**, 8, 545-551	3.7	34
395	Modeling Chemically Reactive Flow of Sutterby Nanofluid by a Rotating Disk in Presence of Heat Generation/Absorption. *Communications in Theoretical Physics*, **2018**, 69, 569	2.4	33
394	Salient aspects of entropy generation optimization in mixed convection nanomaterial flow. *International Journal of Heat and Mass Transfer*, **2018**, 126, 1337-1346	4.9	33
393	Melting heat transfer and double stratification in stagnation flow of viscous nanofluid. *Results in Physics*, **2017**, 7, 2296-2301	3.7	32

392	Flow and Heat Transfer over an Unsteady Stretching Sheet in a Micropolar Fluid with Convective Boundary Condition. *Journal of Applied Fluid Mechanics*, **2016**, 9, 1437-1445	1.5	32
391	Darcy-Forchheimer hybrid (MoS, SiO) nanofluid flow with entropy generation. *Computer Methods and Programs in Biomedicine*, **2020**, 185, 105152	6.9	32
390	Development of thixotropic nanomaterial in fluid flow with gyrotactic microorganisms, activation energy, mixed convection. *Computer Methods and Programs in Biomedicine*, **2020**, 187, 105186	6.9	32
389	Marangoni convective flow of hybrid nanofluid (MnZnFe2O4-NiZnFe2O4-H2O) with Darcy Forchheimer medium. *Ain Shams Engineering Journal*, **2021**, 12, 3931-3931	4.4	32
388	Estimation of entropy generation in Carreau-Yasuda fluid flow using chemical reaction with activation energy. *Journal of Materials Research and Technology*, **2020**, 9, 9951-9964	5.5	31
387	Modeling and theoretical analysis of gyrotactic microorganisms in radiated nanomaterial Williamson fluid with activation energy. *Journal of Materials Research and Technology*, **2020**, 9, 10468-10477	5.5	31
386	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
385	Multi-phase flow of Jeffrey Fluid bounded within magnetized horizontal surface. *Surfaces and Interfaces*, **2021**, 22, 100846	4.1	31
384	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
383	Magnetohydrodynamic (MHD) stagnation point flow of Casson fluid over a stretched surface with homogeneous–heterogeneous reactions. *Journal of Theoretical and Computational Chemistry*, **2017**, 16, 1750022	1.8	30
382	Mesoscopic investigation for alumina nanofluid heat transfer in permeable medium influenced by Lorentz forces. *Computer Methods in Applied Mechanics and Engineering*, **2019**, 349, 839-858	5.7	30
381	Theoretical investigation of peristalsis transport in flow of hyperbolic tangent fluid with slip effects and chemical reaction. *Journal of Molecular Liquids*, **2019**, 285, 314-322	6	30
380	Non-Darcy Forchheimer flow of ferromagnetic second grade fluid. *Results in Physics*, **2017**, 7, 3419-3424	3.7	30
379	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
378	Non-Darcy flow of water-based carbon nanotubes with nonlinear radiation and heat generation/absorption. *Results in Physics*, **2018**, 8, 473-480	3.7	29
377	Magneto-hydrodynamical numerical simulation of heat transfer in MHD stagnation point flow of Cross fluid model towards a stretched surface. *Physics and Chemistry of Liquids*, **2018**, 56, 584-595	1.5	29
376	On the performance of heat absorption/generation and thermal stratification in mixed convective flow of an Oldroyd-B fluid. *Nuclear Engineering and Technology*, **2017**, 49, 1645-1653	2.6	29
375	Nonlinear radiative bioconvection flow of Maxwell nanofluid configured by bidirectional oscillatory moving surface with heat generation phenomenon. *Physica Scripta*, **2020**, 95, 105007	2.6	29

374	Physical aspects of CNTs and induced magnetic flux in stagnation point flow with quartic chemical reaction. *International Journal of Heat and Mass Transfer*, **2019**, 135, 561-568	4.9	28
373	Stagnation point flow of hyperbolic tangent fluid with Soret-Dufour effects. *Results in Physics*, **2017**, 7, 2711-2717	3.7	28
372	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
371	Dynamics of aluminum oxide and copper hybrid nanofluid in nonlinear mixed Marangoni convective flow with entropy generation: Applications to renewable energy. *Chinese Journal of Physics*, **2021**, 73, 275-287	3.5	28
370	Melting heat transfer and induced magnetic field effects on flow of water based nanofluid over a rotating disk with variable thickness. *Results in Physics*, **2018**, 9, 1618-1630	3.7	27
369	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, 105683	5.8	27
368	Theoretical Investigations of Entropy Optimization in Electro-Magneto Nonlinear Mixed Convective Second Order Slip Flow. *Journal of Magnetics*, **2020**, 25, 8-14	1.9	27
367	Numerical investigation of MHD flow with Soret and Dufour effect. *Results in Physics*, **2018**, 8, 1017-1022	3.7	26
366	On entropy generation effectiveness in flow of power law fluid with cubic autocatalytic chemical reaction. *Applied Nanoscience (Switzerland)*, **2019**, 9, 1205-1214	3.3	25
365	Cattaneo-Christov heat flux (CC model) in mixed convective stagnation point flow towards a Riga plate. *Computer Methods and Programs in Biomedicine*, **2020**, 196, 105564	6.9	25
364	Entropy generation optimization and activation energy in nonlinear mixed convection flow of a tangent hyperbolic nanofluid. *European Physical Journal Plus*, **2018**, 133, 1	3.1	25
363	Unsteady transient slip flow of Williamson nanofluid containing gyrotactic microorganism and activation energy. *AEJ - Alexandria Engineering Journal*, **2020**, 59, 4315-4328	6.1	25
362	Bioconvection assessment in Maxwell nanofluid configured by a Riga surface with nonlinear thermal radiation and activation energy. *Surfaces and Interfaces*, **2020**, 21, 100749	4.1	25
361	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
360	Transportation of heat through Cattaneo-Christov heat flux model in non-Newtonian fluid subject to internal resistance of particles. *Applied Mathematics and Mechanics (English Edition)*, **2020**, 41, 1157-1166	3.2	24
359	On framing potential features of SWCNTs and MWCNTs in mixed convective flow. *Results in Physics*, **2018**, 8, 357-364	3.7	24
358	Soret and Dufour effects in stretching flow of Jeffrey fluid subject to Newtonian heat and mass conditions. *Results in Physics*, **2017**, 7, 4183-4188	3.7	24
357	Heat transport and entropy optimization in flow of magneto-Williamson nanomaterial with Arrhenius activation energy. *Computer Methods and Programs in Biomedicine*, **2020**, 183, 105051	6.9	24

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