Waqar A Khan

List of Publications by Year
in descending order

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373	12,089	38660 50	46693 89
papers	citations	h-index	g-index

378	378	378	3660
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Boundary-layer flow of a nanofluid past a stretching sheet. International Journal of Heat and Mass Transfer, 2010, 53, 2477-2483.	2.5	1,719
2	Buoyancy effects on MHD stagnation point flow and heat transfer of a nanofluid past a convectively heated stretching/shrinking sheet. International Journal of Heat and Mass Transfer, 2013, 62, 526-533.	2.5	317
3	MHD boundary layer flow and heat transfer of nanofluids over a nonlinear stretching sheet: A numerical study. Journal of Magnetism and Magnetic Materials, 2015, 374, 569-576.	1.0	303
4	Fluid flow and heat transfer of carbon nanotubes along a flat plate with Navier slip boundary. Applied Nanoscience (Switzerland), 2014, 4, 633-641.	1.6	198
5	Free convection boundary layer flow past a horizontal flat plate embedded in porous medium filled by nanofluid containing gyrotactic microorganisms. International Journal of Thermal Sciences, 2012, 56, 48-57.	2.6	190
6	MHD nanofluid bioconvection due to gyrotactic microorganisms over a convectively heat stretching sheet. International Journal of Thermal Sciences, 2014, 81, 118-124.	2.6	181
7	MHD boundary layer flow of a nanofluid containing gyrotactic microorganisms past a vertical plate with Navier slip. International Journal of Heat and Mass Transfer, 2014, 74, 285-291.	2.5	178
8	MHD flow of a variable viscosity nanofluid over a radially stretching convective surface with radiative heat. Journal of Molecular Liquids, 2016, 219, 624-630.	2.3	176
9	Convection heat transfer from tube banks in crossflow: Analytical approach. International Journal of Heat and Mass Transfer, 2006, 49, 4831-4838.	2.5	163
10	Impact of nonlinear thermal radiation and gyrotactic microorganisms on the Magneto-Burgers nanofluid. International Journal of Mechanical Sciences, 2017, 130, 375-382.	3.6	162
11	Non-aligned MHD stagnation point flow of variable viscosity nanofluids past a stretching sheet with radiative heat. International Journal of Heat and Mass Transfer, 2016, 96, 525-534.	2.5	160
12	Natural convection flow of a nanofluid over a vertical plate with uniform surface heat flux. International Journal of Thermal Sciences, 2011, 50, 1207-1214.	2.6	152
13	Natural convective boundary layer flow of a nanofluid past a convectively heated vertical plate. International Journal of Thermal Sciences, 2012, 52, 83-90.	2.6	115
14	Natural bioconvection flow of a nanofluid containing gyrotactic microorganisms about a truncated cone. European Journal of Mechanics, B/Fluids, 2019, 75, 133-142.	1.2	115
15	MHD variable viscosity reacting flow over a convectively heated plate in a porous medium with thermophoresis and radiative heat transfer. International Journal of Heat and Mass Transfer, 2016, 93, 595-604.	2.5	114
16	A group theoretic approach to construct cryptographically strong substitution boxes. Neural Computing and Applications, 2013, 23, 97-104.	3.2	104
17	Thermophysical effects of carbon nanotubes on MHD flow over a stretching surface. Physica E: Low-Dimensional Systems and Nanostructures, 2014, 63, 215-222.	1.3	104
18	MHD stagnation point flow and heat transfer impinging on stretching sheet with chemical reaction and transpiration. Chemical Engineering Journal, 2015, 273, 430-437.	6.6	103

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19	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.	1.7	101
20	MHD Boundary Layer Slip Flow and Heat Transfer of Ferrofluid along a Stretching Cylinder with Prescribed Heat Flux. PLoS ONE, 2014, 9, e83930.	1.1	96
21	Cuâ€“Al2O3â€“H2O hybrid nanofluid flow with melting heat transfer, irreversibility analysis and nonlinear thermal radiation. Journal of Thermal Analysis and Calorimetry, 2021, 143, 973-984.	2.0	95
22	Optimization of pin-fin heat sinks using entropy generation minimization. IEEE Transactions on Components and Packaging Technologies, 2005, 28, 247-254.	1.4	94
23	Natural convection of water-based carbon nanotubes in a partially heated rectangular fin-shaped cavity with an inner cylindrical obstacle. Physics of Fluids, 2019, 31, .	1.6	92
24	Consequences of activation energy and binary chemical reaction for 3D flow of Cross-nanofluid with radiative heat transfer. Journal of the Brazilian Society of Mechanical Sciences and Engineering, 2019, 41, 1.	0.8	89
25	Double-diffusive natural convective boundary layer flow in a porous medium saturated with a nanofluid over a vertical plate: Prescribed surface heat, solute and nanoparticle fluxes. International Journal of Thermal Sciences, 2011, 50, 2154-2160.	2.6	87
26	Stagnation point flow of MHD chemically reacting nanofluid over a stretching convective surface with slip and radiative heat. Proceedings of the Institution of Mechanical Engineers, Part E: Journal of Process Mechanical Engineering, 2017, 231, 695-703.	1.4	87
27	Modern development on the features of magnetic field and heat sink/source in Maxwell nanofluid subject to convective heat transport. Physics Letters, Section A: General, Atomic and Solid State Physics, 2018, 382, 1992-2002.	0.9	84
28	Fluid Flow Around and Heat Transfer From Elliptical Cylinders: Analytical Approach. Journal of Thermophysics and Heat Transfer, 2005, 19, 178-185.	0.9	80
29	Heat and mass transfer in nanofluid thin film over an unsteady stretching sheet using Buongiornoâ€™s model. European Physical Journal Plus, 2016, 131, 1.	1.2	75
30	MHD Couette-Poiseuille flow of variable viscosity nanofluids in a rotating permeable channel with Hall effects. Journal of Molecular Liquids, 2016, 221, 778-787.	2.3	74
31	Hydromagnetic flow of ferrofluid in an enclosed partially heated trapezoidal cavity filled with a porous medium. Journal of Magnetism and Magnetic Materials, 2020, 499, 166241.	1.0	74
32	Fluid Flow Around and Heat Transfer From an Infinite Circular Cylinder. Journal of Heat Transfer, 2005, 127, 785.	1.2	73
33	Effects of Homogeneousâ€“Heterogeneous Reactions on the Viscoelastic Fluid Toward a Stretching Sheet. Journal of Heat Transfer, 2012, 134, .	1.2	72
34	MHD Free Convective Boundary Layer Flow of a Nanofluid past a Flat Vertical Plate with Newtonian Heating Boundary Condition. PLoS ONE, 2012, 7, e49499.	1.1	71
35	Laminar natural convection of non-Newtonian power-law fluids between concentric circular cylinders. International Communications in Heat and Mass Transfer, 2013, 43, 112-121.	2.9	71
36	A new modeling for 3D Carreau fluid flow considering nonlinear thermal radiation. Results in Physics, 2017, 7, 2692-2704.	2.0	71

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37	Bioconvection nanofluid slip flow past a wavy surface with applications in nano-biofuel cells. Chinese Journal of Physics, 2017, 55, 2048-2063.	2.0	67
38	Multiple slips effects on MHD SA-Al2O3 and SA-Cu non-Newtonian nanofluids flow over a stretching cylinder in porous medium with radiation and chemical reaction. Results in Physics, 2018, 8, 213-222.	2.0	65
39	A rheological analysis of nanofluid subjected to melting heat transport characteristics. Applied Nanoscience (Switzerland), 2020, 10, 3161-3170.	1.6	65
40	Irreversibility analysis of Cu-TiO2-H2O hybrid-nanofluid impinging on a 3-D stretching sheet in a porous medium with nonlinear radiation: Darcy-Forchhiemerâ€™s model. AEJ - Alexandria Engineering Journal, 2020, 59, 5247-5261.	3.4	65
41	Finite element analysis of hybrid nanofluid flow and heat transfer in a split lid-driven square cavity with Y-shaped obstacle. Physics of Fluids, 2020, 32, .	1.6	64
42	MHD flow over exponential radiating stretching sheet using homotopy analysis method. Journal of King Saud University, Engineering Sciences, 2017, 29, 68-74.	1.2	63
43	Flow and heat transfer of ferrofluids over a flat plate with uniform heat flux. European Physical Journal Plus, 2015, 130, 1.	1.2	62
44	MHD Flow of Nanofluid Flow Across Horizontal Circular Cylinder: Steady Forced Convection. Journal of Nanofluids, 2019, 8, 179-186.	1.4	62
45	Fluid Flow And Heat Transfer from a Cylinder Between Parallel Planes. Journal of Thermophysics and Heat Transfer, 2004, 18, 395-403.	0.9	60
46	Triple diffusive free convection along a horizontal plate in porous media saturated by a nanofluid with convective boundary condition. International Journal of Heat and Mass Transfer, 2013, 66, 603-612.	2.5	60
47	Free Convection of Non-Newtonian Nanofluids in Porous media with Gyrotactic Microorganisms. Transport in Porous Media, 2013, 97, 241-252.	1.2	58
48	Numerical study of unsteady hydromagnetic radiating fluid flow past a slippery stretching sheet embedded in a porous medium. Physics of Fluids, 2018, 30, .	1.6	58
49	Combined heat and mass transfer of thirdâ€grade nanofluids over a convectivelyâ€heated stretching permeable surface. Canadian Journal of Chemical Engineering, 2015, 93, 1880-1888.	0.9	57
50	Impact of autocatalysis chemical reaction on nonlinear radiative heat transfer of unsteady three-dimensional Eyringâ€“Powell magneto-nanofluid flow. Pramana - Journal of Physics, 2018, 91, 1.	0.9	56
51	Effects of volume fraction on water-based carbon nanotubes flow in a right-angle trapezoidal cavity: FEM based analysis. International Communications in Heat and Mass Transfer, 2020, 116, 104640.	2.9	56
52	BIOCONVECTIVE NON-NEWTONIAN NANOFLUID TRANSPORT IN POROUS MEDIA CONTAINING MICRO-ORGANISMS IN A MOVING FREE STREAM. Journal of Mechanics in Medicine and Biology, 2015, 15, 1550071.	0.3	55
53	An improved heat conduction and mass diffusion models for rotating flow of an Oldroyd-B fluid. Results in Physics, 2017, 7, 3583-3589.	2.0	55
54	Fluid Flow and Heat Transfer in Power-Law Fluids Across Circular Cylinders: Analytical Study. Journal of Heat Transfer, 2006, 128, 870-878.	1.2	54

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55	Optimization of Microchannel Heat Sinks Using Entropy Generation Minimization Method. IEEE Transactions on Components and Packaging Technologies, 2009, 32, 243-251.	1.4	54
56	Recent developments in modeling and simulation of entropy generation for dissipative cross material with quartic autocatalysis. Applied Physics A: Materials Science and Processing, 2019, 125, 1.	1.1	54
57	CNTS-Waterâ€“Based Nanofluid Over a Stretching Sheet. BioNanoScience, 2019, 9, 21-29.	1.5	54
58	Flow near the two-dimensional stagnation-point on an infinite permeable wall with a homogeneousâ€“heterogeneous reaction. Communications in Nonlinear Science and Numerical Simulation, 2010, 15, 3435-3443.	1.7	53
59	Influence of binary chemical reaction with Arrhenius activation energy in MHD nonlinear radiative flow of unsteady Carreau nanofluid: dual solutions. Applied Physics A: Materials Science and Processing, 2019, 125, 1.	1.1	52
60	The Role of Fin Geometry in Heat Sink Performance. Journal of Electronic Packaging, Transactions of the ASME, 2006, 128, 324-330.	1.2	51
61	Interaction between chemical species and generalized Fourierâ€™s law on 3D flow of Carreau fluid with variable thermal conductivity and heat sink/source: A numerical approach. Results in Physics, 2018, 10, 107-117.	2.0	50
62	Nanoparticles as Novel Emerging Therapeutic Antibacterial Agents in the Antibiotics Resistant Era. Biological Trace Element Research, 2021, 199, 2552-2564.	1.9	48
63	Free Convection Boundary Layer Flow from a Heated Upward Facing Horizontal Flat Plate Embedded in a Porous Medium Filled by a Nanofluid with Convective Boundary Condition. Transport in Porous Media, 2012, 92, 867-881.	1.2	47
64	Boundary Layer Flow Past a Wedge Moving in a Nanofluid. Mathematical Problems in Engineering, 2013, 2013, 1-7.	0.6	47
65	MHD Stagnation Point Ferrofluid Flow and Heat Transfer Toward a Stretching Sheet. IEEE Nanotechnology Magazine, 2014, 13, 35-40.	1.1	47
66	Theoretical aspects of thermophoresis and Brownian motion for three-dimensional flow of the cross fluid with activation energy. Pramana - Journal of Physics, 2019, 92, 1.	0.9	47
67	Mathematical modeling and analysis of Cross nanofluid flow subjected to entropy generation. Applied Nanoscience (Switzerland), 2020, 10, 3149-3160.	1.6	47
68	Impact of induced magnetic field on second-grade nanofluid flow past a convectively heated stretching sheet. Applied Nanoscience (Switzerland), 2020, 10, 3001-3009.	1.6	47
69	Double-diffusive natural convective boundary-layer flow of a nanofluid over a stretching sheet with magnetic field. International Journal of Numerical Methods for Heat and Fluid Flow, 2016, 26, 108-121.	1.6	45
70	Thermodynamic analysis of MHD Couetteâ€“Poiseuille flow of water-based nanofluids in a rotating channel with radiation and Hall effects. Journal of Thermal Analysis and Calorimetry, 2018, 132, 1899-1912.	2.0	45
71	Impact of non-uniform heat sink/source and convective condition in radiative heat transfer to Oldroyd-B nanofluid: A revised proposed relation. Physics Letters, Section A: General, Atomic and Solid State Physics, 2019, 383, 376-382.	0.9	45
72	Computational analysis of entropy generation for cross-nanofluid flow. Applied Nanoscience (Switzerland), 2020, 10, 3045-3055.	1.6	45

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73	A note on activation energy and magnetic dipole aspects for Cross nanofluid subjected to cylindrical surface. Applied Nanoscience (Switzerland), 2020, 10, 3235-3244.	1.6	44
74	Classical and minimum entropy generation analyses for steady state conduction with temperature dependent thermal conductivity and asymmetric thermal boundary conditions: Regular and functionally graded materials. Energy, 2011, 36, 6195-6207.	4.5	43
75	The Influence of Material Properties and Spreading Resistance in the Thermal Design of Plate Fin Heat Sinks. Journal of Electronic Packaging, Transactions of the ASME, 2007, 129, 76-81.	1.2	42
76	Numerical interpretation of autocatalysis chemical reaction for nonlinear radiative 3D flow of cross magnetofluid. Pramana - Journal of Physics, 2019, 92, 1.	0.9	41
77	Numerical Solution of Non-Newtonian Fluid Flow Due to Rotatory Rigid Disk. Symmetry, 2019, 11, 699.	1.1	40
78	Entropy optimization analysis on nonlinear thermal radiative electromagnetic Darcyâ€“Forchheimer flow of SWCNT/MWCNT nanomaterials. Applied Nanoscience (Switzerland), 2021, 11, 399-418.	1.6	39
79	Effect of melting and heat generation/absorption on Sisko nanofluid over a stretching surface with nonlinear radiation. Physica Scripta, 2019, 94, 065701.	1.2	38
80	Entropy generation analysis of triple diffusive flow past a horizontal plate in porous medium. Chemical Engineering Science, 2020, 228, 115980.	1.9	38
81	Non-Newtonian fluid flow around a Y-shaped fin embedded in a square cavity. Journal of Thermal Analysis and Calorimetry, 2021, 143, 573-585.	2.0	38
82	Entropy generation analysis of heat and mass transfer in mixed electrokinetically and pressure driven flow through a slit microchannel. Energy, 2013, 56, 207-217.	4.5	37
83	Thermal and solutal stratifications in flow of Oldroyd-B nanofluid with variable conductivity. Applied Physics A: Materials Science and Processing, 2018, 124, 1.	1.1	37
84	Modeling of Cylindrical Pin-Fin Heat Sinks for Electronic Packaging. IEEE Transactions on Components and Packaging Technologies, 2008, 31, 536-545.	1.4	36
85	Analytical study for unsteady nanofluid MHD Flow impinging on heated stretching sheet. Journal of Molecular Liquids, 2016, 219, 216-223.	2.3	36
86	Numerical Study of Unsteady MHD Flow and Entropy Generation in a Rotating Permeable Channel with Slip and Hall Effects. Communications in Theoretical Physics, 2018, 70, 641.	1.1	36
87	Significance of staticâ€“moving wedge for unsteady Falknerâ€“Skan forced convective flow of MHD cross fluid. Journal of the Brazilian Society of Mechanical Sciences and Engineering, 2018, 40, 1.	0.8	36
88	Thermodynamic Analysis of MHD Heat and Mass Transfer of Nanofluids Past a Static Wedge with Navier Slip and Convective Boundary Conditions. Arabian Journal for Science and Engineering, 2019, 44, 1255-1267.	1.7	36
89	High mobility ReSe₂ field effect transistors: Schottky-barrier-height-dependent photoresponsivity and broadband light detection with Co decoration. 2D Materials, 2020, 7, 015010.	2.0	36
90	Optimization of Microchannel Heat Sinks Using Genetic Algorithm. Heat Transfer Engineering, 2013, 34, 279-287.	1.2	35

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91	Thermodynamic analysis of gas turbine with air bottoming cycle. Energy, 2016, 107, 603-611.	4.5	35
92	Importance of heat generation in chemically reactive flow subjected to convectively heated surface. Indian Journal of Physics, 2021, 95, 89-97.	0.9	35
93	Analytical Modeling of Fluid Flow and Heat Transfer in Microchannel/Nanochannel Heat Sinks. Journal of Thermophysics and Heat Transfer, 2008, 22, 352-359.	0.9	34
94	Buongiorno Model for Nanofluid Blasius Flow with Surface Heat and Mass Fluxes. Journal of Thermophysics and Heat Transfer, 2013, 27, 134-141.	0.9	34
95	Mixed Convective Flow of Micropolar Nanofluid across a Horizontal Cylinder in Saturated Porous Medium. Applied Sciences (Switzerland), 2019, 9, 5241.	1.3	34
96	Heat transfer enhancement for Maxwell nanofluid flow subject to convective heat transport. Pramana - Journal of Physics, 2019, 92, 1.	0.9	33
97	Optimization of microchannel heat sinks using entropy generation minimization method. , 0, , .		32
98	Hydromagnetic blasius flow of powerâ€law nanofluids over a convectively heated vertical plate. Canadian Journal of Chemical Engineering, 2015, 93, 1830-1837.	0.9	32
99	Hydromagnetic flow of a variable viscosity nanofluid in a rotating permeable channel with hall effects. Journal of Engineering Thermophysics, 2017, 26, 553-566.	0.6	32
100	Impact of homogeneousâ€“heterogeneous reactions and non-Fourier heat flux theory in Oldroyd-B fluid with variable conductivity. Journal of the Brazilian Society of Mechanical Sciences and Engineering, 2019, 41, 1.	0.8	32
101	Hydrodynamic and Thermal Slip Effect on Double-Diffusive Free Convective Boundary Layer Flow of a Nanofluid Past a Flat Vertical Plate in the Moving Free Stream. PLoS ONE, 2013, 8, e54024.	1.1	31
102	On inherent irreversibility in Sakiadis flow of nanofluids. International Journal of Exergy, 2013, 13, 159.	0.2	31
103	Approximate analytic solutions for influence of heat transfer on MHD stagnation point flow in porous medium. Computers and Fluids, 2014, 100, 72-78.	1.3	31
104	Triple convective-diffusion boundary layer along a vertical flat plate in a porous medium saturated by a water-based nanofluid. International Journal of Thermal Sciences, 2015, 90, 53-61.	2.6	31
105	On model for three-dimensional Carreau fluid flow with Cattaneoâ€“Christov double diffusion and variable conductivity: a numerical approach. Journal of the Brazilian Society of Mechanical Sciences and Engineering, 2018, 40, 1.	0.8	31
106	Mixed Convection of Hybrid Nanofluid in an Inclined Enclosure with a Circular Center Heater under Inclined Magnetic Field. Coatings, 2021, 11, 506.	1.2	31
107	Analytical Model for Convection Heat Transfer from Tube Banks. Journal of Thermophysics and Heat Transfer, 2006, 20, 720-727.	0.9	30
108	Transient heat transfer in a functionally graded convecting longitudinal fin. Heat and Mass Transfer, 2012, 48, 1745-1753.	1.2	30

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109	Heat sink/source and chemical reaction in stagnation pointÂflow ofÂMaxwell nanofluid. Applied Physics A: Materials Science and Processing, 2020, 126, 1.	1.1	30
110	Irreversibilities in natural convection inside a right-angled trapezoidal cavity with sinusoidal wall temperature. Physics of Fluids, 2021, 33, .	1.6	30
111	Free Convection Boundary Layer Flow Past a Horizontal Flat Plate Embedded in a Porous Medium Filled With a Nanofluid. Journal of Heat Transfer, 2011, 133, .	1.2	29
112	Scaling Group Transformation for MHD Boundary Layer Slip Flow of a Nanofluid over a Convectively Heated Stretching Sheet with Heat Generation. Mathematical Problems in Engineering, 2012, 2012, 1-20.	0.6	28
113	Heat and Mass Transfer in Power-Law Nanofluids Over a Nonisothermal Stretching Wall With Convective Boundary Condition. Journal of Heat Transfer, 2012, 134, .	1.2	28
114	Simultaneous investigation of MHD and convective phenomena on time-dependent flow of Carreau nanofluid with variable properties: Dual solutions. Physics Letters, Section A: General, Atomic and Solid State Physics, 2018, 382, 2334-2342.	0.9	28
115	Small Wind Turbine Blade Design and Optimization. Symmetry, 2020, 12, 18.	1.1	28
116	Von KÃ¡rmÃ¡n swirling analysis for modeling Oldroyd-B nanofluid considering cubic autocatalysis. Physica Scripta, 2020, 95, 015206.	1.2	28
117	Entropy Generation Due to MHD Stagnation Point Flow of a Nanofluid on a Stretching Surface in the Presence of Radiation. Journal of Nanofluids, 2018, 7, 879-890.	1.4	28
118	g-Jitter Mixed Convective Slip Flow of Nanofluid past a Permeable Stretching Sheet Embedded in a Darcian Porous Media with Variable Viscosity. PLoS ONE, 2014, 9, e99384.	1.1	28
119	Effects of Combined Heat and Mass Transfer on Entropy Generation due to MHD Nanofluid Flow over a Rotating Frame. Computers, Materials and Continua, 2020, 66, 575-587.	1.5	28
120	Design Optimization of Pin Fin Geometry Using Particle Swarm Optimization Algorithm. PLoS ONE, 2013, 8, e66080.	1.1	27
121	Viscous dissipation effects on unsteady mixed convective stagnation point flow using Tiwari-Das nanofluid model. Results in Physics, 2017, 7, 280-287.	2.0	27
122	Arrhenius activation energy aspects in mixed convection Carreau nanofluid with nonlinear thermal radiation. Applied Nanoscience (Switzerland), 2020, 10, 4403-4413.	1.6	27
123	Thermal non-equilibrium natural convection in a trapezoidal porous cavity with heated cylindrical obstacles. International Communications in Heat and Mass Transfer, 2021, 126, 105460.	2.9	27
124	Water-based squeezing flow in the presence of carbon nanotubes between two parallel disks. Thermal Science, 2016, 20, 1973-1981.	0.5	27
125	Framing the features of Brownian motion and thermophoresis on radiative nanofluid flow past a rotating stretching sheet with magnetohydrodynamics. Results in Physics, 2016, 6, 1015-1023.	2.0	26
126	Importance of entropy generation and infinite shear rate viscosity for non-Newtonian nanofluid. Journal of the Brazilian Society of Mechanical Sciences and Engineering, 2019, 41, 1.	0.8	26

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127	Optimization of Pin-Fin Heat Sinks in Bypass Flow Using Entropy Generation Minimization Method. Journal of Electronic Packaging, Transactions of the ASME, 2008, 130, .	1.2	25
128	Heat Transfer Analysis of MHD Water Functionalized Carbon Nanotube Flow over a Static/Moving Wedge. Journal of Nanomaterials, 2015, 2015, 1-13.	1.5	25
129	C-matrix and invariants in chemical kinetics: A mathematical concept. Pramana - Journal of Physics, 2019, 92, 1.	0.9	25
130	Numerical analysis of unsteady Carreau nanofluid flow with variable conductivity. Applied Nanoscience (Switzerland), 2020, 10, 3075-3084.	1.6	25
131	Optimal Design of Tube Banks in Crossflow Using Entropy Generation Minimization Method. Journal of Thermophysics and Heat Transfer, 2007, 21, 372-378.	0.9	24
132	Entropy generation in an asymmetrically cooled slab with temperatureâ€dependent internal heat generation. Heat Transfer - Asian Research, 2012, 41, 260-271.	2.8	24
133	Triple diffusion along a horizontal plate in a porous medium with convective boundary condition. International Journal of Thermal Sciences, 2014, 86, 60-67.	2.6	24
134	Numerical Investigation of Mixed Convective Williamson Fluid Flow Over an Exponentially Stretching Permeable Curved Surface. Fluids, 2021, 6, 260.	0.8	24
135	Prediction of thermal conductivity of polyvinylpyrrolidone (PVP) electrospun nanocomposite fibers using artificial neural network and prey-predator algorithm. PLoS ONE, 2017, 12, e0183920.	1.1	24
136	MHD squeezed Darcyâ€“Forchheimer nanofluid flow between two hâ€“distance apart horizontal plates. Open Physics, 2020, 18, 1100-1107.	0.8	24
137	Application of Mean of Absolute Deviation Method for the Selection of Best Nonlinear Component Based on Video Encryption. Zeitschrift Fur Naturforschung - Section A Journal of Physical Sciences, 2013, 68, 479-482.	0.7	23
138	Optimal Homotopy Asymptotic Method for Flow and Heat Transfer of a Viscoelastic Fluid in an Axisymmetric Channel with a Porous Wall. PLoS ONE, 2013, 8, e83581.	1.1	23
139	Approximate analytical modeling of heat and mass transfer in hydromagnetic flow over a non-isothermal stretched surface with heat generation/absorption and transpiration. Journal of the Taiwan Institute of Chemical Engineers, 2015, 54, 11-19.	2.7	23
140	Multiple slips effects on MHD Casson fluid flow in porous media with radiation and chemical reaction. Canadian Journal of Physics, 2016, 94, 26-34.	0.4	23
141	Optimization of Microchannel Heat Sinks Using Prey-Predator Algorithm and Artificial Neural Networks. Machines, 2018, 6, 26.	1.2	23
142	Darcyâ€“Forchheimer stratified flow of viscoelastic nanofluid subjected to convective conditions. Applied Nanoscience (Switzerland), 2019, 9, 2031-2037.	1.6	23
143	Heat generation in mixed convected Williamson liquid stretching flow under generalized Fourier concept. Applied Nanoscience (Switzerland), 2020, 10, 4439-4444.	1.6	23
144	Multiple slip effects on nanofluid dissipative flow in a converging/diverging channel: A numerical study. Heat Transfer, 2022, 51, 1040-1061.	1.7	23

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145	Artificial Neural Networks for Prediction of Covid-19 in Saudi Arabia. Computers, Materials and Continua, 2021, 66, 2787-2796.	1.5	23
146	Numerical Study of Heat and Mass Transfer <scp>MHD</scp> Viscous Flow Over a Moving Wedge in the Presence of Viscous Dissipation and Heat Source/Sink with Convective Boundary Condition. Heat Transfer - Asian Research, 2014, 43, 17-38.	2.8	22
147	Homotopy analysis method for boundary layer flow and heat transfer over a permeable flat plate in a Darcian porous medium with radiation effects. Journal of the Taiwan Institute of Chemical Engineers, 2014, 45, 1217-1224.	2.7	22
148	Computational Study of Three-Dimensional Stagnation Point Nanofluid Bioconvection Flow on a Moving Surface With Anisotropic Slip and Thermal Jump Effect. Journal of Heat Transfer, 2016, 138, .	1.2	22
149	Characteristics of chemical processes and heat source/sink with wedge geometry. Case Studies in Thermal Engineering, 2019, 14, 100432.	2.8	22
150	Consequence of convective conditions for flow of Oldroyd-B nanofluid by a stretching cylinder. Journal of the Brazilian Society of Mechanical Sciences and Engineering, 2019, 41, 1.	0.8	22
151	Transportation of water-based trapped bolus of SWCNTs and MWCNTs with entropy optimization in a non-uniform channel. Neural Computing and Applications, 2020, 32, 13565-13576.	3.2	22
152	Free Convective Flow of Non-Newtonian Nanofluids in Porous Media with Gyrotactic Microorganism. Journal of Thermophysics and Heat Transfer, 2013, 27, 326-333.	0.9	21
153	Estimation of boundary-layer flow of a nanofluid past a stretching sheet: A revised model. Journal of Hydrodynamics, 2016, 28, 596-602.	1.3	21
154	Impact of forced convective radiative heat and mass transfer mechanisms on 3D Carreau nanofluid: A numerical study. European Physical Journal Plus, 2017, 132, 1.	1.2	21
155	Melting and second order slip effect on convective flow of nanofluid past a radiating stretching/shrinking sheet. Propulsion and Power Research, 2018, 7, 60-71.	2.0	21
156	The Stokesâ€™ second problem for nanofluids. Journal of King Saud University - Science, 2019, 31, 61-65.	1.6	21
157	Influence of carbon nanotubes on heat transfer in MHD nanofluid flow over a stretchable rotating disk: A numerical study. Heat Transfer, 2021, 50, 619-637.	1.7	21
158	Using Artificial Neural Network with Prey Predator Algorithm for Prediction of the COVID-19: The Case of Brazil and Mexico. Mathematics, 2021, 9, 180.	1.1	21
159	Effects of thermal radiation on Casson flow heat and mass transfer around a circular cylinder in porous medium. European Physical Journal Plus, 2015, 130, 1.	1.2	20
160	Forced convection of nanofluid flow across horizontal circular cylinder with convective boundary condition. Journal of Molecular Liquids, 2016, 222, 172-180.	2.3	20
161	Interpretation of Chemical Reactions and Activation Energy for Unsteady 3D Flow of Eyringâ€“Powell Magneto-Nanofluid. Arabian Journal for Science and Engineering, 2019, 44, 579-589.	1.7	20
162	Thermodynamic Analysis of Entropy Generation Minimization in Thermally Dissipating Flow Over a Thin Needle Moving in a Parallel Free Stream of Two Newtonian Fluids. Entropy, 2019, 21, 74.	1.1	20

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