Mahanthesh B

List of Publications by Citations

162 papers	3,870 citations	39 h-index	52 g-index
170 ext. papers	4,693 ext. citations	3 avg, IF	6.91 L-index

#	Paper	IF	Citations
162	Numerical solutions for magnetohydrodynamic flow of nanofluid over a bidirectional non-linear stretching surface with prescribed surface heat flux boundary. *Journal of Magnetism and Magnetic Materials*, **2016**, 417, 189-196	2.8	118
161	A meta-analysis on the effects of haphazard motion of tiny/nano-sized particles on the dynamics and other physical properties of some fluids. *Chinese Journal of Physics*, **2019**, 60, 676-687	3.5	107
160	Hall effects on dusty nanofluid two-phase transient flow past a stretching sheet using KVL model. *Journal of Molecular Liquids*, **2018**, 256, 139-147	6	90
159	Marangoni convective MHD flow of SWCNT and MWCNT nanoliquids due to a disk with solar radiation and irregular heat source. *Physica E: Low-Dimensional Systems and Nanostructures*, **2017**, 94, 25-30	3	90
158	Effect of Suspended Nanoparticles on Three-Dimensional MHD Flow, Heat and Mass Transfer of Radiating Eyring-Powell Fluid Over a Stretching Sheet. *Journal of Nanofluids*, **2015**, 4, 474-484	2.2	87
157	Heat transport of magnetized Newtonian nanoliquids in an annular space between porous vertical cylinders with discrete heat source. *International Communications in Heat and Mass Transfer*, **2020**, 117, 104737	5.8	85
156	Nonlinear radiative heat transfer in MHD three-dimensional flow of water based nanofluid over a non-linearly stretching sheet with convective boundary condition. *Journal of the Nigerian Mathematical Society*, **2016**, 35, 178-198	0	80
155	Melting heat transfer in boundary layer stagnation-point flow of nanofluid toward a stretching sheet with induced magnetic field **2016**, 19, 313-321		78
154	MHD flow of SWCNT and MWCNT nanoliquids past a rotating stretchable disk with thermal and exponential space dependent heat source. *Physica Scripta*, **2019**, 94, 085214	2.6	72
153	Significance of Darcy-Forchheimer Porous Medium in Nanofluid Through Carbon Nanotubes. *Communications in Theoretical Physics*, **2018**, 70, 361	2.4	66
152	Nonlinear radiated MHD flow of nanoliquids due to a rotating disk with irregular heat source and heat flux condition. *Physica B: Condensed Matter*, **2018**, 537, 98-104	2.8	65
151	Thermal radiation and Hall effects on boundary layer flow past a non-isothermal stretching surface embedded in porous medium with non-uniform heat source/sink and fluid-particle suspension. *Heat and Mass Transfer*, **2016**, 52, 897-911	2.2	64
150	Comparative analysis between 36 nm and 47 nm alumina–water nanofluid flows in the presence of Hall effect. *Journal of Thermal Analysis and Calorimetry*, **2019**, 135, 873-886	4.1	63
149	Numerical solution for hydromagnetic boundary layer flow and heat transfer past a stretching surface embedded in non-Darcy porous medium with fluid-particle suspension. *Journal of the Nigerian Mathematical Society*, **2015**, 34, 267-285	0	58
148	Heat and mass transfer effects on the mixed convective flow of chemically reacting nanofluid past a moving/stationary vertical plate. *AEJ - Alexandria Engineering Journal*, **2016**, 55, 569-581	6.1	58
147	Effects of chemical reaction and partial slip on the three-dimensional flow of a nanofluid impinging on an exponentially stretching surface. *European Physical Journal Plus*, **2017**, 132, 1	3.1	55
146	Entropy generation analysis of magneto-nanoliquids embedded with aluminium and titanium alloy nanoparticles in microchannel with partial slips and convective conditions. *International Journal of Numerical Methods for Heat and Fluid Flow*, **2019**, 29, 3638-3658	4.5	55

145	Nonlinear convection in nano Maxwell fluid with nonlinear thermal radiation: A three-dimensional study. *AEJ - Alexandria Engineering Journal*, **2018**, 57, 1927-1935	6.1	52
144	Significance of exponential space- and thermal-dependent heat source effects on nanofluid flow due to radially elongated disk with Coriolis and Lorentz forces. *Journal of Thermal Analysis and Calorimetry*, **2020**, 141, 37-44	4.1	52
143	Magnetohydrodynamic three-dimensional flow of nanofluids with slip and thermal radiation over a nonlinear stretching sheet: a numerical study. *Neural Computing and Applications*, **2018**, 30, 1557-1567	4.8	51
142	Significance of Lorentz Force and Thermoelectric on the Flow of 29 nm CuO Water Nanofluid on an Upper Horizontal Surface of a Paraboloid of Revolution. *Journal of Heat Transfer*, **2019**, 141,	1.8	51
141	Galerkin finite element analysis of magneto-hydrodynamic natural convection of Cu-water nanoliquid in a baffled U-shaped enclosure. *Propulsion and Power Research*, **2020**, 9, 383-393	3.6	49
140	Suspended Particle Effect on Nanofluid Boundary Layer Flow Past a Stretching Surface. *Journal of Nanofluids*, **2014**, 3, 267-277	2.2	49
139	Marangoni convection in Casson liquid flow due to an infinite disk with exponential space dependent heat source and cross-diffusion effects. *Results in Physics*, **2018**, 9, 78-85	3.7	48
138	Mixed convection squeezing three-dimensional flow in a rotating channel filled with nanofluid. *International Journal of Numerical Methods for Heat and Fluid Flow*, **2016**, 26, 1460-1485	4.5	48
137	Quadratic convective transport of dusty Casson and dusty Carreau fluids past a stretched surface with nonlinear thermal radiation, convective condition and non-uniform heat source/sink. *Physica A: Statistical Mechanics and Its Applications*, **2019**, 535, 122471	3.3	47
136	Marangoni convection radiative flow of dusty nanoliquid with exponential space dependent heat source. *Nuclear Engineering and Technology*, **2017**, 49, 1660-1668	2.6	46
135	Magnetohydrodynamic flow of nano Williamson fluid generated by stretching plate with multiple slips. *Multidiscipline Modeling in Materials and Structures*, **2019**, 15, 871-894	2.2	44
134	Nonlinear three-dimensional stretched flow of an Oldroyd-B fluid with convective condition, thermal radiation, and mixed convection. *Applied Mathematics and Mechanics (English Edition)*, **2017** , 38, 969-980	3.2	43
133	Effectiveness of Hall current and exponential heat source on unsteady heat transport of dusty TiO2-EO nanoliquid with nonlinear radiative heat. *Journal of Computational Design and Engineering*, **2019**, 6, 551-561	4.6	43
132	Optimization and sensitivity analysis of heat transport of hybrid nanoliquid in an annulus with quadratic Boussinesq approximation and quadratic thermal radiation. *European Physical Journal Plus*, **2020**, 135, 1	3.1	43
131	Unsteady three-dimensional MHD flow of a nano Eyring-Powell fluid past a convectively heated stretching sheet in the presence of thermal radiation, viscous dissipation and Joule heatingPeer review under responsibility of University of Bahrain.View all notes. *Journal of the Association of Arab Universities for Basic and Applied Sciences*, **2017**, 23, 75-84		43
130	Multiple slip effects on MHD non-Newtonian nanofluid flow over a nonlinear permeable elongated sheet. *Multidiscipline Modeling in Materials and Structures*, **2019**, 15, 913-931	2.2	43
129	Radiated flow of chemically reacting nanoliquid with an induced magnetic field across a permeable vertical plate. *Results in Physics*, **2017**, 7, 2375-2383	3.7	42
128	Heat transfer in the flow of blood-gold Carreau nanofluid induced by partial slip and buoyancy. *Heat Transfer - Asian Research*, **2018**, 47, 806-823	2.8	42

127	Thermal analysis of nanofluid flow containing gyrotactic microorganisms in bioconvection and second-order slip with convective condition. *Journal of Thermal Analysis and Calorimetry*, **2019**, 136, 1947-1957	4.1	41
126	Cattaneo-Christov heat flux on UCM nanofluid flow across a melting surface with double stratification and exponential space dependent internal heat source. *Informatics in Medicine Unlocked*, **2017**, 9, 26-34	5.3	40
125	Nonlinear 3D flow of Casson-Carreau fluids with homogeneous–heterogeneous reactions: A comparative study. *Results in Physics*, **2017**, 7, 2762-2770	3.7	40
124	Magneto-Thermo-Marangoni convective flow of Cu-H2O nanoliquid past an infinite disk with particle shape and exponential space based heat source effects. *Results in Physics*, **2017**, 7, 2990-2996	3.7	40
123	Significance of Joule heating and viscous heating on heat transport of MoS2–Ag hybrid nanofluid past an isothermal wedge. *Journal of Thermal Analysis and Calorimetry*, **2021**, 143, 1221-1229	4.1	39
122	Thermal Marangoni convection in two-phase flow of dusty Casson fluid. *Results in Physics*, **2018**, 8, 537-544	3.7	38
121	Magneto-thermal-convection stability in an inclined cylindrical annulus filled with a molten metal. *International Journal of Numerical Methods for Heat and Fluid Flow*, **2021**, 31, 1172-1189	4.5	37
120	Exploration of activation energy and binary chemical reaction effects on nano Casson fluid flow with thermal and exponential space-based heat source. *Multidiscipline Modeling in Materials and Structures*, **2019**, 15, 227-245	2.2	36
119	Scrutinization of thermal radiation, viscous dissipation and Joule heating effects on Marangoni convective two-phase flow of Casson fluid with fluid-particle suspension. *Results in Physics*, **2018**, 8, 869-878	3.7	34
118	Nonlinear Gravitational and Radiation Aspects in Nanoliquid with Exponential Space Dependent Heat Source and Variable Viscosity. *Microgravity Science and Technology*, **2018**, 30, 257-264	1.6	34
117	Effectiveness of exponential heat source, nanoparticle shape factor and Hall current on mixed convective flow of nanoliquids subject to rotating frame. *Multidiscipline Modeling in Materials and Structures*, **2019**, 15, 758-778	2.2	33
116	Mixed convection two-phase flow of Maxwell fluid under the influence of non-linear thermal radiation, non-uniform heat source/sink and fluid-particle suspension. *Ain Shams Engineering Journal*, **2018**, 9, 735-746	4.4	32
115	Nonlinear convective and radiated flow of tangent hyperbolic liquid due to stretched surface with convective condition. *Results in Physics*, **2017**, 7, 2404-2410	3.7	31
114	Heat transport and stagnation-point flow of magnetized nanoliquid with variable thermal conductivity, Brownian moment, and thermophoresis aspects. *Heat Transfer*, **2021**, 50, 754-767	3.1	31
113	Effects of diffusion-thermo and thermo-diffusion on two-phase boundary layer flow past a stretching sheet with fluid-particle suspension and chemical reaction: A numerical study. *Journal of the Nigerian Mathematical Society*, **2016**, 35, 66-81	0	30
112	Significance of quadratic thermal radiation and quadratic convection on boundary layer two-phase flow of a dusty nanoliquid past a vertical plate. *International Communications in Heat and Mass Transfer*, **2021**, 120, 105029	5.8	29
111	Brinkman-Forchheimer flow of SWCNT and MWCNT magneto-nanoliquids in a microchannel with multiple slips and Joule heating aspects. *Multidiscipline Modeling in Materials and Structures*, **2018**, 14, 769-786	2.2	27
110	Exact Solution of Non-Coaxial Rotating and Non-Linear Convective Flow of Cu–Al2O3–H2O Hybrid Nanofluids Over an Infinite Vertical Plate Subjected to Heat Source and Radiative Heat. *Journal of Nanofluids*, **2019**, 8, 781-794	2.2	27

109	MHD Nanofluid Flow Past a Rotating Disk with Thermal Radiation in the Presence of Aluminum and Titanium Alloy Nanoparticles. *Defect and Diffusion Forum*, **2018**, 384, 69-79	0.7	27
108	Entropy generation and heat transport analysis of Casson fluid flow with viscous and Joule heating in an inclined porous microchannel. *Proceedings of the Institution of Mechanical Engineers, Part E: Journal of Process Mechanical Engineering*, **2019**, 233, 1173-1184	1.5	26
107	Hall effect on two-phase radiated flow of magneto-dusty-nanoliquid with irregular heat generation/consumption. *Results in Physics*, **2017**, 7, 4340-4348	3.7	26
106	Mixed radiated magneto Casson fluid flow with Arrhenius activation energy and Newtonian heating effects: Flow and sensitivity analysis. *AEJ - Alexandria Engineering Journal*, **2020**, 59, 3991-4011	6.1	26
105	Hybrid Nanofluid Flow Over a Vertical Rotating Plate in the Presence of Hall Current, Nonlinear Convection and Heat Absorption. *Journal of Nanofluids*, **2018**, 7, 1138-1148	2.2	25
104	Heat transport of nano-micropolar fluid with an exponential heat source on a convectively heated elongated plate using numerical computation. *Multidiscipline Modeling in Materials and Structures*, **2020**, 16, 1295-1312	2.2	25
103	Flow of nanoliquid past a vertical plate with novel quadratic thermal radiation and quadratic Boussinesq approximation: Sensitivity analysis. *International Communications in Heat and Mass Transfer*, **2021**, 120, 105040	5.8	25
102	Thermal Enhancement of Radiating Magneto-Nanoliquid with Nanoparticles Aggregation and Joule Heating: A Three-Dimensional Flow. *Arabian Journal for Science and Engineering*, **2021**, 46, 5865-5873	2.5	24
101	Exact and statistical computations of radiated flow of nano and Casson fluids under heat and mass flux conditions. *Journal of Computational Design and Engineering*, **2019**, 6, 593-605	4.6	23
100	Radiative nonlinear 3D flow of ferrofluid with Joule heating, convective condition and Coriolis force. *Thermal Science and Engineering Progress*, **2017**, 3, 88-94	3.6	23
99	Rayleigh-B□ard convection in Casson and Hybrid Nanofluids: An Analytical Investigation. *Journal of Nanofluids*, **2019**, 8, 222-229	2.2	23
98	Dynamics of Magneto-Nano Third-Grade Fluid with Brownian Motion and Thermophoresis Effects in the Pressure Type Die. *Journal of Nanofluids*, **2019**, 8, 870-875	2.2	23
97	Performance of second law in Carreau fluid flow by an inclined microchannel with radiative heated convective condition. *International Communications in Heat and Mass Transfer*, **2020**, 117, 104761	5.8	23
96	Quadratic convective flow of radiated nano-Jeffrey liquid subject to multiple convective conditions and Cattaneo-Christov double diffusion. *Applied Mathematics and Mechanics (English Edition)*, **2018**, 39, 1311-1326	3.2	23
95	Further Discussion on the Significance of Quartic Autocatalysis on the Dynamics of Water Conveying 47 nm Alumina and 29 nm Cupric Nanoparticles. *Arabian Journal for Science and Engineering*, **2020**, 45, 5977-6004	2.5	22
94	Exploration of Non-Linear Thermal Radiation and Suspended Nanoparticles Effects on Mixed Convection Boundary Layer Flow of Nanoliquids on a Melting Vertical Surface. *Journal of Nanofluids* , **2018**, 7, 833-843	2.2	21
93	Sensitivity analysis of Marangoni convection in TiO2□G nanoliquid with nanoparticle aggregation and temperature-dependent surface tension. *Journal of Thermal Analysis and Calorimetry*, **2021**, 143, 2085-2098	4.1	21
92	Heat transfer enhancement due to nanoparticles, magnetic field, thermal and exponential space-dependent heat source aspects in nanoliquid flow past a stretchable spinning disk. *Journal of Thermal Analysis and Calorimetry*, **2021**, 145, 3339-3347	4.1	21

91	Heat transfer optimization of hybrid nanomaterial using modified Buongiorno model: A sensitivity analysis. *International Journal of Heat and Mass Transfer*, **2021**, 171, 121081	4.9	20
90	Sensitivity analysis of radiative heat transfer in Casson and nano fluids under diffusion-thermo and heat absorption effects. *European Physical Journal Plus*, **2019**, 134, 1	3.1	20
89	Heat transfer and entropy generation analysis of non-Newtonian flu flow through vertical microchannel with convective boundary condition. *Applied Mathematics and Mechanics (English Edition)*, **2019**, 40, 1285-1300	3.2	19
88	Flow and heat transport of nanomaterial with quadratic radiative heat flux and aggregation kinematics of nanoparticles. *International Communications in Heat and Mass Transfer*, **2021**, 127, 105521	5.8	19
87	Sensitivity analysis of nonlinear radiated heat transport of hybrid nanoliquid in an annulus subjected to the nonlinear Boussinesq approximation. *Journal of Thermal Analysis and Calorimetry*, **2021**, 143, 2729-2748	4.1	18
86	Inclined magnetic field and nanoparticle aggregation effects on thermal Marangoni convection in nanoliquid: A sensitivity analysis. *Chinese Journal of Physics*, **2021**, 69, 24-37	3.5	18
85	Brinkman-Forchheimer slip flow subject to exponential space and thermal-dependent heat source in a microchannel utilizing SWCNT and MWCNT nanoliquids. *Heat Transfer - Asian Research*, **2019**, 48, 1688-1708	2.8	17
84	Significance of variable fluid properties on hybrid nanoliquid flow in a micro-annulus with quadratic convection and quadratic thermal radiation: Response surface methodology. *International Communications in Heat and Mass Transfer*, **2021**, 124, 105264	5.8	17
83	Thermal and entropy generation of non-Newtonian magneto-Carreau fluid flow in microchannel. *Journal of Thermal Analysis and Calorimetry*, **2021**, 143, 2717-2727	4.1	17
82	On the Motion of Non-Newtonian Eyring-Powell Fluid Conveying Tiny Gold Particles Due to Generalized Surface Slip Velocity and Buoyancy. *International Journal of Applied and Computational Mathematics*, **2018**, 4, 1	1.3	17
81	Heat transfer of TiO2 EG nanoliquid with active and passive control of nanoparticles subject to nonlinear Boussinesq approximation. *International Communications in Heat and Mass Transfer*, **2021**, 126, 105443	5.8	17
80	Significance of Buoyancy, Velocity Index and Thickness of an Upper Horizontal Surface of a Paraboloid of Revolution: The Case of Non-Newtonian Carreau Fluid. *Defect and Diffusion Forum*, **2018**, 387, 550-561	0.7	16
79	Perturbation Solution for Radiating Viscoelastic Fluid Flow and Heat Transfer with Convective Boundary Condition in Nonuniform Channel with Hall Current and Chemical Reaction. *ISRN Thermodynamics*, **2013**, 2013, 1-14		15
78	Nonlinear Radiative Flow of Casson Nanoliquid Past a Cone and Wedge with Magnetic Dipole: Mathematical Model of Renewable Energy. *Journal of Nanofluids*, **2018**, 7, 1089-1100	2.2	15
77	A Note on the Significance of Quartic Autocatalysis Chemical Reaction on the Motion of Air Conveying Dust Particles. *Zeitschrift Fur Naturforschung - Section A Journal of Physical Sciences*, **2019**, 74, 879-904	1.4	15
76	Variable viscosity effects on third-grade liquid flow in post-treatment analysis of wire coating in the presence of nanoparticles. *International Journal of Numerical Methods for Heat and Fluid Flow*, **2018**, 28, 2423-2441	4.5	15
75	Statistical analysis of stagnation-point heat flow in Williamson fluid with viscous dissipation and exponential heat source effects. *Heat Transfer*, **2020**, 49, 4580-4591	3.1	14
74	Analysis of a magnetic field and Hall effects in nanoliquid flow under insertion of dust particles. *Heat Transfer*, **2020**, 49, 1632-1648	3.1	14

73	Nonlinear Boussinesq buoyancy driven flow and radiative heat transport of magnetohybrid nanoliquid in an annulus: A statistical framework. *Heat Transfer*, **2020**, 49, 4759-4782	3.1	14
72	Time-Dependent Nonlinear Convective Flow and Radiative Heat Transfer of Cu-Al2O3-H2O Hybrid Nanoliquid with Polar Particles Suspension: a Statistical and Exact Analysis. *BioNanoScience*, **2019**, 9, 937-951	3.4	13
71	Partial slip and Joule heating on magnetohydrodynamic radiated flow of nanoliquid with dissipation and convective condition. *Results in Physics*, **2017**, 7, 2728-2735	3.7	13
70	Significance of Induced Magnetic Field and Exponential Space Dependent Heat Source on Quadratic Convective Flow of Casson Fluid in a Micro-channel via HPM. *Mathematical Modelling of Engineering Problems*, **2019**, 6, 369-384	3.5	13
69	Magnetohydrodynamic Flow of Williamson Nanofluid Due to an Exponentially Stretching Surface in the Presence of Thermal Radiation and Chemical Reaction. *Journal of Nanofluids*, **2017**, 6, 264-272	2.2	12
68	Two-Phase Flow of Dusty Casson Fluid with Cattaneo-Christov Heat Flux and Heat Source Past a Cone, Wedge and Plate. *Defect and Diffusion Forum*, **2018**, 387, 625-639	0.7	12
67	Effects of Hall Current on Transient Flow of Dusty Fluid with Nonlinear Radiation Past a Convectively Heated Stretching Plate. *Defect and Diffusion Forum*, **2018**, 387, 352-363	0.7	11
66	Cross diffusion effects on magnetohydrodynamic slip flow of Carreau liquid over a slendering sheet with non-uniform heat source/sink. *Journal of the Brazilian Society of Mechanical Sciences and Engineering*, **2018**, 40, 1	2	10
65	Statistical and Exact Analysis of MHD Flow Due to Hybrid Nanoparticles Suspended in C2H6O2-H2O Hybrid Base Fluid **2020**, 185-228		10
64	Hall Effect on Two-Phase Laminar Boundary Layer flow of Dusty Liquid due to Stretching of an Elastic Flat Sheet. *Mapana Journal of Sciences*, **2017**, 16, 13-26	1.5	10
63	Quadratic radiation and quadratic Boussinesq approximation on hybrid nanoliquid flow **2021**, 13-54		10
62	A study of quadratic thermal radiation and quadratic convection on viscoelastic material flow with two different heat source modulations. *International Communications in Heat and Mass Transfer*, **2021**, 126, 105364	5.8	10
61	Dual Solutions for Unsteady Stagnation-Point Flow of Prandtl Nanofluid Past a Stretching/shrinking Plate. *Defect and Diffusion Forum*, **2018**, 388, 124-134	0.7	10
60	Nanofluid flow past a vertical plate with nanoparticle aggregation kinematics, thermal slip and significant buoyancy force effects using modified Buongiorno model. *Waves in Random and Complex Media*,1-25	1.9	10
59	Magnetohydrodynamic flow of Carreau liquid over a stretchable sheet with a variable thickness. *Multidiscipline Modeling in Materials and Structures*, **2020**, 16, 1277-1293	2.2	9
58	Effect of Viscous Dissipation and Joule Heating on Three-Dimensional Mixed Convection Flow of Nano Fluid Over a Non-Linear Stretching Sheet in Presence of Solar Radiation. *Journal of Nanofluids* , **2017**, 6, 735-742	2.2	8
57	Multilayer flow and heat transport of nanoliquids with nonlinear Boussinesq approximation and viscous heating using differential transform method. *Heat Transfer*, **2021**, 50, 4309-4327	3.1	8
56	Heat transfer optimization and sensitivity analysis of Marangoni convection in nanoliquid with nanoparticle interfacial layer and cross-diffusion effects. *International Communications in Heat and Mass Transfer*, **2021**, 126, 105361	5.8	8

55	Dynamics of Sutterby fluid flow due to a spinning stretching disk with non-Fourier/Fick heat and mass flux models. *Applied Mathematics and Mechanics (English Edition)*, **2021**, 42, 1247-1258	3.2	8
54	Significance of exponential space-based heat source and inclined magnetic field on heat transfer of hybrid nanoliquid with homogeneous–heterogeneous chemical reactions. *Heat Transfer*, **2021**, 50, 4086-4102	3.1	8
53	Optimization of heat transfer in the thermal Marangoni convective flow of a hybrid nanomaterial with sensitivity analysis. *Applied Mathematics and Mechanics (English Edition)*, **2021**, 42, 1663-1674	3.2	7
52	Response surface optimization of heat transfer rate in Falkner-Skan flow of ZnO–EG nanoliquid over a moving wedge: Sensitivity analysis. *International Communications in Heat and Mass Transfer*, **2021**, 125, 105348	5.8	7
51	Magnetohydrodynamic squeezing two-phase flow of particulate suspension in a rotating channel with transpiration cooling. *Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science*, **2019**, 233, 1224-1235	1.3	7
50	Nonlinear radiation and cross-diffusion effects on the micropolar nanoliquid flow past a stretching sheet with an exponential heat source. *Heat Transfer*, **2021**, 50, 3530-3546	3.1	7
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48	Nanoparticle aggregation kinematics on the quadratic convective magnetohydrodynamic flow of nanomaterial past an inclined flat plate with sensitivity analysis. *Proceedings of the Institution of Mechanical Engineers, Part E: Journal of Process Mechanical Engineering*,095440892110562	1.5	7
47	Nonlinear thermo-solutal convective flow of Casson fluid over an oscillating plate due to non-coaxial rotation with quadratic density fluctuation. *Multidiscipline Modeling in Materials and Structures*, **2019**, 15, 818-842	2.2	6
46	Chemical Reaction Effects on Nano Carreau Liquid Flow Past a Cone and a Wedge with Cattaneo-Christov Heat Flux Model. *International Journal of Chemical Reactor Engineering*, **2018**, 16,	1.2	6
45	Influence of nonlinear thermal radiation and Magnetic field on upper-convected Maxwell fluid flow due to a convectively heated stretching sheet in the presence of dust particles. *Communications in Numerical Analysis*, **2016**, 2016, 57-73	0	6
44	Theoretical and analytical analysis of convective heat transport of radiated micropolar fluid over a vertical plate under nonlinear Boussinesq approximation. *Multidiscipline Modeling in Materials and Structures*, **2020**, 16, 915-936	2.2	6
43	Significance of nonlinear Boussinesq approximation and non-uniform heat source/sink on nanoliquid flow with convective heat condition: sensitivity analysis. *European Physical Journal Plus*, **2021**, 136, 1	3.1	6
42	Heat transport of hybrid nanomaterial in an annulus with quadratic Boussinesq approximation. *Applied Mathematics and Mechanics (English Edition)*, **2021**, 42, 885	3.2	6
41	Entropy generation analysis of tangent hyperbolic fluid in quadratic Boussinesq approximation using spectral quasi-linearization method. *Applied Mathematics and Mechanics (English Edition)*, **2021**, 42, 1525-1542	3.2	6
40	Heat transfer enhancement using temperature-dependent effective properties of alumina-water nanoliquid with thermo-solutal Marangoni convection: A sensitivity analysis. *Applied Nanoscience (Switzerland)*,1	3.3	6
39	Numerical Investigation on Boundary Layer Flow of a Nanofluid Towards an Inclined Plate with Convective Boundary: Boungiorno Nanofluid Model. *Journal of Nanofluids*, **2016**, 5, 911-919	2.2	5
38	Rayleigh-Benard Convection in a Dusty Newtonian Nanofluid With and Without Coriolis Force. *Journal of Nanofluids*, **2018**, 7, 1240-1246	2.2	5

37	Mathematical Modelling of Coronavirus disease (COVID-19) Outbreak in India using Logistic Growth and SIR Models		5
36	Sensitivity computation of nonlinear convective heat transfer in hybrid nanomaterial between two concentric cylinders with irregular heat sources. *International Communications in Heat and Mass Transfer*, **2021**, 129, 105677	5.8	5
35	Computational modeling of heat transfer in magneto-non-Newtonian material in a circular tube with viscous and Joule heating. *Heat Transfer*, **2021**, 50, 6703	3.1	5
34	Boundary layer flow of magneto-nanomicropolar liquid over an exponentially elongated porous plate with Joule heating and viscous heating: a numerical study. *Arabian Journal for Science and Engineering*,1	2.5	5
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32	Radiative heat transfer of nanomaterial on a convectively heated circular tube with activation energy and nanoparticle aggregation kinematic effects. *International Communications in Heat and Mass Transfer*, **2021**, 127, 105568	5.8	5
31	Time-dependent flow due to noncoaxial rotation of an infinite vertical surface subjected to an exponential space-dependent heat source: An exact analysis. *Heat Transfer - Asian Research*, **2019**, 48, 3162-3185	2.8	4
30	Exact Solutions for Unsteady Mixed Convection Flow of Nanoliquid with Exponential Heat Source: Bruggeman and Batchelor Nanofluid Model. *Journal of Nanofluids*, **2018**, 7, 1164-1171	2.2	4
29	Significance of thickness of paraboloid of revolution and buoyancy forces on the dynamics of Eryingﾠowell fluid subject to equal diffusivity kind of quartic autocatalysis. *Physica A: Statistical Mechanics and Its Applications*, **2020**, 549, 124047	3.3	4
28	A study on nanoliquid flow with irregular heat source and realistic boundary conditions: A modified Buongiorno model for biomedical applications. *ZAMM Zeitschrift Fur Angewandte Mathematik Und Mechanik*,e202100167	1	3
27	Radiation effects on 3D rotating flow of Cu-water nanoliquid with viscous heating and prescribed heat flux using modified Buongiorno model. *Scientific Reports*, **2021**, 11, 20669	4.9	3
26	Exponential heat source effects on the stagnation-point heat transport of Williamson nanoliquid with nonlinear Boussinesq approximation. *Heat Transfer*, **2021**, 50, 6645	3.1	3
25	Solar radiative heat-driven Sakiadis flow of a dusty nanoliquid with Brownian motion and an exponential space-based heat source: KooKleinstreuerli (KKL) model. *Heat Transfer*, **2021**, 50, 1232-1251	3.1	3
24	Non-Linear Convection in Chemically Reacting Fluid with an Induced Magnetic Field across a Vertical Porous Plate in the Presence of Heat Source/Sink. *Defect and Diffusion Forum*, **2018**, 387, 428-441	0.7	3
23	Unsteady nonlinear convective flow of a nanofluid over a vertical plate due to impulsive motion: Optimization and sensitivity analysis. *International Communications in Heat and Mass Transfer*, **2022**, 134, 106036	5.8	3
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21	Unsteady squeezing flow of a magnetized nano-lubricant between parallel disks with Robin boundary conditions. *Proceedings of the Institution of Mechanical Engineers, Part N: Journal of Nanomaterials, Nanoengineering and Nanosystems*,239779142110365	1.4	2
20	Two-phase Sakiadis flow of a nanoliquid with nonlinear Boussinesq approximation and Brownian motion past a vertical plate: Koo-Kleinstreuer-Li model. *Heat Transfer*, **2021**, 50, 1853-1871	3.1	2

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