

Precious Sibanda

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211
papers

3,113
citations

29
h-index

45
g-index

228
ext. papers

3,650
ext. citations

2.3
avg, IF

5.98
L-index

#	Paper	IF	Citations
211	Homogeneous-heterogeneous reactions in a nanofluid flow due to a porous stretching sheet. <i>International Journal of Heat and Mass Transfer</i> , 2013 , 57, 465-472	4.9	193
210	Hydromagnetic nanofluid flow due to a stretching or shrinking sheet with viscous dissipation and chemical reaction effects. <i>International Journal of Heat and Mass Transfer</i> , 2012 , 55, 7587-7595	4.9	130
209	Unsteady Casson nanofluid flow over a stretching sheet with thermal radiation, convective and slip boundary conditions. <i>AEJ - Alexandria Engineering Journal</i> , 2016 , 55, 1025-1035	6.1	116
208	A new spectral-homotopy analysis method for the MHD Jeffery-Hamel problem. <i>Computers and Fluids</i> , 2010 , 39, 1219-1225	2.8	94
207	A new spectral-homotopy analysis method for solving a nonlinear second order BVP. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2010 , 15, 2293-2302	3.7	83
206	Activation energy and binary chemical reaction effects in mixed convective nanofluid flow with convective boundary conditions. <i>Journal of Computational Design and Engineering</i> , 2019 , 6, 149-158	4.6	78
205	Entropy generation in a second grade magnetohydrodynamic nanofluid flow over a convectively heated stretching sheet with nonlinear thermal radiation and viscous dissipation. <i>Results in Physics</i> , 2018 , 9, 1077-1085	3.7	66
204	Convection from an inverted cone in a porous medium with cross-diffusion effects. <i>Computers and Mathematics With Applications</i> , 2011 , 61, 1431-1441	2.7	64
203	On steady MHD flow and heat transfer past a rotating disk in a porous medium with ohmic heating and viscous dissipation. <i>International Journal of Numerical Methods for Heat and Fluid Flow</i> , 2010 , 20, 269-285	4.5	59
202	Laminar flow of a nanoliquid film over an unsteady stretching sheet. <i>International Journal of Heat and Mass Transfer</i> , 2012 , 55, 7552-7560	4.9	50
201	Homogeneous-heterogeneous reactions in micropolar fluid flow from a permeable stretching or shrinking sheet in a porous medium. <i>Boundary Value Problems</i> , 2013 , 2013, 77	2.1	48
200	Magnetohydrodynamic Mixed-Convective Flow and Heat and Mass Transfer Past a Vertical Plate in a Porous Medium With Constant Wall Suction. <i>Journal of Heat Transfer</i> , 2008 , 130,	1.8	44
199	A bivariate Chebyshev spectral collocation quasilinearization method for nonlinear evolution parabolic equations. <i>Scientific World Journal, The</i> , 2014 , 2014, 581987	2.2	43
198	Non-linear thermal convection in a Casson fluid flow over a horizontal plate with convective boundary condition. <i>AEJ - Alexandria Engineering Journal</i> , 2016 , 55, 1295-1304	6.1	40
197	On the linear stability analysis of a Maxwell fluid with double-diffusive convection. <i>Applied Mathematical Modelling</i> , 2010 , 34, 3509-3517	4.5	40
196	Magnetic drug targeting in a permeable microvessel. <i>Microvascular Research</i> , 2013 , 85, 77-85	3.7	37
195	The Effects of Thermal Radiation, Hall Currents, Soret, and Dufour on MHD Flow by Mixed Convection over a Vertical Surface in Porous Media. <i>Mathematical Problems in Engineering</i> , 2010 , 2010, 1-20	1.1	37

194	A numerical study of unsteady non-Newtonian Powell-Eyring nanofluid flow over a shrinking sheet with heat generation and thermal radiation. <i>AEJ - Alexandria Engineering Journal</i> , 2017 , 56, 81-91	6.1	35
193	A Novel Numerical Technique for Two-Dimensional Laminar Flow between Two Moving Porous Walls. <i>Mathematical Problems in Engineering</i> , 2010 , 2010, 1-15	1.1	35
192	On a new quasi-linearization method for systems of nonlinear boundary value problems. <i>Mathematical Methods in the Applied Sciences</i> , 2011 , 34, 1406-1413	2.3	33
191	Unsteady Hydromagnetic Natural Convection Flow of a Dusty Fluid Past an Impulsively Moving Vertical Plate With Ramped Temperature in the Presence of Thermal Radiation. <i>Journal of Applied Mechanics, Transactions ASME</i> , 2013 , 80,	2.7	32
190	Magnetohydrodynamics and Soret Effects on Bioconvection in a Porous Medium Saturated With a Nanofluid Containing Gyrotactic Microorganisms. <i>Journal of Heat Transfer</i> , 2014 , 136,	1.8	32
189	Thermophoretic and Nonlinear Convection in Non-Darcy Porous Medium. <i>Journal of Heat Transfer</i> , 2014 , 136,	1.8	32
188	Thermophoresis and Soret-Dufour on MHD mixed convection mass transfer over an inclined plate with non-uniform heat source/sink and chemical reaction. <i>Ain Shams Engineering Journal</i> , 2018 , 9, 2111-2121	4.4	31
187	A Note on the Solution of the Von Kármán Equations Using Series and Chebyshev Spectral Methods. <i>Boundary Value Problems</i> , 2010 , 2010, 471793	2.1	31
186	Entropy generation in MHD radiative viscous nanofluid flow over a porous wedge using the bivariate spectral quasi-linearization method. <i>Case Studies in Thermal Engineering</i> , 2018 , 12, 774-788	5.6	31
185	Effects of buoyancy ratio on unsteady double-diffusive natural convection in a cavity filled with porous medium with non-uniform boundary conditions. <i>International Journal of Heat and Mass Transfer</i> , 2015 , 85, 401-413	4.9	30
184	Dual solutions of Casson fluid flow over a stretching or shrinking sheet. <i>Sadhana - Academy Proceedings in Engineering Sciences</i> , 2014 , 39, 1573-1583	1	30
183	Effects of slip on nonlinear convection in nanofluid flow on stretching surfaces. <i>Boundary Value Problems</i> , 2016 , 2016,	2.1	29
182	A new numerical approach to MHD stagnation point flow and heat transfer towards a stretching sheet. <i>Ain Shams Engineering Journal</i> , 2018 , 9, 233-243	4.4	28
181	Effects of chemical reaction on boundary layer flow past a vertical stretching surface in the presence of internal heat generation. <i>International Journal of Numerical Methods for Heat and Fluid Flow</i> , 2011 , 21, 779-792	4.5	27
180	Effects of radiation on MHD free convection of a Casson fluid from a horizontal circular cylinder with partial slip in non-Darcy porous medium with viscous dissipation. <i>Boundary Value Problems</i> , 2015 , 2015,	2.1	26
179	The Effect of Thermophoresis on Unsteady Oldroyd-B Nanofluid Flow over Stretching Surface. <i>PLoS ONE</i> , 2015 , 10, e0135914	3.7	26
178	Analysis of virotherapy in solid tumor invasion. <i>Mathematical Biosciences</i> , 2015 , 263, 102-10	3.9	26
177	On a new analytical method for flow between two inclined walls. <i>Numerical Algorithms</i> , 2012 , 61, 499-514.	4.1	26

176	A spectral-homotopy analysis method for heat transfer flow of a third grade fluid between parallel plates. <i>International Journal of Numerical Methods for Heat and Fluid Flow</i> , 2012 , 22, 4-23	4.5	26
175	Modelling the spatiotemporal dynamics of chemovirotherapy cancer treatment. <i>Journal of Biological Dynamics</i> , 2017 , 11, 244-274	2.4	25
174	Thermodynamic effect in Darcy-Borchheimer nanofluid flow of a single-wall carbon nanotube/multi-wall carbon nanotube suspension due to a stretching/shrinking rotating disk: Buongiorno two-phase model. <i>Journal of Engineering Mathematics</i> , 2020 , 120, 43-65	1.2	25
173	On unsteady MHD mixed convection in a nanofluid due to a stretching/shrinking surface with suction/injection using the spectral relaxation method. <i>Boundary Value Problems</i> , 2015 , 2015,	2.1	23
172	Dispersion characteristics of blood during nanoparticle assisted drug delivery process through a permeable microvessel. <i>Microvascular Research</i> , 2014 , 92, 25-33	3.7	23
171	Magnetohydrodynamic Flow Past a Vertical Plate With Radiative Heat Transfer. <i>Journal of Heat Transfer</i> , 2007 , 129, 1708-1713	1.8	22
170	The hydrodynamic stability of channel flow with compliant boundaries. <i>Theoretical and Computational Fluid Dynamics</i> , 1996 , 8, 105-129	2.3	22
169	Dynamical analysis of hydromagnetic Brownian and thermophoresis effects of squeezing Eyring-Bowell nanofluid flow with variable thermal conductivity and chemical reaction. <i>Multidiscipline Modeling in Materials and Structures</i> , 2019 , 15, 1100-1120	2.2	22
168	A linearisation method for non-linear singular boundary value problems. <i>Computers and Mathematics With Applications</i> , 2012 , 63, 1197-1203	2.7	21
167	Dual solutions for three-dimensional magnetohydrodynamic nanofluid flow with entropy generation. <i>Journal of Computational Design and Engineering</i> , 2019 , 6, 657-665	4.6	20
166	MHD mixed convective nanofluid flow about a vertical slender cylinder using overlapping multi-domain spectral collocation approach. <i>Case Studies in Thermal Engineering</i> , 2020 , 18, 100598	5.6	20
165	A Modified Decomposition Solution of Triangular Moving Fin with Multiple Variable Thermal Properties. <i>Arabian Journal for Science and Engineering</i> , 2018 , 43, 1485-1497	2.5	20
164	Magnetic field and viscous dissipation effect on bioconvection in a permeable sphere embedded in a porous medium with a nanofluid containing gyrotactic micro-organisms. <i>Heat Transfer - Asian Research</i> , 2018 , 47, 718-734	2.8	19
163	Natural Convection of Viscoelastic Fluid from a Cone Embedded in a Porous Medium with Viscous Dissipation. <i>Mathematical Problems in Engineering</i> , 2013 , 2013, 1-11	1.1	19
162	Soret and Dufour effects on free convection along a vertical wavy surface in a fluid saturated Darcy porous medium. <i>International Journal of Heat and Mass Transfer</i> , 2010 , 53, 3030-3034	4.9	19
161	Double diffusive magneto-convection in viscoelastic fluids. <i>International Journal of Heat and Mass Transfer</i> , 2013 , 67, 194-201	4.9	17
160	Viscous and Joule Heating in the Stagnation Point Nanofluid Flow Through a Stretching Sheet With Homogeneous-Heterogeneous Reactions and Nonlinear Convection. <i>Journal of Nanotechnology in Engineering and Medicine</i> , 2013 , 4,		17
159	Numerical simulation of couple stress nanofluid flow in magneto-porous medium with thermal radiation and a chemical reaction. <i>Applied Mathematics and Computation</i> , 2018 , 339, 820-836	2.7	16

158	Nonlinear Radiation in Bioconvective Casson Nanofluid Flow. <i>International Journal of Applied and Computational Mathematics</i> , 2019 , 5, 1	1.3	16
157	Some modifications of the quasilinearization method with higher-order convergence for solving nonlinear BVPs. <i>Numerical Algorithms</i> , 2013 , 63, 399-417	2.1	16
156	Spectral quasi-linearization method for Casson fluid with homogeneous heterogeneous reaction in presence of nonlinear thermal radiation over an exponential stretching sheet. <i>Multidiscipline Modeling in Materials and Structures</i> , 2019 , 15, 398-417	2.2	16
155	A mathematical model for entropy generation in a Powell-Eyring nanofluid flow in a porous channel. <i>Heliyon</i> , 2019 , 5, e01662	3.6	15
154	Bioconvection in Casson nanofluid flow with Gyrotactic microorganisms and variable surface heat flux. <i>International Journal of Biomathematics</i> , 2019 , 12, 1950041	1.8	15
153	Exact solutions of unsteady MHD free convection in a heat absorbing fluid flow past a flat plate with ramped wall temperature. <i>Boundary Value Problems</i> , 2013 , 2013, 247	2.1	15
152	Dual solutions of stagnation-point flow of a nanofluid over a stretching surface. <i>Boundary Value Problems</i> , 2013 , 2013, 188	2.1	15
151	On Couple Stress Effects on Unsteady Nanofluid Flow over Stretching Surfaces with Vanishing Nanoparticle Flux at the Wall. <i>Journal of Applied Fluid Mechanics</i> , 2016 , 9, 1937-1944	1.5	15
150	Magnetohydrodynamic micropolar fluid flow in a porous medium with multiple slip conditions. <i>International Communications in Heat and Mass Transfer</i> , 2020 , 115, 104577	5.8	15
149	MHD mixed convective stagnation-point flow of Eyring-Powell nanofluid over stretching cylinder with thermal slip conditions. <i>Journal of Central South University</i> , 2019 , 26, 1172-1183	2.1	14
148	Unsteady double diffusive convection in an inclined rectangular lid-driven enclosure with different magnetic field angles and non-uniform boundary conditions. <i>International Journal of Heat and Mass Transfer</i> , 2015 , 90, 900-910	4.9	14
147	Thermodiffusion effects on magneto-nanofluid flow over a stretching sheet. <i>Boundary Value Problems</i> , 2013 , 2013, 136	2.1	14
146	Linear and nonlinear stability analysis of binary viscoelastic fluid convection. <i>Applied Mathematical Modelling</i> , 2013 , 37, 8162-8178	4.5	14
145	An unsteady MHD Maxwell nanofluid flow with convective boundary conditions using spectral local linearization method. <i>Open Physics</i> , 2017 , 15, 637-646	1.3	14
144	The Effects of Thermal Radiation on an Unsteady MHD Axisymmetric Stagnation-Point Flow over a Shrinking Sheet in Presence of Temperature Dependent Thermal Conductivity with Navier Slip. <i>PLoS ONE</i> , 2015 , 10, e0138355	3.7	14
143	BIOCONVECTION IN A NON-DARCY POROUS MEDIUM SATURATED WITH A NANOFUID AND OXYTACTIC MICRO-ORGANISMS. <i>International Journal of Biomathematics</i> , 2014 , 07, 1450005	1.8	14
142	An improved spectral homotopy analysis method for MHD flow in a semi-porous channel. <i>Numerical Algorithms</i> , 2012 , 60, 463-481	2.1	14
141	An improved spectral homotopy analysis method for solving boundary layer problems. <i>Boundary Value Problems</i> , 2011 , 2011, 3	2.1	14

140	Unsteady Natural Convective Boundary-layer Flow of MHD Nanofluid over a Stretching Surfaces with Chemical Reaction Using the Spectral Relaxation Method: A Revised Model. <i>Procedia Engineering</i> , 2015 , 127, 18-24		13
139	Diffusion of Chemically Reactive Species in Casson Fluid Flow over an Unsteady Stretching Surface in Porous Medium in the Presence of a Magnetic Field. <i>Mathematical Problems in Engineering</i> , 2015 , 2015, 1-10	1.1	13
138	On the solution of MHD flow over a nonlinear stretching sheet by an efficient semi-analytical technique. <i>International Journal for Numerical Methods in Fluids</i> , 2012 , 68, 1524-1537	1.9	13
137	A spectral relaxation method for thermal dispersion and radiation effects in a nanofluid flow. <i>Boundary Value Problems</i> , 2013 , 2013, 242	2.1	13
136	A multivariate spectral quasilinearisation method for entropy generation in a square cavity filled with porous medium saturated by nanofluid. <i>Case Studies in Thermal Engineering</i> , 2019 , 14, 100415	5.6	11
135	Linear and nonlinear stability analysis of binary Maxwell fluid convection in a porous medium. <i>Heat and Mass Transfer</i> , 2012 , 48, 863-874	2.2	11
134	Nanofluid Flow over a Permeable Surface with Convective Boundary Conditions and Radiative Heat Transfer. <i>Mathematical Problems in Engineering</i> , 2013 , 2013, 1-11	1.1	11
133	MHD Three-Dimensional Nanofluid Flow on a Vertical Stretching Surface with Heat Generation/Absorption and Thermal Radiation. <i>Journal of Nanofluids</i> , 2017 , 6, 189-195	2.2	11
132	ENTROPY GENERATION IN MHD FLOW OF VISCOELASTIC NANOFUIDS WITH HOMOGENEOUS-HETEROGENEOUS REACTION, PARTIAL SLIP AND NONLINEAR THERMAL RADIATION. <i>Journal of Thermal Engineering</i> , 327-345	1.1	11
131	Activation energy and entropy generation in viscous nanofluid with higher order chemically reacting species. <i>International Journal of Ambient Energy</i> , 2020 , 1-13	2	11
130	A model for entropy generation in stagnation-point flow of non-Newtonian Jeffrey, Maxwell, and Oldroyd-B nanofluids. <i>Heat Transfer - Asian Research</i> , 2019 , 48, 24-41	2.8	11
129	A new algorithm for internal heat generation in nanofluid flow due to a stretching sheet in a porous medium. <i>International Journal of Numerical Methods for Heat and Fluid Flow</i> , 2014 , 24, 1020-1043 ^{4,5}		10
128	Heat Transfer on Nanofluid Flow With Homogeneous Heterogeneous Reactions and Internal Heat Generation. <i>Journal of Heat Transfer</i> , 2014 , 136,	1.8	10
127	On double-diffusive convection and cross diffusion effects on a horizontal wavy surface in a porous medium. <i>Boundary Value Problems</i> , 2012 , 2012, 88	2.1	10
126	A Multi-Domain Bivariate Approach for Mixed Convection in a Casson Nanofluid with Heat Generation. <i>Walailak Journal of Science and Technology</i> , 2019 , 16, 681-699	1.5	10
125	On radiative-magnetoconvective heat and mass transfer of a nanofluid past a non-linear stretching surface with Ohmic heating and convective surface boundary condition. <i>Propulsion and Power Research</i> , 2016 , 5, 326-337	3.6	10
124	Bivariate Spectral Local Linearisation Method (BSLLM) for Unsteady MHD Micropolar-Nanofluids with Homogeneous Heterogeneous Chemical Reactions Over a Stretching Surface. <i>International Journal of Applied and Computational Mathematics</i> , 2019 , 5, 1	1.3	10
123	Natural convection from a vertical plate immersed in a power-law fluid saturated non-Darcy porous medium with viscous dissipation and Soret effects. <i>Afrika Matematika</i> , 2015 , 26, 1495-1518	0.7	9

122	Analysis of double-diffusion convection on three-dimensional MHD stagnation point flow of a tangent hyperbolic Casson nanofluid. <i>International Journal of Ambient Energy</i> , 2020 , 1-12	2	9
121	On Unsteady Three-Dimensional Axisymmetric MHD Nanofluid Flow with Entropy Generation and Thermo-Diffusion Effects on a Non-Linear Stretching Sheet. <i>Entropy</i> , 2017 , 19, 168	2.8	9
120	A multistage linearisation approach to a four-dimensional hyperchaotic system with cubic nonlinearity. <i>Nonlinear Dynamics</i> , 2012 , 70, 651-657	5	9
119	Soret Effect on the Natural Convection From a Vertical Plate in a Thermally Stratified Porous Medium Saturated With Non-Newtonian Liquid. <i>Journal of Heat Transfer</i> , 2013 , 135,	1.8	9
118	Unsteady Hydromagnetic Heat and Mass Transfer Flow of a Heat Radiating and Chemically Reactive Fluid Past a Flat Porous Plate with Ramped Wall Temperature. <i>Mathematical Problems in Engineering</i> , 2013 , 2013, 1-12	1.1	9
117	Homotopy analysis of heat and mass transfer boundary layer flow through a non-porous channel with chemical reaction and heat generation. <i>Canadian Journal of Chemical Engineering</i> , 2010 , 88, 975-982 ^{2.3}		9
116	On a bivariate spectral relaxation method for unsteady magneto-hydrodynamic flow in porous media. <i>SpringerPlus</i> , 2016 , 5, 455		9
115	Thermophysical analysis of three-dimensional magnetohydrodynamic flow of a tangent hyperbolic nanofluid. <i>Engineering Reports</i> , 2020 , 2, e12144	1.2	8
114	Free magnetohydrodynamic flow and convection from a vertical spinning cone with cross-diffusion effects. <i>Applied Mathematical Modelling</i> , 2013 , 37, 2662-2678	4.5	8
113	Cattaneo-Christov Nanofluid Flow and Heat Transfer with Variable Properties Over a Vertical Cone in a Porous Medium. <i>International Journal of Applied and Computational Mathematics</i> , 2017 , 3, 1019-1034 ^{1.3}		8
112	A Spectral Relaxation Approach for Unsteady Boundary-Layer Flow and Heat Transfer of a Nanofluid over a Permeable Stretching/Shrinking Sheet. <i>Advances in Mathematical Physics</i> , 2014 , 2014, 1-10	1.1	8
111	On New Numerical Techniques for the MHD Flow Past a Shrinking Sheet with Heat and Mass Transfer in the Presence of a Chemical Reaction. <i>Mathematical Problems in Engineering</i> , 2011 , 2011, 1-19 ^{1.1}		8
110	Bulawayo water supplies: Sustainable alternatives for the next decade. <i>Physics and Chemistry of the Earth</i> , 2005 , 30, 935-942	3	8
109	UNSTEADY MHD THREE-DIMENSIONAL CASSON NANOFLUID FLOW OVER A POROUS LINEAR STRETCHING SHEET WITH SLIP CONDITION. <i>Frontiers in Heat and Mass Transfer</i> , 8 ,		8
108	Heat and Mass Transfer in an Unsteady Second Grade Nanofluid with Viscous Heating Dissipation. <i>International Journal of Computational Methods</i> , 2020 , 17, 1940005	1.1	8
107	Impact of metal oxide nanoparticles on unsteady stagnation point flow of the hybrid base fluid along a flat surface 2021 , 95, 1		8
106	Effect of Chemical Reaction and Heat Absorption on MHD Nanoliquid Flow Past a Stretching Sheet in the Presence of a Transverse Magnetic Field. <i>Magnetochemistry</i> , 2018 , 4, 18	3.1	8
105	Magnetohydrodynamic Mixed Convective Flow Due to a Vertical Plate With Induced Magnetic Field. <i>Journal of Thermal Science and Engineering Applications</i> , 2018 , 10,	1.9	7

104	Heat and mass transfer from an isothermal wedge in nanofluids with Soret effect. <i>European Physical Journal Plus</i> , 2014 , 129, 1	3.1	7
103	A Multi-Domain Bivariate Pseudospectral Method for Evolution Equations. <i>International Journal of Computational Methods</i> , 2017 , 14, 1750041	1.1	7
102	On radiation effects on hydromagnetic Newtonian liquid flow due to an exponential stretching sheet. <i>Boundary Value Problems</i> , 2012 , 2012, 105	2.1	7
101	An efficient numerical method for solving Falkner-Berkan boundary layer flows. <i>International Journal for Numerical Methods in Fluids</i> , 2012 , 69, 499-508	1.9	7
100	A Note on the Solutions of the Van der Pol and Duffing Equations Using a Linearisation Method. <i>Mathematical Problems in Engineering</i> , 2012 , 2012, 1-10	1.1	7
99	Spectral Quasi-Linearization Methods for Powell-Eyring MHD Flow Over a Nonlinear Stretching Surface. <i>Journal of Nanofluids</i> , 2018 , 7, 917-927	2.2	7
98	Lie group analysis of a Powell-Eyring nanofluid flow over a stretching surface with variable properties. <i>SN Applied Sciences</i> , 2020 , 2, 1	1.8	7
97	A NUMERICAL STUDY OF ENTROPY GENERATION ON OLDROYD-B NANOFUID FLOW PAST A RIGID PLATE. <i>Journal of Thermal Engineering</i> , 845-866	1.1	7
96	Dual solutions of a micropolar nanofluid flow with radiative heat mass transfer over stretching/shrinking sheet using spectral quasilinearization method. <i>Multidiscipline Modeling in Materials and Structures</i> , 2019 , 16, 238-255	2.2	7
95	Rotational nanofluids for oxytactic microorganisms with convective boundary conditions using bivariate spectral quasi-linearization method. <i>Journal of Central South University</i> , 2020 , 27, 824-841	2.1	7
94	Impact of irreversibility ratio and entropy generation on three-dimensional Oldroyd-B fluid flow with relaxation-retardation viscous dissipation. <i>Indian Journal of Physics</i> , 1	1.4	7
93	Heat and mass transfer of nanofluid through an impulsively vertical stretching surface using the spectral relaxation method. <i>Boundary Value Problems</i> , 2015 , 2015,	2.1	6
92	Entropy generation in an unsteady Eyring-Powell hybrid nanofluid flow over a permeable surface: A Lie group analysis. <i>Heat Transfer</i> , 2020 , 49, 3374-3390	3.1	6
91	Viscous Dissipation and Thermal Radiation Effects on Mixed Convection from a Vertical Plate in a Non-Darcy Porous Medium. <i>Transport in Porous Media</i> , 2013 , 96, 419-428	3.1	6
90	Thermal instability in a non-Darcy porous medium saturated with a nanofluid and with a convective boundary condition. <i>Boundary Value Problems</i> , 2013 , 2013,	2.1	6
89	An Unsteady Magnetohydrodynamic Jeffery Nanofluid Flow Over a Shrinking Sheet with Thermal Radiation and Convective Boundary Condition Using Spectral Quasilinearisation Method. <i>Journal of Computational and Theoretical Nanoscience</i> , 2016 , 13, 7483-7492	0.3	6
88	Spatio-Temporal Variation and Futuristic Emission Scenario of Ambient Nitrogen Dioxide over an Urban Area of Eastern India Using GIS and Coupled AERMOD-WRF Model. <i>PLoS ONE</i> , 2017 , 12, e0170928 ^{3.7}		6
87	A NUMERICAL STUDY OF NANOFUID FLOW OVER A POROUS VERTICAL PLATE WITH INTERNAL HEAT GENERATION AND NONLINEAR THERMAL RADIATION. <i>Journal of Porous Media</i> , 2020 , 23, 517-529 ^{2.9}		6

86	NANOFLUID FLOW OVER A NONLINEAR STRETCHING SHEET IN POROUS MEDIA WITH MHD AND VISCOUS DISSIPATION EFFECTS. <i>Journal of Porous Media</i> , 2014 , 17, 391-403	2.9	6
85	Numerical Analysis of Couple Stress Nanofluid in Temperature Dependent Viscosity and Thermal Conductivity. <i>International Journal of Applied and Computational Mathematics</i> , 2021 , 7, 1	1.3	6
84	MHD mixed convective radiative flow of Eyring-Powell fluid over an oscillatory stretching sheet using bivariate spectral method on overlapping grids. <i>Heat Transfer</i> , 2021 , 50, 655-687	3.1	6
83	An Unsteady Double-Diffusive Natural Convection in an Inclined Rectangular Enclosure with Different Angles of Magnetic Field. <i>International Journal of Computational Methods</i> , 2016 , 13, 1641015	1.1	5
82	Effect of immunotherapy on the response of TICLs to solid tumour invasion. <i>Mathematical Biosciences</i> , 2014 , 249, 52-9	3.9	5
81	Numerical study on rectangular-convex-triangular profiles with all variable thermal properties. <i>International Journal of Mechanical Sciences</i> , 2017 , 133, 251-259	5.5	5
80	A Note on Double Dispersion Effects in a Nanofluid Flow in a Non-Darcy Porous Medium. <i>Journal of Heat Transfer</i> , 2015 , 137,	1.8	5
79	The Spectral Homotopy Analysis Method Extended to Systems of Partial Differential Equations. <i>Abstract and Applied Analysis</i> , 2014 , 2014, 1-11	0.7	5
78	Thermal dispersion effects on convective heat and mass transfer in an Ostwald de Waele nanofluid flow in porous media. <i>Boundary Value Problems</i> , 2013 , 2013,	2.1	5
77	On Convective Dusty Flow Past a Vertical Stretching Sheet with Internal Heat Absorption. <i>Journal of Applied Mathematics</i> , 2013 , 2013, 1-9	1.1	5
76	On Extending the Quasilinearization Method to Higher Order Convergent Hybrid Schemes Using the Spectral Homotopy Analysis Method. <i>Journal of Applied Mathematics</i> , 2013 , 2013, 1-9	1.1	5
75	A model of steady viscous flow of a micropolar fluid driven by injection or suction between a porous disk and a non-porous disk using a novel numerical technique. <i>Canadian Journal of Chemical Engineering</i> , 2010 , 88, 991-1002	2.3	5
74	Soret and Dufour effects on thermohaline convection in rotating fluids. <i>Geophysical and Astrophysical Fluid Dynamics</i> , 2016 , 110, 317-347	1.4	5
73	Numerical study on combined thermal radiation and magnetic field effects on entropy generation in unsteady fluid flow past an inclined cylinder. <i>Journal of Computational Design and Engineering</i> , 2021 , 8, 149-169	4.6	5
72	Onset of unsteady MHD micropolar nanofluid flow with entropy generation. <i>International Journal of Ambient Energy</i> , 1-14	2	5
71	Flow and heat transfer over a thin needle immersed in a porous medium filled with an Al ₂ O ₃ -water nanofluids using Buongiorno's two-phase model. <i>International Journal of Ambient Energy</i> , 2020 , 1-9	2	4
70	On the bivariate spectral quasilinearization method for nonlinear boundary layer partial differential equations 2020 , 177-190		4
69	Overlapping Multi-Domain Spectral Method for Conjugate Problems of Conduction and MHD Free Convection Flow of Nanofluids over Flat Plates. <i>Mathematical and Computational Applications</i> , 2019 , 24, 75	1	4

68	Nanofluid flow over three different geometries under viscous dissipation and thermal radiation using the local linearization method. <i>Heat Transfer - Asian Research</i> , 2019 , 48, 2370-2386	2.8	4
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