

Precious Sibanda

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

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	Numerical Studies on Gold-Water Nanofluid Flow with Activation Energy Past A Rotating Disk. <i>International Journal of Applied and Computational Mathematics</i> , 2022 , 8, 1	1.3	1
210	A numerical study of heat and mass transfer in a Darcy porous medium saturated with a couple stress fluid under rotational modulation. <i>Applied Mathematical Modelling</i> , 2022 , 104, 455-473	4.5	0
209	Effect on Entropy Generation Analysis for Heat Transfer Nanofluid Near a Rotating Disk Using Quasilinearization Method. <i>Journal of Nanofluids</i> , 2022 , 11, 318-327	2.2	
208	Entropy Generation in Double Diffusive Convective Magnetic Nanofluid Flow in Rotating Sphere with Viscous Dissipation. <i>Journal of Nanofluids</i> , 2022 , 11, 360-372	2.2	1
207	Three-Dimensional Rotating Flow of an Oldroyd-B Nanofluid with Relaxation-Retardation Viscous Dissipation. <i>Journal of Nanofluids</i> , 2021 , 10, 408-419	2.2	1
206	Overlapping Multi-domain Bivariate Spectral Method for Systems of Nonlinear PDEs with Fluid Mechanics Applications. <i>Lecture Notes in Mechanical Engineering</i> , 2021 , 685-699	0.4	1
205	Hall effect on MHD transient free convection flow of chemically reactive Casson fluid with heat source/sink past an infinite vertical cylinder. <i>Physica Scripta</i> , 2021 , 96, 015207	2.6	4
204	Entropy generation in Casson nanofluid flow over a surface with nonlinear thermal radiation and binary chemical reaction. <i>Heat Transfer</i> , 2021 , 50, 4855-4870	3.1	2
203	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
202	The Overlapping Grid Spectral Collocation Method for Solving Entropy Generation in Casson Nanofluid Flow Past a Stretching Plate. <i>Journal of Nanofluids</i> , 2021 , 10, 45-57	2.2	0
201	MHD Mixed Convection Flow of Couple Stress Fluid Over an Oscillatory Stretching Sheet with Thermophoresis and Thermal Diffusion Using the Overlapping Multi-domain Spectral Relaxation Approach. <i>International Journal of Applied and Computational Mathematics</i> , 2021 , 7, 1	1.3	3
200	On trigonometric cosine, square, sawtooth, and triangular wave-type rotational modulations on triple-diffusive convection in salted water. <i>Heat Transfer</i> , 2021 , 50, 6886	3.1	2
199	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
198	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
197	Overlapping Multi-Domain Spectral Method for MHD Mixed Convection Slip Flow Over an Exponentially Decreasing Mainstream with Nonuniform Heat Source/Sink and Convective Boundary Conditions. <i>International Journal of Computational Methods</i> , 2021 , 18, 2150004	1.1	2
196	Numerical analysis of free convection from a spinning cone with variable wall temperature and pressure work effect using MD-BSQLM. <i>Open Physics</i> , 2021 , 19, 179-187	1.3	
195	A GEOMETRICALLY CONVERGENT PSEUDO-SPECTRAL METHOD FOR MULTIDIMENSIONAL TWO-SIDED SPACE FRACTIONAL PARTIAL DIFFERENTIAL EQUATIONS. <i>Journal of Applied Analysis and Computation</i> , 2021 , 11, 1699-1717	0.4	

194	OVERLAPPING MULTI-DOMAIN SPECTRAL METHOD FOR NON-DARCIAN MIXED CONVECTION CHEMICALLY REACTING FLOW OF MICROPOLAR FLUID OVER A FLAT PLATE IN A POROUS MEDIA. <i>Journal of Applied Analysis and Computation</i> , 2021 , 11, 113-137	0.4	
193	Impact of metal oxide nanoparticles on unsteady stagnation point flow of the hybrid base fluid along a flat surface 2021 , 95, 1		8
192	On a new block method for an MHD nanofluid flow with an exponentially decaying internal heat generation. <i>International Journal for Numerical Methods in Fluids</i> , 2021 , 93, 1816-1824	1.9	1
191	Numerical and machine learning analyses of entropy generation in an unsteady squeezing flow of copper/aluminum oxide/water hybrid nanofluid. <i>Heat Transfer</i> , 2021 , 50, 3822-3841	3.1	
190	A comparison of bivariate pseudospectral methods for nonlinear systems of steady nonsimilar boundary layer partial differential equations. <i>Computational and Mathematical Methods</i> , 2020 , 2, e1125	0.9	2
189	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
188	Thermophysical analysis of three-dimensional magnetohydrodynamic flow of a tangent hyperbolic nanofluid. <i>Engineering Reports</i> , 2020 , 2, e12144	1.2	8
187	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
186	On the bivariate spectral quasilinearization method for nonlinear boundary layer partial differential equations 2020 , 177-190		4
185	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
184	Analysis of exponentially varying viscosity and thermal conductivity on a tangent hyperbolic fluid. <i>SeMA Journal</i> , 2020 , 77, 257-273	1.2	3
183	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
182	Numerical solution of time-dependent Emden-Fowler equations using bivariate spectral collocation method on overlapping grids. <i>Nonlinear Engineering</i> , 2020 , 9, 299-318	3	3
181	A NUMERICAL STUDY OF NANOFLUID 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
180	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
179	Spectral Quasi-Linearization Method for Entropy Generation Using the Cattaneo-Christov Heat Flux Model. <i>International Journal of Computational Methods</i> , 2020 , 17, 1940002	1.1	4
178	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
177	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

176	A Chebyshev pseudo-spectral method for the multi-dimensional fractional Rayleigh problem for a generalized Maxwell fluid with Robin boundary conditions. <i>Applied Numerical Mathematics</i> , 2020 , 152, 253-266	2.5	3
175	Homogeneous heterogeneous reactions in flow past a horizontal circular cylinder with an induced magnetic field and nonlinear thermal radiation. <i>Heat Transfer</i> , 2020 , 49, 1065-1092	3.1	1
174	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
173	Entropy generation in magneto nanofluid flow with Joule heating and thermal radiation. <i>World Journal of Engineering</i> , 2020 , 17, 1-11	1.8	3
172	A numerical study of entropy generation in radiative Casson nanofluid flow. <i>Engineering Reports</i> , 2020 , 2, e12257	1.2	
171	MHD bioconvective radiative flow of chemically reactive Casson nanofluid from a vertical surface with variable transport properties. <i>International Journal of Ambient Energy</i> , 2020 , 1-19	2	4
170	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
169	Multidomain bivariate pseudo-spectral quasilinearization method for systems of nonlinear partial differential equations. <i>Computational and Mathematical Methods</i> , 2020 , 2, e1096	0.9	2
168	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
167	Modeling control of foot and mouth disease with two time delays. <i>International Journal of Biomathematics</i> , 2019 , 12, 1930001	1.8	2
166	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
165	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
164	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
163	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
162	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
161	Efficient Multi-Domain Bivariate Spectral Collocation Solution for MHD Laminar Natural Convection Flow from a Vertical Permeable Flat Plate with Uniform Surface Temperature and Thermal Radiation. <i>International Journal of Computational Methods</i> , 2019 , 16, 1840029	1.1	3
160	Nonlinear Radiation in Bioconvective Casson Nanofluid Flow. <i>International Journal of Applied and Computational Mathematics</i> , 2019 , 5, 1	1.3	16
159	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

158	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
157	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
156	Dynamical analysis of hydromagnetic Brownian and thermophoresis effects of squeezing Eyring-Powell nanofluid flow with variable thermal conductivity and chemical reaction. <i>Multidiscipline Modeling in Materials and Structures</i> , 2019 , 15, 1100-1120	2.2	22
155	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
154	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
153	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
152	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
151	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
150	Hydromagnetic Nanofluids Flow through a Porous Medium with Thermal Radiation, Chemical Reaction and Viscous Dissipation using the Spectral Relaxation Method. <i>International Journal of Computational Methods</i> , 2019 , 16, 1840020	1.1	2
149	Unsteady double-diffusive natural convection in a two-sided lid-driven inclined porous enclosure with sinusoidal boundary conditions with Soret and Dufour effects. <i>Physics and Chemistry of Liquids</i> , 2019 , 57, 349-361	1.5	1
148	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
147	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
146	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
145	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
144	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
143	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
142	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
141	MHD Flow and Heat Transfer of Maxwell Nanofluid Over an Unsteady Permeable Shrinking Sheet with Convective Boundary Conditions. <i>Journal of Nanofluids</i> , 2018 , 7, 995-1003	2.2	2

140	Influences of boundary layer phenomena and meteorology on ambient air quality status of an urban area in eastern India. <i>Atmosfera</i> , 2018 , 31, 69-86	2.5	2
139	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
138	A multi-domain spectral method for non-Darcian mixed convection flow in a power-law fluid with viscous dissipation. <i>Physics and Chemistry of Liquids</i> , 2018 , 56, 771-789	1.5	4
137	Thermo-convective instability in a rotating ferromagnetic fluid layer with temperature modulation. <i>Open Physics</i> , 2018 , 16, 868-888	1.3	4
136	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
135	Weakly Nonlinear Stability Analysis of a Nanofluid in a Horizontal Porous Layer Using a Multidomain Spectral Collocation Method 2018 ,		1
134	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
133	Modelling the spatiotemporal dynamics of chemovirotherapy cancer treatment. <i>Journal of Biological Dynamics</i> , 2017 , 11, 244-274	2.4	25
132	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
131	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
130	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
129	A Multi-Domain Bivariate Pseudospectral Method for Evolution Equations. <i>International Journal of Computational Methods</i> , 2017 , 14, 1750041	1.1	7
128	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
127	Unsteady mixed convection flow through a permeable stretching flat surface with partial slip effects through MHD nanofluid using spectral relaxation method. <i>Open Physics</i> , 2017 , 15, 323-334	1.3	4
126	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
125	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
124	Unsteady Mixed Convection in Nanofluid Flow Through a Porous Medium with Thermal Radiation Using the Bivariate Spectral Quasilinearization Method. <i>Journal of Nanofluids</i> , 2017 , 6, 273-281	2.2	4
123	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

122	Effects of slip on nonlinear convection in nanofluid flow on stretching surfaces. <i>Boundary Value Problems</i> , 2016 , 2016,	2.1	29
121	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
120	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
119	Numerical solution to natural convection over an inclined wavy surface embedded in a porous medium saturated with a nanofluid. <i>Meccanica</i> , 2016 , 51, 1723-1737	2.1	3
118	Thermo-Diffusion Effects on Unsteady Mixed Convection in a Magneto-Nanofluid Flow Along an Inclined Cylinder with a Heat Source, Ohmic and Viscous Dissipation. <i>Journal of Computational and Theoretical Nanoscience</i> , 2016 , 13, 1670-1684	0.3	4
117	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
116	Dual Solutions for Homogeneous-Heterogeneous Reactions on Stagnation Point Flow Over a Stretching/Shrinking Sheet in a Non-Darcy Porous Medium Saturated with a Nanofluid. <i>Journal of Nanofluids</i> , 2016 , 5, 408-415	2.2	4
115	Dissipative Effects in Hydromagnetic Boundary Layer Nanofluid Flow past a Stretching Sheet with Newtonian Heating. <i>Journal of Applied Fluid Mechanics</i> , 2016 , 9, 1977-1989	1.5	4
114	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
113	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
112	Soret and Dufour effects on thermohaline convection in rotating fluids. <i>Geophysical and Astrophysical Fluid Dynamics</i> , 2016 , 110, 317-347	1.4	5
111	On a bivariate spectral relaxation method for unsteady magneto-hydrodynamic flow in porous media. <i>SpringerPlus</i> , 2016 , 5, 455		9
110	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
109	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
108	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
107	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
106	Viscoelastic Nanofluid Flow and Radiative Nonlinear Heat Transfer Over a Stretching Sheet. <i>Journal of Computational and Theoretical Nanoscience</i> , 2015 , 12, 2385-2394	0.3	2
105	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

104	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
103	The Effect of Thermophoresis on Unsteady Oldroyd-B Nanofluid Flow over Stretching Surface. <i>PLoS ONE</i> , 2015 , 10, e0135914	3.7	26
102	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
101	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
100	Analysis of virotherapy in solid tumor invasion. <i>Mathematical Biosciences</i> , 2015 , 263, 102-10	3.9	26
99	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
98	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
97	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
96	Effect of immunotherapy on the response of TICLs to solid tumour invasion. <i>Mathematical Biosciences</i> , 2014 , 249, 52-9	3.9	5
95	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
94	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
93	On one-dimensional arbitrary high-order WENO schemes for systems of hyperbolic conservation laws. <i>Computational and Applied Mathematics</i> , 2014 , 33, 363-384		3
92	A bivariate Chebyshev spectral collocation quasilinearization method for nonlinear evolution parabolic equations. <i>Scientific World Journal, The</i> , 2014 , 2014, 581987	2.2	43
91	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
90	Numerical investigation of the flow of a micropolar fluid through a porous channel with expanding or contracting walls. <i>Propulsion and Power Research</i> , 2014 , 3, 133-142	3.6	4
89	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
88	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
87	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

86	Response of Immunotherapy to Tumour-TICLs Interactions: A Travelling Wave Analysis. <i>Abstract and Applied Analysis</i> , 2014 , 2014, 1-10	0.7	4
85	Heat Transfer on Nanofluid Flow With Homogeneous Heterogeneous Reactions and Internal Heat Generation. <i>Journal of Heat Transfer</i> , 2014 , 136,	1.8	10
84	Chapter 3: Spectral Homotopy Analysis Method for Nonlinear Boundary Value Problems 2014 , 85-122		
83	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
82	Thermophoretic and Nonlinear Convection in Non-Darcy Porous Medium. <i>Journal of Heat Transfer</i> , 2014 , 136,	1.8	32
81	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
80	Modelling micropolar ferromagnetic fluid flow due to stretching of an elastic sheet. <i>Afrika Matematika</i> , 2014 , 25, 667-679	0.7	3
79	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
78	EFFECT OF TEMPERATURE-DEPENDENT VISCOSITY ON MHD MIXED CONVECTIVE FLOW FROM AN EXPONENTIALLY STRETCHING SURFACE IN POROUS MEDIA WITH CROSS-DIFFUSION. <i>Special Topics and Reviews in Porous Media</i> , 2014 , 5, 157-170	2.5	4
77	Thermodiffusion effects on magneto-nanofluid flow over a stretching sheet. <i>Boundary Value Problems</i> , 2013 , 2013, 136	2.1	14
76	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
75	Linear and nonlinear stability analysis of binary viscoelastic fluid convection. <i>Applied Mathematical Modelling</i> , 2013 , 37, 8162-8178	4.5	14
74	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
73	Double diffusive magneto-convection in viscoelastic fluids. <i>International Journal of Heat and Mass Transfer</i> , 2013 , 67, 194-201	4.9	17
72	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
71	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
70	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
69	ON A LINEARIZATION METHOD FOR MHD FLOW PAST A ROTATING DISK IN POROUS MEDIUM WITH CROSS-DIFFUSION AND HALL EFFECTS. <i>Journal of Porous Media</i> , 2013 , 16, 1011-1024	2.9	4

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