

Sabyasachi Mondal

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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.

56 papers	659 citations	14 h-index	23 g-index
64 ext. papers	831 ext. citations	2 avg, IF	4.76 L-index

#	Paper	IF	Citations
56	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
55	Effects of buoyancy ratio on double-diffusive natural convection in a lid-driven cavity. <i>International Journal of Heat and Mass Transfer</i> , 2013 , 57, 771-785	4.9	44
54	Mixed convection flow in an inclined enclosure under magnetic field with thermal radiation and heat generation. <i>International Communications in Heat and Mass Transfer</i> , 2013 , 41, 47-56	5.8	43
53	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
52	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
51	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
50	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
49	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
48	A theoretical nanofluid analysis exhibiting hydromagnetics characteristics employing CVFEM. <i>Journal of the Brazilian Society of Mechanical Sciences and Engineering</i> , 2020 , 42, 1	2	18
47	Heat Transfer due to Magnetohydrodynamic Stagnation-Point Flow of a Power-Law Fluid towards a Stretching Surface in the Presence of Thermal Radiation and Suction/Injection. <i>ISRN Thermodynamics</i> , 2012 , 2012, 1-9		17
46	Nonlinear Radiation in Bioconvective Casson Nanofluid Flow. <i>International Journal of Applied and Computational Mathematics</i> , 2019 , 5, 1	1.3	16
45	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
44	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
43	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
42	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
41	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
40	Influence of thermal radiation on non-Darcian natural convection in a square cavity filled with fluid saturated porous medium of uniform porosity. <i>Nonlinear Analysis: Modelling and Control</i> , 2012 , 17, 223-237	1.3	11

39	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
38	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
37	Impact of the Cattaneo-Christov thermal and solutal diffusion models on the stagnation point slip flow of Walters' B nanofluid past an electromagnetic sheet. <i>Heat Transfer - Asian Research</i> , 2019 , 48, 713-726	2.8	10
36	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
35	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
34	Thermophysical analysis of three-dimensional magnetohydrodynamic flow of a tangent hyperbolic nanofluid. <i>Engineering Reports</i> , 2020 , 2, e12144	1.2	8
33	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}	1.3	8
32	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
31	Unsteady double-diffusive convection in a water-based Al ₂ O ₃ -nanofluid in a two-sided lid-driven porous cavity. <i>Physics and Chemistry of Liquids</i> , 2019 , 57, 283-295	1.5	8
30	Spectral methods to solve nonlinear problems: A review. <i>Partial Differential Equations in Applied Mathematics</i> , 2021 , 4, 100043	0.8	8
29	A NUMERICAL STUDY OF ENTROPY GENERATION ON OLDROYD-B NANOFLUID FLOW PAST A RIGA PLATE. <i>Journal of Thermal Engineering</i> , 845-866	1.1	7
28	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
27	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
26	An Unsteady Magnetohydrodynamic Jeffrey 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
25	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
24	A brief review of numerical methods for heat and mass transfer of Casson fluids. <i>Partial Differential Equations in Applied Mathematics</i> , 2021 , 3, 100034	0.8	5
23	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
22	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

21	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
20	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
19	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
18	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
17	Meet Our Editorial Board Member. <i>Nanoscience and Nanotechnology - Asia</i> , 2020 , 10, 1-2	0.7	3
16	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
15	An unsteady double-diffusive natural convection in an inclined enclosures filled with porous medium with non-uniform boundary conditions in presence of thermal radiation. <i>International Journal of Mathematical Analysis</i> , 2016 , 10, 469-491	1.5	3
14	Entropy minimized MHD microrotations of Cross nanomaterials with cubic autocatalytic chemical reaction. <i>Heat Transfer</i> ,	3.1	3
13	Impact of Joule heating and nonlinear thermal radiation on the flow of Casson nanofluid with entropy generation. <i>International Journal of Ambient Energy</i> , 1-24	2	3
12	Bio-convective viscoelastic Casson nanofluid flow over a stretching sheet in the presence of induced magnetic field with Cattaneo-Christov double diffusion. <i>International Journal of Biomathematics</i> ,	1.8	3
11	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
10	A LARGE PARAMETER SPECTRAL PERTURBATION METHOD FOR NONLINEAR SYSTEMS OF PARTIAL DIFFERENTIAL EQUATIONS THAT MODELS BOUNDARY LAYER FLOW PROBLEMS. <i>Frontiers in Heat and Mass Transfer</i> , 9,		2
9	Rheological Analysis of CNT Suspended Nanofluid with Convective Boundary Condition Using Spectral Method. <i>Nanoscience and Nanotechnology - Asia</i> , 2021 , 11, 163-173	0.7	2
8	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
7	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
6	MHD Boundary Layer Liquid Metal Flow in the Presence of Thermal Radiation Using Non-similar Solution. <i>Lecture Notes in Mechanical Engineering</i> , 2019 , 331-337	0.4	1
5	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
4	Weakly Nonlinear Stability Analysis of a Nanofluid in a Horizontal Porous Layer Using a Multidomain Spectral Collocation Method 2018 ,		1

- 3 The Overlapping Grid Spectral Collocation Method for Solving Entropy Generation in Casson Nanofluid Flow Past a Stretching Plate. *Journal of Nanofluids*, **2021**, 10, 45-57 2.2 O
- 2 Darcy-Borchheimer electromagnetic flow of entropy optimized microrotating Casson-Carreau nanomaterials. *Heat Transfer*, **2022**, 51, 2401-2436 3.1 O
- 1 Satellite-Based Estimation of Ambient Particulate Matters (PM2.5) Over a Metropolitan City in Eastern India **2022**, 135-146