Sabyasachi Mondal

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.

56
papers

659
citations

h-index

23
g-index

64
ext. papers

24.76
ext. citations

avg, IF

L-index

#	Paper	IF	Citations
56	Darcy E orchheimer electromagnetic flow of entropy optimized microrotating Casson © arreau nanomaterials. <i>Heat Transfer</i> , 2022 , 51, 2401-2436	3.1	O
55	Satellite-Based Estimation of Ambient Particulate Matters (PM2.5) Over a Metropolitan City in Eastern India 2022 , 135-146		
54	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
53	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	O
52	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
51	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
50	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
49	Spectral methods to solve nonlinear problems: A review. <i>Partial Differential Equations in Applied Mathematics</i> , 2021 , 4, 100043	0.8	8
48	Flow and heat transfer over a thin needle immersed in a porous medium filled with an Al2O3-water nanofluids using Buongiorno two-phase model. <i>International Journal of Ambient Energy</i> , 2020 , 1-9	2	4
47	Thermophysical analysis of three-dimensional magnetohydrodynamic flow of a tangent hyperbolic nanofluid. <i>Engineering Reports</i> , 2020 , 2, e12144	1.2	8
46	Thermodynamic effect in Darchyflorchheimer 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
45	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
44	Meet Our Editorial Boad Member. <i>Nanoscience and Nanotechnology - Asia</i> , 2020 , 10, 1-2	0.7	3
43	A theoretical nanofluid analysis exhibiting hydromagnetics characteristics employing CVFEM. Journal of the Brazilian Society of Mechanical Sciences and Engineering, 2020, 42, 1	2	18
42	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
41	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
40	Nonlinear Radiation in Bioconvective Casson Nanofluid Flow. <i>International Journal of Applied and Computational Mathematics</i> , 2019 , 5, 1	1.3	16

39	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
38	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
37	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
36	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
35	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
34	Unsteady double-diffusive convection in a water-based Al2O3-nanofluid in a two-sided lid-driven porous cavity. <i>Physics and Chemistry of Liquids</i> , 2019 , 57, 283-295	1.5	8
33	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
32	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
31	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
30	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
29	Weakly Nonlinear Stability Analysis of a Nanofluid in a Horizontal Porous Layer Using a Multidomain Spectral Collocation Method 2018 ,		1
28	Cattaneo@hristov 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, 1019-103	4 ^{1.3}	8
27	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
26	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
25	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
24	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
23	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
22	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

21	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
20	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
19	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
18	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
17	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
16	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
15	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
14	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
13	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
12	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
11	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
10	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
9	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, 223-2	237	11
8	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
7	UNSTEADY MHD THREE-DIMENSIONAL CASSON NANOFLUID FLOW OVER A POROUS LINEAR STRETCHING SHEET WITH SLIP CONDITION. Frontiers in Heat and Mass Transfer,8,		8
6	A LARGE PARAMETER SPECTRAL PERTURBATION METHOD FOR NONLINEAR SYSTEMS OF PARTIAL DIFFERENTIAL EQUATIONS THAT MODELS BOUNDARY LAYER FLOW PROBLEMS. Frontiers in Heat and Mass Transfer,9,		2
5	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
4	Impact of irreversibility ratio and entropy generation on three-dimensional Oldroyd-B fluid flow with relaxationEetardation viscous dissipation. <i>Indian Journal of Physics</i> ,1	1.4	7

LIST OF PUBLICATIONS

3	Entropy minimized MHD microrotations of Cross nanomaterials with cubic autocatalytic chemical reaction. <i>Heat Transfer</i> ,	3.1	3
2	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
1	Bio-convective viscoelastic Casson nanofluid flow over a stretching sheet in the presence of induced magnetic field with Cattaneo@hristov double diffusion. <i>International Journal of Biomathematics</i> ,	1.8	3