M Bhuvaneswari

List of Publications by Year
in descending order

60	1,071	361296 20	434063 31
papers	citations	h-index	g-index

60	60	60	498
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Magnetoconvection in a Square Enclosure with Sinusoidal Temperature Distributions on Both Side Walls. Numerical Heat Transfer; Part A: Applications, 2011, 59, 167-184.	1.2	67
2	Analytical and numerical study on convection of nanofluid past a moving wedge with Soret and Dufour effects. International Journal of Numerical Methods for Heat and Fluid Flow, 2017, 27, 2333-2354.	1.6	67
3	MHD mixed convection of Cuâ€“water nanofluid in a two-sided lid-driven porous cavity with a partial slip. Numerical Heat Transfer; Part A: Applications, 2016, 70, 1356-1370.	1.2	64
4	Natural convection in a wavy porous cavity with sinusoidal heating and internal heat generation. International Journal of Numerical Methods for Heat and Fluid Flow, 2017, 27, 287-309.	1.6	61
5	Numerical Study on Double Diffusive Mixed Convection with a Soret Effect in a Two-Sided Lid-Driven Cavity. Numerical Heat Transfer; Part A: Applications, 2011, 59, 543-560.	1.2	57
6	Natural Convection in a Porous Cavity with Sinusoidal Heating on Both Sidewalls. Numerical Heat Transfer; Part A: Applications, 2013, 63, 14-30.	1.2	55
7	Buoyancy induced convection in a porous cavity with partially thermally active sidewalls. International Journal of Heat and Mass Transfer, 2011, 54, 5173-5182.	2.5	50
8	Chemical reaction, radiation and slip effects on MHD mixed convection stagnation-point flow in a porous medium with convective boundary condition. International Journal of Numerical Methods for Heat and Fluid Flow, 2017, 27, 454-470.	1.6	48
9	Effect of aspect ratio on convection in a porous enclosure with partially active thermal walls. Computers and Mathematics With Applications, 2011, 62, 3844-3856.	1.4	47
10	Magneto-convection of nanofluids in a lid-driven trapezoidal cavity with internal heat generation and discrete heating. Numerical Heat Transfer; Part A: Applications, 2017, 71, 1223-1234.	1.2	40
11	Second-order slip, cross-diffusion and chemical reaction effects on magneto-convection of Oldroyd-B liquid using Cattaneoâ€“Christov heat flux with convective heating. Journal of Thermal Analysis and Calorimetry, 2019, 136, 401-409.	2.0	39
12	Impact of double-stratification on convective flow of a non-Newtonian liquid in a Riga plate with Cattaneo-Christov double-flux and thermal radiation. Ain Shams Engineering Journal, 2021, 12, 969-981.	3.5	37
13	Effect of heating location and size on MHD mixed convection in a lidâ€driven cavity. International Journal of Numerical Methods for Heat and Fluid Flow, 2013, 23, 867-884.	1.6	30
14	Numerical simulation on convection of non-Newtonian fluid in a porous enclosure with non-uniform heating and thermal radiation. AEJ - Alexandria Engineering Journal, 2020, 59, 3315-3323.	3.4	28
15	Effect of moving wall direction on mixed convection in an inclined lid-driven square cavity with sinusoidal heating. Numerical Heat Transfer; Part A: Applications, 2016, 69, 630-642.	1.2	27
16	Double-diffusive mixed convection in a lid-driven cavity with non-uniform heating on sidewalls. Sadhana - Academy Proceedings in Engineering Sciences, 2017, 42, 1929-1941.	0.8	25
17	Effect of Radiation on MHD Convective Flow and Heat Transfer of a Viscoelastic Fluid Over a Stretching Surface. Procedia Engineering, 2015, 127, 916-923.	1.2	24
18	Numerical study on free convection of cold water in a square porous cavity heated with sinusoidal wall temperature. International Journal of Numerical Methods for Heat and Fluid Flow, 2017, 27, 1000-1014.	1.6	22

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19	LIE GROUP ANALYSIS OF RADIATION NATURAL CONVECTION FLOW OVER AN INCLINED SURFACE IN A POROUS MEDIUM WITH INTERNAL HEAT GENERATION. Journal of Porous Media, 2012, 15, 1155-1164.	1.0	22
20	Numerical study on magneto-convection of cold water in an open cavity with variable fluid properties. International Journal of Heat and Fluid Flow, 2011, 32, 932-942.	1.1	21
21	Analytical and Numerical Study on Magnetoconvection Stagnation-Point Flow in a Porous Medium with Chemical Reaction, Radiation, and Slip Effects. Mathematical Problems in Engineering, 2016, 2016, 1-12.	0.6	20
22	Numerical Simulation on Convection and Thermal Radiation of Casson Fluid in an Enclosure with Entropy Generation. Entropy, 2020, 22, 229.	1.1	19
23	Chemical reaction, soret and dufour effects on MHD mixed convection stagnation point flow with radiation and slip condition. Scientia Iranica, 2017, 24, 698-706.	0.3	19
24	Lie group analysis of natural convection heat and mass transfer in an inclined surface with chemical reaction. Nonlinear Analysis: Hybrid Systems, 2009, 3, 536-542.	2.1	18
25	Effect of Aspect Ratio on Natural Convection in a Porous Wavy Cavity. Arabian Journal for Science and Engineering, 2018, 43, 1409-1421.	1.7	18
26	Differential approximations for transient radiative transfer in refractive planar media with pulse irradiation. Journal of Quantitative Spectroscopy and Radiative Transfer, 2009, 110, 389-401.	1.1	17
27	Lie group analysis of radiation natural convection heat transfer past an inclined porous surface. Journal of Mechanical Science and Technology, 2008, 22, 1779-1784.	0.7	15
28	Effect of Variable Fluid Properties on Natural Convection of Nanofluids in a Cavity with Linearly Varying Wall Temperature. Mathematical Problems in Engineering, 2015, 2015, 1-13.	0.6	15
29	Effect of a Partition on Hydro-Magnetic Convection in an Enclosure. Arabian Journal for Science and Engineering, 2011, 36, 1393-1406.	1.1	12
30	Magneto-convection of water near its maximum density in a cavity with partially thermally active walls. Energy and Environment, 2019, 30, 833-853.	2.7	12
31	Numerical study on buoyant convection and thermal radiation in a cavity with various thermal sources and Cattaneo-Christov heat flux. Case Studies in Thermal Engineering, 2021, 27, 101207.	2.8	12
32	Effect of partial slip and chemical reaction on convection of a viscoelastic fluid over a stretching surface with Cattaneo-Christov heat flux model. IOP Conference Series: Materials Science and Engineering, 2017, 263, 062009.	0.3	8
33	Effects of chemical reaction on MHD mixed convection stagnation point flow toward a vertical plate in a porous medium with radiation and heat generation. Journal of Physics: Conference Series, 2015, 662, 012014.	0.3	7
34	Lie group analysis of radiation natural convection flow past an inclined surface. Communications in Nonlinear Science and Numerical Simulation, 2008, 13, 269-276.	1.7	6
35	Influence of thermal radiation on squeezing flow of copperâ€“water nanofluid between parallel plates. Materials Today: Proceedings, 2021, 42, 457-464.	0.9	6
36	Discrete ordinates solution of radiative heat transfer in a refractive two-layer slab with collimated irradiation. Journal of the Chinese Institute of Engineers, Transactions of the Chinese Institute of Engineers,Series A/Chung-kuo Kung Ch'eng Hsuch K'an, 2011, 34, 383-392.	0.6	5

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37	Free convection flow in an inclined plate with variable thermal conductivity by scaling group transformations. , 2014, , .		4
38	Effects of multiple slip on MHD combined convective flow of viscoelastic nanofluid over a stretchy sheet with heat absorption. IOP Conference Series: Materials Science and Engineering, 2018, 390, 012096.	0.3	4
39	Passive and Active Control on 3D Convective Flow of Viscoelastic Nanofluid With Heat Generation and Convective Heating. Frontiers in Mechanical Engineering, 2019, 5, .	0.8	4
40	Effect of second order slip and non-linear thermal radiation on mixed convection flow of MHD Jeffrey nanofluid with double stratification under convective boundary condition. IOP Conference Series: Materials Science and Engineering, 2018, 390, 012081.	0.3	3
41	Mixed convection of water near its density maximum in a lid-driven porous square cavity. , 2014, , .		2
42	Effect of thermal radiation and suction on convective heat transfer of nanofluid along a wedge in the presence of heat generation/absorption. AIP Conference Proceedings, 2015, , .	0.3	2
43	Impacts of chemical reaction on MHD double diffusive flow with suction/blowing and slip. Journal of Physics: Conference Series, 2018, 1139, 012089.	0.3	2
44	Thermal radiation and cross diffusion effects on 3D convective flow of a viscoelastic fluid over a stretchy paper with chemical reaction. Journal of Physics: Conference Series, 2018, 1139, 012029.	0.3	2
45	Stratification and Cross Diffusion Effects on Magneto-Convection Stagnation-Point Flow in a Porous Medium with Chemical Reaction, Radiation, and Slip Effects. Trends in Mathematics, 2019, , 245-253.	0.1	2
46	Free convection in an inclined porous cavity with sinusoidal heating on sidewalls. Materials Today: Proceedings, 2022, 59, 1189-1195.	0.9	2
47	Numerical analysis on MHD Marangoni convection in an open enclosure. AIP Conference Proceedings, 2016, , .	0.3	1
48	Dufour-Soret Effects on 3D Convective Viscoelastic Fluid Flow Upon a Stretched Surface. International Journal of Engineering and Technology(UAE), 2018, 7, 598.	0.2	1
49	Cross diffusion, radiation and chemical reaction effects on MHD combined convective flow towards a stagnation-point upon vertical plate with heat generation. IOP Conference Series: Materials Science and Engineering, 2018, 390, 012088.	0.3	1
50	Effect of Slip and Convective Heating on Unsteady MHD Chemically Reacting Flow Over a Porous Surface with Suction. Trends in Mathematics, 2019, , 357-365.	0.1	1
51	Effect of discrete heating on magneto-convection in a cavity. , 2013, , .		0
52	Effects of various thermal boundary conditions on natural convection in porous cavities. AIP Conference Proceedings, 2015, , .	0.3	0
53	Effect of thermal radiation on combined bioconvection in a horizontal channel filled by nanoliquid and gyrotactic microorganisms. Journal of Physics: Conference Series, 2018, 1139, 012076.	0.3	0
54	Free Convection of Water near its Density Maximum in a Heat Generating Porous Cavity with Sinusoidal Heating. IOP Conference Series: Materials Science and Engineering, 2018, 390, 012095.	0.3	0

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55	Influence of density inversion and sinusoidal heating on dual diffusive convection in a water saturated square porous box. Journal of Physics: Conference Series, 2018, 1139, 012072.	0.3	0
56	Free convection of nanoliquids in an enclosure with sinusoidal heating. IOP Conference Series: Materials Science and Engineering, 2018, 390, 012086.	0.3	0
57	Thermosolutal combined convection in a lid-driven enclosure with time periodic heating and linearly salting. Journal of Physics: Conference Series, 2018, 1139, 012075.	0.3	0
58	Free convective flow of nanoliquids in a partitioned cavity with linearly heating. Journal of Physics: Conference Series, 2018, 1139, 012071.	0.3	0
59	Cross diffusion effects on combined bioconvection of nanofluid in a flat channel along with microorganisms. IOP Conference Series: Materials Science and Engineering, 2018, 390, 012084.	0.3	0
60	Convective Mass and Heat Transfer of a Chemically Reacting Fluid in a Porous Medium with Cross Diffusion Effects and Convective Boundary. Springer Transactions in Civil and Environmental Engineering, 2018, , 325-341.	0.3	0