

Prabhugouda M Patil

List of Publications by Year in descending order

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67
papers

1,309
citations

257357

24
h-index

434063

31
g-index

67
all docs

67
docs citations

67
times ranked

350
citing authors

#	ARTICLE	IF	CITATIONS
1	Free convection effects on the oscillatory flow of a couple stress fluid through a porous medium. <i>Acta Mechanica</i> , 1993, 98, 143-158.	1.1	52
2	Analysis of MHD mixed convection in a Ag-TiO ₂ hybrid nanofluid flow past a slender cylinder. <i>Chinese Journal of Physics</i> , 2021, 73, 406-419.	2.0	52
3	Diffusion of liquid hydrogen and oxygen in nonlinear mixed convection nanofluid flow over vertical cone. <i>International Journal of Hydrogen Energy</i> , 2019, 44, 17061-17071.	3.8	48
4	Nonlinear mixed convective nanofluid flow about a rough sphere with the diffusion of liquid hydrogen. <i>A EJ - Alexandria Engineering Journal</i> , 2021, 60, 1043-1053.	3.4	46
5	A computational study of the triple-diffusive nonlinear convective nanofluid flow over a wedge under convective boundary constraints. <i>International Communications in Heat and Mass Transfer</i> , 2021, 128, 105561.	2.9	45
6	Mixed Convection of Silica-Molybdenum Disulphide/Water Hybrid Nanofluid over a Rough Sphere. <i>Symmetry</i> , 2021, 13, 236.	1.1	42
7	Effects of surface roughness on mixed convective nanofluid flow past an exponentially stretching permeable surface. <i>Chinese Journal of Physics</i> , 2020, 64, 203-218.	2.0	40
8	Thermal diffusion and diffusion-thermo effects on mixed convection from an exponentially impermeable stretching surface. <i>International Journal of Heat and Mass Transfer</i> , 2016, 100, 482-489.	2.5	39
9	FLOW AND HEAT TRANSFER OVER A MOVING VERTICAL PLATE IN A PARALLEL FREE STREAM: ROLE OF INTERNAL HEAT GENERATION OR ABSORPTION. <i>Chemical Engineering Communications</i> , 2012, 199, 658-672.	1.5	38
10	Unsteady heat and mass transfer over a vertical stretching sheet in a parallel free stream with variable wall temperature and concentration. <i>Numerical Methods for Partial Differential Equations</i> , 2012, 28, 926-941.	2.0	38
11	Triple diffusive mixed convection along a vertically moving surface. <i>International Journal of Heat and Mass Transfer</i> , 2018, 117, 287-295.	2.5	37
12	Unsteady mixed convection flow from a moving vertical plate in a parallel free stream: Influence of heat generation or absorption. <i>International Journal of Heat and Mass Transfer</i> , 2010, 53, 4749-4756.	2.5	35
13	Effects of surface mass transfer on steady mixed convection flow from vertical stretching sheet with variable wall temperature and concentration. <i>International Journal of Numerical Methods for Heat and Fluid Flow</i> , 2012, 22, 287-305.	1.6	35
14	Influence of liquid hydrogen and nitrogen on MHD triple diffusive mixed convection nanofluid flow in presence of surface roughness. <i>International Journal of Hydrogen Energy</i> , 2018, 43, 20101-20117.	3.8	34
15	Unsteady effects on mixed convection boundary layer flow from a permeable slender cylinder due to non-linearly power law stretching. <i>Computers and Fluids</i> , 2012, 56, 17-23.	1.3	33
16	Non-similar solutions of mixed convection flow from an exponentially stretching surface. <i>Ain Shams Engineering Journal</i> , 2017, 8, 697-705.	3.5	33
17	Effects of chemical reaction on mixed convection flow of a polar fluid through a porous medium in the presence of internal heat generation. <i>Meccanica</i> , 2012, 47, 483-499.	1.2	32
18	Double diffusive mixed convection flow from a vertical exponentially stretching surface in presence of the viscous dissipation. <i>International Journal of Heat and Mass Transfer</i> , 2017, 112, 758-766.	2.5	32

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19	Influence of convective boundary condition on double diffusive mixed convection from a permeable vertical surface. <i>International Journal of Heat and Mass Transfer</i> , 2014, 70, 313-321.	2.5	31
20	Nonlinear mixed convective nanofluid flow along moving vertical rough plate. <i>Revista Mexicana De Física</i> , 2020, 66, 153-161.	0.2	30
21	Unsteady mixed convection flow over a vertical stretching sheet in a parallel free stream with variable wall temperature. <i>International Journal of Heat and Mass Transfer</i> , 2010, 53, 4741-4748.	2.5	29
22	Unsteady mixed convection over an exponentially decreasing external flow velocity. <i>International Journal of Heat and Mass Transfer</i> , 2017, 111, 643-650.	2.5	29
23	Influence of mixed convection in an exponentially decreasing external flow velocity. <i>International Journal of Heat and Mass Transfer</i> , 2017, 104, 392-399.	2.5	29
24	Effects of surface mass transfer on unsteady mixed convection flow over a vertical cone with chemical reaction. <i>Heat and Mass Transfer</i> , 2011, 47, 1453-1464.	1.2	28
25	CHEMICAL REACTION EFFECTS ON UNSTEADY MIXED CONVECTION BOUNDARY LAYER FLOW PAST A PERMEABLE SLENDER VERTICAL CYLINDER DUE TO A NONLINEARLY STRETCHING VELOCITY. <i>Chemical Engineering Communications</i> , 2013, 200, 398-417.	1.5	28
26	Unsteady thermal radiation mixed convection flow from a moving vertical plate in a parallel free stream: Effect of Newtonian heating. <i>International Journal of Heat and Mass Transfer</i> , 2013, 62, 534-540.	2.5	27
27	Linear Instability of a Horizontal Thermal Boundary Layer Formed by Vertical Throughflow in a Porous Medium: The Effect of Local Thermal Nonequilibrium. <i>Transport in Porous Media</i> , 2013, 99, 207-227.	1.2	23
28	Effects of free convection on the oscillatory flow of a polar fluid through a porous medium in the presence of variable wall heat flux. <i>Journal of Engineering Physics and Thermophysics</i> , 2008, 81, 905-922.	0.2	21
29	Triple diffusive mixed convection from an exponentially decreasing mainstream velocity. <i>International Journal of Heat and Mass Transfer</i> , 2018, 124, 298-306.	2.5	21
30	Influence of mixed convection nanofluid flow over a rotating sphere in the presence of diffusion of liquid hydrogen and ammonia. <i>Mathematics and Computers in Simulation</i> , 2022, 194, 764-781.	2.4	18
31	Effects of surface roughness on mixed convection nanofluid flow over slender cylinder with liquid hydrogen diffusion. <i>International Journal of Hydrogen Energy</i> , 2019, 44, 11121-11133.	3.8	16
32	MHD quadratic mixed convective Eyring-Powell nanofluid flow with multiple diffusions. <i>Chinese Journal of Physics</i> , 2022, 77, 393-410.	2.0	16
33	Influence of applied magnetic field on mixed convective nanofluid flow past an exponentially stretching surface with roughness. <i>Journal of the Brazilian Society of Mechanical Sciences and Engineering</i> , 2019, 41, 1.	0.8	15
34	Nonlinear Mixed Convective Flow over a Moving Yawed Cylinder Driven by Buoyancy. <i>Mathematics</i> , 2021, 9, 1275.	1.1	15
35	The onset of convection in a porous layer with multiple horizontal solid partitions. <i>International Journal of Heat and Mass Transfer</i> , 2014, 68, 234-246.	2.5	14
36	Mixed convection flow past a yawed cylinder. <i>International Communications in Heat and Mass Transfer</i> , 2020, 114, 104582.	2.9	14

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37	Influence of applied magnetic field on nonlinear mixed convective nanoliquid flow past a permeable rough cone. Indian Journal of Physics, 2022, 96, 1453-1464.	0.9	14
38	Numerical simulation of unsteady triple diffusive mixed convection in NaCl-water and Sucrose-water solutions. International Journal of Heat and Mass Transfer, 2018, 126, 147-155.	2.5	13
39	Study of liquid oxygen and hydrogen diffusive flow past a sphere with rough surface. International Journal of Hydrogen Energy, 2019, 44, 26624-26636.	3.8	13
40	Time-dependent mixed convection flow of Ag-MgO/water hybrid nanofluid over a moving vertical cone with rough surface. Journal of Thermal Analysis and Calorimetry, 2022, 147, 10693-10705.	2.0	13
41	The quadratic convective flow of Williamson nanofluid with multiple diffusions. Physica Scripta, 2022, 97, 065206.	1.2	13
42	Nonlinear Mixed Convection Flow of Nanofluid Past a Moving Vertical Slender Cylinder. Arabian Journal for Science and Engineering, 2020, 45, 1219-1228.	1.7	11
43	Double Diffusive Flows over a Stretching Sheet of Variable Thickness with or without Surface Mass Transfer. Heat Transfer - Asian Research, 2017, 46, 1087-1103.	2.8	10
44	A note on effects of couple stresses on the flow through a porous medium. Rheologica Acta, 1992, 31, 206-207.	1.1	9
45	Influence of surface roughness on multidiffusive mixed convective nanofluid flow. Physica Scripta, 2019, 94, 055201.	1.2	9
46	Homogeneous and heterogeneous reactions in the mixed convection flow of hybrid nanofluid over a slender cylinder. Asia-Pacific Journal of Chemical Engineering, 2022, 17, .	0.8	9
47	Influence of nonlinear thermal radiation on mixed convective hybrid nanofluid flow about a rotating sphere. Heat Transfer, 2022, 51, 5874-5895.	1.7	9
48	Unsteady mixed convection flow from a slender cylinder due to impulsive change in wall velocity and temperature. Thermal Science, 2013, 17, 1023-1034.	0.5	8
49	Free convective oscillatory flow of a polar fluid through a porous medium in the presence of oscillating suction and temperature. Journal of Engineering Physics and Thermophysics, 2009, 82, 1138-1145.	0.2	7
50	Corrigendum of "Mixed convection flow past a yawed cylinder" [ICHMT 114 (2020) 104582]. International Communications in Heat and Mass Transfer, 2021, 124, 105246.	2.9	7
51	Analysis of sodium chloride and sucrose diffusions in mixed convective nanoliquid flow. Ain Shams Engineering Journal, 2021, 12, 2117-2124.	3.5	7
52	Influence of MHD nanofluid flow on wall heating/cooling. Physica Scripta, 2019, 94, 105217.	1.2	6
53	Mixed convection hybrid nanoliquid flow over an exponentially stretching rough (smooth) surface with the impacts of homogeneous-heterogeneous reactions. Heat Transfer, 2021, 50, 8103-8120.	1.7	6
54	Effects of surface roughness and thermal radiation on mixed convective (GO-MoS ₂ /H ₂ O-C ₂ H ₆ O ₂) hybrid nanofluid flow past a permeable cone. Indian Journal of Physics, 2022, 96, 3567-3578.	0.9	6

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55	Influence of chemically reactive species and a volumetric heat source or sink on mixed convection over an exponentially decreasing mainstream. <i>Heat Transfer - Asian Research</i> , 2018, 47, 111-125.	2.8	4
56	UNSTEADY MIXED CONVECTION OVER AN EXPONENTIALLY STRETCHING SURFACE: INFLUENCE OF DARCY-FORCHHEIMER POROUS MEDIUM AND CROSS DIFFUSION. <i>Journal of Porous Media</i> , 2021, 24, 29-47.	1.0	3
57	Influence of Liquid Hydrogen Diffusion on Nonlinear Mixed Convective Circulation around a Yawed Cylinder. <i>Symmetry</i> , 2022, 14, 337.	1.1	3
58	Quadratic mixed convective nanofluid flow past a moving yawed cylinder in the presence of thermal radiation and diffusive liquids. <i>Heat Transfer</i> , 2022, 51, 4306-4330.	1.7	3
59	Influence of activation energy and applied magnetic field on triple-diffusive quadratic mixed convective nanofluid flow about a slender cylinder. <i>European Physical Journal Plus</i> , 2022, 137, 1.	1.2	3
60	Comments on the Paper "Unsteady Radiative-Convective Boundary-Layer Flow of a Casson Fluid with Variable Thermal Conductivity" by M. Gnaneswara Reddy. <i>Journal of Engineering Physics and Thermophysics</i> , 2015, 88, 1534-1536.	0.2	2
61	Insight into the dynamics of micropolar fluid about a vertical cone when nonlinear thermal radiation is significant: The case of triple mixed convection. <i>Heat Transfer</i> , 2022, 51, 3431-3455.	1.7	2
62	Comments on "Influence of chemical reaction and viscous dissipation on MHD mixed convection flow" by K. Das [JMST 28 (5) (2014) 1881-1885] and "Cu-water nanofluid flow and heat transfer over a shrinking sheet" by K. Das [JMST 28 (12) 5089-5094]. <i>Journal of Mechanical Science and Technology</i> , 2016, 30, 483-486.	0.7	1
63	Comments on "Effects of temperature dependent fluid properties and variable Prandtl number on the transient convective flow due to a porous rotating disk" by M. S. Alam, S. M. Chapal Hossain, M. M. Rahman [Meccanica (2014) 49:2439-2451]. <i>Meccanica</i> , 2017, 52, 2499-2502.	1.2	1
64	Impacts of nonuniform heat source or sink on MHD mixed convection along an exponentially stretching surface. <i>International Journal for Computational Methods in Engineering Science and Mechanics</i> , 2018, 19, 185-193.	1.4	1
65	Convective nanofluid flow over a vertical cone with a rough surface. <i>Heat Transfer</i> , 0, , .	1.7	1
66	Diffusion of liquid hydrogen in time-dependent MHD mixed convective flow. <i>Journal of Thermal Analysis and Calorimetry</i> , 2020, 141, 1197-1205.	2.0	0
67	A study of convective nanofluid flow over a rough slender cylinder under the influence of magnetic field and species diffusion. <i>Heat Transfer</i> , 2022, 51, 929-947.	1.7	0