Prabhugouda M Patil

List of Publications by Citations

58 papers	**682** citations	**18** h-index	**22** g-index
67 ext. papers	**950** ext. citations	**3.3** avg, IF	**4.83** L-index

#	Paper	IF	Citations
58	Free convection effects on the oscillatory flow of a couple stress fluid through a porous medium. *Acta Mechanica*, **1993**, 98, 143-158	2.1	39
57	Double diffusive mixed convection flow from a vertical exponentially stretching surface in presence of the viscous dissipation. *International Journal of Heat and Mass Transfer*, **2017**, 112, 758-766	4.9	29
56	Diffusion of liquid hydrogen and oxygen in nonlinear mixed convection nanofluid flow over vertical cone. *International Journal of Hydrogen Energy*, **2019**, 44, 17061-17071	6.7	27
55	Effects of surface mass transfer on steady mixed convection flow from vertical stretching sheet with variable wall temperature and concentration. *International Journal of Numerical Methods for Heat and Fluid Flow*, **2012**, 22, 287-305	4.5	27
54	Unsteady effects on mixed convection boundary layer flow from a permeable slender cylinder due to non-linearly power law stretching. *Computers and Fluids*, **2012**, 56, 17-23	2.8	26
53	Influence of mixed convection in an exponentially decreasing external flow velocity. *International Journal of Heat and Mass Transfer*, **2017**, 104, 392-399	4.9	24
52	Unsteady mixed convection over an exponentially decreasing external flow velocity. *International Journal of Heat and Mass Transfer*, **2017**, 111, 643-650	4.9	23
51	Triple diffusive mixed convection along a vertically moving surface. *International Journal of Heat and Mass Transfer*, **2018**, 117, 287-295	4.9	23
50	FLOW AND HEAT TRANSFER OVER A MOVING VERTICAL PLATE IN A PARALLEL FREE STREAM: ROLE OF INTERNAL HEAT GENERATION OR ABSORPTION. *Chemical Engineering Communications*, **2012**, 199, 658-672	2.2	23
49	Effects of surface mass transfer on unsteady mixed convection flow over a vertical cone with chemical reaction. *Heat and Mass Transfer*, **2011**, 47, 1453-1464	2.2	23
48	Effects of chemical reaction on mixed convection flow of a polar fluid through a porous medium in the presence of internal heat generation. *Meccanica*, **2012**, 47, 483-499	2.1	22
47	Unsteady thermal radiation mixed convection flow from a moving vertical plate in a parallel free stream: Effect of Newtonian heating. *International Journal of Heat and Mass Transfer*, **2013**, 62, 534-540	4.9	22
46	Thermal diffusion and diffusion-thermo effects on mixed convection from an exponentially impermeable stretching surface. *International Journal of Heat and Mass Transfer*, **2016**, 100, 482-489	4.9	22
45	Influence of convective boundary condition on double diffusive mixed convection from a permeable vertical surface. *International Journal of Heat and Mass Transfer*, **2014**, 70, 313-321	4.9	20
44	CHEMICAL REACTION EFFECTS ON UNSTEADY MIXED CONVECTION BOUNDARY LAYER FLOW PAST A PERMEABLE SLENDER VERTICAL CYLINDER DUE TO A NONLINEARLY STRETCHING VELOCITY. *Chemical Engineering Communications*, **2013**, 200, 398-417	2.2	20
43	Unsteady mixed convection flow from a moving vertical plate in a parallel free stream: Influence of heat generation or absorption. *International Journal of Heat and Mass Transfer*, **2010**, 53, 4749-4756	4.9	20
42	Non-similar solutions of mixed convection flow from an exponentially stretching surface. *Ain Shams Engineering Journal*, **2017**, 8, 697-705	4.4	19

41	Effects of surface roughness on mixed convective nanofluid flow past an exponentially stretching permeable surface. *Chinese Journal of Physics*, **2020**, 64, 203-218	3.5	19
40	Unsteady mixed convection flow over a vertical stretching sheet in a parallel free stream with variable wall temperature. *International Journal of Heat and Mass Transfer*, **2010**, 53, 4741-4748	4.9	16
39	Effects of free convection on the oscillatory flow of a polar fluid through a porous medium in the presence of variable wall heat flux. *Journal of Engineering Physics and Thermophysics*, **2008**, 81, 905-922	0.6	15
38	Nonlinear mixed convective nanofluid flow about a rough sphere with the diffusion of liquid hydrogen. *AEJ - Alexandria Engineering Journal*, **2021**, 60, 1043-1053	6.1	15
37	Linear Instability of a Horizontal Thermal Boundary Layer Formed by Vertical Throughflow in a Porous Medium: The Effect of Local Thermal Nonequilibrium. *Transport in Porous Media*, **2013**, 99, 207-227	3.1	14
36	Analysis of MHD mixed convection in a Ag-TiO2 hybrid nanofluid flow past a slender cylinder. *Chinese Journal of Physics*, **2021**, 73, 406-406	3.5	14
35	Influence of liquid hydrogen and nitrogen on MHD triple diffusive mixed convection nanoliquid flow in presence of surface roughness. *International Journal of Hydrogen Energy*, **2018**, 43, 20101-20117	6.7	13
34	Triple diffusive mixed convection from an exponentially decreasing mainstream velocity. *International Journal of Heat and Mass Transfer*, **2018**, 124, 298-306	4.9	12
33	Unsteady heat and mass transfer over a vertical stretching sheet in a parallel free stream with variable wall temperature and concentration. *Numerical Methods for Partial Differential Equations*, **2012**, 28, 926-941	2.5	12
32	Nonlinear mixed convective nanofluid flow along moving vertical rough plate. *Revista Mexicana De Física*, **2020**, 66, 153-161	3.5	11
31	Mixed Convection of Silica-Molybdenum Disulphide/Water Hybrid Nanoliquid over a Rough Sphere. *Symmetry*, **2021**, 13, 236	2.7	9
30	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	8
29	Effects of surface roughness on mixed convection nanoliquid flow over slender cylinder with liquid hydrogen diffusion. *International Journal of Hydrogen Energy*, **2019**, 44, 11121-11133	6.7	8
28	Mixed convection flow past a yawed cylinder. *International Communications in Heat and Mass Transfer*, **2020**, 114, 104582	5.8	8
27	The onset of convection in a porous layer with multiple horizontal solid partitions. *International Journal of Heat and Mass Transfer*, **2014**, 68, 234-246	4.9	8
26	A computational study of the triple-diffusive nonlinear convective nanoliquid flow over a wedge under convective boundary constraints. *International Communications in Heat and Mass Transfer*, **2021**, 128, 105561	5.8	8
25	A note on effects of couple stresses on the flow through a porous medium. *Rheologica Acta*, **1992**, 31, 206-207	2.3	7
24	Nonlinear Mixed Convection Flow of Nanofluid Past a Moving Vertical Slender Cylinder. *Arabian Journal for Science and Engineering*, **2020**, 45, 1219-1228	2.5	7

23	Influence of surface roughness on multidiffusive mixed convective nanofluid flow. *Physica Scripta*, **2019**, 94, 055201	2.6	6
22	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	4.9	6
21	Unsteady mixed convection flow from a slender cylinder due to impulsive change in wall velocity and temperature. *Thermal Science*, **2013**, 17, 1023-1034	1.2	6
20	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	0.6	6
19	Influence of applied magnetic field on nonlinear mixed convective nanoliquid flow past a permeable rough cone. *Indian Journal of Physics*,1	1.4	5
18	Study of liquid oxygen and hydrogen diffusive flow past a sphere with rough surface. *International Journal of Hydrogen Energy*, **2019**, 44, 26624-26636	6.7	4
17	Influence of applied magnetic field on mixed convective nanofluid flow past an exponentially stretching surface with roughness. *Journal of the Brazilian Society of Mechanical Sciences and Engineering*, **2019**, 41, 1	2	4
16	Corrigendum of Mixed convection flow past a yawed cylinder [ICHMT 114 (2020) 104582].. *International Communications in Heat and Mass Transfer*, **2021**, 124, 105246	5.8	4
15	Nonlinear Mixed Convective Flow over a Moving Yawed Cylinder Driven by Buoyancy. *Mathematics*, **2021**, 9, 1275	2.3	4
14	Influence of chemically reactive species and a volumetric heat source or sink on mixed convection over an exponentially decreasing mainstream. *Heat Transfer - Asian Research*, **2018**, 47, 111-125	2.8	3
13	Influence of MHD nanofluid flow on wall heating/cooling. *Physica Scripta*, **2019**, 94, 105217	2.6	2
12	Comments on the Paper "Unsteady Radiative-Convective Boundary-Layer Flow of a Casson Fluid with Variable Thermal Conductivity" by M. Gnaneswara Reddy. *Journal of Engineering Physics and Thermophysics*, **2015**, 88, 1534-1536	0.6	2
11	Effects of surface roughness and thermal radiation on mixed convective (GO-MoS2/H2O-C2H6O2) hybrid nanofluid flow past a permeable cone. *Indian Journal of Physics*,1	1.4	2
10	Influence of mixed convection nanofluid flow over a rotating sphere in the presence of diffusion of liquid hydrogen and ammonia. *Mathematics and Computers in Simulation*, **2022**, 194, 764-781	3.3	2
9	Mixed convection hybrid nanoliquid flow over an exponentially stretching rough (smooth) surface with the impacts of homogeneous-heterogeneous reactions. *Heat Transfer*,	3.1	2
8	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] *Meccanica*, **2017**, 52, 2499-2502	2.1	1
7	Impacts of nonuniform heat source or sink on MHD mixed convection along an exponentially stretching surface. *International Journal for Computational Methods in Engineering Science and Mechanics*, **2018**, 19, 185-193	0.7	1
6	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]. *Journal of Mechanical Science and Technology*, **2016**, 30, 483-486	1.6	1

LIST OF PUBLICATIONS

5   Influence of Liquid Hydrogen Diffusion on Nonlinear Mixed Convective Circulation around a Yawed Cylinder. *Symmetry*, **2022**, 14, 337   2.7   1

4   Analysis of sodium chloride and sucrose diffusions in mixed convective nanoliquid flow. *Ain Shams Engineering Journal*, **2021**, 12, 2117-2124   4.4   0

3   MHD quadratic mixed convective Eyring-Powell nanofluid flow with multiple diffusions. *Chinese Journal of Physics*, **2022**, 77, 393-410   3.5   0

2   Influence of activation energy and applied magnetic field on triple-diffusive quadratic mixed convective nanoliquid flow about a slender cylinder. *European Physical Journal Plus*, **2022**, 137, 1   3.1   0

1   Diffusion of liquid hydrogen in time-dependent MHD mixed convective flow. *Journal of Thermal Analysis and Calorimetry*, **2020**, 141, 1197-1205   4.1