Dhananjay Yadav

List of Publications by Year in Descending Order

69 papers	1,444 citations	21 h-index	35 g-index
74 ext. papers	1,756 ext. citations	2.7 avg, IF	5.94 L-index

#	Paper	IF	Citations
69	Effect of electric field on the onset of Jeffery fluid convection in a heat-generating porous medium layer **2022**, 96, 1		3
68	Double diffusive convective motion in a reactive porous medium layer saturated by a non-Newtonian Kuvshiniski fluid. *Physics of Fluids*, **2022**, 34, 024104	4.4	1
67	Rayleigh instability of power-law viscoelastic liquid with heat and mass transfer. *International Communications in Heat and Mass Transfer*, **2021**, 129, 105657	5.8	3
66	Significance of the inconstant viscosity and internal heat generation on the occurrence of Darcy-Brinkman convective motion in a couple-stress fluid saturated porous medium: An analytical solution. *International Communications in Heat and Mass Transfer*, **2021**, 122, 105165	5.8	27
65	Dipeptidyl Peptidase (DPP)-IV Inhibitors with Antioxidant Potential Isolated from Natural Sources: A Novel Approach for the Management of Diabetes. *Pharmaceuticals*, **2021**, 14,	5.2	5
64	Thermal convection in a layer of micropolar nanofluid. *Asia-Pacific Journal of Chemical Engineering*, **2021**, 16, e2681	1.3	6
63	Investigation of thermal treatment of hybrid nanoparticles in a domain with different permeabilities. *Journal of Thermal Analysis and Calorimetry*, **2021**, 145, 2787-2794	4.1	8
62	The effect of viscosity and Darcy number on the start of convective motion in a rotating porous medium layer saturated by a couple-stress fluid. *Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science*, **2021**, 235, 999-1007	1.3	11
61	Influence of anisotropy on the Jeffrey fluid convection in a horizontal rotary porous layer. *Heat Transfer*, **2021**, 50, 4595-4606	3.1	7
60	THE EFFECT OF ROTATION AND PULSATING THROUGHFLOW ON THE ONSET OF LONGITUDINAL CONVECTIVE ROLLS IN A POROUS MEDIUM SATURATED BY NANOFLUID. *Journal of Porous Media*, **2021**, 24, 49-63	2.9	3
59	Influence of temperature dependent viscosity and internal heating on the onset of convection in porous enclosures saturated with viscoelastic fluid. *Asia-Pacific Journal of Chemical Engineering*, **2020**, 15, e2514	1.3	6
58	The onset of Darcy-Brinkman convection in a porous medium layer with vertical throughflow and variable gravity field effects. *Heat Transfer*, **2020**, 49, 3161-3173	3.1	15
57	NUMERICAL EXAMINATION OF THE THERMAL INSTABILITY IN AN ANISOTROPIC POROUS MEDIUM LAYER SUBJECTED TO ROTATION AND VARIABLE GRAVITY FIELD. *Special Topics and Reviews in Porous Media*, **2020**, 11, 395-407	2.5	5
56	Numerical solution of the onset of Buoyancy-driven nanofluid convective motion in an anisotropic porous medium layer with variable gravity and internal heating. *Heat Transfer*, **2020**, 49, 1170-1191	3.1	19
55	Influence of wavy enclosure and nanoparticles on heat release rate of PCM considering numerical study. *Journal of Molecular Liquids*, **2020**, 319, 114121	6	83
54	Effects of rotation and varying gravity on the onset of convection in a porous medium layer: a numerical study. *World Journal of Engineering*, **2020**, 17, 785-793	1.8	6
53	Impact of chemical reaction on the convective heat transport in nanofluid occupying in porous enclosures: A realistic approach. *International Journal of Mechanical Sciences*, **2019**, 157-158, 357-373	5.5	21

52	The effect of pulsating throughflow on the onset of magneto convection in a layer of nanofluid confined within a Hele-Shaw cell. *Proceedings of the Institution of Mechanical Engineers, Part E: Journal of Process Mechanical Engineering*, **2019**, 233, 1074-1085	1.5	22
51	Numerical investigation of the combined impact of variable gravity field and throughflow on the onset of convective motion in a porous medium layer. *International Communications in Heat and Mass Transfer*, **2019**, 108, 104274	5.8	19
50	Numerical Examination of the Thermo-Electro-Hydrodynamic Convection in a Horizontal Dielectric Nanofluid Layer Using the Power Series Method. *Journal of Nanofluids*, **2019**, 8, 117-131	2.2	8
49	The onset of longitudinal convective rolls in a porous medium saturated by a nanofluid with non-uniform internal heating and chemical reaction. *Journal of Thermal Analysis and Calorimetry*, **2019**, 135, 1107-1117	4.1	21
48	Convective Heat Transport in a Heat Generating Porous Layer Saturated by a Non-Newtonian Nanofluid. *Heat Transfer Engineering*, **2019**, 40, 1363-1382	1.7	20
47	Thermal convection in a Kuvshiniski viscoelastic nanofluid saturated porous layer. *Ain Shams Engineering Journal*, **2017**, 8, 613-621	4.4	11
46	Numerical Solution of the Onset of Natural Convection in a Rotating Nanofluid Layer Induced by Purely Internal Heating. *International Journal of Applied and Computational Mathematics*, **2017**, 3, 3663-3681	1.3	11
45	Thermal Instability in a Layer of Couple Stress Nanofluid Saturated Porous Medium. *Journal of Theoretical and Applied Mechanics (Bulgaria)*, **2017**, 47, 69-84	5.8	15
44	Modelling carbon dioxide emissions from agricultural soils in Canada. *Environmental Pollution*, **2017** , 230, 1040-1049	9.3	30
43	THERMAL INSTABILITY OF COUPLE-STRESS NANOFLUID WITH VERTICAL ROTATION IN A POROUS MEDIUM. *Journal of Porous Media*, **2017**, 20, 635-648	2.9	13
42	ONSET OF DARCY-BRINKMAN CONVECTION IN A ROTATING POROUS LAYER INDUCED BY PURELY INTERNAL HEATING. *Journal of Porous Media*, **2017**, 20, 691-706	2.9	17
41	Electrohydrodynamic Instability in a Heat Generating Porous Layer Saturated by a Dielectric Nanofluid. *Journal of Applied Fluid Mechanics*, **2017**, 10, 763-776	1.5	19
40	Thermal instability in a rotating nanofluid layer: A revised model. *Ain Shams Engineering Journal*, **2016**, 7, 431-440	4.4	37
39	Throughflow and quadratic drag effects on the onset of convection in a Forchheimer-extended Darcy porous medium layer saturated by a nanofluid. *Journal of the Brazilian Society of Mechanical Sciences and Engineering*, **2016**, 38, 2299-2309	2	10
38	The onset of transient Soret-driven MHD convection confined within a Hele-Shaw cell with nanoparticles suspension. *Journal of the Taiwan Institute of Chemical Engineers*, **2016**, 58, 235-244	5.3	35
37	Onset of Convection in a Nanofluid Layer Confined within a Hele-Shaw Cell. *Journal of Applied Fluid Mechanics*, **2016**, 9, 519-527	1.5	10
36	Electrothermo Convection in a Porous Medium Saturated by Nanofluid. *Journal of Applied Fluid Mechanics*, **2016**, 9, 1081-1088	1.5	16
35	Effect of Hall Current on the Onset of MHD Convection in a Porous Medium Layer Saturated by a Nanofluid. *Journal of Applied Fluid Mechanics*, **2016**, 9, 2379-2389	1.5	22

34	Electrothermal Instability in a Porous Medium Layer Saturated by a Dielectric Nanofluid. *Journal of Applied Fluid Mechanics*, **2016**, 9, 2123-2132	1.5	3
33	THE ONSET OF DOUBLE-DIFFUSIVE NANOFLUID CONVECTION IN A ROTATING POROUS MEDIUM LAYER WITH THERMAL CONDUCTIVITY AND VISCOSITY VARIATION: A REVISED MODEL. *Journal of Porous Media*, **2016**, 19, 31-46	2.9	51
32	Numerical investigation of the effect of magnetic field on the onset of nanofluid convection. *Applied Thermal Engineering*, **2016**, 103, 1441-1449	5.8	61
31	Linear and non-linear analyses of Soret-driven buoyancy convection in a vertically orientated Hele-Shaw cell with nanoparticles suspension. *Computers and Fluids*, **2015**, 117, 139-148	2.8	21
30	Influence of magnetic field on the onset of nanofluid convection induced by purely internal heating. *Computers and Fluids*, **2015**, 121, 26-36	2.8	50
29	The onset of MHD nanofluid convection with Hall current effect. *European Physical Journal Plus*, **2015**, 130, 1	3.1	38
28	Brinkman convection induced by purely internal heating in a rotating porous medium layer saturated by a nanofluid. *Powder Technology*, **2015**, 286, 592-601	5.2	38
27	Electrothermo convection in a horizontal layer of rotating nanofluid. *International Journal of Nanoparticles*, **2015**, 8, 241	0.4	11
26	The Effect of Local Thermal Non-Equilibrium on the Onset of Brinkman Convection in a Nanofluid Saturated Rotating Porous Layer. *Journal of Nanofluids*, **2015**, 4, 335-342	2.2	16
25	THE ONSET OF TRANSIENT SORET-DRIVEN BUOYANCY CONVECTION IN NANOPARTICLE SUSPENSIONS WITH PARTICLE-CONCENTRATION-DEPENDENT VISCOSITY IN A POROUS MEDIUM. *Journal of Porous Media*, **2015**, 18, 369-378	2.9	20
24	The onset of electrohydrodynamic instability of an elastico-viscous Walters' (model B') dielectric fluid layer. *FME Transactions*, **2015**, 43, 154-160	1.6	5
23	The effect of rotation on the onset of transient Soret-driven buoyancy convection in a porous layer saturated by a nanofluid. *Microfluidics and Nanofluidics*, **2014**, 17, 1085-1093	2.8	15
22	Magneto-convection in a rotating layer of nanofluid. *Asia-Pacific Journal of Chemical Engineering*, **2014**, 9, 663-677	1.3	39
21	Linear and Nonlinear Analyses of the Onset of Buoyancy-Induced Instability in an Unbounded Porous Medium Saturated by Miscible Fluids. *Transport in Porous Media*, **2014**, 104, 407-433	3.1	10
20	Reader comprehension ranking by monitoring eye gaze using eye tracker. *International Journal of Intelligent Systems Technologies and Applications*, **2014**, 13, 294	0.5	1
19	Thermal instability in a rotating porous layer saturated by a non-Newtonian nanofluid with thermal conductivity and viscosity variation. *Microfluidics and Nanofluidics*, **2014**, 16, 425-440	2.8	56
18	THEORETICAL AND NUMERICAL ANALYSES ON THE ONSET AND GROWTH OF CONVECTIVE INSTABILITIES IN A HORIZONTAL ANISOTROPIC POROUS MEDIUM. *Journal of Porous Media*, **2014**, 17, 1061-1074	2.9	13
17	User Ranking by Monitoring Eye Gaze Using Eye Tracker. *Advances in Intelligent Systems and Computing*, **2014**, 235-246	0.4	

16	Numerical solution of a thermal instability problem in a rotating nanofluid layer. *International Journal of Heat and Mass Transfer*, **2013**, 63, 313-322	4.9	62
15	Thermal instability in a nanofluid layer with a vertical magnetic field. *Journal of Engineering Mathematics*, **2013**, 80, 147-164	1.2	52
14	ONSET OF DOUBLE-DIFFUSIVE NANOFLUID CONVECTION IN A LAYER OF SATURATED POROUS MEDIUM WITH THERMAL CONDUCTIVITY AND VISCOSITY VARIATION. *Journal of Porous Media*, **2013**, 16, 105-121	2.9	41
13	Effect of magnetic field on the Rayleigh-Bénard convection in a nanofluid layer: rigidrigid boundaries **2012**,		1
12	Boundary and internal heat source effects on the onset of DarcyBrinkman convection in a porous layer saturated by nanofluid. *International Journal of Thermal Sciences*, **2012**, 60, 244-254	4.1	79
11	The onset of convection in a binary nanofluid saturated porous layer. *International Journal of Theoretical and Applied Multiscale Mechanics*, **2012**, 2, 198	0	36
10	Thermal instability of rotating nanofluid layer. *International Journal of Engineering Science*, **2011**, 49, 1171-1184	5.7	93
9	Effect of Internal Heat Source on the Onset of Convection in a Nanofluid Layer. *Applied Mechanics and Materials*, **2011**, 110-116, 1827-1832	0.3	
8	The HortonRogersLapwood problem in a Jeffrey fluid influenced by a vertical magnetic field. *Proceedings of the Institution of Mechanical Engineers, Part E: Journal of Process Mechanical Engineering*,095440892110311	1.5	4
7	Examination of the nanofluid convective instability of vertical constant throughflow in a porous medium layer with variable gravity. *Applied Nanoscience (Switzerland)*,1	3.3	47
6	Hybrid nanomaterial and instability analysis of convective flow in permeable media. *Applied Nanoscience (Switzerland)*,1	3.3	2
5	An improved UK-DNDC model for evaluations of soil temperature and nitrous oxide emissions from Canadian agriculture. *Plant and Soil*,1	4.2	0
4	The effect of variable gravity on rotating RayleighBénard convection in a sparsely packed porous layer. *Heat Transfer*,	3.1	2
3	Buoyancy driven non-Newtonian Prandtl-Eyring nanofluid flow in Darcy-Forchheimer porous medium over inclined non-linear expanding sheet with double stratification. *Waves in Random and Complex Media*,1-33	1.9	4
2	Unsteady stagnation-point flow of CNTs suspended nanofluid on a shrinking/expanding sheet with partial slip: multiple solutions and stability analysis. *Waves in Random and Complex Media*,1-22	1.9	4
1	Stability characteristics of Walters B viscoelastic fluid in a cylindrical configuration with heat transfer. *Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science*,095440622211018	1.3	1