

Dhananjay Yadav

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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.

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	Thermal instability of rotating nanofluid layer. <i>International Journal of Engineering Science</i> , 2011 , 49, 1171-1184	5.7	93
68	Influence of wavy enclosure and nanoparticles on heat release rate of PCM considering numerical study. <i>Journal of Molecular Liquids</i> , 2020 , 319, 114121	6	83
67	Boundary and internal heat source effects on the onset of DarcyBrinkman convection in a porous layer saturated by nanofluid. <i>International Journal of Thermal Sciences</i> , 2012 , 60, 244-254	4.1	79
66	Numerical solution of a thermal instability problem in a rotating nanofluid layer. <i>International Journal of Heat and Mass Transfer</i> , 2013 , 63, 313-322	4.9	62
65	Numerical investigation of the effect of magnetic field on the onset of nanofluid convection. <i>Applied Thermal Engineering</i> , 2016 , 103, 1441-1449	5.8	61
64	Thermal instability in a rotating porous layer saturated by a non-Newtonian nanofluid with thermal conductivity and viscosity variation. <i>Microfluidics and Nanofluidics</i> , 2014 , 16, 425-440	2.8	56
63	Thermal instability in a nanofluid layer with a vertical magnetic field. <i>Journal of Engineering Mathematics</i> , 2013 , 80, 147-164	1.2	52
62	THE ONSET OF DOUBLE-DIFFUSIVE NANOFLUID CONVECTION IN A ROTATING POROUS MEDIUM LAYER WITH THERMAL CONDUCTIVITY AND VISCOSITY VARIATION: A REVISED MODEL. <i>Journal of Porous Media</i> , 2016 , 19, 31-46	2.9	51
61	Influence of magnetic field on the onset of nanofluid convection induced by purely internal heating. <i>Computers and Fluids</i> , 2015 , 121, 26-36	2.8	50
60	Examination of the nanofluid convective instability of vertical constant throughflow in a porous medium layer with variable gravity. <i>Applied Nanoscience (Switzerland)</i> , 1	3.3	47
59	ONSET OF DOUBLE-DIFFUSIVE NANOFLUID CONVECTION IN A LAYER OF SATURATED POROUS MEDIUM WITH THERMAL CONDUCTIVITY AND VISCOSITY VARIATION. <i>Journal of Porous Media</i> , 2013 , 16, 105-121	2.9	41
58	Magneto-convection in a rotating layer of nanofluid. <i>Asia-Pacific Journal of Chemical Engineering</i> , 2014 , 9, 663-677	1.3	39
57	The onset of MHD nanofluid convection with Hall current effect. <i>European Physical Journal Plus</i> , 2015 , 130, 1	3.1	38
56	Brinkman convection induced by purely internal heating in a rotating porous medium layer saturated by a nanofluid. <i>Powder Technology</i> , 2015 , 286, 592-601	5.2	38
55	Thermal instability in a rotating nanofluid layer: A revised model. <i>Ain Shams Engineering Journal</i> , 2016 , 7, 431-440	4.4	37
54	The onset of convection in a binary nanofluid saturated porous layer. <i>International Journal of Theoretical and Applied Multiscale Mechanics</i> , 2012 , 2, 198	0	36
53	The onset of transient Soret-driven MHD convection confined within a Hele-Shaw cell with nanoparticles suspension. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2016 , 58, 235-244	5.3	35

52	Modelling carbon dioxide emissions from agricultural soils in Canada. <i>Environmental Pollution</i> , 2017 , 230, 1040-1049	9.3	30
51	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. <i>International Communications in Heat and Mass Transfer</i> , 2021 , 122, 105165	5.8	27
50	The effect of pulsating throughflow on the onset of magneto convection in a layer of nanofluid confined within a Hele-Shaw cell. <i>Proceedings of the Institution of Mechanical Engineers, Part E: Journal of Process Mechanical Engineering</i> , 2019 , 233, 1074-1085	1.5	22
49	Effect of Hall Current on the Onset of MHD Convection in a Porous Medium Layer Saturated by a Nanofluid. <i>Journal of Applied Fluid Mechanics</i> , 2016 , 9, 2379-2389	1.5	22
48	Impact of chemical reaction on the convective heat transport in nanofluid occupying in porous enclosures: A realistic approach. <i>International Journal of Mechanical Sciences</i> , 2019 , 157-158, 357-373	5.5	21
47	Linear and non-linear analyses of Soret-driven buoyancy convection in a vertically orientated Hele-Shaw cell with nanoparticles suspension. <i>Computers and Fluids</i> , 2015 , 117, 139-148	2.8	21
46	The onset of longitudinal convective rolls in a porous medium saturated by a nanofluid with non-uniform internal heating and chemical reaction. <i>Journal of Thermal Analysis and Calorimetry</i> , 2019 , 135, 1107-1117	4.1	21
45	THE ONSET OF TRANSIENT SORET-DRIVEN BUOYANCY CONVECTION IN NANOPARTICLE SUSPENSIONS WITH PARTICLE-CONCENTRATION-DEPENDENT VISCOSITY IN A POROUS MEDIUM. <i>Journal of Porous Media</i> , 2015 , 18, 369-378	2.9	20
44	Convective Heat Transport in a Heat Generating Porous Layer Saturated by a Non-Newtonian Nanofluid. <i>Heat Transfer Engineering</i> , 2019 , 40, 1363-1382	1.7	20
43	Numerical investigation of the combined impact of variable gravity field and throughflow on the onset of convective motion in a porous medium layer. <i>International Communications in Heat and Mass Transfer</i> , 2019 , 108, 104274	5.8	19
42	Electrohydrodynamic Instability in a Heat Generating Porous Layer Saturated by a Dielectric Nanofluid. <i>Journal of Applied Fluid Mechanics</i> , 2017 , 10, 763-776	1.5	19
41	Numerical solution of the onset of Buoyancy-driven nanofluid convective motion in an anisotropic porous medium layer with variable gravity and internal heating. <i>Heat Transfer</i> , 2020 , 49, 1170-1191	3.1	19
40	ONSET OF DARCY-BRINKMAN CONVECTION IN A ROTATING POROUS LAYER INDUCED BY PURELY INTERNAL HEATING. <i>Journal of Porous Media</i> , 2017 , 20, 691-706	2.9	17
39	The Effect of Local Thermal Non-Equilibrium on the Onset of Brinkman Convection in a Nanofluid Saturated Rotating Porous Layer. <i>Journal of Nanofluids</i> , 2015 , 4, 335-342	2.2	16
38	Electrothermo Convection in a Porous Medium Saturated by Nanofluid. <i>Journal of Applied Fluid Mechanics</i> , 2016 , 9, 1081-1088	1.5	16
37	Thermal Instability in a Layer of Couple Stress Nanofluid Saturated Porous Medium. <i>Journal of Theoretical and Applied Mechanics (Bulgaria)</i> , 2017 , 47, 69-84	5.8	15
36	The onset of Darcy-Brinkman convection in a porous medium layer with vertical throughflow and variable gravity field effects. <i>Heat Transfer</i> , 2020 , 49, 3161-3173	3.1	15
35	The effect of rotation on the onset of transient Soret-driven buoyancy convection in a porous layer saturated by a nanofluid. <i>Microfluidics and Nanofluidics</i> , 2014 , 17, 1085-1093	2.8	15

34	THEORETICAL AND NUMERICAL ANALYSES ON THE ONSET AND GROWTH OF CONVECTIVE INSTABILITIES IN A HORIZONTAL ANISOTROPIC POROUS MEDIUM. <i>Journal of Porous Media</i> , 2014 , 17, 1061-1074	2.9	13
33	THERMAL INSTABILITY OF COUPLE-STRESS NANOFLUID WITH VERTICAL ROTATION IN A POROUS MEDIUM. <i>Journal of Porous Media</i> , 2017 , 20, 635-648	2.9	13
32	Thermal convection in a Kuvshinski viscoelastic nanofluid saturated porous layer. <i>Ain Shams Engineering Journal</i> , 2017 , 8, 613-621	4.4	11
31	Numerical Solution of the Onset of Natural Convection in a Rotating Nanofluid Layer Induced by Purely Internal Heating. <i>International Journal of Applied and Computational Mathematics</i> , 2017 , 3, 3663-3681	1.3	11
30	Electrothermo convection in a horizontal layer of rotating nanofluid. <i>International Journal of Nanoparticles</i> , 2015 , 8, 241	0.4	11
29	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. <i>Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science</i> , 2021 , 235, 999-1007	1.3	11
28	Throughflow and quadratic drag effects on the onset of convection in a Forchheimer-extended Darcy porous medium layer saturated by a nanofluid. <i>Journal of the Brazilian Society of Mechanical Sciences and Engineering</i> , 2016 , 38, 2299-2309	2	10
27	Linear and Nonlinear Analyses of the Onset of Buoyancy-Induced Instability in an Unbounded Porous Medium Saturated by Miscible Fluids. <i>Transport in Porous Media</i> , 2014 , 104, 407-433	3.1	10
26	Onset of Convection in a Nanofluid Layer Confined within a Hele-Shaw Cell. <i>Journal of Applied Fluid Mechanics</i> , 2016 , 9, 519-527	1.5	10
25	Numerical Examination of the Thermo-Electro-Hydrodynamic Convection in a Horizontal Dielectric Nanofluid Layer Using the Power Series Method. <i>Journal of Nanofluids</i> , 2019 , 8, 117-131	2.2	8
24	Investigation of thermal treatment of hybrid nanoparticles in a domain with different permeabilities. <i>Journal of Thermal Analysis and Calorimetry</i> , 2021 , 145, 2787-2794	4.1	8
23	Influence of anisotropy on the Jeffrey fluid convection in a horizontal rotary porous layer. <i>Heat Transfer</i> , 2021 , 50, 4595-4606	3.1	7
22	Influence of temperature dependent viscosity and internal heating on the onset of convection in porous enclosures saturated with viscoelastic fluid. <i>Asia-Pacific Journal of Chemical Engineering</i> , 2020 , 15, e2514	1.3	6
21	Effects of rotation and varying gravity on the onset of convection in a porous medium layer: a numerical study. <i>World Journal of Engineering</i> , 2020 , 17, 785-793	1.8	6
20	Thermal convection in a layer of micropolar nanofluid. <i>Asia-Pacific Journal of Chemical Engineering</i> , 2021 , 16, e2681	1.3	6
19	NUMERICAL EXAMINATION OF THE THERMAL INSTABILITY IN AN ANISOTROPIC POROUS MEDIUM LAYER SUBJECTED TO ROTATION AND VARIABLE GRAVITY FIELD. <i>Special Topics and Reviews in Porous Media</i> , 2020 , 11, 395-407	2.5	5
18	The onset of electrohydrodynamic instability of an elastico-viscous Walters' (model B') dielectric fluid layer. <i>FME Transactions</i> , 2015 , 43, 154-160	1.6	5
17	Dipeptidyl Peptidase (DPP)-IV Inhibitors with Antioxidant Potential Isolated from Natural Sources: A Novel Approach for the Management of Diabetes. <i>Pharmaceuticals</i> , 2021 , 14,	5.2	5

16	The Horton-Rogers-Lapwood problem in a Jeffrey fluid influenced by a vertical magnetic field. <i>Proceedings of the Institution of Mechanical Engineers, Part E: Journal of Process Mechanical Engineering</i> , 095440892110311	1.5	4
15	Buoyancy driven non-Newtonian Prandtl-Eyring nanofluid flow in Darcy-Forchheimer porous medium over inclined non-linear expanding sheet with double stratification. <i>Waves in Random and Complex Media</i> , 1-33	1.9	4
14	Unsteady stagnation-point flow of CNTs suspended nanofluid on a shrinking/expanding sheet with partial slip: multiple solutions and stability analysis. <i>Waves in Random and Complex Media</i> , 1-22	1.9	4
13	Effect of electric field on the onset of Jeffery fluid convection in a heat-generating porous medium layer 2022 , 96, 1		3
12	Electrothermal Instability in a Porous Medium Layer Saturated by a Dielectric Nanofluid. <i>Journal of Applied Fluid Mechanics</i> , 2016 , 9, 2123-2132	1.5	3
11	Rayleigh instability of power-law viscoelastic liquid with heat and mass transfer. <i>International Communications in Heat and Mass Transfer</i> , 2021 , 129, 105657	5.8	3
10	THE EFFECT OF ROTATION AND PULSATING THROUGHFLOW ON THE ONSET OF LONGITUDINAL CONVECTIVE ROLLS IN A POROUS MEDIUM SATURATED BY NANOFUID. <i>Journal of Porous Media</i> , 2021 , 24, 49-63	2.9	3
9	Hybrid nanomaterial and instability analysis of convective flow in permeable media. <i>Applied Nanoscience (Switzerland)</i> , 1	3.3	2
8	The effect of variable gravity on rotating Rayleigh-B�ard convection in a sparsely packed porous layer. <i>Heat Transfer</i> ,	3.1	2
7	Reader comprehension ranking by monitoring eye gaze using eye tracker. <i>International Journal of Intelligent Systems Technologies and Applications</i> , 2014 , 13, 294	0.5	1
6	Effect of magnetic field on the Rayleigh-B�ard convection in a nanofluid layer: rigidrigid boundaries 2012 ,		1
5	Double diffusive convective motion in a reactive porous medium layer saturated by a non-Newtonian Kuvshinski fluid. <i>Physics of Fluids</i> , 2022 , 34, 024104	4.4	1
4	Stability characteristics of Walter-B viscoelastic fluid in a cylindrical configuration with heat transfer. <i>Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science</i> , 095440622211018	1.3	1
3	An improved UK-DNDC model for evaluations of soil temperature and nitrous oxide emissions from Canadian agriculture. <i>Plant and Soil</i> , 1	4.2	0
2	Effect of Internal Heat Source on the Onset of Convection in a Nanofluid Layer. <i>Applied Mechanics and Materials</i> , 2011 , 110-116, 1827-1832	0.3	
1	User Ranking by Monitoring Eye Gaze Using Eye Tracker. <i>Advances in Intelligent Systems and Computing</i> , 2014 , 235-246	0.4	