

# Dhananjay Yadav

## List of Publications by Year in descending order

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72  
papers

2,102  
citations

236925

25  
h-index

276875

41  
g-index

77  
all docs

77  
docs citations

77  
times ranked

561  
citing authors

#	ARTICLE	IF	CITATIONS
1	Influence of wavy enclosure and nanoparticles on heat release rate of PCM considering numerical study. <i>Journal of Molecular Liquids</i> , 2020, 319, 114121.	4.9	191
2	Thermal instability of rotating nanofluid layer. <i>International Journal of Engineering Science</i> , 2011, 49, 1171-1184.	5.0	114
3	Boundary and internal heat source effects on the onset of Darcy-Brinkman convection in a porous layer saturated by nanofluid. <i>International Journal of Thermal Sciences</i> , 2012, 60, 244-254.	4.9	103
4	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.	4.8	73
5	Thermal instability in a nanofluid layer with a vertical magnetic field. <i>Journal of Engineering Mathematics</i> , 2013, 80, 147-164.	1.2	73
6	Numerical investigation of the effect of magnetic field on the onset of nanofluid convection. <i>Applied Thermal Engineering</i> , 2016, 103, 1441-1449.	6.0	70
7	THE ONSET OF DOUBLE-DIFFUSIVE NANOFUID 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.	1.9	65
8	Influence of magnetic field on the onset of nanofluid convection induced by purely internal heating. <i>Computers and Fluids</i> , 2015, 121, 26-36.	2.5	63
9	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.	2.2	62
10	Examination of the nanofluid convective instability of vertical constant throughflow in a porous medium layer with variable gravity. <i>Applied Nanoscience (Switzerland)</i> , 2023, 13, 353-366.	3.1	61
11	ONSET OF DOUBLE-DIFFUSIVE NANOFUID CONVECTION IN A LAYER OF SATURATED POROUS MEDIUM WITH THERMAL CONDUCTIVITY AND VISCOSITY VARIATION. <i>Journal of Porous Media</i> , 2013, 16, 105-121.	1.9	54
12	Magneto-convection in a rotating layer of nanofluid. <i>Asia-Pacific Journal of Chemical Engineering</i> , 2014, 9, 663-677.	1.5	50
13	The onset of convection in a binary nanofluid saturated porous layer. <i>International Journal of Theoretical and Applied Multiscale Mechanics</i> , 2012, 2, 198.	0.6	49
14	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.	4.2	45
15	Thermal instability in a rotating nanofluid layer: A revised model. <i>Ain Shams Engineering Journal</i> , 2016, 7, 431-440.	6.1	45
16	Modelling carbon dioxide emissions from agricultural soils in Canada. <i>Environmental Pollution</i> , 2017, 230, 1040-1049.	7.5	44
17	The onset of MHD nanofluid convection with Hall current effect. <i>European Physical Journal Plus</i> , 2015, 130, 1.	2.6	43
18	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.	5.6	42

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19	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	36
20	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.	6.7	34
21	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.	2.5	33
22	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, 586.	3.8	33
23	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.	5.6	32
24	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.	3.0	31
25	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.	3.0	30
26	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.	3.6	27
27	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.	0.2	27
28	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.	2.5	25
29	Convective Heat Transport in a Heat Generating Porous Layer Saturated by a Non-Newtonian Nanofluid. <i>Heat Transfer Engineering</i> , 2019, 40, 1363-1382.	1.9	25
30	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.	1.9	25
31	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.	0.0	23
32	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.	1.9	23
33	THERMAL INSTABILITY OF COUPLE-STRESS NANOFLLUID WITH VERTICAL ROTATION IN A POROUS MEDIUM. <i>Journal of Porous Media</i> , 2017, 20, 635-648.	1.9	21
34	Electrothermo Convection in a Porous Medium Saturated by Nanofluid. <i>Journal of Applied Fluid Mechanics</i> , 2016, 9, 1081-1088.	0.2	20
35	Electrohydrodynamic Instability in a Heat Generating Porous Layer Saturated by a Dielectric Nanofluid. <i>Journal of Applied Fluid Mechanics</i> , 2017, 10, 763-776.	0.2	20
36	Influence of anisotropy on the Jeffrey fluid convection in a horizontal rotary porous layer. <i>Heat Transfer</i> , 2021, 50, 4595-4606.	3.0	18

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37	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.	1.9	18
38	Double diffusive convective motion in a reactive porous medium layer saturated by a non-Newtonian Kuvshinski fluid. <i>Physics of Fluids</i> , 2022, 34, .	4.0	18
39	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.	2.2	17
40	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.	2.7	17
41	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.	2.1	16
42	Electrothermo convection in a horizontal layer of rotating nanofluid. <i>International Journal of Nanoparticles</i> , 2015, 8, 241.	0.3	15
43	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.	1.5	15
44	Thermal convection in a Kuvshinski viscoelastic nanofluid saturated porous layer. <i>Ain Shams Engineering Journal</i> , 2017, 8, 613-621.	6.1	14
45	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.	1.6	14
46	Thermal convection in a layer of micropolar nanofluid. <i>Asia-Pacific Journal of Chemical Engineering</i> , 2021, 16, e2681.	1.5	14
47	Onset of Convection in a Nanofluid Layer Confined within a Hele-Shaw Cell. <i>Journal of Applied Fluid Mechanics</i> , 2016, 9, 519-527.	0.2	14
48	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.	1.6	13
49	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> , 2021, 235, 2119-2128.	2.5	13
50	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.	2.7	13
51	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.	2.6	12
52	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> , 0, , 1-33.	2.7	12
53	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> , 0, , 1-22.	2.7	12
54	Electrothermal Instability in a Porous Medium Layer Saturated by a Dielectric Nanofluid. <i>Journal of Applied Fluid Mechanics</i> , 2016, 9, 2123-2132.	0.2	11

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55	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.	1.6	10
56	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.	3.6	10
57	Chemical Reaction and Internal Heating Effects on the Double Diffusive Convection in Porous Membrane Enclosures Soaked with Maxwell Fluid. <i>Membranes</i> , 2022, 12, 338.	3.0	10
58	The onset of electrohydrodynamic instability of an elastico-viscous Walters' (model B') dielectric fluid layer. <i>FME Transactions</i> , 2015, 43, 154-160.	1.4	9
59	Effect of electric field on the onset of Jeffery fluid convection in a heat-generating porous medium layer. <i>Pramana - Journal of Physics</i> , 2022, 96, 1.	1.8	9
60	THERMAL NON-EQUILIBRIUM EFFECTS ON THE INSTABILITY MECHANISM IN A NON-NEWTONIAN JEFFREY FLUID SATURATED POROUS LAYER. <i>Journal of Porous Media</i> , 2022, 25, 1-12.	1.9	8
61	Rayleigh instability of power-law viscoelastic liquid with heat and mass transfer. <i>International Communications in Heat and Mass Transfer</i> , 2021, 129, 105657.	5.6	8
62	The effect of variable gravity on rotating Rayleigh-Bénard convection in a sparsely packed porous layer. <i>Heat Transfer</i> , 2022, 51, 4187-4204.	3.0	7
63	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.	1.1	6
64	Stability characteristics of Walter's 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> , 2022, 236, 10370-10377.	2.1	5
65	Zebrafish: A Model to Study and Understand the Diabetic Nephropathy and Other Microvascular Complications of Type 2 Diabetes Mellitus. <i>Veterinary Sciences</i> , 2022, 9, 312.	1.7	5
66	An improved UK-DNDC model for evaluations of soil temperature and nitrous oxide emissions from Canadian agriculture. <i>Plant and Soil</i> , 2021, 469, 15-37.	3.7	4
67	Reader comprehension ranking by monitoring eye gaze using eye tracker. <i>International Journal of Intelligent Systems Technologies and Applications</i> , 2014, 13, 294.	0.2	3
68	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.	1.9	3
69	Effect of magnetic field on the Rayleigh-Bénard convection in a nanofluid layer: rigid boundaries. , 2012, , .		2
70	Temporal instability of nanofluid layer in a circular cylindrical cavity. <i>European Physical Journal: Special Topics</i> , 0, , .	2.6	2
71	User Ranking by Monitoring Eye Gaze Using Eye Tracker. <i>Advances in Intelligent Systems and Computing</i> , 2014, , 235-246.	0.6	1
72	Effect of Internal Heat Source on the Onset of Convection in a Nanofluid Layer. <i>Applied Mechanics and Materials</i> , 0, 110-116, 1827-1832.	0.2	0