

# Basant K Jha

## List of Publications by Year in descending order

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papers

667  
citations

687363

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794594

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90  
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90  
docs citations

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times ranked

284  
citing authors

#	ARTICLE	IF	CITATIONS
1	Unsteady hydromagnetic Couette flow of fluid-particle suspension in a porous channel. Proceedings of the Institution of Mechanical Engineers, Part E: Journal of Process Mechanical Engineering, 2023, 237, 240-247.	2.5	0
2	The Caputo-Fabrizio (CF) and Atangana-Baleanu in Caputo sense (ABC) fractional time-derivative approach on transient free convection flow between two vertical parallel plates: A semi-analytical solution. Heat Transfer, 2022, 51, 841-865.	3.0	1
3	Nonlinear approximation for natural convection and mass transfer in a vertical channel. Heat Transfer, 2022, 51, 1092-1109.	3.0	2
4	Numerical solution for natural convection flow near a vertical porous plate having convective boundary condition with nonlinear thermal radiation. Heat Transfer, 2022, 51, 1711-1724.	3.0	7
5	Thermophoresis in a time-dependent free convection flow with suspended particles in a chamber having thermal Robin boundary conditions. Heat Transfer, 2022, 51, 3979-3998.	3.0	0
6	Transient Flow Through a Porous Channel with Ramped Pressure Gradient and Velocity Slip Boundary Condition. International Journal of Applied Mechanics and Engineering, 2022, 27, 78-90.	0.7	0
7	Role of Suction/Injection on Free Convective Flow in a Vertical Channel in the Presence of Point/Line Heat Source/Sink. Journal of Heat Transfer, 2022, 144, .	2.1	5
8	Hydrodynamic behaviour of velocity of applied magnetic field on unsteady MHD Couette flow of dusty fluid in an annulus. European Physical Journal Plus, 2022, 137, 1.	2.6	4
9	Similarity solution for boundary layer flow near a moving vertical porous plate with combined effects of nonlinear thermal radiation and suction/injection having convective surface boundary condition. Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science, 2022, 236, 8926-8934.	2.1	3
10	Transient generalized Taylor-Couette flow of a dusty fluid: A semi-analytical approach. Partial Differential Equations in Applied Mathematics, 2022, 5, 100400.	2.4	2
11	Role of diffusion thermo on unsteady natural convection of a chemically reactive fluid impacted by heat source/sink in a tube. Journal of Taibah University for Science, 2022, 16, 495-504.	2.5	3
12	MHD free convection flow in a vertical porous super-hydrophobic micro-channel. Proceedings of the Institution of Mechanical Engineers, Part E: Journal of Process Mechanical Engineering, 2021, 235, 470-478.	2.5	3
13	Role of exponentially decaying/growing time-dependent pressure gradient on unsteady Dean flow: a Riemann-sum approximation approach. Arab Journal of Basic and Applied Sciences, 2021, 28, 1-10.	2.1	8
14	Thermophoresis on Free Convective Unsteady/Steady Couette Fluid Flow with Mass Transfer. International Journal of Applied and Computational Mathematics, 2021, 7, 1.	1.6	2
15	Variable Viscosity Effect on Boundary Layer Flow Along Continuously Moving Plate with the Thermal Boundary Condition of the Third Kind. International Journal of Applied and Computational Mathematics, 2021, 7, 1.	1.6	3
16	Nonlinear Approximation for Natural Convection Flow Near a Vertical Plate With Thermal Radiation Effect. Journal of Heat Transfer, 2021, 143, .	2.1	8
17	Hydrodynamic effect of slip boundaries and exponentially decaying/growing time-dependent pressure gradient on Dean flow. Journal of the Egyptian Mathematical Society, 2021, 29, .	1.2	5
18	Analysis of Transient Natural Convective Flow of a Nanofluid in a Vertical Tube. International Journal of Applied Mechanics and Engineering, 2021, 26, 31-46.	0.7	1

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19	Theoretical investigation on the impact of an oscillating time-dependent pressure gradient on Dean flow in a porous annulus. <i>Propulsion and Power Research</i> , 2021, 10, 294-302.	4.3	3
20	Role of Induced Magnetic Field on Hydromagnetic Mixed Convection Flow in Vertical Microannulus in Existence of Radial Magnetic Field. <i>Proceedings of the National Academy of Sciences India Section A - Physical Sciences</i> , 2020, 90, 259-269.	1.2	3
21	Effects of Hall Current and Magnetic Field Inclination on Hydromagnetic Natural Convection Flow in a Micro-Channel With Asymmetric Thermal Boundary Condition. <i>Journal of Thermal Science and Engineering Applications</i> , 2020, 12, .	1.5	6
22	Chemical reaction and Dufour effects on nonlinear free convection heat and mass transfer flow near a vertical moving porous plate. <i>Heat Transfer</i> , 2020, 49, 984-999.	3.0	16
23	Heat transfer analysis of mixed convection flow in a vertical microchannel with electrokinetic effect. <i>GEM - International Journal on Geomathematics</i> , 2020, 11, 1.	1.6	1
24	Combined effects of suction/injection and exponentially decaying/growing time-dependent pressure gradient on unsteady Dean flow: a semi-analytical approach. <i>GEM - International Journal on Geomathematics</i> , 2020, 11, 1.	1.6	2
25	Soret and Dufour effects on transient free convection heat and mass transfer flow in a vertical channel with ramped wall temperature and specie concentration: an analytical approach. <i>Arab Journal of Basic and Applied Sciences</i> , 2020, 27, 344-357.	2.1	1
26	Hall and ion-slip effects on MHD mixed convection flow in a vertical microchannel with asymmetric wall heating. <i>Engineering Reports</i> , 2020, 2, e12241.	1.7	4
27	Nonlinear Mixed Convection Flow in an Inclined Channel with Time-Periodic Boundary Conditions. <i>International Journal of Applied and Computational Mathematics</i> , 2020, 6, 1.	1.6	9
28	Electroosmotic natural convection flow in a vertical microchannel with asymmetric heat fluxes. <i>SN Applied Sciences</i> , 2020, 2, 1.	2.9	6
29	Impact of temperature dependent heat source on MHD natural convection flow between two vertical plates filled with nanofluid with induced magnetic field effect. <i>Arab Journal of Basic and Applied Sciences</i> , 2020, 27, 299-312.	2.1	6
30	A Similarity Solution for Natural Convection Flow near a Vertical Plate with Thermal Radiation. <i>Microgravity Science and Technology</i> , 2020, 32, 1031-1038.	1.4	7
31	Transient natural convection heat and mass transfer flow in a vertical channel in the presence of Soret and Dufour effects: An analytical approach. <i>International Journal of Modern Physics C</i> , 2020, 31, 2050032.	1.7	2
32	Hydromagnetic squeezed and extruded flow of conducting fluid with convective boundary conditions. <i>International Journal of Modern Physics C</i> , 2020, 31, 2050075.	1.7	0
33	Effect of heat source/sink on MHD free convection flow in a channel filled with nanofluid in the existence of induced magnetic field: an analytic approach. <i>SN Applied Sciences</i> , 2020, 2, 1.	2.9	6
34	Adomian decomposition method for combined effect of Hall and ion-slip on mixed convection flow of chemically reacting Newtonian fluid in a microchannel with heat absorption/generation. <i>International Journal of Modern Physics C</i> , 2020, 31, 2050150.	1.7	3
35	Thermal radiation effect on boundary layer over a flat plate having convective surface boundary condition. <i>SN Applied Sciences</i> , 2020, 2, 1.	2.9	25
36	Couette flow and heat transfer of heat-generating/absorbing fluid in a rotating channel in presence of viscous dissipation. <i>Arab Journal of Basic and Applied Sciences</i> , 2020, 27, 67-74.	2.1	6

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37	Theory of fully developed mixed convection including flow reversal: A nonlinear Boussinesq approximation approach. <i>Heat Transfer - Asian Research</i> , 2019, 48, 3477-3488.	2.8	12
38	Entropy generation in an inclined porous channel with suction/injection. <i>Nonlinear Engineering</i> , 2019, 9, 94-104.	2.7	2
39	Theoretical analysis of transient natural convection flow in a vertical microchannel with electrokinetic effect. <i>Journal of Taibah University for Science</i> , 2019, 13, 1087-1099.	2.5	18
40	Hall current and ion-slip effects on free convection flow in a vertical microchannel with an induced magnetic field. <i>Heat Transfer - Asian Research</i> , 2019, 48, 3812-3830.	2.8	6
41	Combined effects of Hall and ion-slip current on MHD free convection flow in a vertical micro-channel. <i>SN Applied Sciences</i> , 2019, 1, 1.	2.9	8
42	Unsteady free convection and mass transfer flow past an impulsively started vertical plate with Soret and Dufour effects: an analytical approach. <i>SN Applied Sciences</i> , 2019, 1, 1.	2.9	4
43	Unsteady hydromagnetic-free convection flow with suction/injection. <i>Journal of Taibah University for Science</i> , 2019, 13, 136-145.	2.5	9
44	Steady Fully Developed Mixed Convection Flow in a Vertical Channel with Heat and Mass Transfer and Temperature-Dependent Viscosity: An Exact Solution. <i>Zeitschrift Fur Naturforschung - Section A Journal of Physical Sciences</i> , 2019, 74, 235-244.	1.5	2
45	Role of Sudden Application or Withdrawal of Magnetic Field on MHD Couette Flow. <i>International Journal of Applied Mechanics and Engineering</i> , 2019, 24, 92-105.	0.7	1
46	Steady fully developed non-Darcian mixed convection flow in an annulus partially filled with porous material. <i>Afrika Matematika</i> , 2018, 29, 761-773.	0.8	0
47	Impact of Viscous Dissipation on Fully Developed Natural Convection Flow in a Vertical Microchannel. <i>Journal of Heat Transfer</i> , 2018, 140, .	2.1	9
48	Combined effect of suction/injection on MHD free-convection flow in a vertical channel with thermal radiation. <i>Ain Shams Engineering Journal</i> , 2018, 9, 1069-1088.	6.1	33
49	MHD free convection flow in a vertical slit micro-channel with super-hydrophobic slip and temperature jump: Heating by constant wall temperature. <i>AEJ - Alexandria Engineering Journal</i> , 2018, 57, 2541-2549.	6.4	4
50	The combined effects of anisotropic porous medium and stably stratified fluid on free convective flow through an annulus. <i>Journal of Taibah University for Science</i> , 2018, 12, 678-686.	2.5	8
51	Electromagnetic natural convection flow in a vertical microchannel with Joule heating: exact solution. <i>Journal of Taibah University for Science</i> , 2018, 12, 661-668.	2.5	15
52	Transient pressure driven flow in an annulus partially filled with porous material: Azimuthal pressure gradient. <i>Mathematical Modelling of Engineering Problems</i> , 2018, 5, 260-267.	0.5	7
53	Effect of Induced Magnetic Field on MHD Mixed Convection Flow in Vertical Microchannel. <i>International Journal of Applied Mechanics and Engineering</i> , 2017, 22, 567-582.	0.7	15
54	Numerical Investigation of Transient Free Convective Flow in Vertical Channel Filled with Porous Material in the Presence of Thermal Dispersion. <i>Computational Mathematics and Modeling</i> , 2017, 28, 350-367.	0.5	3

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55	Unsteady Hartmann Two-Phase Flow: The Riemann-Sum Approximation Approach. International Journal of Applied Mechanics and Engineering, 2016, 21, 891-904.	0.7	0
56	Magnetohydrodynamic mixed convection flow in vertical concentric annuli with time periodic boundary condition: Steady periodic regime. Sadhana - Academy Proceedings in Engineering Sciences, 2016, 41, 923-932.	1.3	1
57	Mixed convection in a vertical annulus filled with porous material having time-periodic thermal boundary condition: steady-periodic regime. Meccanica, 2016, 51, 1685-1698.	2.0	8
58	A Semi-analytical Solution for Start-Up Flow in an Annulus Partially Filled with Porous Material. Transport in Porous Media, 2016, 114, 49-64.	2.6	5
59	Role of Heat Generation/Absorption on Mixed Convection Flow in a Vertical Tube Filled with Porous Material Having Time-Periodic Boundary Condition: Steady-Periodic Regime. Transport in Porous Media, 2016, 111, 681-699.	2.6	12
60	MHD natural convection flow in a vertical parallel plate microchannel. Ain Shams Engineering Journal, 2015, 6, 289-295.	6.1	46
61	Unsteady Couette Flow in a Composite Channel Partially Filled with Porous Material: A Semi-analytical Approach. Transport in Porous Media, 2015, 107, 219-234.	2.6	19
62	Mixed Convection in an Inclined Channel Filled with Porous Material Having Time-Periodic Boundary Conditions: Steady-Periodic Regime. Transport in Porous Media, 2015, 109, 495-512.	2.6	10
63	Mixed convection flow in a vertical tube filled with porous material with time-periodic boundary condition: steady-periodic regime. Afrika Matematika, 2015, 26, 529-543.	0.8	8
64	Transient mixed convective flow of reactive viscous fluid in vertical tube. Afrika Matematika, 2015, 26, 99-114.	0.8	3
65	Mathematical modelling and exact solution of steady fully developed mixed convection flow in a vertical micro-porous-annulus. Afrika Matematika, 2015, 26, 1199-1213.	0.8	21
66	Mixed Convection Effect on Melting from a Vertical Plate Embedded in Porous Medium with Soret and Dufour Effects. Heat Transfer - Asian Research, 2014, 43, 667-676.	2.8	4
67	Time-dependent MHD Couette flow in a porous annulus. Communications in Nonlinear Science and Numerical Simulation, 2013, 18, 1959-1969.	3.3	11
68	Unsteady Natural Convection Couette Flow of a Reactive Viscous Fluid in a Vertical Channel. Computational Mathematics and Modeling, 2013, 24, 432-442.	0.5	5
69	Unsteady MHD two-phase Couette flow of fluid-particle suspension. Applied Mathematical Modelling, 2013, 37, 1920-1931.	4.2	20
70	Unsteady/Steady Natural Convection Flow of Reactive Viscous Fluid in a Vertical Annulus. International Journal of Applied Mechanics and Engineering, 2013, 18, 73-83.	0.7	2
71	Dufour and Soret Effects on Melting from a Vertical Plate Embedded in Saturated Porous Media. Journal of Applied Mathematics, 2013, 2013, 1-9.	0.9	3
72	Computational Treatment of MHD Transient Natural Convection Flow in a Vertical Channel Due to Symmetric Heating in Presence of Induced Magnetic Field. Journal of the Physical Society of Japan, 2013, 82, 084401.	1.6	16

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73	Unsteady hydromagnetic couette flow due to ramped motion of one of the porous plates. International Journal of Applied Mechanics and Engineering, 2013, 18, 1039-1056.	0.7	6
74	Effects of Transpiration on the MHD Flow near a Porous Plate Having Ramped Motion. Journal of the Physical Society of Japan, 2012, 81, 024401.	1.6	3
75	MHD Natural Convection Flow of Fluids of Different Prandtl Numbers in the Stokes Problem for a Vertical Porous Plate. Journal of the Physical Society of Japan, 2012, 81, 064401.	1.6	1
76	Unsteady/Steady Free Convective Couette Flow of Reactive Viscous Fluid in a Vertical Channel Formed by Two Vertical Porous Plates. ISRN Thermodynamics, 2012, 2012, 1-10.	0.6	5
77	Diffusion-Thermo Effects on Free Convective Heat and Mass Transfer Flow in a Vertical Channel With Symmetric Boundary Conditions. Journal of Heat Transfer, 2011, 133, .	2.1	13
78	Unsteady MHD two-phase Couette flow of fluid-particle suspension in an annulus. AIP Advances, 2011, 1, .	1.3	10
79	Hall and Ion-Slip Effects on Unsteady MHD Couette Flow in a Rotating System with Suction and Injection. Journal of the Physical Society of Japan, 2011, 80, 114401.	1.6	9
80	Time-dependent MHD Couette flow in a rotating system with suction/injection. ZAMM Zeitschrift Fur Angewandte Mathematik Und Mechanik, 2011, 91, 832-842.	1.6	5
81	Magnetohydrodynamic Free Convective Couette Flow With Suction and Injection. Journal of Heat Transfer, 2011, 133, .	2.1	18
82	Unsteady MHD Couette Flows in an Annuli: The Riemann-Sum Approximation Approach. Journal of the Physical Society of Japan, 2010, 79, 124403.	1.6	25
83	Free convective flow between vertical porous plates with periodic heat input. ZAMM Zeitschrift Fur Angewandte Mathematik Und Mechanik, 2010, 90, 185-193.	1.6	16
84	Transient pressure-driven flow in interface region between a uniform porous medium and a clear fluid in parallel-plate with suction/injection. International Journal of Management Science and Engineering Management, 2010, 5, 15-23.	3.1	0
85	Combined Effect of Hall and Ion-Slip Currents on Unsteady MHD Couette Flows in a Rotating System. Journal of the Physical Society of Japan, 2010, 79, 104401.	1.6	35
86	Analysis of Transient Buoyancy/Electroosmotic Driven Flow in a Vertical Microannulus with Velocity-Slip and Temperature-Jump. Engineering Science & Technology, 0, , 84-107.	0.3	3
87	Influence of ramped pressure gradient on transient flow formation in a horizontal porous channel. Heat Transfer, 0, , .	3.0	0
88	Impact of nonlinear thermal radiation on nonlinear mixed convection flow near a vertical porous plate with convective boundary condition. Proceedings of the Institution of Mechanical Engineers, Part E: Journal of Process Mechanical Engineering, 0, , 095440892110643.	2.5	5
89	Effect of chemical reaction, heat source/sink, and thermal diffusion on transient natural convection through a tube. Heat Transfer, 0, , .	3.0	0
90	Impact of asymmetric zeta-potential on natural convection flow in a vertical microannulus with electroosmotic and Joule heating effects. Proceedings of the Institution of Mechanical Engineers, Part N: Journal of Nanomaterials, Nanoengineering and Nanosystems, 0, , 239779142211039.	0.6	0