Gauri Shanker Seth

List of Publications by Year
in descending order

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Version: 2024-02-01

72 papers	1,696 citations	331670 21 h-index	345221 36 g-index
72 all docs	72 docs citations	72 times ranked	744 citing authors

#	Article	IF	Citations
1	Dynamics of heat absorbing and radiative hydromagnetic nanofluids through a stretching surface with chemical reaction and viscous dissipation. Proceedings of the Institution of Mechanical Engineers, Part E: Journal of Process Mechanical Engineering, 2024, 238, 101-111.	2.5	7
2	Heat transfer analysis on unsteady natural convection flow of silver nanofluid in a porous square cavity using local thermal non-equilibrium model. Indian Journal of Physics, 2022, 96, 2065-2078.	1.8	6
3	Analysis of Unsteady Magnetohydrodynamic 3-D Rotating Flow and Transfer of Heat in Carbon Nanotube-Water Nanofluid: An Engineering Application. Journal of Nanofluids, 2022, 11, 204-213.	2.7	7
4	Carbon nanotubes (CNTs)-based flow between two spinning discs with porous medium, Cattaneoâ€“Christov (non-Fourier) model and convective thermal condition. Journal of Thermal Analysis and Calorimetry, 2021, 146, 241-252.	3.6	24
5	Numerical Simulation of MHD Stagnation Point Flow of Micropolar Heat Generating and Dissipative Nanofluid : SLM Approach. Proceedings of the National Academy of Sciences India Section A - Physical Sciences, 2021, 91, 503-515.	1.2	6
6	A numerical simulation of mixed convective and arbitrarily oblique radiative stagnation point slip flow of a CNT-water MHD nanofluid. Journal of Thermal Analysis and Calorimetry, 2021, 143, 1901-1916.	3.6	21
7	Capturing the features of peristaltic transport of a chemically reacting couple stress fluid through an inclined asymmetric channel with Dufour and Soret effects in presence of inclined magnetic field. Indian Journal of Physics, 2021, 95, 2741-2758.	1.8	31
8	Soret and Dufour Effects on MHD Nonlinear Convective Flow of Tangent Hyperbolic Nanofluid Over a Bidirectional Stretching Sheet with Multiple Slips. Journal of Nanofluids, 2021, 10, 200-213.	2.7	28
9	Soret and Dufour Effects on Hydromagnetic Flow of H2O-Based Nanofluids Induced by an Exponentially Expanding Sheet Saturated in a Non-Darcian Porous Medium. Journal of Nanofluids, 2021, 10, 506-517.	2.7	10
10	Simulation of Cattaneoâ€“Christov heat flux on the flow of single and multi-walled carbon nanotubes between two stretchable coaxial rotating disks. Journal of Thermal Analysis and Calorimetry, 2020, 139, 1655-1670.	3.6	88
11	Outlining the impact of thermal radiation on micropolar nanofluid viscous dissipative flow: A spectral method based numerical simulation with regression analysis. AIP Conference Proceedings, 2020, , .	0.4	7
12	Steady MHD mixed convection flow of a viscoelastic fluid over a magnetized convectively heated vertical surface with Hall current and induced magnetic field effects. Heat Transfer, 2020, 49, 4370-4393.	3.0	25
13	Scrutiny of heat transfer and nanoparticle migration within a channel filled with nanofluid. Heat Transfer, 2020, 49, 2770-2788.	3.0	3
14	Features of Jeffrey fluid flow with Hall current: A spectral simulation. Pramana - Journal of Physics, 2020, 94, 1.	1.8	6
15	Three-dimensional magnetohydrodynamic flow of micropolar CNT-based nanofluid through a horizontal rotating channel: OHAM analysis. Indian Journal of Physics, 2020, 94, 319-332.	1.8	28
16	OUTLINING THE IMPACT OF RAMPED THERMAL AND SOLUTAL CONDITIONS ON MAGNETOHYDRODYNAMIC FREE CONVECTION ROTATING FLOW OF SECOND-GRADE FLUID. Journal of Porous Media, 2020, 23, 663-682.	1.9	7
17	Successive linearisation approach to analyse thermally radiative stagnation point micropolar nanofluid flow with regression model. Pramana - Journal of Physics, 2019, 93, 1.	1.8	5
18	Analysis of Electromagnetohydrodynamic Stagnation Point Flow of Nanofluid Over a Nonlinear Stretching Sheet with Variable Thickness. Journal of Mechanics, 2019, 35, 719-733.	1.4	14

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19	Regression model and successive linearization approach to analyse stagnation point micropolar nanofluid flow over a stretching sheet in a porous medium with nonlinear thermal radiation. Physica Scripta, 2019, 94, 115211.	2.5	34
20	Navierâ€™s Slip Effect on Mixed Convection Flow of Non-Newtonian Nanofluid: Buongiornoâ€™s Model with Passive Control Approach. International Journal of Applied and Computational Mathematics, 2019, 5, 1.	1.6	10
21	Entropy generation of von Karman's radiative flow with Al2O3 and Cu nanoparticles between two coaxial rotating disks: A finite-element analysis. European Physical Journal Plus, 2019, 134, 1.	2.6	33
22	MHD Mixed Convection Stagnation Point Flow of a Micropolar Nanofluid Adjacent to Stretching Sheet: A Revised Model with Successive Linearization Method. Journal of Nanofluids, 2019, 8, 620-630.	2.7	17
23	MHD stagnation point transient flow of a nanofluid past a stretching sheet: SRM approach. Latin American Applied Research, 2019, 49, 205-211.	0.4	3
24	MHD free convective heat transfer in a Walterâ€™s liquid-B fluid past a convectively heated stretching sheet with partial wall slip. Journal of the Brazilian Society of Mechanical Sciences and Engineering, 2018, 40, 1.	1.6	13
25	Modeling and analysis of mixed convection stagnation point flow of nanofluid towards a stretching surface: OHAM and FEM approach. Computational and Applied Mathematics, 2018, 37, 4081-4103.	1.3	17
26	Numerical Solution of Unsteady Free Convective Flow Past a Vertical Plate with Heat and Mass Fluxes Considering Chemical Reaction and Heat Absorption. Lecture Notes in Mechanical Engineering, 2018, , 341-353.	0.4	0
27	Capturing the Transient Behaviour of MHD Double-Diffusive Free Convection in Vertical Channel with Adiabatic and Isothermal Walls and Mass Inflow at Adiabatic Wall. Lecture Notes in Mechanical Engineering, 2018, , 397-409.	0.4	2
28	Radiation Effect on MHD Convective Flow of Nanofluids over an Exponentially Accelerated Moving Ramped Temperature Plate. Lecture Notes in Mechanical Engineering, 2018, , 31-43.	0.4	5
29	Free-Stream-Induced Unsteady MHD Flow with Hall Effect over Permeable Plate in a Rotating System. Lecture Notes in Mechanical Engineering, 2018, , 45-59.	0.4	1
30	Influence of Hall current and wall conductivity on hydromagnetic mixed convective flow in a rotating Darcian channel. Physics of Fluids, 2018, 30, .	4.0	48
31	Entropy generation in hydromagnetic nanofluid flow over a non-linear stretching sheet with Navierâ€™s velocity slip and convective heat transfer. Physics of Fluids, 2018, 30, 122003.	4.0	80
32	Double Diffusive Magnetohydrodynamic Natural Convection Flow of Brinkman Type Nanofluid with Diffusion-Thermo and Chemical Reaction Effects. Journal of Nanofluids, 2018, 7, 338-349.	2.7	20
33	Soret effect on transient magnetohydrodynamic nanofluid flow past a vertical plate through a porous medium with second order chemical reaction and thermal radiation. International Journal of Heat and Technology, 2018, 36, 1430-1437.	0.6	25
34	Double diffusive MHD Casson fluid flow in a non-Darcy porous medium with Newtonian heating and thermo-diffusion effects. International Journal of Heat and Technology, 2018, 36, 1517-1527.	0.6	53
35	Dual-phase-lag heat transfer model in hydromagnetic second grade flow through a microchannel filled with porous material: A time-bound analysis. Revue Des Composites Et Des Materiaux Avances, 2018, 28, 173-194.	0.6	6
36	GRAVITY-DRIVEN CONVECTIVE FLOW OF MAGNETITE-WATER NANOFLUID AND RADIATIVE HEAT TRANSFER PAST AN OSCILLATING VERTICAL PLATE IN THE PRESENCE OF MAGNETIC FIELD. Latin American Applied Research, 2018, 48, 7-13.	0.4	7

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37	Unsteady MHD natural convection flow with exponentially accelerated free-stream past a vertical plate in the presence of hall current and rotation. Rendiconti Del Circolo Matematico Di Palermo, 2017, 66, 263.	1.3	10
38	Analysis of hydromagnetic natural convection radiative flow of a viscoelastic nanofluid over a stretching sheet with Soret and Dufour effects. Engineering Computations, 2017, 34, 603-628.	1.4	38
39	Hydromagnetic thin film flow of Casson fluid in non-Darcy porous medium with Joule dissipation and Navierâ€™s partial slip. Applied Mathematics and Mechanics (English Edition), 2017, 38, 1613-1626.	3.6	37
40	Analysis of transient flow of MHD nanofluid past a non-linear stretching sheet considering Navierâ€™s slip boundary condition. Advanced Powder Technology, 2017, 28, 375-384.	4.1	68
41	MHD Double Diffusive Natural Convection Flow Over Exponentially Accelerated Inclined Plate. Journal of Mechanics, 2017, 33, 87-99.	1.4	14
42	Unsteady Hydromagnetic Natural Convection Flow Past a Vertical Plate with Time-Dependent Free Stream through a Porous Medium in the Presence of Hall Current, Rotation, and Heat Absorption. Journal of Aerospace Engineering, 2017, 30, .	1.4	15
43	Free convective heat transfer with hall effects, heat absorption and chemical reaction over an accelerated moving plate in a rotating system. Journal of Magnetism and Magnetic Materials, 2017, 422, 112-123.	2.3	87
44	MHD Double Diffusive Natural Convection Flow Over Exponentially Accelerated Inclined Plate. Journal of Mechanics, 2017, 33, 87-99.	1.4	5
45	HYDROMAGNETIC NATURAL CONVECTION FLOW IN A NON-DARCY MEDIUM WITH SORET AND DUFOUR EFFECTS PAST AN INCLINED STRETCHING SHEET. Journal of Porous Media, 2017, 20, 941-960.	1.9	12
46	Radiative Magneto-Nanofluid Over an Accelerated Moving Ramped Temperature Plate with Hall Effects. Journal of Nanofluids, 2017, 6, 840-851.	2.7	11
47	EFFECTS OF HALL CURRENT ON UNSTEADY MHD CONVECTIVE COUETTE FLOW OF HEAT ABSORBING FLUID DUE TO ACCELERATED MOVEMENT OF ONE OF THE PLATES OF THE CHANNEL IN A POROUS MEDIUM. Journal of Porous Media, 2016, 19, 13-30.	1.9	21
48	Soret and Hall effects on unsteady MHD free convection flow of radiating and chemically reactive fluid past a moving vertical plate with ramped temperature in rotating system. International Journal of Engineering, Science and Technology, 2016, 7, 94-108.	0.6	29
49	Unsteady MHD free convection flow with Hall effect of a radiating and heat absorbing fluid past a moving vertical plate with variable ramped temperature. Journal of the Egyptian Mathematical Society, 2016, 24, 471-478.	1.2	25
50	Combined Free and Forced Convection Couette-Hartmann Flow in a Rotating Channel with Arbitrary Conducting Walls and Hall Effects. Journal of Mechanics, 2016, 32, 613-629.	1.4	48
51	Hydromagnetic flow of heat absorbing and radiating fluid over exponentially stretching sheet with partial slip and viscous and Joule dissipation. Engineering Computations, 2016, 33, .	1.4	22
52	Effects of Hall current on unsteady hydromagnetic free convection flow past an impulsively moving vertical plate with Newtonian heating. International Journal of Applied Mechanics and Engineering, 2016, 21, 187-203.	0.7	4
53	Mixed convection hydromagnetic flow in a rotating channel with Hall and wall conductance effects. Applied Mathematical Modelling, 2016, 40, 2783-2803.	4.2	72
54	Hydromagnetic Convective Flow of Viscoelastic Nanofluid with Convective Boundary Condition Over an Inclined Stretching Sheet. Journal of Nanofluids, 2016, 5, 511-521.	2.7	16

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55	Oscillatory Hartmann Flow in a Rotating Channel with Magnetized Walls. Mathematical Sciences Letters, 2016, 5, 259-269.	0.6	9
56	MHD Natural Convection Heat and Mass Transfer Flow Past a Time Dependent Moving Vertical Plate with Ramped Temperature in a Rotating Medium with Hall Effects, Radiation and Chemical Reaction. Journal of Mechanics, 2015, 31, 91-104.	1.4	39
57	NATURAL CONVECTION FLOW PAST AN EXPONENTIALLY ACCELERATED VERTICAL RAMPED TEMPERATURE PLATE WITH HALL EFFECTS AND HEAT ABSORPTION. International Journal of Heat and Technology, 2015, 33, 139-144.	0.6	7
58	HYDROMAGNETIC NATURAL CONVECTION FLOW WITH RADIATIVE HEAT TRANSFER PAST AN ACCELERATED MOVING VERTICAL PLATE WITH RAMPED TEMPERATURE THROUGH A POROUS MEDIUM. Journal of Porous Media, 2014, 17, 67-79.	1.9	12
59	Effects of Hall current, radiation and rotation on natural convection heat and mass transfer flow past a moving vertical plate. Ain Shams Engineering Journal, 2014, 5, 489-503.	6.1	52
60	Hydromagnetic oscillatory Couette flow in rotating system with induced magnetic field. Applied Mathematics and Mechanics (English Edition), 2014, 35, 1331-1344.	3.6	8
61	Soret and Dufour effects on convective heat and mass transfer in stagnation-point flow towards a shrinking surface. Physica Scripta, 2014, 89, 095203.	2.5	34
62	Unsteady Hydromagnetic Natural Convection Flow of a Dusty Fluid Past an Impulsively Moving Vertical Plate With Ramped Temperature in the Presence of Thermal Radiation. Journal of Applied Mechanics, Transactions ASME, 2013, 80, .	2.2	54
63	EFFECTS OF HALL CURRENT AND ROTATION ON UNSTEADY HYDROMAGNETIC COUETTE FLOW WITHIN A POROUS CHANNEL. International Journal of Applied Mechanics, 2012, 04, 1250015.	2.2	15
64	Flow Induced by Torsional Oscillations of a Disk in a Rotating Visco-Elastic Fluid. International Journal of Computer Applications, 2012, 58, 18-21.	0.2	6
65	MHD natural convection flow with radiative heat transfer past an impulsively moving plate with ramped wall temperature. Heat and Mass Transfer, 2011, 47, 551-561.	2.1	116
66	Unsteady Hartmann flow in a rotating channel with arbitrary conducting walls. Mathematical and Computer Modelling, 2011, 54, 765-779.	2.0	12
67	Unsteady Hydromagnetic Couette Flow within Porous plates in a Rotating System. Advances in Applied Mathematics and Mechanics, 2010, 2, 286-302.	1.2	12
68	Unsteady hydromagnetic flow in a rotating channel in the presence of inclined magnetic field. International Journal of Engineering Science, 1986, 24, 1183-1193.	5.0	20
69	Unsteady hydromagnetic couette flow in a rotating system. International Journal of Engineering Science, 1982, 20, 989-999.	5.0	39
70	Unsteady hydromagnetic flow in a rotating channel with oscillating pressure gradient. Acta Mechanica, 1980, 37, 29-41.	2.1	19
71	On the geometry of nonequilibrium magneto gasdynamic flows. Flow, Turbulence and Combustion, 1977, 33, 259-267.	0.2	1
72	MHD FREE CONVECTIVE FLOW PAST AN IMPULSIVELY MOVING VERTICAL PLATE WITH RAMPED HEAT FLUX THROUGH POROUS MEDIUM IN THE PRESENCE OF INCLINED MAGNETIC FIELD. Frontiers in Heat and Mass Transfer, 0, 7, .	0.2	10