

# Gauri Shanker Seth

## List of Publications by Year in descending order

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72  
papers

1,696  
citations

331670

21  
h-index

345221

36  
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72  
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72  
docs citations

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times ranked

744  
citing authors

#	ARTICLE	IF	CITATIONS
1	MHD natural convection flow with radiative heat transfer past an impulsively moving plate with ramped wall temperature. <i>Heat and Mass Transfer</i> , 2011, 47, 551-561.	2.1	116
2	Simulation of Cattaneo-Christov heat flux on the flow of single and multi-walled carbon nanotubes between two stretchable coaxial rotating disks. <i>Journal of Thermal Analysis and Calorimetry</i> , 2020, 139, 1655-1670.	3.6	88
3	Free convective heat transfer with hall effects, heat absorption and chemical reaction over an accelerated moving plate in a rotating system. <i>Journal of Magnetism and Magnetic Materials</i> , 2017, 422, 112-123.	2.3	87
4	Entropy generation in hydromagnetic nanofluid flow over a non-linear stretching sheet with Navier's velocity slip and convective heat transfer. <i>Physics of Fluids</i> , 2018, 30, 122003.	4.0	80
5	Mixed convection hydromagnetic flow in a rotating channel with Hall and wall conductance effects. <i>Applied Mathematical Modelling</i> , 2016, 40, 2783-2803.	4.2	72
6	Analysis of transient flow of MHD nanofluid past a non-linear stretching sheet considering Navier's slip boundary condition. <i>Advanced Powder Technology</i> , 2017, 28, 375-384.	4.1	68
7	Unsteady Hydromagnetic Natural Convection Flow of a Dusty Fluid Past an Impulsively Moving Vertical Plate With Ramped Temperature in the Presence of Thermal Radiation. <i>Journal of Applied Mechanics, Transactions ASME</i> , 2013, 80, .	2.2	54
8	Double diffusive MHD Casson fluid flow in a non-Darcy porous medium with Newtonian heating and thermo-diffusion effects. <i>International Journal of Heat and Technology</i> , 2018, 36, 1517-1527.	0.6	53
9	Effects of Hall current, radiation and rotation on natural convection heat and mass transfer flow past a moving vertical plate. <i>Ain Shams Engineering Journal</i> , 2014, 5, 489-503.	6.1	52
10	Combined Free and Forced Convection Couette-Hartmann Flow in a Rotating Channel with Arbitrary Conducting Walls and Hall Effects. <i>Journal of Mechanics</i> , 2016, 32, 613-629.	1.4	48
11	Influence of Hall current and wall conductivity on hydromagnetic mixed convective flow in a rotating Darcian channel. <i>Physics of Fluids</i> , 2018, 30, .	4.0	48
12	Unsteady hydromagnetic couette flow in a rotating system. <i>International Journal of Engineering Science</i> , 1982, 20, 989-999.	5.0	39
13	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. <i>Journal of Mechanics</i> , 2015, 31, 91-104.	1.4	39
14	Analysis of hydromagnetic natural convection radiative flow of a viscoelastic nanofluid over a stretching sheet with Soret and Dufour effects. <i>Engineering Computations</i> , 2017, 34, 603-628.	1.4	38
15	Hydromagnetic thin film flow of Casson fluid in non-Darcy porous medium with Joule dissipation and Navier's partial slip. <i>Applied Mathematics and Mechanics (English Edition)</i> , 2017, 38, 1613-1626.	3.6	37
16	Soret and Dufour effects on convective heat and mass transfer in stagnation-point flow towards a shrinking surface. <i>Physica Scripta</i> , 2014, 89, 095203.	2.5	34
17	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. <i>Physica Scripta</i> , 2019, 94, 115211.	2.5	34
18	Entropy generation of von Karman's radiative flow with Al <sub>2</sub> O <sub>3</sub> and Cu nanoparticles between two coaxial rotating disks: A finite-element analysis. <i>European Physical Journal Plus</i> , 2019, 134, 1.	2.6	33

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19	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. <i>Indian Journal of Physics</i> , 2021, 95, 2741-2758.	1.8	31
20	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. <i>International Journal of Engineering, Science and Technology</i> , 2016, 7, 94-108.	0.6	29
21	Soret and Dufour Effects on MHD Nonlinear Convective Flow of Tangent Hyperbolic Nanofluid Over a Bidirectional Stretching Sheet with Multiple Slips. <i>Journal of Nanofluids</i> , 2021, 10, 200-213.	2.7	28
22	Three-dimensional magnetohydrodynamic flow of micropolar CNT-based nanofluid through a horizontal rotating channel: OHAM analysis. <i>Indian Journal of Physics</i> , 2020, 94, 319-332.	1.8	28
23	Unsteady MHD free convection flow with Hall effect of a radiating and heat absorbing fluid past a moving vertical plate with variable ramped temperature. <i>Journal of the Egyptian Mathematical Society</i> , 2016, 24, 471-478.	1.2	25
24	Steady MHD mixed convection flow of a viscoelastic fluid over a magnetized convectively heated vertical surface with Hall current and induced magnetic field effects. <i>Heat Transfer</i> , 2020, 49, 4370-4393.	3.0	25
25	Soret effect on transient magnetohydrodynamic nanofluid flow past a vertical plate through a porous medium with second order chemical reaction and thermal radiation. <i>International Journal of Heat and Technology</i> , 2018, 36, 1430-1437.	0.6	25
26	Carbon nanotubes (CNTs)-based flow between two spinning discs with porous medium, Cattaneo-Christov (non-Fourier) model and convective thermal condition. <i>Journal of Thermal Analysis and Calorimetry</i> , 2021, 146, 241-252.	3.6	24
27	Hydromagnetic flow of heat absorbing and radiating fluid over exponentially stretching sheet with partial slip and viscous and Joule dissipation. <i>Engineering Computations</i> , 2016, 33, .	1.4	22
28	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. <i>Journal of Porous Media</i> , 2016, 19, 13-30.	1.9	21
29	A numerical simulation of mixed convective and arbitrarily oblique radiative stagnation point slip flow of a CNT-water MHD nanofluid. <i>Journal of Thermal Analysis and Calorimetry</i> , 2021, 143, 1901-1916.	3.6	21
30	Unsteady hydromagnetic flow in a rotating channel in the presence of inclined magnetic field. <i>International Journal of Engineering Science</i> , 1986, 24, 1183-1193.	5.0	20
31	Double Diffusive Magnetohydrodynamic Natural Convection Flow of Brinkman Type Nanofluid with Diffusion-Thermo and Chemical Reaction Effects. <i>Journal of Nanofluids</i> , 2018, 7, 338-349.	2.7	20
32	Unsteady hydromagnetic flow in a rotating channel with oscillating pressure gradient. <i>Acta Mechanica</i> , 1980, 37, 29-41.	2.1	19
33	Modeling and analysis of mixed convection stagnation point flow of nanofluid towards a stretching surface: OHAM and FEM approach. <i>Computational and Applied Mathematics</i> , 2018, 37, 4081-4103.	1.3	17
34	MHD Mixed Convection Stagnation Point Flow of a Micropolar Nanofluid Adjacent to Stretching Sheet: A Revised Model with Successive Linearization Method. <i>Journal of Nanofluids</i> , 2019, 8, 620-630.	2.7	17
35	Hydromagnetic Convective Flow of Viscoelastic Nanofluid with Convective Boundary Condition Over an Inclined Stretching Sheet. <i>Journal of Nanofluids</i> , 2016, 5, 511-521.	2.7	16
36	EFFECTS OF HALL CURRENT AND ROTATION ON UNSTEADY HYDROMAGNETIC COUETTE FLOW WITHIN A POROUS CHANNEL. <i>International Journal of Applied Mechanics</i> , 2012, 04, 1250015.	2.2	15

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37	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. <i>Journal of Aerospace Engineering</i> , 2017, 30, .	1.4	15
38	MHD Double Diffusive Natural Convection Flow Over Exponentially Accelerated Inclined Plate. <i>Journal of Mechanics</i> , 2017, 33, 87-99.	1.4	14
39	Analysis of Electromagnetohydrodynamic Stagnation Point Flow of Nanofluid Over a Nonlinear Stretching Sheet with Variable Thickness. <i>Journal of Mechanics</i> , 2019, 35, 719-733.	1.4	14
40	MHD free convective heat transfer in a Walter's liquid-B fluid past a convectively heated stretching sheet with partial wall slip. <i>Journal of the Brazilian Society of Mechanical Sciences and Engineering</i> , 2018, 40, 1.	1.6	13
41	Unsteady Hartmann flow in a rotating channel with arbitrary conducting walls. <i>Mathematical and Computer Modelling</i> , 2011, 54, 765-779.	2.0	12
42	HYDROMAGNETIC NATURAL CONVECTION FLOW WITH RADIATIVE HEAT TRANSFER PAST AN ACCELERATED MOVING VERTICAL PLATE WITH RAMPED TEMPERATURE THROUGH A POROUS MEDIUM. <i>Journal of Porous Media</i> , 2014, 17, 67-79.	1.9	12
43	HYDROMAGNETIC NATURAL CONVECTION FLOW IN A NON-DARCY MEDIUM WITH SORET AND DUFOUR EFFECTS PAST AN INCLINED STRETCHING SHEET. <i>Journal of Porous Media</i> , 2017, 20, 941-960.	1.9	12
44	Unsteady Hydromagnetic Couette Flow within Porous plates in a Rotating System. <i>Advances in Applied Mathematics and Mechanics</i> , 2010, 2, 286-302.	1.2	12
45	Radiative Magneto-Nanofluid Over an Accelerated Moving Ramped Temperature Plate with Hall Effects. <i>Journal of Nanofluids</i> , 2017, 6, 840-851.	2.7	11
46	Unsteady MHD natural convection flow with exponentially accelerated free-stream past a vertical plate in the presence of hall current and rotation. <i>Rendiconti Del Circolo Matematico Di Palermo</i> , 2017, 66, 263.	1.3	10
47	Navier's Slip Effect on Mixed Convection Flow of Non-Newtonian Nanofluid: Buongiorno's Model with Passive Control Approach. <i>International Journal of Applied and Computational Mathematics</i> , 2019, 5, 1.	1.6	10
48	MHD FREE CONVECTIVE FLOW PAST AN IMPULSIVELY MOVING VERTICAL PLATE WITH RAMPED HEAT FLUX THROUGH POROUS MEDIUM IN THE PRESENCE OF INCLINED MAGNETIC FIELD. <i>Frontiers in Heat and Mass Transfer</i> , 0, 7, .	0.2	10
49	Soret and Dufour Effects on Hydromagnetic Flow of H <sub>2</sub> O-Based Nanofluids Induced by an Exponentially Expanding Sheet Saturated in a Non-Darcian Porous Medium. <i>Journal of Nanofluids</i> , 2021, 10, 506-517.	2.7	10
50	Oscillatory Hartmann Flow in a Rotating Channel with Magnetized Walls. <i>Mathematical Sciences Letters</i> , 2016, 5, 259-269.	0.6	9
51	Hydromagnetic oscillatory Couette flow in rotating system with induced magnetic field. <i>Applied Mathematics and Mechanics (English Edition)</i> , 2014, 35, 1331-1344.	3.6	8
52	Outlining the impact of thermal radiation on micropolar nanofluid viscous dissipative flow: A spectral method based numerical simulation with regression analysis. <i>AIP Conference Proceedings</i> , 2020, , .	0.4	7
53	OUTLINING THE IMPACT OF RAMPED THERMAL AND SOLUTAL CONDITIONS ON MAGNETOHYDRODYNAMIC FREE CONVECTION ROTATING FLOW OF SECOND-GRADE FLUID. <i>Journal of Porous Media</i> , 2020, 23, 663-682.	1.9	7
54	NATURAL CONVECTION FLOW PAST AN EXPONENTIALLY ACCELERATED VERTICAL RAMPED TEMPERATURE PLATE WITH HALL EFFECTS AND HEAT ABSORPTION. <i>International Journal of Heat and Technology</i> , 2015, 33, 139-144.	0.6	7

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55	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
56	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
57	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
58	Features of Jeffrey fluid flow with Hall current: A spectral simulation. Pramana - Journal of Physics, 2020, 94, 1.	1.8	6
59	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
60	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
61	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
62	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
63	MHD Double Diffusive Natural Convection Flow Over Exponentially Accelerated Inclined Plate. Journal of Mechanics, 2017, 33, 87-99.	1.4	5
64	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
65	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
66	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
67	Scrutiny of heat transfer and nanoparticle migration within a channel filled with nanofluid. Heat Transfer, 2020, 49, 2770-2788.	3.0	3
68	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
69	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
70	On the geometry of nonequilibrium magneto gasdynamic flows. Flow, Turbulence and Combustion, 1977, 33, 259-267.	0.2	1
71	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
72	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