

# Kohilavani Naganthran

## List of Publications by Year in descending order

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59  
papers

1,288  
citations

394421

19  
h-index

434195

31  
g-index

59  
all docs

59  
docs citations

59  
times ranked

512  
citing authors

#	ARTICLE	IF	CITATIONS
1	MHD mixed convection stagnation-point flow of Cu-Al <sub>2</sub> O <sub>3</sub> /water hybrid nanofluid over a permeable stretching/shrinking surface with heat source/sink. <i>European Journal of Mechanics, B/Fluids</i> , 2020, 84, 71-80.	2.5	106
2	MHD mixed convection stagnation point flow of a hybrid nanofluid past a vertical flat plate with convective boundary condition. <i>Chinese Journal of Physics</i> , 2020, 66, 630-644.	3.9	101
3	MHD flow and heat transfer of hybrid nanofluid over a permeable moving surface in the presence of thermal radiation. <i>International Journal of Numerical Methods for Heat and Fluid Flow</i> , 2021, 31, 858-879.	2.8	83
4	Stability analysis of MHD hybrid nanofluid flow over a stretching/shrinking sheet with quadratic velocity. <i>AEJ - Alexandria Engineering Journal</i> , 2021, 60, 915-926.	6.4	77
5	Heat generation/absorption effect on MHD flow of hybrid nanofluid over bidirectional exponential stretching/shrinking sheet. <i>Chinese Journal of Physics</i> , 2021, 69, 118-133.	3.9	69
6	Unsteady Three-Dimensional MHD Non-Axisymmetric Homann Stagnation Point Flow of a Hybrid Nanofluid with Stability Analysis. <i>Mathematics</i> , 2020, 8, 784.	2.2	49
7	Unsteady EMHD stagnation point flow over a stretching/shrinking sheet in a hybrid Al <sub>2</sub> O <sub>3</sub> -Cu/H <sub>2</sub> O nanofluid. <i>International Communications in Heat and Mass Transfer</i> , 2021, 123, 105205.	5.6	46
8	Unsteady stagnation-point flow and heat transfer of a special third grade fluid past a permeable stretching/shrinking sheet. <i>Scientific Reports</i> , 2016, 6, 24632.	3.3	42
9	Unsteady Stagnation Point Flow of Hybrid Nanofluid Past a Convectively Heated Stretching/Shrinking Sheet with Velocity Slip. <i>Mathematics</i> , 2020, 8, 1649.	2.2	42
10	Thermal Radiation and MHD Effects in the Mixed Convection Flow of Fe <sub>3</sub> O <sub>4</sub> –Water Ferrofluid towards a Nonlinearly Moving Surface. <i>Processes</i> , 2020, 8, 95.	2.8	39
11	Viscous dissipation and MHD hybrid nanofluid flow towards an exponentially stretching/shrinking surface. <i>Neural Computing and Applications</i> , 2021, 33, 11285-11295.	5.6	36
12	Scaling group analysis of bioconvective micropolar fluid flow and heat transfer in a porous medium. <i>Journal of Thermal Analysis and Calorimetry</i> , 2021, 143, 1943-1955.	3.6	31
13	Unsteady MHD hybrid nanofluid flow towards a horizontal cylinder. <i>International Communications in Heat and Mass Transfer</i> , 2022, 134, 106020.	5.6	29
14	Dual solutions for fluid flow over a stretching/shrinking rotating disk subject to variable fluid properties. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2020, 556, 124773.	2.6	26
15	Stability analysis of unsteady stagnation-point gyrotactic bioconvection flow and heat transfer towards the moving sheet in a nanofluid. <i>Chinese Journal of Physics</i> , 2020, 65, 538-553.	3.9	26
16	Unsteady MHD rear stagnation-point flow over off-centred deformable surfaces. <i>International Journal of Numerical Methods for Heat and Fluid Flow</i> , 2017, 27, 1554-1570.	2.8	24
17	Stability analysis of impinging oblique stagnation-point flow over a permeable shrinking surface in a viscoelastic fluid. <i>International Journal of Mechanical Sciences</i> , 2017, 131-132, 663-671.	6.7	23
18	Entropy generation analysis for radiative heat transfer to Bäcklund slip flow subject to strong wall suction. <i>European Journal of Mechanics, B/Fluids</i> , 2018, 72, 179-188.	2.5	23

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19	Magnetic Impact on the Unsteady Separated Stagnation-Point Flow of Hybrid Nanofluid with Viscous Dissipation and Joule Heating. <i>Mathematics</i> , 2022, 10, 2356.	2.2	23
20	Non-uniqueness solutions for the thin Carreau film flow and heat transfer over an unsteady stretching sheet. <i>International Communications in Heat and Mass Transfer</i> , 2020, 117, 104776.	5.6	22
21	Mixed convection hybrid nanofluid flow over an exponentially accelerating surface in a porous media. <i>Neural Computing and Applications</i> , 2021, 33, 15719-15729.	5.6	20
22	Unsteady flow of a Maxwell hybrid nanofluid past a stretching/shrinking surface with thermal radiation effect. <i>Applied Mathematics and Mechanics (English Edition)</i> , 2021, 42, 1511-1524.	3.6	20
23	Slip effects on unsteady mixed convection of hybrid nanofluid flow near the stagnation point. <i>Applied Mathematics and Mechanics (English Edition)</i> , 2022, 43, 547-556.	3.6	19
24	Numerical study of conjugate natural convection heat transfer of a blood filled horizontal concentric annulus. <i>International Communications in Heat and Mass Transfer</i> , 2020, 114, 104568.	5.6	18
25	Unsteady MHD Mixed Convection Flow in Hybrid Nanofluid at Three-Dimensional Stagnation Point. <i>Mathematics</i> , 2021, 9, 549.	2.2	18
26	The effect of vertical throughflow on the boundary layer flow of a nanofluid past a stretching/shrinking sheet. <i>International Journal of Numerical Methods for Heat and Fluid Flow</i> , 2017, 27, 1910-1927.	2.8	17
27	Flow and heat transfer over a permeable moving wedge in a hybrid nanofluid with activation energy and binary chemical reaction. <i>International Journal of Numerical Methods for Heat and Fluid Flow</i> , 2022, 32, 1686-1705.	2.8	17
28	A study on non-Newtonian transport phenomena in a mixed convection stagnation point flow with numerical simulation and stability analysis. <i>European Physical Journal Plus</i> , 2019, 134, 1.	2.6	16
29	Radiative MHD Sutterby Nanofluid Flow Past a Moving Sheet: Scaling Group Analysis. <i>Mathematics</i> , 2020, 8, 1430.	2.2	16
30	Impact of anisotropic slip on the stagnation-point flow past a stretching/shrinking surface of the $Al_2O_3-Cu/H_2O$ hybrid nanofluid. <i>Applied Mathematics and Mechanics (English Edition)</i> , 2020, 41, 1401-1416.	3.6	14
31	Unsteady MHD stagnation point flow induced by exponentially permeable stretching/shrinking sheet of hybrid nanofluid. <i>Engineering Science and Technology, an International Journal</i> , 2021, 24, 1201-1210.	3.2	14
32	Unsteady stagnation point flow past a permeable stretching/shrinking Riga plate in $Al_2O_3-Cu/H_2O$ hybrid nanofluid with thermal radiation. <i>International Journal of Numerical Methods for Heat and Fluid Flow</i> , 2022, 32, 2640-2658.	2.8	14
33	Exploration of dilatant nanofluid effects conveying microorganism utilizing scaling group analysis: FDM Blottner. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2020, 549, 124040.	2.6	13
34	Stagnation Point Flow with Time-Dependent Bionanofluid Past a Sheet: Richardson Extrapolation Technique. <i>Processes</i> , 2019, 7, 722.	2.8	11
35	Effects of heat generation/absorption in the Jeffrey fluid past a permeable stretching/shrinking disc. <i>Journal of the Brazilian Society of Mechanical Sciences and Engineering</i> , 2019, 41, 1.	1.6	11
36	Triple Solutions of Carreau Thin Film Flow with Thermocapillarity and Injection on an Unsteady Stretching Sheet. <i>Energies</i> , 2020, 13, 3177.	3.1	10

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37	Effects of Thermal Radiation on Mixed Convection Flow over a Permeable Vertical Shrinking Flat Plate in an Oldroyd-B Fluid. <i>Sains Malaysiana</i> , 2018, 47, 1069-1076.	0.5	10
38	Entropy Analysis and Melting Heat Transfer in the Carreau Thin Hybrid Nanofluid Film Flow. <i>Mathematics</i> , 2021, 9, 3092.	2.2	10
39	The Impact of Thermal Radiation on Maxwell Hybrid Nanofluids in the Stagnation Region. <i>Nanomaterials</i> , 2022, 12, 1109.	4.1	10
40	Unsteady nano-bioconvective channel flow with effect of nth order chemical reaction. <i>Open Physics</i> , 2020, 18, 1011-1024.	1.7	9
41	Concentration Flux Dependent on Radiative MHD Casson Flow with Arrhenius Activation Energy: Homotopy Analysis Method (HAM) with an Evolutionary Algorithm. <i>International Journal of Heat and Technology</i> , 2020, 38, 785-793.	0.6	9
42	Stability Analysis of Unsteady MHD Rear Stagnation Point Flow of Hybrid Nanofluid. <i>Mathematics</i> , 2021, 9, 2428.	2.2	9
43	Dusty ferrofluid transport phenomena towards a non-isothermal moving surface with viscous dissipation. <i>Chinese Journal of Physics</i> , 2022, 75, 139-151.	3.9	9
44	MHD mixed convection boundary layer stagnation-point flow on a vertical surface with induced magnetic field. <i>International Journal of Numerical Methods for Heat and Fluid Flow</i> , 2020, 30, 4697-4710.	2.8	7
45	Effects of Magnetic Fields, Coupled Stefan Blowing and Thermodiffusion on Ferrofluid Transport Phenomena. <i>Mathematics</i> , 2022, 10, 1646.	2.2	7
46	Stability Analysis of Unsteady Hybrid Nanofluid Flow over the Falkner-Skan Wedge. <i>Nanomaterials</i> , 2022, 12, 1771.	4.1	7
47	Role of fluid-structure interaction in free convection in square open cavity with double flexible oscillating fins. <i>AEJ - Alexandria Engineering Journal</i> , 2022, 61, 1217-1234.	6.4	6
48	Stagnation-point flow of a nanofluid past a stretching/shrinking sheet with heat generation/absorption and convective boundary conditions. <i>AIP Conference Proceedings</i> , 2016, , .	0.4	4
49	Dual solutions of MHD stagnation-point flow and heat transfer past a stretching/shrinking sheet in a porous medium. , 2017, , .		4
50	Dual solutions of three-dimensional flow and heat transfer over a non-linearly stretching/shrinking sheet. <i>Indian Journal of Physics</i> , 2018, 92, 637-645.	1.8	4
51	Unsteady mixed convection flow at a three-dimensional stagnation point. <i>International Journal of Numerical Methods for Heat and Fluid Flow</i> , 2021, 31, 236-250.	2.8	4
52	Effect of suction on the MHD fluid flow past a non-linearly stretching/shrinking sheet: Dual solutions. <i>Journal of Physics: Conference Series</i> , 2019, 1366, 012027.	0.4	3
53	Mixed bioconvection stagnation point flow towards a vertical plate in alumina-copper/water. <i>International Journal of Numerical Methods for Heat and Fluid Flow</i> , 2022, 32, 3413-3438.	2.8	3
54	Unsteady Boundary Layer Flow of a Casson Fluid past a Permeable Stretching/Shrinking Sheet: Paired Solutions and Stability Analysis. <i>Journal of Physics: Conference Series</i> , 2019, 1212, 012028.	0.4	2

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55	Effects of thermal radiation and slip on unsteady stagnation-point flow and heat transfer past a permeable shrinking sheet: A stability analysis. AIP Conference Proceedings, 2019, , .	0.4	2
56	Unsteady Separated Stagnation-Point Flow Past a Moving Plate with Suction Effect in Hybrid Nanofluid. Mathematics, 2022, 10, 1933.	2.2	2
57	Stability analysis of MHD stagnation-point flow towards a permeable stretching/shrinking surface in a Carreau fluid. AIP Conference Proceedings, 2016, , .	0.4	1
58	Numerical solutions of MHD stagnation-point flow and heat transfer past a stretching/shrinking sheet with chemical reaction and transpiration. AIP Conference Proceedings, 2017, , .	0.4	1
59	Unsteady Transport Phenomena of Hybrid Al <sub>2</sub> O <sub>3</sub> -Cu/H <sub>2</sub> O Nanofluid Past a Shrinking Slender Cylinder. Sains Malaysiana, 2021, 50, 3753-3764.	0.5	0