Maria Imtiaz

List of Publications by Year in descending order

73 papers	3,113 citations	126907 33 h-index	168389 53 g-index
73 all docs	73 docs citations	73 times ranked	1054 citing authors

#	Article	IF	Citations
1	MHD three-dimensional flow of nanofluid with velocity slip and nonlinear thermal radiation. Journal of Magnetism and Magnetic Materials, 2015, 396, 31-37.	2.3	193
2	Convective flow of carbon nanotubes between rotating stretchable disks with thermal radiation effects. International Journal of Heat and Mass Transfer, 2016, 101, 948-957.	4.8	164
3	Comparative study of silver and copper water nanofluids with mixed convection and nonlinear thermal radiation. International Journal of Heat and Mass Transfer, 2016, 102, 723-732.	4.8	152
4	On Cattaneoâ€“Christov heat flux in MHD flow of Oldroyd-B fluid with homogeneousâ€“heterogeneous reactions. Journal of Magnetism and Magnetic Materials, 2016, 401, 296-303.	2.3	131
5	Nanofluid flow due to rotating disk with variable thickness and homogeneous-heterogeneous reactions. International Journal of Heat and Mass Transfer, 2017, 113, 96-105.	4.8	99
6	Magnetohydrodynamic (MHD) flow of Cu-water nanofluid due to a rotating disk with partial slip. AIP Advances, 2015, 5, .	1.3	98
7	Unsteady flow of nanofluid with double stratification and magnetohydrodynamics. International Journal of Heat and Mass Transfer, 2016, 92, 100-109.	4.8	89
8	Impact of magnetohydrodynamics in bidirectional flow of nanofluid subject to second order slip velocity and homogeneousâ€“heterogeneous reactions. Journal of Magnetism and Magnetic Materials, 2015, 395, 294-302.	2.3	85
9	Homogeneous-heterogeneous reactions in MHD flow due to an unsteady curved stretching surface. Journal of Molecular Liquids, 2016, 221, 245-253.	4.9	84
10	Impact of Cattaneo-Christov Heat Flux in Jeffrey Fluid Flow with Homogeneous-Heterogeneous Reactions. PLoS ONE, 2016, 11, e0148662.	2.5	83
11	Ferrofluid flow by a stretched surface in the presence of magnetic dipole and homogeneous-heterogeneous reactions. Journal of Molecular Liquids, 2016, 223, 1000-1005.	4.9	82
12	Flow between two stretchable rotating disks with Cattaneo-Christov heat flux model. Results in Physics, 2017, 7, 126-133.	4.1	77
13	Three-dimensional rotating flow of Jeffrey fluid for Cattaneo-Christov heat flux model. AIP Advances, 2016, 6, .	1.3	76
14	MHD convective flow due to a curved surface with thermal radiation and chemical reaction. Journal of Molecular Liquids, 2017, 225, 482-489.	4.9	74
15	Similarity transformation approach for ferromagnetic mixed convection flow in the presence of chemically reactive magnetic dipole. Physics of Fluids, 2016, 28, .	4.0	71
16	Mixed radiated magneto Casson fluid flow with Arrhenius activation energy and Newtonian heating effects: Flow and sensitivity analysis. AEJ - Alexandria Engineering Journal, 2020, 59, 3991-4011.	6.4	69
17	Convective flow of ferrofluid due to a curved stretching surface with homogeneous-heterogeneous reactions. Powder Technology, 2017, 310, 154-162.	4.2	68
18	Partial slip effect in flow of magnetite-Fe3O4 nanoparticles between rotating stretchable disks. Journal of Magnetism and Magnetic Materials, 2016, 413, 39-48.	2.3	66

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19	Mixed convection flow of Casson nanofluid over a stretching cylinder with convective boundary conditions. Advanced Powder Technology, 2016, 27, 2245-2256.	4.1	66
20	MHD 3D flow of nanofluid in presence of convective conditions. Journal of Molecular Liquids, 2015, 212, 203-208.	4.9	65
21	Melting heat transfer in the MHD flow of Cuâ€“water nanofluid with viscous dissipation and Joule heating. Advanced Powder Technology, 2016, 27, 1301-1308.	4.1	58
22	Homogeneous-heterogeneous reactions in MHD radiative flow of second grade fluid due to a curved stretching surface. International Journal of Heat and Mass Transfer, 2019, 145, 118781.	4.8	57
23	Effects of homogeneousâ€“heterogeneous reactions in flow of magnetite-Fe3O4 nanoparticles by a rotating disk. Journal of Molecular Liquids, 2016, 216, 845-855.	4.9	55
24	MHD Convective Flow of Jeffrey Fluid Due to a Curved Stretching Surface with Homogeneous-Heterogeneous Reactions. PLoS ONE, 2016, 11, e0161641.	2.5	55
25	Radiative flow due to stretchable rotating disk with variable thickness. Results in Physics, 2017, 7, 156-165.	4.1	53
26	Squeezing flow past a Riga plate with chemical reaction and convective conditions. Journal of Molecular Liquids, 2017, 225, 569-576.	4.9	52
27	Convective flow of Jeffrey nanofluid due to two stretchable rotating disks. Journal of Molecular Liquids, 2017, 240, 291-302.	4.9	43
28	MHD Flow and Heat Transfer between Coaxial Rotating Stretchable Disks in a Thermally Stratified Medium. PLoS ONE, 2016, 11, e0155899.	2.5	39
29	Impact of chemical reaction on third grade fluid flow with Cattaneo-Christov heat flux. Journal of Molecular Liquids, 2017, 229, 501-507.	4.9	37
30	Effects of homogeneous-heterogeneous reactions in flow of Powell-Eyring fluid. Journal of Central South University, 2015, 22, 3211-3216.	3.0	36
31	Flow of magneto nanofluid by a radiative exponentially stretching surface with dissipation effect. Advanced Powder Technology, 2016, 27, 2214-2222.	4.1	35
32	Slip flow by a variable thickness rotating disk subject to magnetohydrodynamics. Results in Physics, 2017, 7, 503-509.	4.1	35
33	Axisymmetric squeezing flow of third grade fluid in presence of convective conditions. Chinese Journal of Physics, 2017, 55, 738-754.	3.9	34
34	Boundary layer flow of Oldroyd-B fluid by exponentially stretching sheet. Applied Mathematics and Mechanics (English Edition), 2016, 37, 573-582.	3.6	33
35	Analysis of radiation in a suspension of nanoparticles and gyrotactic microorganism for rotating disk of variable thickness. Chinese Journal of Physics, 2018, 56, 2404-2423.	3.9	33
36	Melting heat transfer in Cu-water and Ag-water nanofluids flow with homogeneous-heterogeneous reactions. Applied Mathematics and Mechanics (English Edition), 2019, 40, 465-480.	3.6	33

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37	Mixed convection flow of nanofluid with Newtonian heating. European Physical Journal Plus, 2014, 129, 1.	2.6	32
38	Hydromagnetic mixed convection flow of copper and silver water nanofluids due to a curved stretching sheet. Results in Physics, 2016, 6, 904-910.	4.1	32
39	Effect of Cattaneo-Christov heat flux on Jeffrey fluid flow with variable thermal conductivity. Results in Physics, 2018, 8, 341-351.	4.1	32
40	Impact of melting phenomenon in the Falknerâ€“Skan wedge flow of second grade nanofluid: A revised model. Journal of Molecular Liquids, 2016, 215, 664-670.	4.9	28
41	MHD effects on a thermo-solutal stratified nanofluid flow on an exponentially radiating stretching sheet. Journal of Applied Mechanics and Technical Physics, 2017, 58, 214-223.	0.5	27
42	Heat and Mass Transfer Analysis in the Stagnation Region of Maxwell Fluid With Chemical Reaction Over a Stretched Surface. Journal of Thermal Science and Engineering Applications, 2018, 10, .	1.5	27
43	Partial slip effects in flow over nonlinear stretching surface. Applied Mathematics and Mechanics (English Edition), 2015, 36, 1513-1526.	3.6	26
44	Unsteady Convective Boundary Layer Flow of Maxwell Fluid with Nonlinear Thermal Radiation: A Numerical Study. International Journal of Nonlinear Sciences and Numerical Simulation, 2016, 17, 221-229.	1.0	26
45	Soret and Dufour effects in the flow of viscous fluid by a curved stretching surface. Pramana - Journal of Physics, 2020, 94, 1.	1.8	25
46	Modeling and analysis for three-dimensional flow with homogeneous-heterogeneous reactions. AIP Advances, 2015, 5, 107209.	1.3	23
47	Darcy-Forchheimer flows of copper and silver water nanofluids between two rotating stretchable disks. Applied Mathematics and Mechanics (English Edition), 2017, 38, 1663-1678.	3.6	23
48	Magnetohydrodynamic (MHD) stretched flow of nanofluid with power-law velocity and chemical reaction. AIP Advances, 2015, 5, .	1.3	22
49	Unsteady flow of carbon nanotubes with chemical reaction and Cattaneo-Christov heat flux model. Results in Physics, 2017, 7, 823-831.	4.1	21
50	Homogeneous-heterogeneous reactions in nonlinear radiative flow of Jeffrey fluid between two stretchable rotating disks. Results in Physics, 2017, 7, 2557-2567.	4.1	19
51	Double stratification in the MHD flow of a nanofluid due to a rotating disk with variable thickness. European Physical Journal Plus, 2017, 132, 1.	2.6	16
52	Magnetohydrodynamic Stagnation Point Flow of a Jeffrey Nanofluid with Newtonian Heating. Journal of Aerospace Engineering, 2016, 29, .	1.4	15
53	Radiative Falkner-Skan flow of Walter-B fluid with prescribed surface heat flux. Journal of Theoretical and Applied Mechanics, 0, , 117.	0.5	15
54	Bidirectional rotating flow of nanofluid over a variable thickened stretching sheet with non-Fourierâ€™s heat flux and non-Fickâ€™s mass flux theory. PLoS ONE, 2022, 17, e0265443.	2.5	14

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55	Features of Cattaneoâ€Christov heat flux model for Stagnation point flow of a Jeffrey fluid impinging over a stretching sheet: A numerical study. Heat Transfer, 2020, 49, 2706-2716.	3.0	13
56	Double Stratification in Flow by Curved Stretching Sheet With Thermal Radiation and Joule Heating. Journal of Thermal Science and Engineering Applications, 2018, 10, .	1.5	12
57	Jeffrey fluid flow due to curved stretching surface with Cattaneo-Christov heat flux. Applied Mathematics and Mechanics (English Edition), 2018, 39, 1173-1186.	3.6	12
58	Magnetohydrodynamics flow of nanofluid with homogeneous-heterogeneous reactions and velocity slip. Thermal Science, 2017, 21, 901-913.	1.1	12
59	Magnetohydrodynamic flow of nanofluid over permeable stretching sheet with convective boundary conditions. Thermal Science, 2016, 20, 1835-1845.	1.1	9
60	Joule heating and MHD effects in flow of second-grade fluid due to a rotating disk with variable thickness. Physica Scripta, 2019, 94, 085203.	2.5	8
61	Magnetohydrodynamic Three-Dimensional Flow of Nanofluid by a Porous Shrinking Surface. Journal of Aerospace Engineering, 2016, 29, .	1.4	6
62	Melting heat and thermal radiation effects in stretched flow of an Oldroyd-B fluid. Applied Mathematics and Mechanics (English Edition), 2017, 38, 957-968.	3.6	5
63	Cattaneo-Christov heat flux in flow by rotating disk with variable thickness. European Physical Journal Plus, 2017, 132, 1.	2.6	5
64	Axisymmetric flow by a rotating disk with Cattaneoâ€“Christov heat flux. Journal of the Brazilian Society of Mechanical Sciences and Engineering, 2019, 41, 1.	1.6	5
65	Chemical reactive flow of Jeffrey fluid due to a rotating disk with non-Fourier heat flux theory. Journal of Thermal Analysis and Calorimetry, 2020, 140, 2461-2470.	3.6	5
66	Three-dimensional unsteady flow of Maxwell fluid with homogeneousâ€“heterogeneous reactions and Cattaneoâ€“Christov heat flux. Journal of the Brazilian Society of Mechanical Sciences and Engineering, 2018, 40, 1.	1.6	4
67	Melting heat transfer in the MHD flow of a third-grade fluid over a variable-thickness surface. European Physical Journal Plus, 2017, 132, 1.	2.6	3
68	On chemical reaction and porous medium effect in the MHD flow due to a rotating disk with variable thickness. European Physical Journal Plus, 2017, 132, 1.	2.6	3
69	Effect of homogeneousâ€“heterogeneous reactions in stagnation point flow of third grade fluid past a variable thickness stretching sheet. Neural Computing and Applications, 2018, 30, 3071-3080.	5.6	2
70	Flow due to a convectively heated cylinder with nonlinear thermal radiation. Neural Computing and Applications, 2018, 30, 1095-1101.	5.6	2
71	Consequences of chemical reaction in temperature-dependent thermal conductivity fluid flow by a rotating disk with variable thickness. Pramana - Journal of Physics, 2019, 93, 1.	1.8	2
72	Effect of Porous Medium in Stagnation Point Flow of Ferrofluid Due to a Variable Convected Thicked Sheet. Journal of Heat Transfer, 2019, 141, .	2.1	2

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73	Convective analysis of carbon nanotubes in catheter for chemotherapy. International Journal of Ambient Energy, 0, , 1-8.	2.5	0