

Swati Mukhopadhyay

List of Publications by Year in descending order

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104
papers

3,966
citations

134610

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106
all docs

106
docs citations

106
times ranked

1391
citing authors

#	ARTICLE	IF	CITATIONS
1	Eyringâ€™Powel fluid flow past a power-law stretching permeable sheet in a free stream moving with power-law velocity in the presence of convective boundary condition. International Journal of Ambient Energy, 2022, 43, 1147-1156.	1.4	3
2	Pulsatile flow of blood with shear-dependent viscosity through a flexible stenosed artery in the presence of body acceleration. Korea Australia Rheology Journal, 2022, 34, 17-33.	0.7	4
3	MHD nanofluid flow over an absorbent plate in the company of chemical response and zero nanoparticle flux. Forces in Mechanics, 2022, 7, 100102.	1.3	10
4	Unsteady mixed convective flow of nanofluid with arbitraryâ€shaped nanoparticles over a shrinking sheet. Asia-Pacific Journal of Chemical Engineering, 2021, 16, e2624.	0.8	4
5	Effects of thermal radiation on Eyringâ€™Powell fluid flow and heat transfer over a power-law stretching permeable surface. International Journal for Computational Methods in Engineering Science and Mechanics, 2021, 22, 366-375.	1.4	5
6	Melting Heat Transfer of MHD Micropolar Fluid Flow Past An Exponentially Stretching Sheet with SLip and Thermal Radiation. International Journal of Applied and Computational Mathematics, 2021, 7, 1.	0.9	13
7	MHD 3-dimensional nanofluid flow induced by a power-law stretching sheet with thermal radiation, heat and mass fluxes. Applied Mathematics and Nonlinear Sciences, 2021, 6, 361-380.	0.9	4
8	Heat transfer in pulsatile blood flow obeying Cross viscosity model through an artery with aneurysm. Journal of Engineering Mathematics, 2021, 131, 1.	0.6	4
9	Stability analysis for model-based study of nanofluid flow over an exponentially shrinking permeable sheet in presence of slip. Neural Computing and Applications, 2020, 32, 7201-7211.	3.2	45
10	MHD mixed convection flow of a nanofluid past a stretching surface of variable thickness and vanishing nanoparticle flux. Pramana - Journal of Physics, 2020, 94, 1.	0.9	14
11	Nonlinear Convection in Micropolar Fluid Flow Past a Non-Isothermal Exponentially Permeable Stretching Sheet in Presence of Heat Source/Sink. Thermal Engineering (English Translation of) Tj ETQq1 1 0.7843144gBT / Overlock 10	1.4	10
12	Unsteady nano-bioconvective channel flow with effect of nth order chemical reaction. Open Physics, 2020, 18, 1011-1024.	0.8	9
13	Nonlinear convection in micropolar fluid flow past an exponentially stretching sheet in an exponentially moving stream with thermal radiation. Mechanics of Advanced Materials and Structures, 2019, 26, 2040-2046.	1.5	46
14	Some Aspects of Forced Convection Nanofluid Flow over a Moving Plate in a Porous Medium in the Presence of Heat Source/Sink. Journal of Engineering Thermophysics, 2019, 28, 291-304.	0.6	7
15	Effects of variable viscosity on pulsatile flow of blood in a tapered stenotic flexible artery. Mathematical Methods in the Applied Sciences, 2019, 42, 488-504.	1.2	7
16	Effects of slip on Cuâ€™water or Fe $_{3}O_{4}$. Pramana - Journal of Physics, 2019, 92, 1.	0.9	8
17	Flow and heat transfer of Casson fluid over an exponentially shrinking permeable sheet in presence of exponentially moving free stream with convective boundary condition. Mechanics of Advanced Materials and Structures, 2019, 26, 1498-1504.	1.5	12
18	Nonlinear Convection in Nanofluid Flow Past a Linear Stretched Surface. Journal of Nanofluids, 2019, 8, 1517-1527.	1.4	3

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19	Dynamic response of pulsatile flow of blood in a stenosed tapered artery. <i>Mathematical Methods in the Applied Sciences</i> , 2018, 41, 3885-3899.	1.2	5
20	Couple Stress Effects on Three Dimensional Flow of Magnetite-Water Based Nanofluid Over an Extended Surface in Presence of Non-linear Thermal Radiation. <i>International Journal of Applied and Computational Mathematics</i> , 2018, 4, 1.	0.9	9
21	Numerical simulation of physiologically relevant pulsatile flow of blood with shear-rate-dependent viscosity in a stenosed blood vessel. <i>International Journal of Biomathematics</i> , 2018, 11, 1850082.	1.5	3
22	Flow and heat transfer of nanofluid over an exponentially shrinking porous sheet with heat and mass fluxes. <i>Propulsion and Power Research</i> , 2018, 7, 268-275.	2.0	42
23	Shear flow of a Newtonian fluid over a quiescent generalized Newtonian fluid. <i>Meccanica</i> , 2017, 52, 903-914.	1.2	10
24	Viscous flow due to an exponentially shrinking permeable sheet in nanofluid in presence of slip. <i>International Journal for Computational Methods in Engineering Science and Mechanics</i> , 2017, 18, 309-317.	1.4	5
25	Dual solutions of Casson fluid flows over a power-law stretching sheet. <i>Journal of Applied Mechanics and Technical Physics</i> , 2017, 58, 629-634.	0.1	12
26	MHD slip flow and heat transfer of Casson nanofluid over an exponentially stretching permeable sheet. <i>International Journal of Automotive and Mechanical Engineering</i> , 2017, 14, 4785-4804.	0.5	15
27	Flow past a stretching sheet. , 2016, , 7-45.		9
28	Flow past a flat plate. , 2016, , 77-120.		0
29	Flow past a shrinking sheet. , 2016, , 47-76.		0
30	Flow past a wedge. , 2016, , 153-180.		0
31	Flow past a cylinder. , 2016, , 123-143.		2
32	Analysis of heat transfer over a plate in a porous medium with a convective boundary condition. <i>Journal of Applied Mechanics and Technical Physics</i> , 2016, 57, 949-956.	0.1	2
33	Dual solutions of slip flow past a nonlinearly shrinking permeable sheet. <i>AEJ - Alexandria Engineering Journal</i> , 2016, 55, 1835-1840.	3.4	13
34	Effects of Partial Slip on Chemically Reactive Solute Distribution in MHD Boundary Layer Stagnation Point Flow Past a Stretching Permeable Sheet. <i>International Journal of Chemical Reactor Engineering</i> , 2015, 13, 29-36.	0.6	5
35	Magnetohydrodynamic (MHD) mixed convection slip flow and heat transfer over a vertical porous plate. <i>Engineering Science and Technology, an International Journal</i> , 2015, 18, 98-105.	2.0	34
36	Viscous Flows Driven by Uniform Shear over a Porous Stretching Sheet in the Presence of Suction/Blowing. <i>Journal of Fluids</i> , 2014, 2014, 1-7.	1.4	0

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37	Boundary layers due to shear flow over a still fluid: A direct integration approach. Applied Mathematics and Computation, 2014, 242, 856-862.	1.4	6
38	MASS TRANSFER OVER AN EXPONENTIALLY STRETCHING POROUS SHEET EMBEDDED IN A STRATIFIED MEDIUM. Chemical Engineering Communications, 2014, 201, 272-286.	1.5	27
39	Dual solutions in boundary layer flow of a moving fluid over a moving permeable surface in presence of prescribed surface temperature and thermal radiation. Chinese Physics B, 2014, 23, 014702.	0.7	4
40	MHD boundary layer flow of Casson fluid passing through an exponentially stretching permeable surface with thermal radiation. Chinese Physics B, 2014, 23, 104701.	0.7	36
41	Boundary layer flow and heat transfer of a Casson fluid past a symmetric porous wedge with surface heat flux. Chinese Physics B, 2014, 23, 044702.	0.7	46
42	Chemically reactive solute transfer in boundary layer flow along a stretching cylinder in porous medium. Afrika Matematika, 2014, 25, 1-10.	0.4	10
43	Heat and Mass Transfer in Non-Newtonian Fluids. Advances in Mechanical Engineering, 2014, 6, 104392.	0.8	1
44	MIXED CONVECTION SLIP FLOW WITH HEAT TRANSFER AND POROUS MEDIUM. Journal of Porous Media, 2014, 17, 1007-1017.	1.0	2
45	Effects of thermal radiation and variable fluid viscosity on stagnation point flow past a porous stretching sheet. Meccanica, 2013, 48, 1717-1730.	1.2	49
46	Heat transfer characteristics for the Maxwell fluid flow past an unsteady stretching permeable surface embedded in a porous medium with thermal radiation. Journal of Applied Mechanics and Technical Physics, 2013, 54, 385-396.	0.1	39
47	Influence of Space-Varying Surface Heat Flux on the Heat Transfer Due to a Moving Fluid Over a Moving Surface. Journal of Heat Transfer, 2013, 135, .	1.2	0
48	Chemically reactive solute transfer in a moving fluid over a moving surface. Acta Mechanica, 2013, 224, 513-523.	1.1	7
49	MHD boundary layer slip flow along a stretching cylinder. Ain Shams Engineering Journal, 2013, 4, 317-324.	3.5	149
50	Slip effects on MHD boundary layer flow over an exponentially stretching sheet with suction/blowing and thermal radiation. Ain Shams Engineering Journal, 2013, 4, 485-491.	3.5	206
51	Casson fluid flow over an unsteady stretching surface. Ain Shams Engineering Journal, 2013, 4, 933-938.	3.5	196
52	Analysis of boundary layer flow over a porous nonlinearly stretching sheet with partial slip at the boundary. AEJ - Alexandria Engineering Journal, 2013, 52, 563-569.	3.4	55
53	Effects of partial slip on chemically reactive solute transfer in the boundary layer flow over an exponentially stretching sheet with suction/blowing. Journal of Applied Mechanics and Technical Physics, 2013, 54, 928-936.	0.1	11
54	Diffusion of chemically reactive species in Casson fluid flow over an unsteady permeable stretching surface. Journal of Hydrodynamics, 2013, 25, 591-598.	1.3	44

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55	Similarity solution of mixed convective boundary layer slip flow over a vertical plate. Ain Shams Engineering Journal, 2013, 4, 299-305.	3.5	48
56	MHD boundary layer flow and heat transfer over an exponentially stretching sheet embedded in a thermally stratified medium. AEJ - Alexandria Engineering Journal, 2013, 52, 259-265.	3.4	144
57	Heat transfer analysis for fluid flow over an exponentially stretching porous sheet with surface heat flux in porous medium. Ain Shams Engineering Journal, 2013, 4, 103-110.	3.5	76
58	Casson fluid flow and heat transfer past a symmetric wedge. Heat Transfer - Asian Research, 2013, 42, 665-675.	2.8	70
59	UNSTEADY MHD BOUNDARY LAYER FLOW WITH DIFFUSION AND FIRST-ORDER CHEMICAL REACTION OVER A PERMEABLE STRETCHING SHEET WITH SUCTION OR BLOWING. Chemical Engineering Communications, 2013, 200, 379-397.	1.5	38
60	Casson Fluid Flow and Heat Transfer at an Exponentially Stretching Permeable Surface. Journal of Applied Mechanics, Transactions ASME, 2013, 80, .	1.1	39
61	Effects of transpiration on unsteady MHD flow of an upper convected Maxwell (UCM) fluid passing through a stretching surface in the presence of a first order chemical reaction. Chinese Physics B, 2013, 22, 124701.	0.7	17
62	Exact solutions for the flow of Casson fluid over a stretching surface with transpiration and heat transfer effects. Chinese Physics B, 2013, 22, 114701.	0.7	30
63	Casson fluid flow and heat transfer over a nonlinearly stretching surface. Chinese Physics B, 2013, 22, 074701.	0.7	146
64	Effects of thermal radiation on Casson fluid flow and heat transfer over an unsteady stretching surface subjected to suction/blowing. Chinese Physics B, 2013, 22, 114702.	0.7	56
65	Effects of Transpiration and Internal Heat Generation/Absorption on the Unsteady Flow of a Maxwell Fluid at a Stretching Surface. Journal of Applied Mechanics, Transactions ASME, 2012, 79, .	1.1	21
66	Upper-Convected Maxwell Fluid Flow over an Unsteady Stretching Surface Embedded in Porous Medium Subjected to Suction/Blowing. Zeitschrift Fur Naturforschung - Section A Journal of Physical Sciences, 2012, 67, 641-646.	0.7	17
67	Heat Transfer Analysis of the Unsteady Flow of a Maxwell Fluid over a Stretching Surface in the Presence of a Heat Source/Sink. Chinese Physics Letters, 2012, 29, 054703.	1.3	125
68	Unsteady MHD boundary layer flow of an upper convected Maxwell fluid past a stretching sheet with first order constructive/destructive chemical reaction. Journal of Naval Architecture and Marine Engineering, 2012, 9, 123-133.	0.9	35
69	Mixed Convection Flow along a Stretching Cylinder in a Thermally Stratified Medium. Journal of Applied Mathematics, 2012, 2012, 1-8.	0.4	64
70	Effects of partial slip on boundary layer flow past a permeable exponential stretching sheet in presence of thermal radiation. Heat and Mass Transfer, 2012, 48, 1773-1781.	1.2	99
71	Mixed convection boundary layer flow along a stretching cylinder in porous medium. Journal of Petroleum Science and Engineering, 2012, 96-97, 73-78.	2.1	52
72	REACTIVE SOLUTE TRANSFER IN MAGNETOHYDRODYNAMIC BOUNDARY LAYER STAGNATION-POINT FLOW OVER A STRETCHING SHEET WITH SUCTION/BLOWING. Chemical Engineering Communications, 2012, 199, 368-383.	1.5	35

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73	Unsteady flow of a Maxwell fluid over a stretching surface in presence of chemical reaction. Journal of the Egyptian Mathematical Society, 2012, 20, 229-234.	0.6	61
74	Flow and heat transfer in a moving fluid over a moving non-isothermal surface. International Journal of Heat and Mass Transfer, 2012, 55, 6632-6637.	2.5	4
75	Pulsatile flow of an incompressible, inhomogeneous fluid in a smoothly expanded vascular tube. International Journal of Engineering Science, 2012, 57, 1-10.	2.7	11
76	Effects of variable fluid viscosity on flow past a heated stretching sheet embedded in a porous medium in presence of heat source/sink. Meccanica, 2012, 47, 863-876.	1.2	56
77	Effects of thermal stratification on flow and heat transfer past a porous vertical stretching surface. Heat and Mass Transfer, 2012, 48, 915-921.	1.2	25
78	Effects of thermal radiation on micropolar fluid flow and heat transfer over a porous shrinking sheet. International Journal of Heat and Mass Transfer, 2012, 55, 2945-2952.	2.5	177
79	Forced convective flow and heat transfer over a porous plate in a Darcy-Forchheimer porous medium in presence of radiation. Meccanica, 2012, 47, 153-161.	1.2	39
80	Analysis of Boundary Layer Flow and Heat Transfer along a Stretching Cylinder in a Porous Medium. ISRN Thermodynamics, 2012, 2012, 1-7.	0.6	4
81	MHD Boundary Layer Slip Flow and Heat Transfer over a Flat Plate. Chinese Physics Letters, 2011, 28, 024701.	1.3	49
82	Slip Effects on an Unsteady Boundary Layer Stagnation-Point Flow and Heat Transfer towards a Stretching Sheet. Chinese Physics Letters, 2011, 28, 094702.	1.3	51
83	Effects of slip on unsteady mixed convective flow and heat transfer past a porous stretching surface. Nuclear Engineering and Design, 2011, 241, 2660-2665.	0.8	48
84	Heat transfer analysis for unsteady MHD flow past a non-isothermal stretching surface. Nuclear Engineering and Design, 2011, 241, 4835-4839.	0.8	17
85	Steady boundary layer slip flow and heat transfer over a flat porous plate embedded in a porous media. Journal of Petroleum Science and Engineering, 2011, 78, 304-309.	2.1	40
86	Slip effects on boundary layer stagnation-point flow and heat transfer towards a shrinking sheet. International Journal of Heat and Mass Transfer, 2011, 54, 308-313.	2.5	201
87	Steady boundary layer flow and heat transfer over a porous moving plate in presence of thermal radiation. International Journal of Heat and Mass Transfer, 2011, 54, 2751-2757.	2.5	61
88	Analysis of blood flow through a modelled artery with an aneurysm. Applied Mathematics and Computation, 2011, 217, 6792-6801.	1.4	10
89	Chemically reactive solute transfer in a boundary layer slip flow along a stretching cylinder. Frontiers of Chemical Science and Engineering, 2011, 5, 385-391.	2.3	26
90	Heat Transfer in a Moving Fluid over a Moving Non-Isothermal Flat Surface. Chinese Physics Letters, 2011, 28, 124706.	1.3	13

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91	Radiation Effects on MHD Combined Convective Flow and Heat Transfer Past a Porous Stretching Surface. International Journal of Fluid Mechanics Research, 2010, 37, 567-581.	0.4	4
92	Effect of thermal radiation on unsteady mixed convection flow and heat transfer over a porous stretching surface in porous medium. International Journal of Heat and Mass Transfer, 2009, 52, 3261-3265.	2.5	160
93	Radiation effect on forced convective flow and heat transfer over a porous plate in a porous medium. Meccanica, 2009, 44, 587-597.	1.2	31
94	Effects of slip and heat transfer analysis of flow over an unsteady stretching surface. Heat and Mass Transfer, 2009, 45, 1447-1452.	1.2	62
95	Computation of Viscous Flow Field in a Tapered Artery with an Overlapping Constriction. International Journal of Fluid Mechanics Research, 2009, 36, 343-356.	0.4	1
96	Effects of thermal radiation and variable fluid viscosity on free convective flow and heat transfer past a porous stretching surface. International Journal of Heat and Mass Transfer, 2008, 51, 2167-2178.	2.5	106
97	Laminar flow separation in an axi-symmetric sudden smooth expanded circular tube. Journal of Applied Mathematics and Computing, 2008, 28, 235-247.	1.2	4
98	Heat and mass transfer analysis for boundary layer stagnation-point flow towards a heated porous stretching sheet with heat absorption/generation and suction/blowing. International Communications in Heat and Mass Transfer, 2007, 34, 347-356.	2.9	123
99	Study of MHD boundary layer flow over a heated stretching sheet with variable viscosity. International Journal of Heat and Mass Transfer, 2005, 48, 4460-4466.	2.5	166
100	Unsteady MHD three-dimensional flow of nanofluid over a stretching surface with zero nanoparticles flux and thermal radiation. Waves in Random and Complex Media, 0, , 1-17.	1.6	12
101	Impacts of activation energy and binary chemical reaction on MHD flow of Williamson nanofluid in Darcy-Forchheimer porous medium: a case of expanding sheet of variable thickness. Waves in Random and Complex Media, 0, , 1-22.	1.6	20
102	Hybrid nanofluid flow close to a stagnation point past a porous shrinking sheet. Waves in Random and Complex Media, 0, , 1-17.	1.6	6
103	Erratum to "Boundary layer flow and heat transfer of a Casson fluid past a symmetric porous wedge with surface heat flux"; Chinese Physics B, 0, , .	0.7	0
104	The flow of MHD Maxwell liquid over an extending surface with variable free stream temperature. Heat Transfer, 0, , .	1.7	0