

# Sandip Sarkar

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

52  
papers

915  
citations

18  
h-index

29  
g-index

56  
ext. papers

1,097  
ext. citations

3.4  
avg, IF

4.86  
L-index

#	Paper	IF	Citations
52	Rheological Characteristics of Polymers: Theoretical Modeling Perspective <b>2022</b> ,		
51	Thermally developed electrokinetic bi-layer flows of Newtonian and non-Newtonian fluids in a microchannel. <i>Physics of Fluids</i> , <b>2022</b> , 34, 042011	4.4	2
50	Electroosmotic flow of viscoelastic fluid through a microchannel with slip-dependent zeta potential. <i>Physics of Fluids</i> , <b>2021</b> , 33, 123110	4.4	7
49	Study of the interactions of sneezing droplets with particulate matter in a polluted environment. <i>Physics of Fluids</i> , <b>2021</b> , 33, 113310	4.4	1
48	Forced convective flow and heat transfer past a blunt headed cylinder with corner modification. <i>Physics of Fluids</i> , <b>2021</b> , 33, 103106	4.4	0
47	Turbulent Flow and Heat Transfer Characteristics of Non-Newtonian Impinging Jets on a Flat Plate. <i>Journal of the Institution of Engineers (India): Series C</i> , <b>2021</b> , 102, 807	0.9	
46	A deterministic model for bubble propagation through simple and cascaded loops of microchannels in power-law fluids. <i>Physics of Fluids</i> , <b>2021</b> , 33, 072008	4.4	4
45	Mixed Convective Power-Law Fluid Flow and Heat Transfer Characteristics Past a Semi-circular Cylinder Mounted with a Splitter Plate. <i>Lecture Notes in Mechanical Engineering</i> , <b>2021</b> , 219-226	0.4	
44	Forced convection past a semi-circular cylinder at incidence with a downstream circular cylinder: Thermofluidic transport and stability analysis. <i>Physics of Fluids</i> , <b>2021</b> , 33, 023603	4.4	5
43	Spatial wake transition past a thin pitching plate. <i>Physical Review E</i> , <b>2021</b> , 104, 025106	2.4	1
42	Forced convection and entropy generation past a series of porous bodies with internal heat generation. <i>Physica Scripta</i> , <b>2021</b> , 96, 125009	2.6	0
41	Forced Convective Wake Dynamics Past a Semicircular Cylinder at Incidence with a Downstream Circular Cylinder in Crossflow. <i>Lecture Notes in Mechanical Engineering</i> , <b>2021</b> , 93-102	0.4	
40	Unsteady Wake Dynamics Past a Triangular Cylinder at Incidence with a Downstream Semi-circular Cylinder at $Re = 100$ . <i>Lecture Notes in Mechanical Engineering</i> , <b>2021</b> , 493-505	0.4	
39	Streaming-potential-mediated pressure-driven transport of Phan-Thien-Tanner fluids in a microchannel. <i>Physical Review E</i> , <b>2020</b> , 101, 053104	2.4	4
38	Wake events during early three-dimensional transition of a circular cylinder placed in shear flow. <i>Physics of Fluids</i> , <b>2020</b> , 32, 053603	4.4	7
37	Experimental and numerical study of effect of secondary surfaces fixed over rectangular vortex generator with an overview of dynamic mode decomposition. <i>Physics of Fluids</i> , <b>2020</b> , 32, 057101	4.4	4
36	Forced convective flow and heat transfer past an unconfined blunt headed cylinder at different angles of incidence. <i>Applied Mathematical Modelling</i> , <b>2020</b> , 82, 888-915	4.5	12

35	Capillary Filling Dynamics of Electromagnetohydrodynamic Flow of Non-Newtonian Fluids. <i>Journal of Fluids Engineering, Transactions of the ASME</i> , <b>2020</b> , 142,	2.1	3
34	Electromagnetohydrodynamic Control and Energy Conversion in Narrow Fluidic Devices: A Theoretical Perspective. <i>Energy, Environment, and Sustainability</i> , <b>2020</b> , 347-381	0.8	1
33	Three-dimensional wake dynamics behind a tapered cylinder with large taper ratio. <i>Physics of Fluids</i> , <b>2020</b> , 32, 063604	4.4	7
32	Consequences of substrate wettability on the hydro-electric energy conversion in electromagnetohydrodynamic flows through microchannel. <i>Physica A: Statistical Mechanics and Its Applications</i> , <b>2020</b> , 542, 123450	3.3	1
31	Single diffusive magnetohydrodynamic pressure driven miscible displacement flows in a channel. <i>Physics of Fluids</i> , <b>2019</b> , 31, 082102	4.4	10
30	Mixed convective vertically upward flow past side-by-side square cylinders at incidence. <i>International Journal of Heat and Mass Transfer</i> , <b>2018</b> , 127, 927-947	4.9	18
29	Effect of Argon Injection in Meniscus Flow and Turbulence Intensity Distribution in Continuous Slab Casting Mold Under the Influence of Double Ruler Magnetic Field. <i>ISIJ International</i> , <b>2018</b> , 58, 68-77	1.7	19
28	Effect of channel confinement on wake dynamics and forced convective heat transfer past a blunt headed cylinder. <i>International Journal of Thermal Sciences</i> , <b>2018</b> , 124, 467-476	4.1	9
27	Characterization of Single and Multiphase Hydrodynamics in Continuous Slab Casting Mold in the Presence of Applied Magnetic Field. <i>Jom</i> , <b>2018</b> , 70, 2980-2992	2.1	0
26	Influence of combined electromagnetohydrodynamics on microchannel flow with electrokinetic effect and interfacial slip. <i>Microfluidics and Nanofluidics</i> , <b>2017</b> , 21, 1	2.8	24
25	Electrokinetically induced thermofluidic transport of power-law fluids under the influence of superimposed magnetic field. <i>Chemical Engineering Science</i> , <b>2017</b> , 171, 391-403	4.4	24
24	Magnetohydrodynamic stationary and oscillatory convective stability in a mushy layer during binary alloy solidification. <i>Applied Mathematical Modelling</i> , <b>2017</b> , 48, 233-249	4.5	4
23	Forced convective flow and heat transfer past an unconfined blunt headed cylinder. <i>Numerical Heat Transfer; Part A: Applications</i> , <b>2017</b> , 72, 372-388	2.3	6
22	Fluid flow and mixed convective heat transfer around a semi-circular cylinder at incidence with a tandem downstream square cylinder in cross flow. <i>International Journal of Thermal Sciences</i> , <b>2017</b> , 121, 13-29	4.1	13
21	Characterization of electromagnetohydrodynamic transport of power law fluids in microchannel. <i>Journal of Non-Newtonian Fluid Mechanics</i> , <b>2017</b> , 250, 18-30	2.7	17
20	Thermofluidic characteristics of combined electroosmotic and pressure driven flows in narrow confinements in presence of spatially non-uniform magnetic field. <i>International Journal of Heat and Mass Transfer</i> , <b>2017</b> , 104, 1325-1340	4.9	13
19	Flow and heat transfer over a row of multiple semi-circular cylinders: selection of optimum number of cylinders and effects of gap ratios. <i>European Physical Journal Plus</i> , <b>2017</b> , 132, 1	3.1	4
18	Effect of cylinder rotation during mixed convective flow of nanofluids past a circular cylinder. <i>Computers and Fluids</i> , <b>2016</b> , 127, 47-64	2.8	24

17	Effect of Double Ruler Magnetic Field in Controlling Meniscus Flow and Turbulence Intensity Distribution in Continuous Slab Casting Mold. <i>ISIJ International</i> , <b>2016</b> , 56, 2181-2190	1.7	13
16	Thermally developing combined magnetohydrodynamic and electrokinetic transport in narrow confinements with interfacial slip. <i>International Journal of Heat and Mass Transfer</i> , <b>2016</b> , 100, 451-463	4.9	14
15	Thermally developing combined electroosmotic and pressure-driven flow of nanofluids in a microchannel under the effect of magnetic field. <i>Chemical Engineering Science</i> , <b>2015</b> , 126, 10-21	4.4	66
14	Fully developed thermal transport in combined pressure and electroosmotically driven flow of nanofluid in a microchannel under the effect of a magnetic field. <i>Microfluidics and Nanofluidics</i> , <b>2015</b> , 18, 623-636	2.8	51
13	Effect of Channel Confinement on Mixed Convective Flow Past an Equilateral Triangular Cylinder. <i>Journal of Heat Transfer</i> , <b>2015</b> , 137,	1.8	9
12	Effect of angle of incidence on mixed convective wake dynamics and heat transfer past a square cylinder in cross flow at $Re=100$ . <i>International Journal of Heat and Mass Transfer</i> , <b>2014</b> , 74, 319-332	4.9	32
11	Buoyancy driven convection of nanofluids in an infinitely long channel under the effect of a magnetic field. <i>International Journal of Heat and Mass Transfer</i> , <b>2014</b> , 71, 328-340	4.9	44
10	Analysis of Entropy Generation During Mixed Convective Heat Transfer of Nanofluids Past a Rotating Circular Cylinder. <i>Journal of Heat Transfer</i> , <b>2014</b> , 136,	1.8	25
9	Mixed convective flow stability of nanofluids past a square cylinder by dynamic mode decomposition. <i>International Journal of Heat and Fluid Flow</i> , <b>2013</b> , 44, 624-634	2.4	47
8	Mathematical modelling of single and multi-strand tundish for inclusion analysis. <i>Applied Mathematical Modelling</i> , <b>2013</b> , 37, 6284-6300	4.5	29
7	Buoyancy driven flow and heat transfer of nanofluids past a square cylinder in vertically upward flow. <i>International Journal of Heat and Mass Transfer</i> , <b>2013</b> , 59, 433-450	4.9	44
6	Mixed convective heat transfer of nanofluids past a circular cylinder in cross flow in unsteady regime. <i>International Journal of Heat and Mass Transfer</i> , <b>2012</b> , 55, 4783-4799	4.9	57
5	Flow over and forced convection heat transfer around a semi-circular cylinder at incidence. <i>International Journal of Heat and Mass Transfer</i> , <b>2012</b> , 55, 5171-5184	4.9	42
4	Analysis of Entropy Generation During Mixed Convective Heat Transfer of Nanofluids Past a Square Cylinder in Vertically Upward Flow. <i>Journal of Heat Transfer</i> , <b>2012</b> , 134,	1.8	35
3	Unsteady wake dynamics and heat transfer in forced and mixed convection past a circular cylinder in cross flow for high Prandtl numbers. <i>International Journal of Heat and Mass Transfer</i> , <b>2011</b> , 54, 3536-3551	4.9	51
2	Mixed convective heat transfer from two identical square cylinders in cross flow at $Re = 100$ . <i>International Journal of Heat and Mass Transfer</i> , <b>2010</b> , 53, 2628-2642	4.9	33
1	Effect of thermal buoyancy on vortex shedding past a circular cylinder in cross-flow at low Reynolds numbers. <i>International Journal of Heat and Mass Transfer</i> , <b>2009</b> , 52, 1897-1912	4.9	78