Sandip Sarkar

List of Publications by Year
in descending order

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Version: 2024-02-01

56 papers	1,273 citations	331538 21 h-index	360920 35 g-index
56 all docs	56 docs citations	56 times ranked	622 citing authors

#	Article	IF	Citations
1	Effect of thermal buoyancy on vortex shedding past a circular cylinder in cross-flow at low Reynolds numbers. International Journal of Heat and Mass Transfer, 2009, 52, 1897-1912.	2.5	97
2	Thermally developing combined electroosmotic and pressure-driven flow of nanofluids in a microchannel under the effect of magnetic field. Chemical Engineering Science, 2015, 126, 10-21.	1.9	85
3	Unsteady wake dynamics and heat transfer in forced and mixed convection past a circular cylinder in cross flow for high Prandtl numbers. International Journal of Heat and Mass Transfer, 2011, 54, 3536-3551.	2.5	67
4	Mixed convective heat transfer of nanofluids past a circular cylinder in cross flow in unsteady regime. International Journal of Heat and Mass Transfer, 2012, 55, 4783-4799.	2.5	66
5	Fully developed thermal transport in combined pressure and electroosmotically driven flow of nanofluid in a microchannel under the effect of a magnetic field. Microfluidics and Nanofluidics, 2015, 18, 623-636.	1.0	66
6	Mixed convective flow stability of nanofluids past a square cylinder by dynamic mode decomposition. International Journal of Heat and Fluid Flow, 2013, 44, 624-634.	1.1	64
7	Flow over and forced convection heat transfer around a semi-circular cylinder at incidence. International Journal of Heat and Mass Transfer, 2012, 55, 5171-5184.	2.5	56
8	Buoyancy driven flow and heat transfer of nanofluids past a square cylinder in vertically upward flow. International Journal of Heat and Mass Transfer, 2013, 59, 433-450.	2.5	54
9	Buoyancy driven convection of nanofluids in an infinitely long channel under the effect of a magnetic field. International Journal of Heat and Mass Transfer, 2014, 71, 328-340.	2.5	47
10	Mixed convective heat transfer from two identical square cylinders in cross flow at Re=100. International Journal of Heat and Mass Transfer, 2010, 53, 2628-2642.	2.5	46
11	Effect of angle of incidence on mixed convective wake dynamics and heat transfer past a square cylinder in cross flow at Re=100. International Journal of Heat and Mass Transfer, 2014, 74, 319-332.	2.5	41
12	Analysis of Entropy Generation During Mixed Convective Heat Transfer of Nanofluids Past a Square Cylinder in Vertically Upward Flow. Journal of Heat Transfer, 2012, 134, .	1.2	40
13	Mathematical modelling of single and multi-strand tundish for inclusion analysis. Applied Mathematical Modelling, 2013, 37, 6284-6300.	2.2	34
14	Influence of combined electromagnetohydrodynamics on microchannel flow with electrokinetic effect and interfacial slip. Microfluidics and Nanofluidics, 2017, 21, 1.	1.0	34
15	Effect of cylinder rotation during mixed convective flow of nanofluids past a circular cylinder. Computers and Fluids, 2016, 127, 47-64.	1.3	33
16	Effect of Argon Injection in Meniscus Flow and Turbulence Intensity Distribution in Continuous Slab Casting Mold Under the Influence of Double Ruler Magnetic Field. ISIJ International, 2018, 58, 68-77.	0.6	32
17	Analysis of Entropy Generation During Mixed Convective Heat Transfer of Nanofluids Past a Rotating Circular Cylinder. Journal of Heat Transfer, 2014, 136, .	1.2	31
18	Electroosmotic flow of viscoelastic fluid through a microchannel with slip-dependent zeta potential. Physics of Fluids, 2021, 33, .	1.6	30

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19	Electrokinetically induced thermofluidic transport of power-law fluids under the influence of superimposed magnetic field. Chemical Engineering Science, 2017, 171, 391-403.	1.9	28
20	Mixed convective vertically upward flow past side-by-side square cylinders at incidence. International Journal of Heat and Mass Transfer, 2018, 127, 927-947.	2.5	28
21	Characterization of electromagnetohydrodynamic transport of power law fluids in microchannel. Journal of Non-Newtonian Fluid Mechanics, 2017, 250, 18-30.	1.0	26
22	Three-dimensional wake dynamics behind a tapered cylinder with large taper ratio. Physics of Fluids, 2020, 32, .	1.6	21
23	Thermofluidic characteristics of combined electroosmotic and pressure driven flows in narrow confinements in presence of spatially non-uniform magnetic field. International Journal of Heat and Mass Transfer, 2017, 104, 1325-1340.	2.5	19
24	Effect of Double Ruler Magnetic Field in Controlling Meniscus Flow and Turbulence Intensity Distribution in Continuous Slab Casting Mold. ISIJ International, 2016, 56, 2181-2190.	0.6	18
25	Forced convective flow and heat transfer past an unconfined blunt headed cylinder at different angles of incidence. Applied Mathematical Modelling, 2020, 82, 888-915.	2.2	18
26	Fluid flow and mixed convective heat transfer around a semi-circular cylinder at incidence with a tandem downstream square cylinder in cross flow. International Journal of Thermal Sciences, 2017, 121, 13-29.	2.6	17
27	Thermally developing combined magnetohydrodynamic and electrokinetic transport in narrow confinements with interfacial slip. International Journal of Heat and Mass Transfer, 2016, 100, 451-463.	2.5	15
28	Single diffusive magnetohydrodynamic pressure driven miscible displacement flows in a channel. Physics of Fluids, 2019, 31, 082102.	1.6	14
29	Dependence of wake structure on pitching frequency behind a thin panel at. Journal of Fluid Mechanics, 2021, 924, .	1.4	13
30	Streaming-potential-mediated pressure-driven transport of Phan-Thienâ€“Tanner fluids in a microchannel. Physical Review E, 2020, 101, 053104.	0.8	12
31	Wake events during early three-dimensional transition of a circular cylinder placed in shear flow. Physics of Fluids, 2020, 32, .	1.6	12
32	Effect of channel confinement on wake dynamics and forced convective heat transfer past a blunt headed cylinder. International Journal of Thermal Sciences, 2018, 124, 467-476.	2.6	11
33	Effect of Channel Confinement on Mixed Convective Flow Past an Equilateral Triangular Cylinder. Journal of Heat Transfer, 2015, 137, .	1.2	10
34	Forced convective flow and heat transfer past an unconfined blunt headed cylinder. Numerical Heat Transfer; Part A: Applications, 2017, 72, 372-388.	1.2	10
35	Spatial wake transition past a thin pitching plate. Physical Review E, 2021, 104, 025106.	0.8	9
36	Flow and heat transfer over a row of multiple semi-circular cylinders: selection of optimum number of cylinders and effects of gap ratios. European Physical Journal Plus, 2017, 132, 1.	1.2	8

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37	Thermally developed electrokinetic bi-layer flows of Newtonian and non-Newtonian fluids in a microchannel. Physics of Fluids, 2022, 34, .	1.6	8
38	A deterministic model for bubble propagation through simple and cascaded loops of microchannels in power-law fluids. Physics of Fluids, 2021, 33, .	1.6	7
39	Study of the interactions of sneezing droplets with particulate matter in a polluted environment. Physics of Fluids, 2021, 33, 113310.	1.6	7
40	Forced convection past a semi-circular cylinder at incidence with a downstream circular cylinder: Thermofluidic transport and stability analysis. Physics of Fluids, 2021, 33, 023603.	1.6	6
41	Magnetohydrodynamic stationary and oscillatory convective stability in a mushy layer during binary alloy solidification. Applied Mathematical Modelling, 2017, 48, 233-249.	2.2	5
42	Experimental and numerical study of effect of secondary surfaces fixed over rectangular vortex generator with an overview of dynamic mode decomposition. Physics of Fluids, 2020, 32, 057101.	1.6	5
43	Characterization of Single and Multiphase Hydrodynamics in Continuous Slab Casting Mold in the Presence of Applied Magnetic Field. Jom, 2018, 70, 2980-2992.	0.9	4
44	Consequences of substrate wettability on the hydro-electric energy conversion in electromagnetohydrodynamic flows through microchannel. Physica A: Statistical Mechanics and Its Applications, 2020, 542, 123450.	1.2	4
45	Capillary Filling Dynamics of Electromagnetohydrodynamic Flow of Non-Newtonian Fluids. Journal of Fluids Engineering, Transactions of the ASME, 2020, 142, .	0.8	4
46	Control of Mass Flow-Rate of Viscoelastic Fluids Through Time-Periodic Electro-Osmotic Flows in a Microchannel. Journal of Fluids Engineering, Transactions of the ASME, 2021, , .	0.8	3
47	Forced convective flow and heat transfer past a blunt headed cylinder with corner modification. Physics of Fluids, 2021, 33, 103106.	1.6	3
48	Electromagnetohydrodynamic Control and Energy Conversion in Narrow Fluidic Devices: A Theoretical Perspective. Energy, Environment, and Sustainability, 2020, , 347-381.	0.6	2
49	Turbulent Flow and Heat Transfer Characteristics of Non-Newtonian Impinging Jets on a Flat Plate. Journal of the Institution of Engineers (India): Series C, 2021, 102, 807-820.	0.7	1
50	Forced convection and entropy generation past a series of porous bodies with internal heat generation. Physica Scripta, 2021, 96, 125009.	1.2	1
51	Vortex shedding modes of a vibrating cylinder colliding with a rigid wall. Physics of Fluids, 2022, 34, 071702.	1.6	1
52	Mixed Convective Power-Law Fluid Flow and Heat Transfer Characteristics Past a Semi-circular Cylinder Mounted with a Splitter Plate. Lecture Notes in Mechanical Engineering, 2021, , 219-226.	0.3	0
53	Forced Convective Wake Dynamics Past a Semicircular Cylinder at Incidence with a Downstream Circular Cylinder in Crossflow. Lecture Notes in Mechanical Engineering, 2021, , 93-102.	0.3	0
54	Unsteady Wake Dynamics Past a Triangular Cylinder at Incidence with a Downstream Semi-circular Cylinder at Reâ€‰=â€‰100. Lecture Notes in Mechanical Engineering, 2021, , 493-505.	0.3	0

#	Article	IF	Citations
55	Rheological Characteristics of Polymers: Theoretical Modeling Perspective. , 2022, , .		0
56	Vortex induced vibration of a circular cylinder colliding with a rigid wall. Physical Review Fluids, 2022, 7, .	1.0	0