

# Jyotirmay Banerjee

## List of Publications by Year in descending order

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78  
papers

2,285  
citations

331538

21  
h-index

223716

46  
g-index

81  
all docs

81  
docs citations

81  
times ranked

1943  
citing authors

#	ARTICLE	IF	CITATIONS
1	Thermal stability of phase change materials used in latent heat energy storage systems: A review. <i>Renewable and Sustainable Energy Reviews</i> , 2013, 18, 246-258.	8.2	548
2	Thermal performance enhancement of shell and tube Latent Heat Storage Unit using longitudinal fins. <i>Applied Thermal Engineering</i> , 2015, 75, 1084-1092.	3.0	317
3	Passive cooling techniques for building and their applicability in different climatic zonesâ€”The state of art. <i>Energy and Buildings</i> , 2019, 198, 467-490.	3.1	157
4	Analysis of flow and thermal field in nanofluid using a single phase thermal dispersion model. <i>Applied Mathematical Modelling</i> , 2010, 34, 573-592.	2.2	139
5	Experimental Investigations on Latent Heat Storage Unit using Paraffin Wax as Phase Change Material. <i>Experimental Heat Transfer</i> , 2014, 27, 40-55.	2.3	79
6	Thermal performance of shell and tube latent heat storage unit: Comparative assessment of horizontal and vertical orientation. <i>Journal of Energy Storage</i> , 2019, 23, 344-362.	3.9	78
7	Characterization of two-phase slug flow sub-regimes using flow visualization. <i>Journal of Petroleum Science and Engineering</i> , 2015, 135, 561-576.	2.1	67
8	Influence of intermittent flow sub-patterns on erosion-corrosion in horizontal pipe. <i>Journal of Petroleum Science and Engineering</i> , 2016, 145, 298-320.	2.1	64
9	Influence of orientation on thermal performance of shell and tube latent heat storage unit. <i>Applied Thermal Engineering</i> , 2019, 157, 113719.	3.0	57
10	Thermal performance augmentation in latent heat storage unit using spiral fin: An experimental analysis. <i>Journal of Energy Storage</i> , 2020, 31, 101776.	3.9	49
11	Numerical model for evaluating thermal performance of residential building roof integrated with inclined phase change material (PCM) layer. <i>Journal of Building Engineering</i> , 2020, 28, 101018.	1.6	47
12	On intermittent flow characteristics of gasâ€”liquid two-phase flow. <i>Nuclear Engineering and Design</i> , 2016, 310, 363-377.	0.8	41
13	Effect of hydrogen addition on combustion and emission characteristics of methane fuelled upward swirl can combustor. <i>International Journal of Hydrogen Energy</i> , 2018, 43, 17505-17519.	3.8	39
14	Effect of silt erosion on Francis turbine: a case study of Maneri Bhali Stage-II, Uttarakhand, India. <i>ISH Journal of Hydraulic Engineering</i> , 2013, 19, 1-10.	1.1	37
15	Transition of plug to slug flow and associated fluid dynamics. <i>International Journal of Multiphase Flow</i> , 2017, 91, 63-75.	1.6	37
16	A machine learning and deep learning based approach to predict the thermal performance of phase change material integrated building envelope. <i>Building and Environment</i> , 2021, 199, 107927.	3.0	33
17	Simulation of transport processes during Czochralski growth of YAG crystals. <i>Journal of Crystal Growth</i> , 2006, 286, 350-364.	0.7	29
18	Heat transfer intensification in horizontal shell and tube latent heat storage unit. <i>Numerical Heat Transfer; Part A: Applications</i> , 2019, 75, 489-508.	1.2	29

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19	Direct numerical simulation of transitional and turbulent round jets: Evolution of vortical structures and turbulence budget. <i>Physics of Fluids</i> , 2019, 31, 065105.	1.6	28
20	Heat transfer enhancement using spiral fins in different orientations of Latent Heat Storage Unit. <i>International Journal of Thermal Sciences</i> , 2021, 169, 107060.	2.6	28
21	Thermal Performance of a Phase Change Material-Based Latent Heat Thermal Storage Unit. <i>Heat Transfer - Asian Research</i> , 2014, 43, 706-719.	2.8	23
22	Influence of wave breaking on the hydrodynamics of wave energy converters: A review. <i>Renewable and Sustainable Energy Reviews</i> , 2016, 58, 704-717.	8.2	23
23	Numerical investigations on stability of the spatially oscillating planar two-phase liquid jet in a quiescent atmosphere. <i>Physics of Fluids</i> , 2019, 31, .	1.6	21
24	A Redistribution-Based Volume-Preserving PLIC-VOF Technique. <i>Numerical Heat Transfer, Part B: Fundamentals</i> , 2015, 67, 338-362.	0.6	19
25	On coherent structures of spatially oscillating planar liquid jet developing in a quiescent atmosphere. <i>Physics of Fluids</i> , 2020, 32, .	1.6	18
26	Role of internal radiation during Czochralski growth of YAG and Nd:YAG crystals. <i>International Journal of Thermal Sciences</i> , 2006, 45, 151-167.	2.6	16
27	Proposal of a unique index for selection of optimum phase change material for effective thermal performance of a building envelope. <i>Solar Energy</i> , 2021, 218, 129-141.	2.9	15
28	Thermal and emission characteristics of reverse air flow CAN combustor. <i>International Journal of Thermal Sciences</i> , 2018, 128, 175-183.	2.6	14
29	Influence of Inlet Premixing on Two-Phase Flow Patterns in a Horizontal Minichannel. <i>Heat Transfer Engineering</i> , 2015, 36, 564-573.	1.2	13
30	An investigation of flow orientation on air-water two-phase flow in circular minichannel. <i>Heat and Mass Transfer</i> , 2014, 50, 1353-1364.	1.2	12
31	Thermal and emission characteristics of a CAN combustor. <i>Heat and Mass Transfer</i> , 2016, 52, 499-509.	1.2	12
32	Selection of phase change material and establishment of thermophysical properties of phase change material integrated with roof of a building using Measure of Key Response index: Proposal of a new parameter. <i>Journal of Energy Storage</i> , 2020, 32, 101812.	3.9	12
33	Enrichment of heat transfer in a latent heat storage unit using longitudinal fins. <i>Heat Transfer</i> , 2020, 49, 2659-2685.	1.7	12
34	Recurrence analysis of pressure signals for identification of intermittent flow sub-regimes. <i>Journal of Petroleum Science and Engineering</i> , 2021, 204, 108758.	2.1	12
35	A high-resolution Navier-Stokes solver for direct numerical simulation of free shear flow. <i>Numerical Heat Transfer, Part B: Fundamentals</i> , 2018, 74, 840-860.	0.6	11
36	A modified heat transfer correlation for two-phase flow. <i>Heat and Mass Transfer</i> , 2011, 47, 1159-1170.	1.2	10

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37	On wave damping occurring during source-based generation of steep waves in deep and near-shallow water. <i>Ocean Engineering</i> , 2017, 135, 98-116.	1.9	10
38	A review on fundamental properties of the jet in the wave environment. <i>Ocean Engineering</i> , 2022, 250, 110914.	1.9	10
39	Prediction of liquid height for onset of slug flow. <i>Canadian Journal of Chemical Engineering</i> , 2012, 90, 1295-1303.	0.9	9
40	A relative assessment of sub grid scale models for large eddy simulation of co-axial combustor. <i>Journal of Mechanical Science and Technology</i> , 2012, 26, 1753-1763.	0.7	9
41	A Lagrangian-Eulerian Volume-Tracking with Linearity-Preserving Interface Reconstruction. <i>Numerical Heat Transfer, Part B: Fundamentals</i> , 2015, 68, 459-478.	0.6	9
42	Influence of fuel injection method on performance of upward swirl can-type combustor. <i>Applied Thermal Engineering</i> , 2018, 130, 319-330.	3.0	9
43	Experimental investigations on thermo-hydrodynamics of continuous Taylor bubble flow through minichannel. <i>International Journal of Heat and Mass Transfer</i> , 2016, 94, 119-137.	2.5	8
44	On instantaneous pressure surges and time averaged pressure drop in intermittent regime of two-phase flow. <i>Journal of Petroleum Science and Engineering</i> , 2021, 205, 108971.	2.1	8
45	Analysis of dispersion of heated effluent from power plant: a case study. <i>Sadhana - Academy Proceedings in Engineering Sciences</i> , 2017, 42, 557-574.	0.8	7
46	An improved compressive volume of fluid scheme for capturing sharp interfaces using hybridization. <i>Numerical Heat Transfer, Part B: Fundamentals</i> , 2021, 79, 29-53.	0.6	7
47	Entropy generation assessment of shell and tube latent heat storage unit. <i>International Journal of Exergy</i> , 2015, 16, 97.	0.2	6
48	Direct numerical simulation of forced turbulent round jet: Effect of flow confinement and varicose excitation. <i>Physics of Fluids</i> , 2021, 33, 075108.	1.6	6
49	A Lagrangian-Eulerian advection scheme with moment-of-fluid interface reconstruction. <i>Numerical Heat Transfer, Part B: Fundamentals</i> , 2016, 69, 563-574.	0.6	5
50	A modified switching technique for advection and capturing of surfaces. <i>Applied Mathematical Modelling</i> , 2021, 92, 349-379.	2.2	5
51	Physics of aeration in slug: flow visualization analysis in horizontal pipes. <i>Journal of Visualization</i> , 2021, 24, 917-930.	1.1	4
52	Analysis of interfacial dynamics in stratified and wavy-stratified flow using Laser Doppler Velocimetry. <i>Experimental and Computational Multiphase Flow</i> , 2022, 4, 142-155.	1.9	4
53	A MODIFIED CHISHOLM'S INTERACTION FACTOR FOR AIR-WATER TWO-PHASE FLOW THROUGH A HORIZONTAL PIPE. <i>Multiphase Science and Technology</i> , 2013, 25, 57-78.	0.2	4
54	A sharpness preserving scheme for interfacial flows. <i>Applied Mathematical Modelling</i> , 2016, 40, 9398-9426.	2.2	3

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55	Numerical Investigations into the Effect of Confinement on the Stability of an Oscillating Planar Liquid Jet. IOP Conference Series: Materials Science and Engineering, 2021, 1128, 012032.	0.3	3
56	Recognition of onset of slug using recurrence analysis of pressure signal. Nuclear Engineering and Design, 2021, 381, 111325.	0.8	3
57	A consistent balanced force refined moment-of-fluid method for surface tension dominant two-phase flows. Numerical Heat Transfer, Part B: Fundamentals, 2018, 74, 432-449.	0.6	2
58	Direct numerical simulation of turbulent round jet released in regular waves. Applied Ocean Research, 2022, 125, 103248.	1.8	2
59	CFD Analysis on Taylor Slug Flow Through 3D Vertical Mini-Channel. , 2011, , .		1
60	Refined moment-of-fluid method. Numerical Heat Transfer, Part B: Fundamentals, 2017, 71, 574-591.	0.6	1
61	Experimental Investigations on Onset of Slugging in Horizontal Air-Water Two-Phase Flow. Lecture Notes in Mechanical Engineering, 2017, , 157-166.	0.3	1
62	A Parallelized Inflow-Boundary-Based Numerical Tank: Performance on Individual SMA Nodes. Lecture Notes in Civil Engineering, 2019, , 663-672.	0.3	1
63	Behavior of synchronous and asynchronous spatially oscillating planar liquid jets in tandem. Physics of Fluids, 2021, 33, 052102.	1.6	1
64	Heat Transfer Augmentation Using Fins of Various Cross Section Under Steady State. , 2006, , 431.		0
65	Simulation of Transport Phenomena and Interfacial Dynamics During Czochralski Growth of Oxide Crystals. , 2008, , .		0
66	Isothermal Analysis of CAN Type Combustor Using Five Hole Probe. Journal of the Institution of Engineers (India): Series C, 2012, 93, 313-324.	0.7	0
67	Experimental Investigation of Degree of Premixing on Isothermal Air-Water Two-Phase Flow Through Minichannel. , 2013, , .		0
68	Experimental Investigation of Degree of Premixing on Isothermal Air-Water Two-Phase Flow Through Minichannel. , 2014, , .		0
69	Investigation on Air-Water Two-Phase Flow in Downward Minichannel. , 2014, , .		0
70	Fluid Mechanics and Fluid Power (FMFP). Sadhana - Academy Proceedings in Engineering Sciences, 2017, 42, 447-448.	0.8	0
71	Investigations on Thermal Performance of Spiral Finned Latent Heat Storage Unit. Lecture Notes in Mechanical Engineering, 2021, , 285-294.	0.3	0
72	Stability Analysis of Two-Phase Slug Flow Using OpenFOAM. Lecture Notes in Mechanical Engineering, 2021, , 471-479.	0.3	0

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73	Properties of blended advection schemes for hyperbolic conservation laws. Sadhana - Academy Proceedings in Engineering Sciences, 2021, 46, 1.	0.8	0
74	Performance Evaluation of Upward Swirl Combustor with Reverse Fuel Injector and Hydrogen Blending. Green Energy and Technology, 2022, , 383-410.	0.4	0
75	Comparative Study of the Fluid Interface-Capturing High-Resolution Algebraic Schemes. Lecture Notes in Mechanical Engineering, 2021, , 23-32.	0.3	0
76	Implementation of Modified-CICSAM Algorithm for Three Dimensional Two Phase Flow. Lecture Notes in Mechanical Engineering, 2017, , 1019-1028.	0.3	0
77	Analysis of Turbulence in Entrance Regime of Rectangular Duct Using Hot Film Anemometer. Lecture Notes in Mechanical Engineering, 2017, , 605-614.	0.3	0
78	A Novel Design Philosophy for Mixed Flow Compressor. Lecture Notes in Mechanical Engineering, 2017, , 785-793.	0.3	0