

Arindam Banerjee

List of Publications by Year in descending order

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Version: 2024-02-01

61
papers

1,358
citations

361045

20
h-index

344852

36
g-index

63
all docs

63
docs citations

63
times ranked

1111
citing authors

#	ARTICLE	IF	CITATIONS
1	Performance characterization and placement of a marine hydrokinetic turbine in a tidal channel under boundary proximity and blockage effects. <i>Applied Energy</i> , 2015, 148, 121-133.	5.1	140
2	Near-wall hindered Brownian diffusion of nanoparticles examined by three-dimensional ratiometric total internal reflection fluorescence microscopy (3-D R-TIRFM). <i>Experiments in Fluids</i> , 2004, 37, 811-824.	1.1	129
3	Development and validation of a turbulent-mix model for variable-density and compressible flows. <i>Physical Review E</i> , 2010, 82, 046309.	0.8	104
4	Temperature Distribution in Different Materials Due to Short Pulse Laser Irradiation. <i>Heat Transfer Engineering</i> , 2005, 26, 41-49.	1.2	96
5	Working fluid selection for organic Rankine cycle power generation using hot produced supercritical CO ₂ from a geothermal reservoir. <i>Applied Thermal Engineering</i> , 2019, 149, 1287-1304.	3.0	85
6	Experimental verification of near-wall hindered diffusion for the Brownian motion of nanoparticles using evanescent wave microscopy. <i>Physical Review E</i> , 2005, 72, 042101.	0.8	84
7	Detailed measurements of a statistically steady Rayleigh-Taylor mixing layer from small to high Atwood numbers. <i>Journal of Fluid Mechanics</i> , 2010, 659, 127-190.	1.4	74
8	3D Simulations to investigate initial condition effects on the growth of Rayleigh-Taylor mixing. <i>International Journal of Heat and Mass Transfer</i> , 2009, 52, 3906-3917.	2.5	59
9	Statistically steady measurements of Rayleigh-Taylor mixing in a gas channel. <i>Physics of Fluids</i> , 2006, 18, 035107.	1.6	43
10	Performance and near-wake characterization of a tidal current turbine in elevated levels of free stream turbulence. <i>Applied Energy</i> , 2019, 254, 113639.	5.1	41
11	Rayleigh-Taylor Instability: A Status Review of Experimental Designs and Measurement Diagnostics. <i>Journal of Fluids Engineering, Transactions of the ASME</i> , 2020, 142, .	0.8	30
12	Flow transport and gas mixing during invasive high frequency oscillatory ventilation. <i>Medical Engineering and Physics</i> , 2014, 36, 647-658.	0.8	27
13	Numerical investigation and evaluation of optimum hydrodynamic performance of a horizontal axis hydrokinetic turbine. <i>Journal of Renewable and Sustainable Energy</i> , 2011, 3, .	0.8	25
14	On Blockage Effects for a Tidal Turbine in Free Surface Proximity. <i>Energies</i> , 2019, 12, 3325.	1.6	25
15	Effects of Atwood and Reynolds numbers on the evolution of buoyancy-driven homogeneous variable-density turbulence. <i>Journal of Fluid Mechanics</i> , 2020, 895, .	1.4	25
16	Numerical investigation of initial condition effects on Rayleigh-Taylor instability with acceleration reversals. <i>Physical Review E</i> , 2016, 94, 053114.	0.8	23
17	A coupled hydro-structural design optimization for hydrokinetic turbines. <i>Journal of Renewable and Sustainable Energy</i> , 2013, 5, 053146.	0.8	22
18	Robust design with imprecise random variables and its application in hydrokinetic turbine optimization. <i>Engineering Optimization</i> , 2014, 46, 393-419.	1.5	21

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19	Mucus transport and distribution by steady expiration in an idealized airway geometry. <i>Medical Engineering and Physics</i> , 2019, 66, 26-39.	0.8	21
20	Variable-density buoyancy-driven turbulence with asymmetric initial density distribution. <i>Physica D: Nonlinear Phenomena</i> , 2020, 406, 132444.	1.3	21
21	Aerosolized drug delivery in patient-specific lung model during invasive high frequency oscillatory ventilation. <i>Journal of Aerosol Science</i> , 2015, 81, 1-20.	1.8	18
22	A spatially nonlinear generalised actuator disk model for the simulation of horizontal axis wind and tidal turbines. <i>Energy</i> , 2020, 194, 116803.	4.5	17
23	Tidal turbine performance and near-wake characteristics in a sheared turbulent inflow. <i>Renewable Energy</i> , 2021, 175, 840-852.	4.3	17
24	Surface protrusion based mechanisms of augmenting energy extraction from vibrating cylinders at Reynolds number 3×10^3 – 3×10^4 . <i>Journal of Renewable and Sustainable Energy</i> , 2014, 6, .	0.8	15
25	The role of coupled resistance–compliance in upper tracheobronchial airways under high frequency oscillatory ventilation. <i>Medical Engineering and Physics</i> , 2014, 36, 1593-1604.	0.8	14
26	Rayleigh-Taylor-instability experiments with elastic-plastic materials. <i>Physical Review E</i> , 2019, 99, 053104.	0.8	14
27	Towards a better understanding of yawed turbine wake for efficient wake steering in tidal arrays. <i>Renewable Energy</i> , 2021, 177, 482-494.	4.3	14
28	On hot-wire diagnostics in Rayleigh–Taylor mixing layers. <i>Experiments in Fluids</i> , 2009, 47, 49-68.	1.1	13
29	A biomechanical model of pendelluft induced lung injury. <i>Journal of Biomechanics</i> , 2015, 48, 1804-1810.	0.9	12
30	Fluid flow and particle transport in mechanically ventilated airways. Part I. Fluid flow structures. <i>Medical and Biological Engineering and Computing</i> , 2016, 54, 1085-1096.	1.6	12
31	Rayleigh–Taylor Instability With Varying Periods of Zero Acceleration. <i>Journal of Fluids Engineering, Transactions of the ASME</i> , 2020, 142, .	0.8	11
32	A hybrid in vitro in silico framework for albuterol delivery through an adult ventilator circuit to a patient-specific lung airway model. <i>Journal of Aerosol Science</i> , 2021, 158, 105844.	1.8	10
33	Effect of Non-Newtonian Dynamics on the Clearance of Mucus From Bifurcating Lung Airway Models. <i>Journal of Biomechanical Engineering</i> , 2021, 143, .	0.6	10
34	On passive control of transition to galloping of a circular cylinder undergoing vortex induced vibration using thick strips. <i>Ocean Engineering</i> , 2018, 163, 223-231.	1.9	9
35	A Convection Heat Transfer Correlation for a Binary Air-Helium Mixture at Low Reynolds Number. <i>Journal of Heat Transfer</i> , 2007, 129, 1494-1505.	1.2	8
36	Fluid flow and particle transport in mechanically ventilated airways. Part II: particle transport. <i>Medical and Biological Engineering and Computing</i> , 2016, 54, 1097-1109.	1.6	8

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37	Three-Dimensional Tracking of Nanoparticles Using R-TIRFM Technique. Journal of Heat Transfer, 2004, 126, 505-505.	1.2	6
38	Numerical Modeling and Optimization of Hydrokinetic Turbine. , 2011, , .		6
39	Passive and reactive scalar measurements in a transient high-Schmidt-number Rayleigh-Taylor mixing layer. Experiments in Fluids, 2012, 53, 717-729.	1.1	5
40	Effects of variable deceleration periods on Rayleigh-Taylor instability with acceleration reversals. Physical Review E, 2022, 105, .	0.8	5
41	Role of carrier gases in enhancement of gas exchange and aerosol drug delivery under invasive high frequency oscillatory ventilation. Journal of Aerosol Science, 2015, 88, 1-18.	1.8	4
42	Thermo-economic analysis of a direct supercritical CO2 electric power generation system using geothermal heat. Frontiers in Energy, 2022, 16, 246-262.	1.2	4
43	Flow Regimes in Buoyancy-Driven Homogeneous Variable-Density Turbulence. Springer Proceedings in Physics, 2019, , 235-240.	0.1	4
44	Role of initial conditions in unstably stratified hydrogen-air mixing zones. International Journal of Hydrogen Energy, 2011, 36, 11174-11182.	3.8	3
45	Water usage and energy penalty of different hybrid cooling system configurations for a natural gas combined cycle power plant Effect of carbon capture unit integration. International Journal of Energy Research, 2019, 43, 5879-5896.	2.2	3
46	Practical optimal control of a wave-energy converter in regular wave environments. Renewable Energy, 2021, 171, 1382-1394.	4.3	3
47	High Atwood Number Effects in Buoyancy Driven Flows. , 2006, , 415.		2
48	Experimental simulation of lightning optical emissions in clouds. Journal Physics D: Applied Physics, 2006, 39, 575-583.	1.3	2
49	Design Feasibility of a Vortex Induced Vibration Based Hydro-Kinetic Energy Harvesting System. , 2011, , .		2
50	Hydrokinetic Energy Harvesting System From Vortex Induced Vibrations of Submerged Bodies. , 2011, , .		2
51	Effect of inhaled gas density on the pendelluft-induced lung injury. Journal of Biomechanics, 2016, 49, 4039-4047.	0.9	2
52	Performance Evaluation of Floating Two-Body Wave Energy Converter with Hydraulic Power Take-Off System. Lecture Notes in Civil Engineering, 2019, , 883-897.	0.3	2
53	DEVELOPMENT OF MICROSCALE VISUALIZATION TECHNIQUES;. Journal of Flow Visualization and Image Processing, 2004, 11, 153-176.	0.3	2
54	Experimental Investigation of Statistically Steady Rayleigh-Taylor Mixing at High Atwood Numbers. , 2005, , 159.		1

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55	Buoyancy Driven Effects in Formation of Mixing Zones. , 2008, , .		1
56	Effect of Free-Stream Turbulence on the Loads Experienced by a Marine Hydrokinetic Turbine. , 2016, , .		1
57	Site-specific Modeling of self-reacting point absorber in real wave spectrum. Ocean Engineering, 2021, 238, 109736.	1.9	1
58	Study of Temperature Distribution in Different Materials Due to Laser Irradiation. , 2002, , .		0
59	Visualizations of Buoyancy Driven Mixing. , 2005, , 119.		0
60	Density and Growth Rate Measurements in a High Atwood Number Rayleigh-Taylor Mixing. , 2005, , 295.		0
61	Extended Near Wall Hindered Diffusion Theory for Nanoparticles Under Short and Long Range Interactions. , 2009, , .		0