Arindam Banerjee

List of Publications by Year
in descending order

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61	1,358	361045	344852
papers	citations	20 h-index	36 g-index

63	63	63	1111
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	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
2	Effects of variable deceleration periods on Rayleigh-Taylor instability with acceleration reversals. Physical Review E, 2022, 105, .	0.8	5
3	Practical optimal control of a wave-energy converter in regular wave environments. Renewable Energy, 2021, 171, 1382-1394.	4.3	3
4	Tidal turbine performance and near-wake characteristics in a sheared turbulent inflow. Renewable Energy, 2021, 175, 840-852.	4.3	17
5	Site-specific Modeling of self-reacting point absorber in real wave spectrum. Ocean Engineering, 2021, 238, 109736.	1.9	1
6	A hybrid in vitro in silico framework for albuterol delivery through an adult ventilator circuit to a patient-specific lung airway model. Journal of Aerosol Science, 2021, 158, 105844.	1.8	10
7	Towards a better understanding of yawed turbine wake for efficient wake steering in tidal arrays. Renewable Energy, 2021, 177, 482-494.	4.3	14
8	Effect of Non-Newtonian Dynamics on the Clearance of Mucus From Bifurcating Lung Airway Models. Journal of Biomechanical Engineering, 2021, 143, .	0.6	10
9	A spatially nonlinear generalised actuator disk model for the simulation of horizontal axis wind and tidal turbines. Energy, 2020, 194, 116803.	4.5	17
10	Effects of Atwood and Reynolds numbers on the evolution of buoyancy-driven homogeneous variable-density turbulence. Journal of Fluid Mechanics, 2020, 895, .	1.4	25
11	Variable-density buoyancy-driven turbulence with asymmetric initial density distribution. Physica D: Nonlinear Phenomena, 2020, 406, 132444.	1.3	21
12	Rayleighâ€“Taylor Instability With Varying Periods of Zero Acceleration. Journal of Fluids Engineering, Transactions of the ASME, 2020, 142, .	0.8	11
13	Rayleigh-Taylor Instability: A Status Review of Experimental Designs and Measurement Diagnostics. Journal of Fluids Engineering, Transactions of the ASME, 2020, 142, .	0.8	30
14	Performance and near-wake characterization of a tidal current turbine in elevated levels of free stream turbulence. Applied Energy, 2019, 254, 113639.	5.1	41
15	Water usage and energy penalty of different hybrid cooling system configurations for a natural gas combined cycle power plantâ€”Effect of carbon capture unit integration. International Journal of Energy Research, 2019, 43, 5879-5896.	2.2	3
16	On Blockage Effects for a Tidal Turbine in Free Surface Proximity. Energies, 2019, 12, 3325.	1.6	25
17	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
18	Rayleigh-Taylor-instability experiments with elastic-plastic materials. Physical Review E, 2019, 99, 053104.	0.8	14

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19	Mucus transport and distribution by steady expiration in an idealized airway geometry. Medical Engineering and Physics, 2019, 66, 26-39.	0.8	21
20	Working fluid selection for organic Rankine cycle power generation using hot produced supercritical CO2 from a geothermal reservoir. Applied Thermal Engineering, 2019, 149, 1287-1304.	3.0	85
21	Flow Regimes in Buoyancy-Driven Homogeneous Variable-Density Turbulence. Springer Proceedings in Physics, 2019, , 235-240.	0.1	4
22	On passive control of transition to galloping of a circular cylinder undergoing vortex induced vibration using thick strips. Ocean Engineering, 2018, 163, 223-231.	1.9	9
23	Effect of Free-Stream Turbulence on the Loads Experienced by a Marine Hydrokinetic Turbine. , 2016, , .		1
24	Numerical investigation of initial condition effects on Rayleigh-Taylor instability with acceleration reversals. Physical Review E, 2016, 94, 053114.	0.8	23
25	Effect of inhaled gas density on the pendelluft-induced lung injury. Journal of Biomechanics, 2016, 49, 4039-4047.	0.9	2
26	Fluid flow and particle transport in mechanically ventilated airways. Part II: particle transport. Medical and Biological Engineering and Computing, 2016, 54, 1097-1109.	1.6	8
27	Fluid flow and particle transport in mechanically ventilated airways. Part I. Fluid flow structures. Medical and Biological Engineering and Computing, 2016, 54, 1085-1096.	1.6	12
28	Role of carrier gases in enhancement of gas exchange and aerosolâ€“drug delivery under invasive high frequency oscillatory ventilation. Journal of Aerosol Science, 2015, 88, 1-18.	1.8	4
29	Performance characterization and placement of a marine hydrokinetic turbine in a tidal channel under boundary proximity and blockage effects. Applied Energy, 2015, 148, 121-133.	5.1	140
30	A biomechanical model of pendelluft induced lung injury. Journal of Biomechanics, 2015, 48, 1804-1810.	0.9	12
31	Aerosolized drug delivery in patient-specific lung model during invasive high frequency oscillatory ventilation. Journal of Aerosol Science, 2015, 81, 1-20.	1.8	18
32	Surface protrusion based mechanisms of augmenting energy extraction from vibrating cylinders at Reynolds number 3â€‰Ã—â€‰103â€“3â€‰Ã—â€‰104. Journal of Renewable and Sustainable Energy, 2014, 6, .	0.8	15
33	Robust design with imprecise random variables and its application in hydrokinetic turbine optimization. Engineering Optimization, 2014, 46, 393-419.	1.5	21
34	The role of coupled resistanceâ€“compliance in upper tracheobronchial airways under high frequency oscillatory ventilation. Medical Engineering and Physics, 2014, 36, 1593-1604.	0.8	14
35	Flow transport and gas mixing during invasive high frequency oscillatory ventilation. Medical Engineering and Physics, 2014, 36, 647-658.	0.8	27
36	A coupled hydro-structural design optimization for hydrokinetic turbines. Journal of Renewable and Sustainable Energy, 2013, 5, 053146.	0.8	22

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37	Passive and reactive scalar measurements in a transient high-Schmidt-number Rayleighâ€“Taylor mixing layer. Experiments in Fluids, 2012, 53, 717-729.	1.1	5
38	Design Feasibility of a Vortex Induced Vibration Based Hydro-Kinetic Energy Harvesting System. , 2011, , .		2
39	Role of initial conditions in unstably stratified hydrogen-air mixing zones. International Journal of Hydrogen Energy, 2011, 36, 11174-11182.	3.8	3
40	Numerical Modeling and Optimization of Hydrokinetic Turbine. , 2011, , .		6
41	Hydrokinetic Energy Harvesting System From Vortex Induced Vibrations of Submerged Bodies. , 2011, , .		2
42	Numerical investigation and evaluation of optimum hydrodynamic performance of a horizontal axis hydrokinetic turbine. Journal of Renewable and Sustainable Energy, 2011, 3, .	0.8	25
43	Detailed measurements of a statistically steady Rayleighâ€“Taylor mixing layer from small to high Atwood numbers. Journal of Fluid Mechanics, 2010, 659, 127-190.	1.4	74
44	Development and validation of a turbulent-mix model for variable-density and compressible flows. Physical Review E, 2010, 82, 046309.	0.8	104
45	On hot-wire diagnostics in Rayleighâ€“Taylor mixing layers. Experiments in Fluids, 2009, 47, 49-68.	1.1	13
46	3D Simulations to investigate initial condition effects on the growth of Rayleighâ€“Taylor mixing. International Journal of Heat and Mass Transfer, 2009, 52, 3906-3917.	2.5	59
47	Extended Near Wall Hindered Diffusion Theory for Nanoparticles Under Short and Long Range Interactions. , 2009, , .		0
48	Buoyancy Driven Effects in Formation of Mixing Zones. , 2008, , .		1
49	A Convection Heat Transfer Correlation for a Binary Air-Helium Mixture at Low Reynolds Number. Journal of Heat Transfer, 2007, 129, 1494-1505.	1.2	8
50	High Atwood Number Effects in Buoyancy Driven Flows. , 2006, , 415.		2
51	Experimental simulation of lightning optical emissions in clouds. Journal Physics D: Applied Physics, 2006, 39, 575-583.	1.3	2
52	Statistically steady measurements of Rayleigh-Taylor mixing in a gas channel. Physics of Fluids, 2006, 18, 035107.	1.6	43
53	Visualizations of Buoyancy Driven Mixing. , 2005, , 119.		0
54	Experimental Investigation of Statistically Steady Rayleigh-Taylor Mixing at High Atwood Numbers. , 2005, , 159.		1

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55	Density and Growth Rate Measurements in a High Atwood Number Rayleigh-Taylor Mixing. , 2005, , 295.		0
56	Experimental verification of near-wall hindered diffusion for the Brownian motion of nanoparticles using evanescent wave microscopy. Physical Review E, 2005, 72, 042101.	0.8	84
57	Temperature Distribution in Different Materials Due to Short Pulse Laser Irradiation. Heat Transfer Engineering, 2005, 26, 41-49.	1.2	96
58	Three-Dimensional Tracking of Nanoparticles Using R-TIRFM Technique. Journal of Heat Transfer, 2004, 126, 505-505.	1.2	6
59	Near-wall hindered Brownian diffusion of nanoparticles examined by three-dimensional ratiometric total internal reflection fluorescence microscopy (3-D R-TIRFM). Experiments in Fluids, 2004, 37, 811-824.	1.1	129
60	DEVELOPMENT OF MICROSCALE VISUALIZATION TECHNIQUES;. Journal of Flow Visualization and Image Processing, 2004, 11, 153-176.	0.3	2
61	Study of Temperature Distribution in Different Materials Due to Laser Irradiation. , 2002, , .		0