

Sourabh Apte

List of Publications by Year in descending order

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27
papers

1,058
citations

430754

18
h-index

526166

27
g-index

27
all docs

27
docs citations

27
times ranked

993
citing authors

#	ARTICLE	IF	CITATIONS
1	Clustering of inertial particles in turbulent flow through a porous unit cell. <i>Journal of Fluid Mechanics</i> , 2022, 937, .	1.4	4
2	A disturbance corrected point-particle approach for two-way coupled particle-laden flows on arbitrary shaped grids. <i>Journal of Computational Physics</i> , 2021, 439, 110381.	1.9	2
3	An LES study of secondary motion and wall shear stresses in a pipe bend. <i>Physics of Fluids</i> , 2021, 33, .	1.6	12
4	Modeling Turbulent Flows in Porous Media. <i>Annual Review of Fluid Mechanics</i> , 2020, 52, 171-203.	10.8	75
5	A correction scheme for wall-bounded two-way coupled point-particle simulations. <i>Journal of Computational Physics</i> , 2020, 420, 109711.	1.9	15
6	Characteristics of turbulence in a face-centred cubic porous unit cell. <i>Journal of Fluid Mechanics</i> , 2019, 873, 608-645.	1.4	19
7	Volumetric displacement effects in Euler-Lagrange LES of particle-laden jet flows. <i>International Journal of Multiphase Flow</i> , 2019, 113, 16-32.	1.6	28
8	Effect of heated air blanket on the dispersion of squames in an operating room. <i>International Journal for Numerical Methods in Biomedical Engineering</i> , 2018, 34, e2960.	1.0	11
9	Spatio-temporal analysis of hydrodynamic forces on the particle bed in an oscillatory flow environment. <i>Journal of Fluid Mechanics</i> , 2018, 841, 167-202.	1.4	6
10	Angular multiscale statistics of turbulence in a porous bed. <i>Physical Review Fluids</i> , 2018, 3, .	1.0	15
11	The importance and challenge of hyporheic mixing. <i>Water Resources Research</i> , 2017, 53, 3565-3575.	1.7	77
12	Particle based modelling and simulation of natural sand dynamics in the wave bottom boundary layer. <i>Journal of Fluid Mechanics</i> , 2016, 796, 340-385.	1.4	66
13	DNS study of particle-bed turbulence interactions in an oscillatory wall-bounded flow. <i>Journal of Fluid Mechanics</i> , 2016, 792, 232-251.	1.4	29
14	Flow structure and mean residence times of lateral cavities in open channel flows: influence of bed roughness and shape. <i>Environmental Fluid Mechanics</i> , 2015, 15, 1069-1100.	0.7	22
15	Parameterization of Mean Residence Times in Idealized Rectangular Dead Zones Representative of Natural Streams. <i>Journal of Hydraulic Engineering</i> , 2014, 140, .	0.7	5
16	A mean residence time relationship for lateral cavities in gravel-bed rivers and streams: Incorporating streambed roughness and cavity shape. <i>Water Resources Research</i> , 2013, 49, 3642-3650.	1.7	31
17	Relative performance of body fitted and fictitious domain simulations of flow through fixed packed beds of spheres. <i>International Journal of Multiphase Flow</i> , 2013, 56, 54-71.	1.6	31
18	Integrated computation of finite-time Lyapunov exponent fields during direct numerical simulation of unsteady flows. <i>Chaos</i> , 2013, 23, 013145.	1.0	18

#	ARTICLE	IF	CITATIONS
19	Volume displacement effects during bubble entrainment in a travelling vortex ring. <i>Journal of Fluid Mechanics</i> , 2013, 721, 225-267.	1.4	26
20	Defining and measuring the mean residence time of lateral surface transient storage zones in small streams. <i>Water Resources Research</i> , 2012, 48, .	1.7	41
21	A numerical scheme for Euler-Lagrange simulation of bubbly flows in complex systems. <i>International Journal for Numerical Methods in Fluids</i> , 2011, 67, 1865-1898.	0.9	55
22	Modeling and simulation of multiple bubble entrainment and interactions with two dimensional vortical flows. <i>Physics of Fluids</i> , 2011, 23, .	1.6	22
23	Prediction of Small-Scale Cavitation in a High Speed Flow Over an Open Cavity Using Large-Eddy Simulation. <i>Journal of Fluids Engineering, Transactions of the ASME</i> , 2010, 132, .	0.8	12
24	A numerical method for fully resolved simulation (FRS) of rigid particle-flow interactions in complex flows. <i>Journal of Computational Physics</i> , 2009, 228, 2712-2738.	1.9	136
25	Large-eddy simulation of evaporating spray in a coaxial combustor. <i>Proceedings of the Combustion Institute</i> , 2009, 32, 2247-2256.	2.4	58
26	Stochastic modeling of atomizing spray in a complex swirl injector using large eddy simulation. <i>Proceedings of the Combustion Institute</i> , 2009, 32, 2257-2266.	2.4	39
27	Large-Eddy Simulation of Realistic Gas Turbine Combustors. <i>AIAA Journal</i> , 2006, 44, 698-708.	1.5	203