Sourabh Apte

List of Publications by Year
in descending order

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27	1,058	430754	526166
papers	citations	18 h-index	27 g-index

27	27	27	993
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Large-Eddy Simulation of Realistic Gas Turbine Combustors. AIAA Journal, 2006, 44, 698-708.	1.5	203
2	A numerical method for fully resolved simulation (FRS) of rigid particleâ€“flow interactions in complex flows. Journal of Computational Physics, 2009, 228, 2712-2738.	1.9	136
3	The importance and challenge of hyporheic mixing. Water Resources Research, 2017, 53, 3565-3575.	1.7	77
4	Modeling Turbulent Flows in Porous Media. Annual Review of Fluid Mechanics, 2020, 52, 171-203.	10.8	75
5	Particle based modelling and simulation of natural sand dynamics in the wave bottom boundary layer. Journal of Fluid Mechanics, 2016, 796, 340-385.	1.4	66
6	Large-eddy simulation of evaporating spray in a coaxial combustor. Proceedings of the Combustion Institute, 2009, 32, 2247-2256.	2.4	58
7	A numerical scheme for Eulerâ€“Lagrange simulation of bubbly flows in complex systems. International Journal for Numerical Methods in Fluids, 2011, 67, 1865-1898.	0.9	55
8	Defining and measuring the mean residence time of lateral surface transient storage zones in small streams. Water Resources Research, 2012, 48, .	1.7	41
9	Stochastic modeling of atomizing spray in a complex swirl injector using large eddy simulation. Proceedings of the Combustion Institute, 2009, 32, 2257-2266.	2.4	39
10	A mean residence time relationship for lateral cavities in gravel-bed rivers and streams: Incorporating streambed roughness and cavity shape. Water Resources Research, 2013, 49, 3642-3650.	1.7	31
11	Relative performance of body fitted and fictitious domain simulations of flow through fixed packed beds of spheres. International Journal of Multiphase Flow, 2013, 56, 54-71.	1.6	31
12	DNS study of particle-bedâ€“turbulence interactions in an oscillatory wall-bounded flow. Journal of Fluid Mechanics, 2016, 792, 232-251.	1.4	29
13	Volumetric displacement effects in Euler-Lagrange LES of particle-laden jet flows. International Journal of Multiphase Flow, 2019, 113, 16-32.	1.6	28
14	Volume displacement effects during bubble entrainment in a travelling vortex ring. Journal of Fluid Mechanics, 2013, 721, 225-267.	1.4	26
15	Modeling and simulation of multiple bubble entrainment and interactions with two dimensional vortical flows. Physics of Fluids, 2011, 23, .	1.6	22
16	Flow structure and mean residence times of lateral cavities in open channel flows: influence of bed roughness and shape. Environmental Fluid Mechanics, 2015, 15, 1069-1100.	0.7	22
17	Characteristics of turbulence in a face-centred cubic porous unit cell. Journal of Fluid Mechanics, 2019, 873, 608-645.	1.4	19
18	Integrated computation of finite-time Lyapunov exponent fields during direct numerical simulation of unsteady flows. Chaos, 2013, 23, 013145.	1.0	18

#	Article	IF	Citations
19	A correction scheme for wall-bounded two-way coupled point-particle simulations. Journal of Computational Physics, 2020, 420, 109711.	1.9	15
20	Angular multiscale statistics of turbulence in a porous bed. Physical Review Fluids, 2018, 3, .	1.0	15
21	Prediction of Small-Scale Cavitation in a High Speed Flow Over an Open Cavity Using Large-Eddy Simulation. Journal of Fluids Engineering, Transactions of the ASME, 2010, 132, .	0.8	12
22	An LES study of secondary motion and wall shear stresses in a pipe bend. Physics of Fluids, 2021, 33, .	1.6	12
23	Effect of heatedâ€air blanket on the dispersion of squames in an operating room. International Journal for Numerical Methods in Biomedical Engineering, 2018, 34, e2960.	1.0	11
24	Spatioâ€“temporal analysis of hydrodynamic forcesÂon the particle bed in an oscillatory flowÂenvironment. Journal of Fluid Mechanics, 2018, 841, 167-202.	1.4	6
25	Parameterization of Mean Residence Times in Idealized Rectangular Dead Zones Representative of Natural Streams. Journal of Hydraulic Engineering, 2014, 140, .	0.7	5
26	Clustering of inertial particles in turbulent flow through a porous unit cell. Journal of Fluid Mechanics, 2022, 937, .	1.4	4
27	A disturbance corrected point-particle approach for two-way coupled particle-laden flows on arbitrary shaped grids. Journal of Computational Physics, 2021, 439, 110381.	1.9	2