Dhiraj V Patil

List of Publications by Year
in descending order

15 papers	365 citations	933447 10 h-index	996975 15 g-index
15 all docs	15 docs citations	15 times ranked	300 citing authors

#	Article	IF	Citations
1	Finite volume TVD formulation of lattice Boltzmann simulation on unstructured mesh. Journal of Computational Physics, 2009, 228, 5262-5279.	3.8	107
2	Lattice Boltzmann simulation of lid-driven flow in deep cavities. Computers and Fluids, 2006, 35, 1116-1125.	2.5	69
3	Multigrid lattice Boltzmann method for accelerated solution of elliptic equations. Journal of Computational Physics, 2014, 265, 172-194.	3.8	32
4	Experimental insights on the water entry of hydrophobic sphere. Physics of Fluids, 2021, 33, .	4.0	25
5	QUASIEQUILIBRIUM LATTICE BOLTZMANN MODELS WITH TUNABLE PRANDTL NUMBER FOR INCOMPRESSIBLE HYDRODYNAMICS. International Journal of Modern Physics C, 2013, 24, 1340004.	1.7	19
6	Chapmanâ€"Enskog analysis for finite-volume formulation of lattice Boltzmann equation. Physica A: Statistical Mechanics and Its Applications, 2013, 392, 2701-2712.	2.6	17
7	Assessment of multiple relaxation time-lattice Boltzmann method framework for non-Newtonian fluid flow simulations. European Journal of Mechanics, B/Fluids, 2021, 85, 322-334.	2.5	17
8	Twoâ€dimensional flow past circular cylinders using finite volume lattice Boltzmann formulation. International Journal for Numerical Methods in Fluids, 2012, 69, 1149-1164.	1.6	16
9	Fluid flow in wall-driven enclosures with corrugated bottom. Computers and Fluids, 2017, 152, 1-13.	2.5	15
10	Non-Newtonian power-law fluid flow over obstacles embedded inside a cavity. Physics of Fluids, 2021, 33, .	4.0	11
11	Experimental investigations of crater formation on granular bed subjected to an air-jet impingement. Physics of Fluids, 2020, 32, .	4.0	10
12	Universal mechanism for saturation of vorticity growth in fully developed fluid turbulence. Journal of Fluid Mechanics, 2013, 728, .	3.4	9
13	Natural convection heat transfer with anisotropic thermal diffusion for tilted two-dimensional cavities. International Journal of Heat and Mass Transfer, 2022, 194, 123000.	4.8	9
14	Axisymmetric lattice Boltzmann formulation for mixed convection with anisotropic thermal diffusion and associated bubble breakdown. Physics of Fluids, 2021, 33, 037126.	4.0	5
15	ELECTRODEPOSITION MODELING USING COUPLED PHASE-FIELD AND LATTICE BOLTZMANN APPROACH. International Journal of Modern Physics C, 2014, 25, 1340018.	1.7	4