Jahrul M Alam

List of Publications by Year
in descending order

25 papers	277 citations	1163117 8 h-index	940533 16 g-index
26 all docs	26 docs citations	26 times ranked	212 citing authors

#	Article	IF	Citations
1	Simultaneous spaceâ€“time adaptive wavelet solution of nonlinear parabolic differential equations. Journal of Computational Physics, 2006, 214, 829-857.	3.8	75
2	Scaling of spaceâ€“time modes with Reynolds number in two-dimensional turbulence. Journal of Fluid Mechanics, 2007, 570, 217-226.	3.4	31
3	A computational model of thermal monitoring at a leakage in pipelines. International Journal of Heat and Mass Transfer, 2016, 92, 330-338.	4.8	24
4	Toward a Fully Lagrangian Atmospheric Modeling System. Monthly Weather Review, 2008, 136, 4653-4667.	1.4	21
5	Numerical investigation of two-phase fluid flow in a perforation tunnel. Journal of Natural Gas Science and Engineering, 2018, 55, 606-611.	4.4	18
6	Energy-Conserving Simulation of Incompressible Electro-Osmotic and Pressure-Driven Flow. Theoretical and Computational Fluid Dynamics, 2002, 16, 133-150.	2.2	15
7	A computational methodology for twoâ€dimensional fluid flows. International Journal for Numerical Methods in Fluids, 2014, 75, 835-859.	1.6	12
8	A Multiresolution Model for the Simulation of Transient Heat and Mass Transfer. Numerical Heat Transfer, Part B: Fundamentals, 2012, 61, 147-170.	0.9	9
9	Toward a Multiscale Approach for Computational Atmospheric Modeling. Monthly Weather Review, 2011, 139, 3906-3922.	1.4	8
10	Numerical simulation of two-phase flow in porous media using a wavelet based phase-field method. Chemical Engineering Science, 2017, 173, 230-241.	3.8	8
11	A numerical study of two-phase miscible flow through porous media with a Lagrangian model. Journal of Computational Multiphase Flows, 2017, 9, 127-143.	0.8	7
12	A Lagrangian approach for modelling electro-kinetic mass transfer in microchannels. International Journal of Heat and Mass Transfer, 2012, 55, 7847-7857.	4.8	6
13	Large eddy simulation of flow through a periodic array of urban-like obstacles using a canopy stress method. Computers and Fluids, 2018, 171, 65-78.	2.5	6
14	A wavelet based numerical simulation technique for two-phase flows using the phase field method. Computers and Fluids, 2017, 146, 143-153.	2.5	5
15	Scale-adaptive turbulence modeling for LES over complex terrain. Engineering With Computers, 2022, 38, 1995-2007.	6.1	5
16	A computational fluid dynamics investigation of the flow behavior near a wellbore using three-dimensional Navierâ€“Stokes equations. Advances in Mechanical Engineering, 2019, 11, 168781401987325.	1.6	4
17	A multiscale eddy simulation methodology for the atmospheric Ekman boundary layer. Geophysical and Astrophysical Fluid Dynamics, 0, , 1-20.	1.2	3
18	Fujiwhara interaction of tropical cyclone scale vortices using a weighted residual collocation method. International Journal for Numerical Methods in Fluids, 2016, 82, 91-110.	1.6	3

#	Article	IF	Citations
19	Assessment of a symmetry-preserving JFNK method for atmospheric convection. Computer Physics Communications, 2021, 269, 108113.	7.5	3
20	Statistical Analysis of Dynamic Subgrid Modeling Approaches in Large Eddy Simulation. Aerospace, 2021, 8, 375.	2.2	3
21	A multiscale modeling study for the convective mass transfer in a subsurface aquifer. Heat and Mass Transfer, 2015, 51, 1247-1261.	2.1	2
22	An Experimental Development to Characterise the Flow Phenomena at the Near-Wellbore Region. , 2019, , .		2
23	Mixed Convection Flow Along a Horizontal Circular Cylinder with Small Amplitude Oscillation in Surface Temperature and Free Stream. Mechanical Engineering Research, 2016, 6, 34.	0.2	1
24	Large Eddy Simulation of Turbulent Flow Over a Hill Using a Canopy StressÂModel. Springer Proceedings in Mathematics and Statistics, 2018, , 151-160.	0.2	1
25	Characterizing Impacts of Atmospheric Turbulence on Wind Farms Through Large Eddy Simulation (LES). , 2019, , .		1