

# Jahrul M Alam

## List of Publications by Year in descending order

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25  
papers

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citations

1163117

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h-index

940533

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g-index

26  
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26  
docs citations

26  
times ranked

212  
citing authors

#	ARTICLE	IF	CITATIONS
1	Scale-adaptive turbulence modeling for LES over complex terrain. <i>Engineering With Computers</i> , 2022, 38, 1995-2007.	6.1	5
2	Assessment of a symmetry-preserving JFNK method for atmospheric convection. <i>Computer Physics Communications</i> , 2021, 269, 108113.	7.5	3
3	Statistical Analysis of Dynamic Subgrid Modeling Approaches in Large Eddy Simulation. <i>Aerospace</i> , 2021, 8, 375.	2.2	3
4	A computational fluid dynamics investigation of the flow behavior near a wellbore using three-dimensional Navier-Stokes equations. <i>Advances in Mechanical Engineering</i> , 2019, 11, 168781401987325.	1.6	4
5	An Experimental Development to Characterise the Flow Phenomena at the Near-Wellbore Region. , 2019, , .		2
6	Characterizing Impacts of Atmospheric Turbulence on Wind Farms Through Large Eddy Simulation (LES). , 2019, , .		1
7	Numerical investigation of two-phase fluid flow in a perforation tunnel. <i>Journal of Natural Gas Science and Engineering</i> , 2018, 55, 606-611.	4.4	18
8	Large eddy simulation of flow through a periodic array of urban-like obstacles using a canopy stress method. <i>Computers and Fluids</i> , 2018, 171, 65-78.	2.5	6
9	Large Eddy Simulation of Turbulent Flow Over a Hill Using a Canopy Stress Model. <i>Springer Proceedings in Mathematics and Statistics</i> , 2018, , 151-160.	0.2	1
10	A wavelet based numerical simulation technique for two-phase flows using the phase field method. <i>Computers and Fluids</i> , 2017, 146, 143-153.	2.5	5
11	A numerical study of two-phase miscible flow through porous media with a Lagrangian model. <i>Journal of Computational Multiphase Flows</i> , 2017, 9, 127-143.	0.8	7
12	Numerical simulation of two-phase flow in porous media using a wavelet based phase-field method. <i>Chemical Engineering Science</i> , 2017, 173, 230-241.	3.8	8
13	Mixed Convection Flow Along a Horizontal Circular Cylinder with Small Amplitude Oscillation in Surface Temperature and Free Stream. <i>Mechanical Engineering Research</i> , 2016, 6, 34.	0.2	1
14	Fujiwhara interaction of tropical cyclone scale vortices using a weighted residual collocation method. <i>International Journal for Numerical Methods in Fluids</i> , 2016, 82, 91-110.	1.6	3
15	A computational model of thermal monitoring at a leakage in pipelines. <i>International Journal of Heat and Mass Transfer</i> , 2016, 92, 330-338.	4.8	24
16	A multiscale modeling study for the convective mass transfer in a subsurface aquifer. <i>Heat and Mass Transfer</i> , 2015, 51, 1247-1261.	2.1	2
17	A computational methodology for two-dimensional fluid flows. <i>International Journal for Numerical Methods in Fluids</i> , 2014, 75, 835-859.	1.6	12
18	A Lagrangian approach for modelling electro-kinetic mass transfer in microchannels. <i>International Journal of Heat and Mass Transfer</i> , 2012, 55, 7847-7857.	4.8	6

#	ARTICLE	IF	CITATIONS
19	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
20	Toward a Multiscale Approach for Computational Atmospheric Modeling. Monthly Weather Review, 2011, 139, 3906-3922.	1.4	8
21	Toward a Fully Lagrangian Atmospheric Modeling System. Monthly Weather Review, 2008, 136, 4653-4667.	1.4	21
22	Scaling of space-time modes with Reynolds number in two-dimensional turbulence. Journal of Fluid Mechanics, 2007, 570, 217-226.	3.4	31
23	Simultaneous space-time adaptive wavelet solution of nonlinear parabolic differential equations. Journal of Computational Physics, 2006, 214, 829-857.	3.8	75
24	Energy-Conserving Simulation of Incompressible Electro-Osmotic and Pressure-Driven Flow. Theoretical and Computational Fluid Dynamics, 2002, 16, 133-150.	2.2	15
25	A multiscale eddy simulation methodology for the atmospheric Ekman boundary layer. Geophysical and Astrophysical Fluid Dynamics, 0, , 1-20.	1.2	3