

Zheng-Tong Xie

List of Publications by Year in descending order

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Version: 2024-02-01

30
papers

1,335
citations

516561

16
h-index

477173

29
g-index

31
all docs

31
docs citations

31
times ranked

958
citing authors

#	ARTICLE	IF	CITATIONS
1	Efficient Generation of Inflow Conditions for Large Eddy Simulation of Street-Scale Flows. <i>Flow, Turbulence and Combustion</i> , 2008, 81, 449-470.	1.4	287
2	Large-Eddy Simulation of Flows over Random Urban-like Obstacles. <i>Boundary-Layer Meteorology</i> , 2008, 129, 1-23.	1.2	168
3	Large-eddy simulation for flow and dispersion in urban streets. <i>Atmospheric Environment</i> , 2009, 43, 2174-2185.	1.9	158
4	Divergence-free turbulence inflow conditions for large-eddy simulations with incompressible flow solvers. <i>Computers and Fluids</i> , 2013, 84, 56-68.	1.3	116
5	Modelling the effect of freestream turbulence on dynamic stall of wind turbine blades. <i>Computers and Fluids</i> , 2016, 129, 53-66.	1.3	69
6	Large-Eddy Simulation of Dispersion from Surface Sources in Arrays of Obstacles. <i>Boundary-Layer Meteorology</i> , 2010, 135, 433-454.	1.2	63
7	Peak loading and surface pressure fluctuations of a tall model building. <i>Journal of Wind Engineering and Industrial Aerodynamics</i> , 2013, 120, 19-28.	1.7	56
8	Measurements and Computations of Flow in an Urban Street System. <i>Boundary-Layer Meteorology</i> , 2017, 162, 207-230.	1.2	53
9	Large-eddy simulation of approaching-flow stratification on dispersion over arrays of buildings. <i>Atmospheric Environment</i> , 2013, 71, 64-74.	1.9	41
10	Developing a Research Strategy to Better Understand, Observe, and Simulate Urban Atmospheric Processes at Kilometer to Subkilometer Scales. <i>Bulletin of the American Meteorological Society</i> , 2017, 98, ES261-ES264.	1.7	40
11	Numerical analysis of freestream turbulence effects on the vortex-induced vibrations of a rectangular cylinder. <i>Journal of Wind Engineering and Industrial Aerodynamics</i> , 2016, 153, 13-25.	1.7	38
12	Scalar Fluxes Near a Tall Building in an Aligned Array of Rectangular Buildings. <i>Boundary-Layer Meteorology</i> , 2018, 167, 53-76.	1.2	37
13	Modelling Street-Scale Flow and Dispersion in Realistic Winds—Towards Coupling with Mesoscale Meteorological Models. <i>Boundary-Layer Meteorology</i> , 2011, 141, 53-75.	1.2	32
14	A Note on Spatial Averaging and Shear Stresses Within Urban Canopies. <i>Boundary-Layer Meteorology</i> , 2018, 167, 171-179.	1.2	28
15	Evaluation of fast atmospheric dispersion models in a regular street network. <i>Environmental Fluid Mechanics</i> , 2018, 18, 1007-1044.	0.7	22
16	Large-Eddy Simulation of Heat Transfer from a Single Cube Mounted on a Very Rough Wall. <i>Boundary-Layer Meteorology</i> , 2013, 147, 347-368.	1.2	19
17	Large eddy simulation of flow past stationary and oscillating square cylinders. <i>Journal of Fluids and Structures</i> , 2020, 97, 103107.	1.5	18
18	Large-Eddy Simulation of Dispersion from Line Sources in a Turbulent Channel Flow. <i>Flow, Turbulence and Combustion</i> , 2012, 88, 311-342.	1.4	16

#	ARTICLE	IF	CITATIONS
19	Thermal Stratification Effects on Turbulence and Dispersion in Internal and External Boundary Layers. <i>Boundary-Layer Meteorology</i> , 2020, 176, 61-83.	1.2	15
20	Local and non-local effects of building arrangements on pollutant fluxes within the urban canopy. <i>Building and Environment</i> , 2019, 147, 23-34.	3.0	13
21	Exploration of digital-filter and forward-stepwise synthetic turbulence generators and an improvement for their skewness-kurtosis. <i>Computers and Fluids</i> , 2018, 172, 443-466.	1.3	10
22	Large Eddy simulation of a heaving wing on the Cusp of transition to turbulence. <i>Computers and Fluids</i> , 2019, 184, 64-77.	1.3	10
23	Turbulence and dispersion below and above the interface of the internal and the external boundary layers. <i>Journal of Wind Engineering and Industrial Aerodynamics</i> , 2018, 182, 189-201.	1.7	7
24	Implementation of a synthetic inflow turbulence generator in idealised WRF v3.6.1 large eddy simulations under neutral atmospheric conditions. <i>Geoscientific Model Development</i> , 2021, 14, 323-336.	1.3	6
25	Aerodynamics of a pitching wind turbine blade at high reduced frequencies. <i>Journal of Wind Engineering and Industrial Aerodynamics</i> , 2022, 223, 104935.	1.7	5
26	Overview of large-eddy simulation for wind loading on slender structures. <i>Proceedings of the Institution of Civil Engineers: Engineering and Computational Mechanics</i> , 2022, 175, 41-71.	0.4	3
27	Subgrid-scale stresses and scalar fluxes constructed by the multi-scale turnover Lagrangian map. <i>Physics of Fluids</i> , 2017, 29, .	1.6	2
28	Large-eddy simulation of stratification effects on dispersion in urban environments. <i>Journal of Hydrodynamics</i> , 2010, 22, 956-961.	1.3	1
29	Free-stream Turbulence Effects on Long-span Bridge Aerodynamics. <i>Procedia Engineering</i> , 2015, 126, 199-203.	1.2	1
30	Technical note: A new method for the evaluation of puff dispersion field experiments for the validation of time-resolved dispersion simulations. <i>Atmospheric Environment</i> , 2019, 210, 171-176.	1.9	0