

Zhenqing Liu

List of Publications by Year in descending order

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37
papers

1,019
citations

623734

14
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434195

31
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37
all docs

37
docs citations

37
times ranked

669
citing authors

#	ARTICLE	IF	CITATIONS
1	Computer vision-based concrete crack detection using U-net fully convolutional networks. <i>Automation in Construction</i> , 2019, 104, 129-139.	9.8	452
2	LES study of turbulent flow fields over a smooth 3-D hill and a smooth 2-D ridge. <i>Journal of Wind Engineering and Industrial Aerodynamics</i> , 2016, 153, 1-12.	3.9	57
3	LES study on the turbulent flow fields over complex terrain covered by vegetation canopy. <i>Journal of Wind Engineering and Industrial Aerodynamics</i> , 2016, 155, 60-73.	3.9	42
4	Numerical study of turbulent flow fields and the similarity of tornado vortices using large-eddy simulations. <i>Journal of Wind Engineering and Industrial Aerodynamics</i> , 2015, 145, 42-60.	3.9	36
5	Study of the effects of translation and roughness on tornado-like vortices by large-eddy simulations. <i>Journal of Wind Engineering and Industrial Aerodynamics</i> , 2016, 151, 1-24.	3.9	32
6	Numerical studies of submerged moored box-type floating breakwaters with different shapes of cross-sections using SPH. <i>Coastal Engineering</i> , 2020, 158, 103687.	4.0	32
7	Prediction and optimization of oscillating wave surge converter using machine learning techniques. <i>Energy Conversion and Management</i> , 2020, 210, 112677.	9.2	31
8	Numerical study of the wind loads on a cooling tower by a stationary tornado-like vortex through LES. <i>Journal of Fluids and Structures</i> , 2018, 81, 656-672.	3.4	25
9	Genetic-algorithm-based layout optimization of an offshore wind farm under real seabed terrain encountering an engineering cost model. <i>Energy Conversion and Management</i> , 2021, 245, 114610.	9.2	25
10	Numerical studies and proposal of design equations on cylindrical oscillating wave surge converters under regular waves using SPH. <i>Energy Conversion and Management</i> , 2020, 203, 112242.	9.2	22
11	A study of tornado induced mean aerodynamic forces on a gable-roofed building by the large eddy simulations. <i>Journal of Wind Engineering and Industrial Aerodynamics</i> , 2015, 146, 39-50.	3.9	19
12	Optimization of wind turbine TMD under real wind distribution countering wake effects using GPU acceleration and machine learning technologies. <i>Journal of Wind Engineering and Industrial Aerodynamics</i> , 2021, 208, 104436.	3.9	19
13	Numerical study on dynamics of a tornado-like vortex with touching down by using the LES turbulence model. <i>Wind and Structures, an International Journal</i> , 2014, 19, 89-111.	0.8	17
14	Study of the flow fields over simplified topographies with different roughness conditions using large eddy simulations. <i>Renewable Energy</i> , 2019, 136, 968-992.	8.9	16
15	Large eddy simulations of slope effects on flow fields over isolated hills and ridges. <i>Journal of Wind Engineering and Industrial Aerodynamics</i> , 2020, 201, 104178.	3.9	15
16	Large eddy simulations of wind turbine wakes in typical complex topographies. <i>Wind Energy</i> , 2021, 24, 857-886.	4.2	15
17	Numerical Analysis of a Catenary Mooring System Attached by Clump Masses for Improving the Wave-Resistance Ability of a Spar Buoy-Type Floating Offshore Wind Turbine. <i>Applied Sciences (Switzerland)</i> , 2019, 9, 1075.	2.5	14
18	Numerical simulations of fatigue loads on wind turbines operating in wakes. <i>Wind Energy</i> , 2020, 23, 1301-1316.	4.2	14

#	ARTICLE	IF	CITATIONS
19	Proposal of a novel analytical wake model and array optimization of oscillating wave surge converter using differential evolution algorithm. <i>Ocean Engineering</i> , 2021, 219, 108380.	4.3	14
20	Large-Eddy Simulations of the Flow Over an Isolated Three-Dimensional Hill. <i>Boundary-Layer Meteorology</i> , 2019, 170, 415-441.	2.3	13
21	Numerical study of the structure and dynamics of a tornado at the sub-critical vortex breakdown stage. <i>Journal of Wind Engineering and Industrial Aerodynamics</i> , 2018, 177, 306-326.	3.9	12
22	Proposal of a Novel Semi-Submersible Floating Wind Turbine Platform Composed of Inclined Columns and Multi-Segmented Mooring Lines. <i>Energies</i> , 2019, 12, 1809.	3.1	12
23	Proposal of a novel GPU-accelerated lifetime optimization method for onshore wind turbine dampers under real wind distribution. <i>Renewable Energy</i> , 2021, 168, 516-543.	8.9	11
24	Numerical Study of a Proposed Semi-Submersible Floating Platform with Different Numbers of Offset Columns Based on the DeepCwind Prototype for Improving the Wave-Resistance Ability. <i>Applied Sciences (Switzerland)</i> , 2019, 9, 1255.	2.5	10
25	Effects of Reynolds number in the range from $1.6\tilde{A}-103$ to $1.6\tilde{A}-106$ on the flow fields in tornado-like vortices by LES: A systematical study. <i>Journal of Wind Engineering and Industrial Aerodynamics</i> , 2020, 196, 104028.	3.9	9
26	Numerical study of compact debris in tornadoes at different stages using large eddy simulations. <i>Journal of Wind Engineering and Industrial Aerodynamics</i> , 2021, 210, 104530.	3.9	8
27	Numerical investigation of a swirl diffuser with a novel design using large eddy simulations. <i>Building and Environment</i> , 2018, 135, 124-141.	6.9	7
28	Large Eddy Simulations of the Flow Fields over Simplified Hills with Different Roughness Conditions, Slopes, and Hill Shapes: A Systematical Study. <i>Energies</i> , 2019, 12, 3413.	3.1	7
29	Study of wind-direction effects on flow fields over two-dimensional hills using large eddy simulations. <i>Journal of Wind Engineering and Industrial Aerodynamics</i> , 2020, 204, 104285.	3.9	7
30	Turbulent Flow Fields Over a 3D Hill Covered by Vegetation Canopy Through Large Eddy Simulations. <i>Energies</i> , 2019, 12, 3624.	3.1	5
31	Influence of Forest-Edge Flows on Scalar Transport with Different Vertical Distributions of Foliage and Scalar Sources. <i>Boundary-Layer Meteorology</i> , 2020, 174, 99-117.	2.3	5
32	Proposal of novel analytical wake model and GPU-accelerated array optimization method for oscillating wave surge energy converter. <i>Renewable Energy</i> , 2021, 179, 563-583.	8.9	4
33	Characteristics of compact debris induced by a tornado studied using large eddy simulations. <i>Journal of Wind Engineering and Industrial Aerodynamics</i> , 2021, 208, 104422.	3.9	3
34	Numerical study of tornado-borne debris on a low-rise building through large eddy simulation. <i>Journal of Fluids and Structures</i> , 2021, 106, 103379.	3.4	3
35	Proposal of a Novel Mooring System Using Three-Bifurcated Mooring Lines for Spar-Type Off-Shore Wind Turbines. <i>Energies</i> , 2021, 14, 8303.	3.1	3
36	Proposal and layout optimization of a wind-wave hybrid energy system using GPU-accelerated differential evolution algorithm. <i>Energy</i> , 2022, 239, 121850.	8.8	2

#	ARTICLE	IF	CITATIONS
37	Study of turbulence effects on flying compact debris in tornadoes at different stages. Journal of Wind Engineering and Industrial Aerodynamics, 2021, 218, 104777.	3.9	1