

Yuncheng He

List of Publications by Year in descending order

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65
papers

1,293
citations

331538

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all docs

67
docs citations

67
times ranked

788
citing authors

#	ARTICLE	IF	CITATIONS
1	Performance of a Lever-Gear Type Piezoelectric Energy Harvester for Collecting Pedestrian Energy. Energy Technology, 2022, 10, .	1.8	5
2	Thermodynamic and Kinematic Structures in the Rainband Region of Typhoon Lekima (2019) at Landfall. Atmosphere, 2022, 13, 312.	1.0	4
3	Characterization of Wind Gusts: A Study Based on Meteorological Tower Observations. Applied Sciences (Switzerland), 2022, 12, 2105.	1.3	4
4	Identification of tropical cyclones via deep convolutional neural network based on satellite cloud images. Atmospheric Measurement Techniques, 2022, 15, 1829-1848.	1.2	6
5	RANS simulations of aerodynamic forces on a tall building under twisted winds considering horizontal homogeneity. Journal of Building Engineering, 2022, 54, 104628.	1.6	4
6	Field measurement and wind tunnel experimental investigation of a supertall building with closely spaced modes under typhoon Mangkhut. Journal of Wind Engineering and Industrial Aerodynamics, 2022, 226, 105033.	1.7	10
7	Spatiotemporal variation in air density and associated effects on the wind-induced response of high-rise buildings. Engineering Structures, 2022, 264, 114428.	2.6	2
8	Characterization of daily rainfall variability in Hong Kong: A nonlinear dynamic perspective. International Journal of Climatology, 2021, 41, E2913.	1.5	11
9	Dynamic Characterization of Wind Speed under Extreme Conditions by Recurrence-Based Techniques: Comparative Study. Journal of Aerospace Engineering, 2021, 34, 04020114.	0.8	9
10	Spectral characteristics of surface atmosphere in range of macroscale to microscale at Hong Kong. Journal of Wind Engineering and Industrial Aerodynamics, 2021, 208, 104446.	1.7	3
11	Study of the Properties of a Hybrid Piezoelectric and Electromagnetic Energy Harvester for a Civil Engineering Low-Frequency Sloshing Environment. Energies, 2021, 14, 391.	1.6	5
12	Investigation of chaotic features of surface wind speeds using recurrence analysis. Journal of Wind Engineering and Industrial Aerodynamics, 2021, 210, 104550.	1.7	16
13	Revisiting Typhoon York (9915) at landfall. Journal of Wind Engineering and Industrial Aerodynamics, 2021, 211, 104583.	1.7	4
14	Enhancing the performance of stochastic subspace identification method via energy-oriented categorization of modal components. Engineering Structures, 2021, 233, 111917.	2.6	24
15	Dynamic analysis of meteorological time series in Hong Kong: A nonlinear perspective. International Journal of Climatology, 2021, 41, 4920-4932.	1.5	14
16	Dependence of wind load on air density for highrise buildings. Journal of Wind Engineering and Industrial Aerodynamics, 2021, 211, 104558.	1.7	4
17	Characterization of vertical wind velocity variability based on fractal dimension analysis. Journal of Wind Engineering and Industrial Aerodynamics, 2021, 213, 104608.	1.7	10
18	Reduced Sea-Surface Roughness Length at a Coastal Site. Atmosphere, 2021, 12, 991.	1.0	4

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19	Performance of a bistable flow-energy harvester based on vortex-induced vibration. <i>Journal of Wind Engineering and Industrial Aerodynamics</i> , 2021, 217, 104733.	1.7	9
20	Study on the Efficiency and Dynamic Characteristics of an Energy Harvester Based on Flexible Structure Galloping. <i>Energies</i> , 2021, 14, 6548.	1.6	5
21	Assessing wind gust characteristics at wind turbine relevant height. <i>Journal of Renewable and Sustainable Energy</i> , 2021, 13, .	0.8	4
22	Accurate determination of reference wind speed and reference static pressure in wind tunnel tests. <i>Advances in Structural Engineering</i> , 2020, 23, 578-583.	1.2	7
23	Investigation of Marine Wind Veer Characteristics Using Wind Lidar Measurements. <i>Atmosphere</i> , 2020, 11, 1178.	1.0	15
24	Standardization of marine surface wind speeds at coastal islands. <i>Ocean Engineering</i> , 2020, 213, 107652.	1.9	5
25	Observation of Typhoon Hato based on the 356-m high meteorological gradient tower at Shenzhen. <i>Journal of Wind Engineering and Industrial Aerodynamics</i> , 2020, 207, 104408.	1.7	17
26	Observational study of wind characteristics, wind speed and turbulence profiles during Super Typhoon Mangkhut. <i>Journal of Wind Engineering and Industrial Aerodynamics</i> , 2020, 206, 104362.	1.7	37
27	Field measurements of Tropical Storm Aere (1619) via airborne GPS â€”dropsondes over the South China Sea. <i>Meteorological Applications</i> , 2020, 27, e1958.	0.9	3
28	Structural Responses of a Supertall Building Subjected to a Severe Typhoon at Landfall. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 2965.	1.3	11
29	Seasonal and diurnal variation of marine wind characteristics based on lidar measurements. <i>Meteorological Applications</i> , 2020, 27, e1918.	0.9	13
30	Insights from Super Typhoon Mangkhut (1822) for wind engineering practices. <i>Journal of Wind Engineering and Industrial Aerodynamics</i> , 2020, 203, 104238.	1.7	29
31	Characterising the fractal dimension of wind speed time series under different terrain conditions. <i>Journal of Wind Engineering and Industrial Aerodynamics</i> , 2020, 201, 104165.	1.7	24
32	Bimodal distribution of wind pressure on windward facades of high-rise buildings induced by interference effects. <i>Journal of Wind Engineering and Industrial Aerodynamics</i> , 2020, 200, 104156.	1.7	17
33	A comparison of micrometeorological methods for marine roughness estimation at a coastal area. <i>Journal of Wind Engineering and Industrial Aerodynamics</i> , 2019, 195, 104010.	1.7	11
34	Accurate estimation of tube-induced distortion effects on wind pressure measurements. <i>Journal of Wind Engineering and Industrial Aerodynamics</i> , 2019, 188, 260-268.	1.7	26
35	Toward modeling the spatial pressure field of tropical cyclones: Insights from Typhoon Hato (1713). <i>Journal of Wind Engineering and Industrial Aerodynamics</i> , 2019, 184, 378-390.	1.7	13
36	A height-resolving model of tropical cyclone pressure field. <i>Journal of Wind Engineering and Industrial Aerodynamics</i> , 2019, 186, 84-93.	1.7	8

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37	Monitoring wind effects of a landfall typhoon on a 600 m high skyscraper. Structure and Infrastructure Engineering, 2019, 15, 54-71.	2.0	22
38	Modal identification of civil structures via covariance-driven stochastic subspace method. Mathematical Biosciences and Engineering, 2019, 16, 5709-5728.	1.0	14
39	Modal identification of a high-rise building subjected to a landfall typhoon via both deterministic and Bayesian methods. Mathematical Biosciences and Engineering, 2019, 16, 7155-7176.	1.0	6
40	Investigation of low-level jet characteristics based on wind profiler observations. Journal of Wind Engineering and Industrial Aerodynamics, 2018, 174, 369-381.	1.7	18
41	Observational study on thermodynamic and kinematic structures of Typhoon Vicente (2012) at landfall. Journal of Wind Engineering and Industrial Aerodynamics, 2018, 172, 280-297.	1.7	14
42	Monitoring of structural modal parameters and dynamic responses of a 600m-high skyscraper during a typhoon. Structural Design of Tall and Special Buildings, 2018, 27, e1456.	0.9	12
43	Monitoring of wind effects on 600m high Ping-An Finance Center during Typhoon Haima. Engineering Structures, 2018, 167, 308-326.	2.6	37
44	Observational study of veering wind by Doppler wind profiler and surface weather station. Journal of Wind Engineering and Industrial Aerodynamics, 2018, 178, 18-25.	1.7	27
45	Structural health monitoring for a 600m high skyscraper. Structural Design of Tall and Special Buildings, 2018, 27, e1490.	0.9	60
46	Observation of wind fields over different terrains and wind effects on a super-tall building during a severe typhoon and verification of wind tunnel predictions. Journal of Wind Engineering and Industrial Aerodynamics, 2017, 162, 73-84.	1.7	53
47	Estimation of roughness length at Hong Kong International Airport via different micrometeorological methods. Journal of Wind Engineering and Industrial Aerodynamics, 2017, 171, 121-136.	1.7	17
48	Vertical wind profiles for typhoon, monsoon and thunderstorm winds. Journal of Wind Engineering and Industrial Aerodynamics, 2017, 168, 190-199.	1.7	34
49	Monitoring Wind Characteristics and Structural Performance of a Supertall Building during a Landfall Typhoon. Journal of Structural Engineering, 2016, 142, .	1.7	39
50	Observations of vertical wind profiles of tropical cyclones at coastal areas. Journal of Wind Engineering and Industrial Aerodynamics, 2016, 152, 1-14.	1.7	49
51	Observations of offshore wind characteristics by Doppler-LiDAR for wind energy applications. Applied Energy, 2016, 169, 150-163.	5.1	72
52	Standardization of Offshore Surface Wind Speeds. Journal of Applied Meteorology and Climatology, 2016, 55, 1107-1121.	0.6	7
53	RANS simulation of neutral atmospheric boundary layer flows over complex terrain by proper imposition of boundary conditions and modification on the k- μ model. Environmental Fluid Mechanics, 2016, 16, 1-23.	0.7	51
54	Wind tunnel study of odor impact and air ventilation assessments for relocating sewage treatment works to caverns. Journal of Wind Engineering and Industrial Aerodynamics, 2015, 145, 152-165.	1.7	0

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55	Gust factors for tropical cyclone, monsoon and thunderstorm winds. <i>Journal of Wind Engineering and Industrial Aerodynamics</i> , 2015, 142, 1-14.	1.7	39
56	Standardization of raw wind speed data under complex terrain conditions: A data-driven scheme. <i>Journal of Wind Engineering and Industrial Aerodynamics</i> , 2014, 131, 12-30.	1.7	27
57	Electrowetting on liquid-infused film (EWOLF): Complete reversibility and controlled droplet oscillation suppression for fast optical imaging. <i>Scientific Reports</i> , 2014, 4, 6846.	1.6	116
58	Field measurements of wind characteristics over hilly terrain within surface layer. <i>Wind and Structures, an International Journal</i> , 2014, 19, 541-563.	0.8	7
59	A new kind of energy transfer from high frequency mode to low frequency mode in a composite laminated plate. <i>Acta Mechanica</i> , 2013, 224, 2937-2953.	1.1	13
60	Wind characteristics over different terrains. <i>Journal of Wind Engineering and Industrial Aerodynamics</i> , 2013, 120, 51-69.	1.7	51
61	Wind profiles of tropical cyclones as observed by Doppler wind profiler and anemometer. <i>Wind and Structures, an International Journal</i> , 2013, 17, 419-433.	0.8	29
62	Numerical Simulation of Topographic Effects on Wind Flow Fields Over Complex Terrain. , 2013, , .		0
63	Identification of Spatial Modes Through Instantaneous Vibration Direction. , 2013, , .		0
64	Field measurements of extreme pressures on a flat roof of a low-rise building during typhoons. <i>Journal of Wind Engineering and Industrial Aerodynamics</i> , 2012, 111, 14-29.	1.7	35
65	Wind characteristics of a strong typhoon in marine surface boundary layer. <i>Wind and Structures, an International Journal</i> , 2012, 15, 1-15.	0.8	51