Yuncheng He

List of Publications by Year
in descending order

65 papers	1,293 citations	331538 21 h-index	395590 33 g-index
67 all docs	67 docs citations	67 times ranked	788 citing authors

#	Article	IF	Citations
1	Electrowetting on liquid-infused film (EWOLF): Complete reversibility and controlled droplet oscillation suppression for fast optical imaging. Scientific Reports, 2014, 4, 6846.	1.6	116
2	Observations of offshore wind characteristics by Doppler-LiDAR for wind energy applications. Applied Energy, 2016, 169, 150-163.	5.1	72
3	Structural health monitoring for a 600Âm high skyscraper. Structural Design of Tall and Special Buildings, 2018, 27, e1490.	0.9	60
4	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
5	Wind characteristics over different terrains. Journal of Wind Engineering and Industrial Aerodynamics, 2013, 120, 51-69.	1.7	51
6	RANS simulation of neutral atmospheric boundary layer flows over complex terrain by proper imposition of boundary conditions and modification on the k-Îµ model. Environmental Fluid Mechanics, 2016, 16, 1-23.	0.7	51
7	Wind characteristics of a strong typhoon in marine surface boundary layer. Wind and Structures, an International Journal, 2012, 15, 1-15.	0.8	51
8	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
9	Gust factors for tropical cyclone, monsoon and thunderstorm winds. Journal of Wind Engineering and Industrial Aerodynamics, 2015, 142, 1-14.	1.7	39
10	Monitoring Wind Characteristics and Structural Performance of a Supertall Building during a Landfall Typhoon. Journal of Structural Engineering, 2016, 142, .	1.7	39
11	Monitoring of wind effects on 600â€¯m high Ping-An Finance Center during Typhoon Haima. Engineering Structures, 2018, 167, 308-326.	2.6	37
12	Observational study of wind characteristics, wind speed and turbulence profiles during Super Typhoon Mangkhut. Journal of Wind Engineering and Industrial Aerodynamics, 2020, 206, 104362.	1.7	37
13	Field measurements of extreme pressures on a flat roof of a low-rise building during typhoons. Journal of Wind Engineering and Industrial Aerodynamics, 2012, 111, 14-29.	1.7	35
14	Vertical wind profiles for typhoon, monsoon and thunderstorm winds. Journal of Wind Engineering and Industrial Aerodynamics, 2017, 168, 190-199.	1.7	34
15	Insights from Super Typhoon Mangkhut (1822) for wind engineering practices. Journal of Wind Engineering and Industrial Aerodynamics, 2020, 203, 104238.	1.7	29
16	Wind profiles of tropical cyclones as observed by Doppler wind profiler and anemometer. Wind and Structures, an International Journal, 2013, 17, 419-433.	0.8	29
17	Standardization of raw wind speed data under complex terrain conditions: A data-driven scheme. Journal of Wind Engineering and Industrial Aerodynamics, 2014, 131, 12-30.	1.7	27
18	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

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19	Accurate estimation of tube-induced distortion effects on wind pressure measurements. Journal of Wind Engineering and Industrial Aerodynamics, 2019, 188, 260-268.	1.7	26
20	Characterising the fractal dimension of wind speed time series under different terrain conditions. Journal of Wind Engineering and Industrial Aerodynamics, 2020, 201, 104165.	1.7	24
21	Enhancing the performance of stochastic subspace identification method via energy-oriented categorization of modal components. Engineering Structures, 2021, 233, 111917.	2.6	24
22	Monitoring wind effects of a landfall typhoon on a 600 m high skyscraper. Structure and Infrastructure Engineering, 2019, 15, 54-71.	2.0	22
23	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
24	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
25	Observation of Typhoon Hato based on the 356-m high meteorological gradient tower at Shenzhen. Journal of Wind Engineering and Industrial Aerodynamics, 2020, 207, 104408.	1.7	17
26	Bimodal distribution of wind pressure on windward facades of high-rise buildings induced by interference effects. Journal of Wind Engineering and Industrial Aerodynamics, 2020, 200, 104156.	1.7	17
27	Investigation of chaotic features of surface wind speeds using recurrence analysis. Journal of Wind Engineering and Industrial Aerodynamics, 2021, 210, 104550.	1.7	16
28	Investigation of Marine Wind Veer Characteristics Using Wind Lidar Measurements. Atmosphere, 2020, 11, 1178.	1.0	15
29	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
30	Dynamic analysis of meteorological time series in Hong Kong: A nonlinear perspective. International Journal of Climatology, 2021, 41, 4920-4932.	1.5	14
31	Modal identification of civil structures via covariance-driven stochastic subspace method. Mathematical Biosciences and Engineering, 2019, 16, 5709-5728.	1.0	14
32	A new kind of energy transfer from high frequency mode to low frequency mode in a composite laminated plate. Acta Mechanica, 2013, 224, 2937-2953.	1.1	13
33	Toward modeling the spatial pressure field of tropical cyclones: Insights from Typhoon Hato (1713). Journal of Wind Engineering and Industrial Aerodynamics, 2019, 184, 378-390.	1.7	13
34	Seasonal and diurnal variation of marine wind characteristics based on lidar measurements. Meteorological Applications, 2020, 27, e1918.	0.9	13
35	Monitoring of structural modal parameters and dynamic responses of a 600m高high skyscraper during a typhoon. Structural Design of Tall and Special Buildings, 2018, 27, e1456.	0.9	12
36	A comparison of micrometeorological methods for marine roughness estimation at a coastal area. Journal of Wind Engineering and Industrial Aerodynamics, 2019, 195, 104010.	1.7	11

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37	Structural Responses of a Supertall Building Subjected to a Severe Typhoon at Landfall. Applied Sciences (Switzerland), 2020, 10, 2965.	1.3	11
38	Characterization of daily rainfall variability in Hong Kong: A nonlinear dynamic perspective. International Journal of Climatology, 2021, 41, E2913.	1.5	11
39	Characterization of vertical wind velocity variability based on fractal dimension analysis. Journal of Wind Engineering and Industrial Aerodynamics, 2021, 213, 104608.	1.7	10
40	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
41	Dynamic Characterization of Wind Speed under Extreme Conditions by Recurrence-Based Techniques: Comparative Study. Journal of Aerospace Engineering, 2021, 34, 04020114.	0.8	9
42	Performance of a bistable flow-energy harvester based on vortex-induced vibration. Journal of Wind Engineering and Industrial Aerodynamics, 2021, 217, 104733.	1.7	9
43	A height-resolving model of tropical cyclone pressure field. Journal of Wind Engineering and Industrial Aerodynamics, 2019, 186, 84-93.	1.7	8
44	Standardization of Offshore Surface Wind Speeds. Journal of Applied Meteorology and Climatology, 2016, 55, 1107-1121.	0.6	7
45	Accurate determination of reference wind speed and reference static pressure in wind tunnel tests. Advances in Structural Engineering, 2020, 23, 578-583.	1.2	7
46	Field measurements of wind characteristics over hilly terrain within surface layer. Wind and Structures, an International Journal, 2014, 19, 541-563.	0.8	7
47	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
48	Identification of tropical cyclones via deep convolutional neural network based on satellite cloud images. Atmospheric Measurement Techniques, 2022, 15, 1829-1848.	1.2	6
49	Standardization of marine surface wind speeds at coastal islands. Ocean Engineering, 2020, 213, 107652.	1.9	5
50	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
51	Study on the Efficiency and Dynamic Characteristics of an Energy Harvester Based on Flexible Structure Galloping. Energies, 2021, 14, 6548.	1.6	5
52	Performance of a Lever–Gear Type Piezoelectric Energy Harvester for Collecting Pedestrian Energy. Energy Technology, 2022, 10, .	1.8	5
53	Revisiting Typhoon York (9915) at landfall. Journal of Wind Engineering and Industrial Aerodynamics, 2021, 211, 104583.	1.7	4
54	Dependence of wind load on air density for highrise buildings. Journal of Wind Engineering and Industrial Aerodynamics, 2021, 211, 104558.	1.7	4

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55	Reduced Sea-Surface Roughness Length at a Coastal Site. Atmosphere, 2021, 12, 991.	1.0	4
56	Assessing wind gust characteristics at wind turbine relevant height. Journal of Renewable and Sustainable Energy, 2021, 13, .	0.8	4
57	Thermodynamic and Kinematic Structures in the Rainband Region of Typhoon Lekima (2019) at Landfall. Atmosphere, 2022, 13, 312.	1.0	4
58	Characterization of Wind Gusts: A Study Based on Meteorological Tower Observations. Applied Sciences (Switzerland), 2022, 12, 2105.	1.3	4
59	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
60	Field measurements of Tropical Storm Aere (1619) via airborne GPS â€dropsondes over the South China Sea. Meteorological Applications, 2020, 27, e1958.	0.9	3
61	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
62	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
63	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
64	Numerical Simulation of Topographic Effects on Wind Flow Fields Over Complex Terrain. , 2013, , .		0
65	Identification of Spatial Modes Through Instantaneous Vibration Direction. , 2013, , .		0