Pai-wai Chan

List of Publications by Year
in descending order

295 papers	5,246 citations	101384 36 h-index	174990 52 g-index
296 all docs	296 docs citations	296 times ranked	4042 citing authors

#	Article	IF	Citations
1	Statistical analysis of wind characteristics and wind energy potential in Hong Kong. Energy Conversion and Management, 2015, 101, 644-657.	4.4	138
2	The urban cool island phenomenon in a highâ€rise highâ€density city and its mechanisms. International Journal of Climatology, 2017, 37, 890-904.	1.5	124
3	Applications of an Infrared Doppler Lidar in Detection of Wind Shear. Journal of Atmospheric and Oceanic Technology, 2008, 25, 637-655.	0.5	123
4	Investigation of offshore wind energy potential in Hong Kong based on Weibull distribution function. Applied Energy, 2015, 156, 362-373.	5.1	120
5	A multiâ€sensor study of water vapour from radiosonde, MODIS and AERONET: a case study of Hong Kong. International Journal of Climatology, 2013, 33, 109-120.	1.5	87
6	Validation and accuracy assessment of a Simplified Aerosol Retrieval Algorithm (SARA) over Beijing under low and high aerosol loadings and dust storms. Remote Sensing of Environment, 2014, 153, 50-60.	4.6	80
7	Observations of offshore wind characteristics by Doppler-LiDAR for wind energy applications. Applied Energy, 2016, 169, 150-163.	5.1	72
8	Seasonal behavior of carbonyls and source characterization of formaldehyde (HCHO) in ambient air. Atmospheric Environment, 2017, 152, 51-60.	1.9	69
9	A Review of Progress and Applications of Pulsed Doppler Wind LiDARs. Remote Sensing, 2019, 11, 2522.	1.8	67
10	Performance and application of a multi-wavelength, ground-based microwave radiometer in intense convective weather. Meteorologische Zeitschrift, 2009, 18, 253-265.	0.5	62
11	Effects of anthropogenic heat due to air-conditioning systems on an extreme high temperature event in Hong Kong. Environmental Research Letters, 2018, 13, 034015.	2.2	62
12	Wind weakening in a dense high-rise city due to over nearly five decades of urbanization. Building and Environment, 2018, 138, 207-220.	3.0	62
13	An analysis of aerosol liquid water content and related impact factors in Pearl River Delta. Science of the Total Environment, 2017, 579, 1822-1830.	3.9	61
14	Modeling of Anthropogenic Heat Flux Using HJ-1B Chinese Small Satellite Image: A Study of Heterogeneous Urbanized Areas in Hong Kong. IEEE Geoscience and Remote Sensing Letters, 2015, 12, 1466-1470.	1.4	60
15	AHI/Himawari-8 Yonsei Aerosol Retrieval (YAER): Algorithm, Validation and Merged Products. Remote Sensing, 2018, 10, 699.	1.8	58
16	Tower observed vertical distribution of PM2.5, O3 and NOx in the Pearl River Delta. Atmospheric Environment, 2020, 220, 117083.	1.9	58
17	An observational study of the hygroscopic properties of aerosols over the Pearl River Delta region. Atmospheric Environment, 2013, 77, 817-826.	1.9	55
18	Wind characteristics over different terrains. Journal of Wind Engineering and Industrial Aerodynamics, 2013, 120, 51-69.	1.7	51

#	Article	IF	Citations
19	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
20	Investigating the energy saving potential of applying shading panels on opaque faÃ§ades: A case study for residential buildings in HongÂKong. Energy and Buildings, 2019, 193, 78-91.	3.1	51
21	Rain footprints on C-band synthetic aperture radar images of the ocean - Revisited. Remote Sensing of Environment, 2016, 187, 169-185.	4.6	50
22	Lagrangian Coherent Structure Analysis of Terminal Winds Detected by Lidar. Part I: Turbulence Structures. Journal of Applied Meteorology and Climatology, 2011, 50, 325-338.	0.6	49
23	Impact of relative humidity on visibility degradation during a haze event: A case study. Science of the Total Environment, 2016, 569-570, 1149-1158.	3.9	49
24	Performance of super high resolution numerical weather prediction model in forecasting terrainâ€disrupted airflow at the Hong Kong International Airport: case studies. Meteorological Applications, 2016, 23, 101-114.	0.9	49
25	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
26	Wind profile observations in tropical cyclone events using wind-profilers and doppler SODARs. Journal of Wind Engineering and Industrial Aerodynamics, 2013, 115, 93-103.	1.7	45
27	Process analysis of regional aerosol pollution during spring in the Pearl River Delta region, China. Atmospheric Environment, 2015, 122, 829-838.	1.9	44
28	Impact of land surface heterogeneity on urban heat island circulation and seaâ€land breeze circulation in Hong Kong. Journal of Geophysical Research D: Atmospheres, 2017, 122, 4332-4352.	1.2	44
29	Design and Application of an Unattended Multifunctional H-TDMA System. Journal of Atmospheric and Oceanic Technology, 2013, 30, 1136-1148.	0.5	43
30	Improvement of aerosol optical depth retrieval over Hong Kong from a geostationary meteorological satellite using critical reflectance with background optical depth correction. Remote Sensing of Environment, 2014, 142, 176-187.	4.6	43
31	Deep Neural Network Modeling for Big Data Weather Forecasting. Studies in Big Data, 2015, , 389-408.	0.8	43
32	Accurate extraction of Lagrangian coherent structures over finite domains with application to flight data analysis over Hong Kong International Airport. Chaos, 2010, 20, 017502.	1.0	42
33	Aerosol optical properties and mixing state of black carbon in the Pearl River Delta, China. Atmospheric Environment, 2016, 131, 196-208.	1.9	42
34	Understanding heat patterns produced by vehicular flows in urban areas. Scientific Reports, 2017, 7, 16309.	1.6	42
35	Development of a custom OMI NO₂ data product for evaluating biases in a regional chemistry transport model. Atmospheric Chemistry and Physics, 2015, 15, 5627-5644.	1.9	39
36	Gust factors for tropical cyclone, monsoon and thunderstorm winds. Journal of Wind Engineering and Industrial Aerodynamics, 2015, 142, 1-14.	1.7	39

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37	Development of an improved urban emissivity model based on sky view factor for retrieving effective emissivity and surface temperature over urban areas. ISPRS Journal of Photogrammetry and Remote Sensing, 2016, 122, 30-40.	4.9	37
38	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
39	New inflow boundary conditions for modeling twisted wind profiles in CFD simulation for evaluating the pedestrian-level wind field near an isolated building. Building and Environment, 2018, 132, 303-318.	3.0	36
40	Development and application of future design weather data for evaluating the building thermal-energy performance in subtropical Hong Kong. Energy and Buildings, 2020, 209, 109696.	3.1	36
41	Depiction of complex airflow near Hong Kong International Airport using a Doppler LIDAR with a two-dimensional wind retrieval technique. Meteorologische Zeitschrift, 2007, 16, 491-504.	0.5	35
42	Atmospheric nitrogen deposition to forest and estuary environments in the Pearl River Delta region, southern China. Tellus, Series B: Chemical and Physical Meteorology, 2022, 65, 20480.	0.8	34
43	Vertical wind profiles for typhoon, monsoon and thunderstorm winds. Journal of Wind Engineering and Industrial Aerodynamics, 2017, 168, 190-199.	1.7	34
44	Rapid urbanization effect on local climate: intercomparison of climate trends in Shenzhen and Hong Kong, 1968-2013. Climate Research, 2015, 63, 145-155.	0.4	34
45	Application of Short-Range Lidar in Wind Shear Alerting. Journal of Atmospheric and Oceanic Technology, 2012, 29, 207-220.	0.5	32
46	Thermal comfort and energy performance of public rental housing under typical and near-extreme weather conditions in Hong Kong. Energy and Buildings, 2017, 156, 390-403.	3.1	32
47	Spatiotemporal analysis of offshore wind field characteristics and energy potential in Hong Kong. Energy, 2020, 201, 117622.	4.5	31
48	The synergistic effect of urban heat and moisture islands in a compact high-rise city. Building and Environment, 2021, 205, 108274.	3.0	31
49	Quick Access Recorder Data Analysis Software for Windshear and Turbulence Studies. Journal of Aircraft, 2010, 47, 1443-1447.	1.7	30
50	Multiâ€sensors study of precipitable water vapour over mainland China. International Journal of Climatology, 2015, 35, 3146-3159.	1.5	30
51	Comparison of aerosol hygroscopicity and mixing state between winter and summer seasons in Pearl River Delta region, China. Atmospheric Research, 2016, 169, 160-170.	1.8	30
52	Dynamic spatial-temporal precipitation distribution models for short-duration rainstorms in Shenzhen, China based on machine learning. Atmospheric Research, 2020, 237, 104861.	1.8	30
53	Source-receptor relationships for PM 2.5 during typical pollution episodes in the Pearl River Delta city cluster, China. Science of the Total Environment, 2017, 596-597, 194-206.	3.9	29
54	Urban Building Energy and Climate (UrBEC) simulation: Example application and field evaluation in Sai Ying Pun, Hong Kong. Energy and Buildings, 2020, 207, 109580.	3.1	29

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55	Insights from Super Typhoon Mangkhut (1822) for wind engineering practices. Journal of Wind Engineering and Industrial Aerodynamics, 2020, 203, 104238.	1.7	29
56	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
57	Measurement accuracy of weighing and tipping-bucket rainfall intensity gauges under dynamic laboratory testing. Atmospheric Research, 2014, 144, 186-194.	1.8	28
58	Application of <scp>LIDAR</scp>â€derived eddy dissipation rate profiles in lowâ€level wind shear and turbulence alerts at <scp>H</scp>ong <scp>K</scp>ong <scp>I</scp>nternational <scp>A</scp>irport. Meteorological Applications, 2014, 21, 74-85.	0.9	28
59	Predicting long-term monthly electricity demand under future climatic and socioeconomic changes using data-driven methods: A case study of Hong Kong. Sustainable Cities and Society, 2021, 70, 102936.	5.1	28
60	Application of a ground-based, multi-channel microwave radiometer to the alerting of low-level windshear at an airport. Meteorologische Zeitschrift, 2011, 20, 423-429.	0.5	27
61	Application of ground-based, multi-channel microwave radiometer in the nowcasting of intense convective weather through instability indices of the atmosphere. Meteorologische Zeitschrift, 2011, 20, 431-440.	0.5	27
62	Numerical simulation study of the effect of buildings and complex terrain on the low-level winds at an airport in typhoon situation. Meteorologische Zeitschrift, 2012, 21, 183-192.	0.5	27
63	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
64	A multi-scale hybrid neural network retrieval model for dust storm detection, a study in Asia. Atmospheric Research, 2015, 158-159, 89-106.	1.8	27
65	Reconstruction of historical datasets for analyzing spatiotemporal influence of built environment on urban microclimates across a compact city. Building and Environment, 2017, 123, 649-660.	3.0	27
66	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
67	Generation of an Eddy Dissipation Rate Map at the Hong Kong International Airport Based on Doppler Lidar Data. Journal of Atmospheric and Oceanic Technology, 2011, 28, 37-49.	0.5	26
68	Co-located tipping-bucket and optical drop counter RI measurements and a simulated correction algorithm. Atmospheric Research, 2013, 119, 3-12.	1.8	25
69	Atmospheric turbulence in complex terrain: Verifying numerical model results with observations by remote-sensing instruments. Meteorology and Atmospheric Physics, 2009, 103, 145-157.	0.9	24
70	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
71	The urban moisture island phenomenon and its mechanisms in a highâ€rise highâ€density city. International Journal of Climatology, 2021, 41, E150.	1.5	24
72	Observation and Numerical Simulation of Terrain-Induced Windshear at the Hong Kong International Airport in a Planetary Boundary Layer without Temperature Inversions. Advances in Meteorology, 2016, 2016, 1-9.	0.6	23

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73	Icing Detection over East Asia from Geostationary Satellite Data Using Machine Learning Approaches. Remote Sensing, 2018, 10, 631.	1.8	23
74	Aircraft Observations of Turbulence Characteristics in the Tropical Cyclone Boundary Layer. Boundary-Layer Meteorology, 2020, 174, 493-511.	1.2	23
75	A semi-empirical method for estimating complete surface temperature from radiometric surface temperature, a study in Hong Kong city. Remote Sensing of Environment, 2020, 237, 111540.	4.6	23
76	Review of advances in urban climate study in the Guangdong-Hong Kong-Macau Greater Bay Area, China. Atmospheric Research, 2021, 261, 105759.	1.8	23
77	The first complete dropsonde observation of a tropical cyclone over the South China Sea by the Hong Kong Observatory. Weather, 2018, 73, 227-234.	0.6	22
78	Accessing the Impact of Sea-Salt Emissions on Aerosol Chemical Formation and Deposition over Pearl River Delta, China. Aerosol and Air Quality Research, 2015, 15, 2232-2245.	0.9	22
79	A Study of a Retrieval Method for Temperature and Humidity Profiles from Microwave Radiometer Observations Based on Principal Component Analysis and Stepwise Regression. Journal of Atmospheric and Oceanic Technology, 2011, 28, 378-389.	0.5	21
80	Spatio-Temporal Data Fusion for Satellite Images Using Hopfield Neural Network. Remote Sensing, 2019, 11, 2077.	1.8	21
81	Evaluation of Microphysics Schemes in Tropical Cyclones Using Polarimetric Radar Observations: Convective Precipitation in an Outer Rainband. Monthly Weather Review, 2021, 149, 1055-1068.	0.5	21
82	Remote Tropical Western Indian Ocean Forcing on Changes in June Precipitation in South China and the Indochina Peninsula. Journal of Climate, 2020, 33, 7553-7566.	1.2	21
83	Wind data collected by a fixed-wing aircraft in the vicinity of a tropical cyclone over the south China coastal waters. Meteorologische Zeitschrift, 2011, 20, 313-321.	0.5	20
84	Chaotic Oscillatory-Based Neural Network for Wind Shear and Turbulence Forecast With LiDAR Data. IEEE Transactions on Systems, Man and Cybernetics, Part C: Applications and Reviews, 2012, 42, 1412-1423.	3.3	20
85	A significant wind shear event leading to aircraft diversion at the Hong Kong international airport. Meteorological Applications, 2012, 19, 10-16.	0.9	20
86	On the Failure Probability of Offshore Wind Turbines in the China Coastal Waters Due to Typhoons: A Case Study Using the OC4-DeepCwind Semisubmersible. IEEE Transactions on Sustainable Energy, 2019, 10, 522-532.	5.9	20
87	Landfalling Tropical Cyclone Research Project (LTCRP) in China. Bulletin of the American Meteorological Society, 2019, 100, ES447-ES472.	1.7	20
88	Computational fluid dynamics simulation of the wind flow over an airport terminal building. Journal of Zhejiang University: Science A, 2010, 11, 389-401.	1.3	19
89	Combined use of headwind ramps and gradients based on LIDAR data in the alerting of low-level windshear/turbulence. Meteorologische Zeitschrift, 2011, 20, 661-670.	0.5	19
90	Lagrangian Coherent Structure Analysis of Terminal Winds Detected by Lidar. Part II: Structure Evolution and Comparison with Flight Data. Journal of Applied Meteorology and Climatology, 2011, 50, 2167-2183.	0.6	19

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91	Aviation Model: A Fine-Scale Numerical Weather Prediction System for Aviation Applications at the Hong Kong International Airport. Advances in Meteorology, 2013, 2013, 1-11.	0.6	19
92	Severe wind shear at <scp>H</scp>ong <scp>K</scp>ong <scp>I</scp>nternational <scp>A</scp>irport: climatology and case studies. Meteorological Applications, 2017, 24, 397-403.	0.9	19
93	Influence of aerosol hygroscopicity and mixing state on aerosol optical properties in the Pearl River Delta region, China. Science of the Total Environment, 2018, 627, 1560-1571.	3.9	19
94	Rapid identification of rainstorm disaster risks based on an artificial intelligence technology using the 2DPCA method. Atmospheric Research, 2019, 227, 157-164.	1.8	19
95	LIDAR-based turbulence intensity calculation using glide-path scans of the Doppler LIght Detection And Ranging (LIDAR) systems at the Hong Kong International Airport and comparison with flight data and a turbulence alerting system. Meteorologische Zeitschrift, 2010, 19, 549-563.	0.5	18
96	Numerical simulation of terrain-induced vortex/wave shedding at the Hong Kong International Airport. Meteorologische Zeitschrift, 2013, 22, 317-327.	0.5	18
97	Modelling of wind shear downwind of mountain ridges at Hong Kong International Airport. Meteorological Applications, 2014, 21, 94-104.	0.9	18
98	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
99	Review of dust storm detection algorithms for multispectral satellite sensors. Atmospheric Research, 2021, 250, 105398.	1.8	18
100	Validation of MODIS, MISR, OMI, and CALIPSO aerosol optical thickness using ground-based sunphotometers in Hong Kong. International Journal of Remote Sensing, 2013, 34, 897-918.	1.3	17
101	LIDARâ€based Fâ€factor for wind shear alerting: different smoothing algorithms and application to departing flights. Meteorological Applications, 2014, 21, 86-93.	0.9	17
102	Process analysis of a regional air pollution episode over Pearl River Delta Region, China, using the MM5-CMAQ model. Journal of the Air and Waste Management Association, 2014, 64, 406-418.	0.9	17
103	Enhancement in secondary particulate matter production due to mountain trapping. Atmospheric Research, 2014, 147-148, 227-236.	1.8	17
104	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
105	Low-level wind effects on the glide paths of the North Runway of HKIA: A wind tunnel study. Building and Environment, 2019, 164, 106337.	3.0	17
106	Aircraft Observations of Tropical Cyclone Boundary Layer Turbulence over the South China Sea. Journals of the Atmospheric Sciences, 2019, 76, 3773-3783.	0.6	17
107	Impacts of High-Resolution Urban Canopy Parameters within the WRF Model on Dynamical and Thermal Fields over Guangzhou, China. Journal of Applied Meteorology and Climatology, 2019, 58, 1155-1176.	0.6	17
108	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

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109	Wind tunnel testing of the effect of terrain on the wind characteristics of airport glide paths. Journal of Wind Engineering and Industrial Aerodynamics, 2020, 203, 104253.	1.7	17
110	High-resolution regional modeling of urban moisture island: mechanisms and implications on thermal comfort. Building and Environment, 2022, 207, 108542.	3.0	17
111	Application of LIDAR-based F-factor in windshear alerting. Meteorologische Zeitschrift, 2012, 21, 193-204.	0.5	16
112	Application of Short-Range LIDAR in Early Alerting for Low-Level Windshear and Turbulence at Hong Kong International Airport. Advances in Meteorology, 2014, 2014, 1-8.	0.6	16
113	Parameter-retrieval of dry-air wake vortices with a scanning Doppler Lidar. Optics Express, 2018, 26, 16377.	1.7	16
114	City-scale morphological influence on diurnal urban air temperature. Building and Environment, 2020, 169, 106527.	3.0	16
115	Low-Level Wind Shear Characteristics and Lidar-Based Alerting at Lanzhou Zhongchuan International Airport, China. Journal of Meteorological Research, 2020, 34, 633-645.	0.9	16
116	Investigation of chaotic features of surface wind speeds using recurrence analysis. Journal of Wind Engineering and Industrial Aerodynamics, 2021, 210, 104550.	1.7	16
117	Performance of post-processing algorithms for rainfall intensity using measurements from tipping-bucket rain gauges. Atmospheric Measurement Techniques, 2016, 9, 5699-5706.	1.2	16
118	Measurement of turbulence intensity profile by a mini-sodar. Meteorological Applications, 2008, 15, 249-258.	0.9	15
119	An event of tail strike of an aircraft due to terrainâ€induced wind shear at the Hong Kong International Airport. Meteorological Applications, 2012, 19, 325-333.	0.9	15
120	Effect of different meteorological fields on the regional air quality modelling over Pearl River Delta, China. International Journal of Environment and Pollution, 2013, 53, 3.	0.2	15
121	Comparison of Turbulence Indicators Obtained from In Situ Flight Data. Journal of Applied Meteorology and Climatology, 2017, 56, 1609-1623.	0.6	15
122	Investigation of Marine Wind Veer Characteristics Using Wind Lidar Measurements. Atmosphere, 2020, 11, 1178.	1.0	15
123	Observations of wind and turbulence structures of Super Typhoons Hato and Mangkhut over land from a 356Âm high meteorological tower. Atmospheric Research, 2022, 265, 105910.	1.8	15
124	Using LIDAR doppler velocity data and chaotic oscillatory-based neural network for the forecast of meso-scale wind field. , 2008, , .		14
125	Wind Field of a Nonmesocyclone Anticyclonic Tornado Crossing the Hong Kong International Airport. Advances in Meteorology, 2014, 2014, 1-7.	0.6	14
126	Impact of Land-Use Change on Atmospheric Environment Using Refined Land Surface Properties in the Pearl River Delta, China. Advances in Meteorology, 2016, 2016, 1-15.	0.6	14

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127	Harmonic analysis of 130-year hourly air temperature in Hong Kong: detecting urban warming from the perspective of annual and daily cycles. Climate Dynamics, 2018, 51, 613-625.	1.7	14
128	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
129	COVID-19 Infection and Mortality: Association with PM2.5 Concentration and Population Densityâ€"An Exploratory Study. ISPRS International Journal of Geo-Information, 2021, 10, 123.	1.4	14
130	Dynamic analysis of meteorological time series in Hong Kong: A nonlinear perspective. International Journal of Climatology, 2021, 41, 4920-4932.	1.5	14
131	A tail strike event of an aircraft due to terrain-induced wind shear at the Hong Kong International Airport. Meteorological Applications, 2014, 21, 504-511.	0.9	13
132	Estimation of turbulence intensities under strong wind conditions via turbulent kinetic energy dissipation rates. Journal of Wind Engineering and Industrial Aerodynamics, 2014, 131, 1-11.	1.7	13
133	Revised power-law model to estimate the vertical variations of extreme wind speeds in China coastal regions. Journal of Wind Engineering and Industrial Aerodynamics, 2018, 173, 227-240.	1.7	13
134	Discerning the spatial variations in offshore wind resources along the coast of China via dynamic downscaling. Energy, 2018, 160, 582-596.	4.5	13
135	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
136	Seasonal and diurnal variation of marine wind characteristics based on lidar measurements. Meteorological Applications, 2020, 27, e1918.	0.9	13
137	Estimation of precipitation induced by tropical cyclones based on machineâ€learningâ€enhanced analogue identification of numerical prediction. Meteorological Applications, 2021, 28, e1978.	0.9	13
138	Impact of the COVID-19 on the vertical distributions of major pollutants from a tower in the Pearl River Delta. Atmospheric Environment, 2022, 276, 119068.	1.9	13
139	Modelling and optimizing tree planning for urban climate in a subtropical high-density city. Urban Climate, 2022, 43, 101141.	2.4	13
140	Determination of Richardson number profile from remote sensing data and its aviation application. IOP Conference Series: Earth and Environmental Science, 2008, 1, 012043.	0.2	12
141	Weather observations by aircraft reconnaissance inside Severe Typhoon Utor. Weather, 2014, 69, 199-202.	0.6	12
142	Observation and numerical simulation of vortex/wave shedding for terrain-disrupted airflow at Hong Kong International Airport during Typhoon Nesat in 2011. Meteorological Applications, 2014, 21, 512-520.	0.9	12
143	Geostationary Satellite Observation of Precipitable Water Vapor Using an Empirical Orthogonal Function (EOF) based Reconstruction Technique over Eastern China. Remote Sensing, 2015, 7, 5879-5900.	1.8	12
144	LIDAR observation and numerical simulation of vortex/wave shedding at the Eastern Runway Corridor of the Hong Kong International Airport. Meteorological Applications, 2016, 23, 379-388.	0.9	12

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145	Effects of inflow conditions on mountainous/urban wind environment simulation. Building Simulation, 2017, 10, 573-588.	3.0	12
146	Empirical Correction Ratio and Scale Factor to Project the Extreme Wind Speed Profile for Offshore Wind Energy Exploitation. IEEE Transactions on Sustainable Energy, 2018, 9, 1030-1040.	5.9	12
147	Dual challenges of heat wave and protective facemask-induced thermal stress in Hong Kong. Building and Environment, 2021, 206, 108317.	3.0	12
148	Path integration (PI) method for the parameter-retrieval of aircraft wake vortex by Lidar. Optics Express, 2020, 28, 4286.	1.7	12
149	Historical analysis (2001â€“2019) of lowâ€level wind shear at the Hong Kong International Airport. Meteorological Applications, 2022, 29, .	0.9	12
150	An Artificial Neural Network with Chaotic Oscillator for Wind Shear Alerting. Journal of Atmospheric and Oceanic Technology, 2012, 29, 1518-1531.	0.5	11
151	Effect of terrain and building structures on the airflow in an airport. Journal of Zhejiang University: Science A, 2012, 13, 461-468.	1.3	11
152	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
153	Characterization of daily rainfall variability in Hong Kong: A nonlinear dynamic perspective. International Journal of Climatology, 2021, 41, E2913.	1.5	11
154	Impact of a Fifty-Year-Recurrence Super Typhoon on Skyscrapers in Hong Kong: Large-Scale Field Monitoring Study. Journal of Structural Engineering, 2021, 147, .	1.7	11
155	Comparison of Aerosol Optical Depth (AOD) Derived from Ground-Based LIDAR and MODIS. The Open Atmospheric Science Journal, 2009, 3, 131-137.	0.5	11
156	The effect of background wind on summertime daily maximum air temperature in Kowloon, Hong Kong. Building and Environment, 2022, 210, 108693.	3.0	11
157	City-Scale Typhoon Hazard Analysis and Field Monitoring of Wind Effects on Skyscrapers during Super Typhoon Mangkhut. Journal of Structural Engineering, 2022, 148, .	1.7	11
158	Quick Access Recorder (QAR) Data Analysis Software for Windshear and Turbulence Studies. , 2009, , .		10
159	Some observations of low level wind shear at the Hong Kong International Airport in association with tropical cyclones. Meteorological Applications, 2020, 27, e1898.	0.9	10
160	Reduced gust factor for extreme tropical cyclone winds over ocean. Journal of Wind Engineering and Industrial Aerodynamics, 2021, 208, 104445.	1.7	10
161	Characterization of vertical wind velocity variability based on fractal dimension analysis. Journal of Wind Engineering and Industrial Aerodynamics, 2021, 213, 104608.	1.7	10
162	Characterizing coastal wind energy resources based on sodar and microwave radiometer observations. Renewable and Sustainable Energy Reviews, 2022, 163, 112498.	8.2	10

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163	Impacts of reconnaissance flight data on numerical simulation of tropical cyclones over South China Sea. Meteorological Applications, 2014, 21, 831-847.	0.9	9
164	Lagrangian Coherent Structure Analysis of Terminal Winds: Three-Dimensionality, Intramodel Variations, and Flight Analyses. Advances in Meteorology, 2015, 2015, 1-13.	0.6	9
165	A test of visibility sensors at Hong Kong International Airport. Weather, 2016, 71, 241-246.	0.6	9
166	On the identification of weather avoidance routes in the terminal maneuvering area of Hong Kong International Airport. Journal of Zhejiang University: Science A, 2016, 17, 171-185.	1.3	9
167	A comparative study on the indoor thermal comfort and energy consumption of typical public rental housing types under near-extreme summer conditions in Hong Kong. Energy Procedia, 2017, 122, 973-978.	1.8	9
168	Assessing the risk of windshear occurrence at HKIA using rareâ€event logistic regression. Meteorological Applications, 2020, 27, e1962.	0.9	9
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