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	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
2	Mountain waves near Hong Kong International Airport: observations and high‐resolution model analysis. Weather, 2022, 77, 20-26.	0.6	1
3	Observations of wind and turbulence structures of Super Typhoons Hato and Mangkhut over land from a 356 m high meteorological tower. Atmospheric Research, 2022, 265, 105910.	1.8	15
4	High-resolution regional modeling of urban moisture island: mechanisms and implications on thermal comfort. Building and Environment, 2022, 207, 108542.	3.0	17
5	The effect of background wind on summertime daily maximum air temperature in Kowloon, Hong Kong. Building and Environment, 2022, 210, 108693.	3.0	11
6	Wake Vortex Measurements at the Hong Kong International Airport. , 2022, , .		4
7	A Comparison Study of EDR Estimates from the NLR and NCAR Algorithms. Atmosphere, 2022, 13, 132.	1.0	2
8	Error Features in Predicting Typhoon Winds: A Case Study Comparing Simulated and Measured Data. Atmosphere, 2022, 13, 158.	1.0	0
9	Observation Selection, Total Variation, and L-Curve Methods for LiDAR Data Denoising. Advances in Meteorology, 2022, 2022, 1-17.	0.6	0
10	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
11	A decade (2011–2020) of tropical cyclone reconnaissance flights over the South China Sea. Weather, 2022, 77, 308-314.	0.6	6
12	A Hybrid Method for Fine-Scale Wind Field Retrieval Based on Machine Learning and Data Assimilation. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-12.	2.7	3
13	Wind profile analysis for selected tropical cyclones over the South China Sea based on dropsonde measurements. Atmosfera, 2022, 35, 111-126.	0.3	3
14	Derivation of High-Resolution Meteorological Parameters for Use in Airport Wind Shear Now-Casting Applications. Atmosphere, 2022, 13, 328.	1.0	2
15	Characterization of Wind Gusts: A Study Based on Meteorological Tower Observations. Applied Sciences (Switzerland), 2022, 12, 2105.	1.3	4
16	High‐resolution simulation of a severe case of low‐level windshear at the Hong Kong International Airport: Turbulence intensity and sensitivity to turbulence parameterization scheme. Atmospheric Science Letters, 2022, 23, .	0.8	1
17	Substitutability research for forward‐scatter meters in indoor low‐visibility environments. Meteorological Applications, 2022, 29, .	0.9	0
18	Analysis and numerical simulation of a supercell tornado at the Hong Kong adjacent waters. Meteorological Applications, 2022, 29, .	0.9	6

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19	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
20	Modelling and optimizing tree planning for urban climate in a subtropical high-density city. Urban Climate, 2022, 43, 101141.	2.4	13
21	Tower-observed structural evolution of the low-level boundary layer before, during, and after gust front passage in a coastal area at low latitude. Weather and Climate Extremes, 2022, 36, 100429.	1.6	4
22	Dropsonde observations and numerical simulations of intensifying/weakening tropical cyclones over the northern <scp>South China Sea</scp>. Weather, 2022, 77, 332-338.	0.6	6
23	An observational study of Super Typhoon Â<i>Rai</i>, a very late-season typhoon necessitating the issuance of a tropical cyclone warning signal for Hong Kong in December 2021. Weather, 2022, 77, 433-438.	0.6	2
24	High-Order Taylor Expansion for Wind Field Retrieval Based on Ground-Based Scanning Lidar. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-14.	2.7	3
25	Historical analysis (2001–2019) of low-level wind shear at the Hong Kong International Airport. Meteorological Applications, 2022, 29, .	0.9	12
26	Characterizing coastal wind energy resources based on sodar and microwave radiometer observations. Renewable and Sustainable Energy Reviews, 2022, 163, 112498.	8.2	10
27	Intercomparison of Local Warming Trends of Shanghai and Hong Kong Based on 120-Year Temperature Observational Data. International Journal of Environmental Research and Public Health, 2022, 19, 6494.	1.2	0
28	Identification and analysis of terrain-induced low-level windshear at Hong Kong International Airport based on WRF–LES combining method. Meteorology and Atmospheric Physics, 2022, 134, .	0.9	8
29	Why has the trend in humidity variation in Shenzhen changed from decrease to increase while urbanisation has continued?. Urban Climate, 2022, 44, 101209.	2.4	2
30	Observations of boundary layer wind and turbulence of a landfalling tropical cyclone. Scientific Reports, 2022, 12, .	1.6	0
31	Characterization of daily rainfall variability in Hong Kong: A nonlinear dynamic perspective. International Journal of Climatology, 2021, 41, E2913.	1.5	11
32	Dynamic Characterization of Wind Speed under Extreme Conditions by Recurrence-Based Techniques: Comparative Study. Journal of Aerospace Engineering, 2021, 34, 04020114.	0.8	9
33	A note on radar signatures of hydrometeors in the melting layer as inferred from Sentinel-1 SAR data acquired over the ocean. Remote Sensing of Environment, 2021, 253, 112177.	4.6	7
34	Reduced gust factor for extreme tropical cyclone winds over ocean. Journal of Wind Engineering and Industrial Aerodynamics, 2021, 208, 104445.	1.7	10
35	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
36	Review of dust storm detection algorithms for multispectral satellite sensors. Atmospheric Research, 2021, 250, 105398.	1.8	18

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37	Retrieval of the Characteristic Size of Raindrops for Wind Sensing Based on Dual-Polarization Radar. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2021, 14, 9974-9986.	2.3	0
38	The Modulation of Meteorological Parameters on Surface PM2.5 and O3 Concentrations in Guangzhou, China. Aerosol and Air Quality Research, 2021, 21, 200084.	0.9	1
39	Analysis and numerical simulation of a waterspout at the Hong Kong International Airport. Meteorologische Zeitschrift, 2021, 30, 333-348.	0.5	4
40	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
41	Estimation of precipitation induced by tropical cyclones based on machine‐learning‐enhanced analogue identification of numerical prediction. Meteorological Applications, 2021, 28, e1978.	0.9	13
42	The Turbulent Structure of the Marine Atmospheric Boundary Layer during and before a Cold Front. Journals of the Atmospheric Sciences, 2021, 78, 863-875.	0.6	3
43	Investigation of chaotic features of surface wind speeds using recurrence analysis. Journal of Wind Engineering and Industrial Aerodynamics, 2021, 210, 104550.	1.7	16
44	COVID-19 Infection and Mortality: Association with PM2.5 Concentration and Population Density—An Exploratory Study. ISPRS International Journal of Geo-Information, 2021, 10, 123.	1.4	14
45	Revisiting Typhoon York (9915) at landfall. Journal of Wind Engineering and Industrial Aerodynamics, 2021, 211, 104583.	1.7	4
46	Dynamic analysis of meteorological time series in Hong Kong: A nonlinear perspective. International Journal of Climatology, 2021, 41, 4920-4932.	1.5	14
47	Vertical Characteristics of Pollution Transport in Hong Kong and Beijing, China. Atmosphere, 2021, 12, 457.	1.0	5
48	Dependence of wind load on air density for highrise buildings. Journal of Wind Engineering and Industrial Aerodynamics, 2021, 211, 104558.	1.7	4
49	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
50	Wind Shear Prediction from Light Detection and Ranging Data Using Machine Learning Methods. Atmosphere, 2021, 12, 644.	1.0	7
51	Characterization of vertical wind velocity variability based on fractal dimension analysis. Journal of Wind Engineering and Industrial Aerodynamics, 2021, 213, 104608.	1.7	10
52	Reduced Sea-Surface Roughness Length at a Coastal Site. Atmosphere, 2021, 12, 991.	1.0	4
53	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
54	High‐resolution (40 m) simulation of a severe case of low‐level windshear at the Hong Kong International Airport—Comparison with observations and skills in windshear alerting. Meteorological Applications, 2021, 28, e2020.	0.9	9

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55	Lightning flash rate nowcasting based on polarimetric radar data and machine learning. International Journal of Remote Sensing, 2021, 42, 6762-6780.	1.3	5
56	On the Use of Dynamic Calibration to Correct Drop Counter Rain Gauge Measurements. Sensors, 2021, 21, 6321.	2.1	4
57	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
58	The synergistic effect of urban heat and moisture islands in a compact high-rise city. Building and Environment, 2021, 205, 108274.	3.0	31
59	Characteristics and Vertical Profiles of Mean Wind and Turbulence for Typhoon, Monsoon, and Thunderstorm Winds. Journal of Structural Engineering, 2021, 147, .	1.7	8
60	Dual challenges of heat wave and protective facemask-induced thermal stress in Hong Kong. Building and Environment, 2021, 206, 108317.	3.0	12
61	Observation and numerical simulation of a dust devil at the Hong Kong International Airport. Meteorologische Zeitschrift, 2021, 30, 533-543.	0.5	3
62	Observation and numerical simulation of a weak waterspout at Hong Kong International Airport. Meteorological Applications, 2021, 28, e1975.	0.9	3
63	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
64	Turbulence intensity footprints of built and natural environment as measured by anemometers at Hong Kong International Airport. Meteorologische Zeitschrift, 2021, , .	0.5	0
65	Observation of vertical eddy diffusivity and mixing length during landfalling Super Typhoons. Journal of Wind Engineering and Industrial Aerodynamics, 2021, 219, 104816.	1.7	1
66	Assessing wind gust characteristics at wind turbine relevant height. Journal of Renewable and Sustainable Energy, 2021, 13, .	0.8	4
67	Improving Lidar Windshear Detection Efficiency by Removal of â€œGentle Rampsâ€. Atmosphere, 2021, 12, 1539.	1.0	4
68	Low-level windshear associated with atmospheric boundary layer jets â€" Case studies. Atmosfera, 2021, 34, 461-490.	0.3	2
69	City-scale morphological influence on diurnal urban air temperature. Building and Environment, 2020, 169, 106527.	3.0	16
70	Tower observed vertical distribution of PM2.5, O3 and NOx in the Pearl River Delta. Atmospheric Environment, 2020, 220, 117083.	1.9	58
71	Evaluating the impacts of updated aerodynamic roughness length in the WRF/Chem model over Pearl River Delta. Meteorology and Atmospheric Physics, 2020, 132, 427-440.	0.9	7
72	A comprehensive study of terrainâ€disrupted airflow at Hong Kong International Airport â€" observations and numerical simulations. Weather, 2020, 75, 199-206.	0.6	6

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73	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
74	Aircraft Observations of Turbulence Characteristics in the Tropical Cyclone Boundary Layer. Boundary-Layer Meteorology, 2020, 174, 493-511.	1.2	23
75	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
76	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
77	A Novel Probabilistic Approach to Optimize Stand-Alone Hybrid Wind-Photovoltaic Renewable Energy System. Energies, 2020, 13, 4945.	1.6	5
78	Alerting of hectometric turbulence features at Hong Kong International Airport using a short‑range LIDAR. Meteorological Applications, 2020, 27, e1945.	0.9	6
79	Investigation of Marine Wind Veer Characteristics Using Wind Lidar Measurements. Atmosphere, 2020, 11, 1178.	1.0	15
80	Standardization of marine surface wind speeds at coastal islands. Ocean Engineering, 2020, 213, 107652.	1.9	5
81	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
82	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
83	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
84	Assessing the risk of windshear occurrence at HKIA using rare‑event logistic regression. Meteorological Applications, 2020, 27, e1962.	0.9	9
85	Machine learning based multi-index prediction of aviation turbulence over the Asia-Pacific. Machine Learning With Applications, 2020, 2, 100008.	3.0	8
86	Field measurements of Tropical Storm Aere (1619) via airborne GPS ‑dropsondes over the South China Sea. Meteorological Applications, 2020, 27, e1958.	0.9	3
87	Seasonal and diurnal variation of marine wind characteristics based on lidar measurements. Meteorological Applications, 2020, 27, e1918.	0.9	13
88	Analysis of a waterspout at Zhuhai, China, on June 12, 2019. Meteorological Applications, 2020, 27, e1904.	0.9	4
89	Spatiotemporal analysis of offshore wind field characteristics and energy potential in Hong Kong. Energy, 2020, 201, 117622.	4.5	31
90	Insights from Super Typhoon Mangkhut (1822) for wind engineering practices. Journal of Wind Engineering and Industrial Aerodynamics, 2020, 203, 104238.	1.7	29

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91	Observations of subtropical weather by a prototype water vapour LiDAR at Hong Kong Observatory. Weather, 2020, 75, 244-251.	0.6	1
92	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
93	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
94	A discussion on influences of turbulent diffusivity and surface drag parameterizations using a linear model of the tropical cyclone boundary layer wind field. Atmospheric Research, 2020, 237, 104847.	1.8	8
95	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
96	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
97	Characteristics of Wind Structure and Nowcasting of Gust Associated with Subtropical Squall Lines over Hong Kong and Shenzhen, China. Atmosphere, 2020, 11, 270.	1.0	9
98	Quantitative effects of atmospheric diffusion on surface aerosol extinction in the Pearl River Delta region. Science of the Total Environment, 2020, 727, 138472.	3.9	1
99	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
100	Path integration (PI) method for the parameter-retrieval of aircraft wake vortex by Lidar. Optics Express, 2020, 28, 4286.	1.7	12
101	Two-step locating method for aircraft wake vortices based on Gabor filter and velocity range distribution. IET Radar, Sonar and Navigation, 2020, 14, 1958-1967.	0.9	3
102	Terminal Wind Hazard Analyses Based on Assimilated Weather Data and Lagrangian Coherent Structures. Journal of Applied Meteorology and Climatology, 2020, 59, 1919-1931.	0.6	1
103	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
104	Quality and applications of wind data from sound detection and ranging (SODAR) equipment and microwave wind profilers. Weather, 2019, 74, S76.	0.6	2
105	Landfalling Tropical Cyclone Research Project (LTCRP) in China. Bulletin of the American Meteorological Society, 2019, 100, ES447-ES472.	1.7	20
106	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
107	Observational Study on the Characteristics of the Boundary Layer during Changes in the Intensity of Tropical Cyclones Landing in Guangdong, China. Advances in Meteorology, 2019, 2019, 1-14.	0.6	5
108	A comparison between laser ceilometers at Hong Kong International Airport. Weather, 2019, 74, 212-218.	0.6	0

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109	A Review of Progress and Applications of Pulsed Doppler Wind LiDARs. Remote Sensing, 2019, 11, 2522.	1.8	67
110	Spatio-Temporal Data Fusion for Satellite Images Using Hopfield Neural Network. Remote Sensing, 2019, 11, 2077.	1.8	21
111	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
112	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
113	A three-dimensional numerical simulation approach to assess typhoon hazards in China coastal regions. Natural Hazards, 2019, 96, 809-835.	1.6	8
114	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
115	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
116	Observed sub-hectometer-scale low level jets in surface-layer velocity profiles of landfalling typhoons. Journal of Wind Engineering and Industrial Aerodynamics, 2019, 190, 151-165.	1.7	8
117	Case studies of springtime fog in Hong Kong. Weather, 2019, 74, 60-67.	0.6	1
118	Observation and Real-Time Simulation of a Tornado Event in Hong Kong on 29 August 2018. Advances in Meteorology, 2019, 2019, 1-13.	0.6	8
119	Application of the multigrid 3D variation method to a combination of aircraft observations and bogus data for Typhoon Nida (2016). Meteorological Applications, 2019, 26, 312-323.	0.9	3
120	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
121	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
122	A height-resolving model of tropical cyclone pressure field. Journal of Wind Engineering and Industrial Aerodynamics, 2019, 186, 84-93.	1.7	8
123	Impacts of Thinning Aircraft Observations on Data Assimilation and Its Prediction during Typhoon Nida (2016). Atmosphere, 2019, 10, 754.	1.0	3
124	Parameter retrieval of aircraft wake vortex based on its maxâ€"min distribution of Doppler velocities measured by a Lidar. Journal of Engineering, 2019, 2019, 6852-6855.	0.6	2
125	Study on microclimate observation network for urban unit: A case study in a campus of Shenzhen, China. Physics and Chemistry of the Earth, 2019, 110, 117-124.	1.2	6
126	Diagnosis and Classification of Typhoon-Associated Low-Altitude Turbulence Using HKO-TDWR Radar Observations and Machine Learning. IEEE Transactions on Geoscience and Remote Sensing, 2019, 57, 3633-3648.	2.7	6

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127	Modelling adverse meteorological conditions for aircraft arising from airflow over complex terrain. Meteorological Applications, 2019, 26, 182-194.	0.9	4
128	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
129	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
130	Large-scale Circulation Control of the Occurrence of Low-level Turbulence at Hong Kong International Airport. Advances in Atmospheric Sciences, 2018, 35, 435-444.	1.9	7
131	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
132	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
133	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
134	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
135	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
136	The Street Air Warming Phenomenon in a High-Rise Compact City. Atmosphere, 2018, 9, 402.	1.0	7
137	A comparison study on the capabilities of turbulence models and density models of CFD on realistic terrain. Meteorologische Zeitschrift, 2018, , .	0.5	0
138	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
139	Characteristics of Spatiotemporal Distribution of Sea Surface Wind along the East Coast of Guangdong Province. Journal of Meteorological Research, 2018, 32, 627-635.	0.9	1
140	Parameter-retrieval of dry-air wake vortices with a scanning Doppler Lidar. Optics Express, 2018, 26, 16377.	1.7	16
141	Discerning the spatial variations in offshore wind resources along the coast of China via dynamic downscaling. Energy, 2018, 160, 582-596.	4.5	13
142	AHI/Himawari-8 Yonsei Aerosol Retrieval (YAER): Algorithm, Validation and Merged Products. Remote Sensing, 2018, 10, 699.	1.8	58
143	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
144	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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145	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
146	Icing Detection over East Asia from Geostationary Satellite Data Using Machine Learning Approaches. Remote Sensing, 2018, 10, 631.	1.8	23
147	The urban cool island phenomenon in a high‐rise high‐density city and its mechanisms. International Journal of Climatology, 2017, 37, 890-904.	1.5	124
148	Effects of inflow conditions on mountainous/urban wind environment simulation. Building Simulation, 2017, 10, 573-588.	3.0	12
149	Impact of land surface heterogeneity on urban heat island circulation and sea‐land breeze circulation in Hong Kong. Journal of Geophysical Research D: Atmospheres, 2017, 122, 4332-4352.	1.2	44
150	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
151	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
152	Near-extreme summer meteorological data set for sub-tropical climates. Building Services Engineering Research and Technology, 2017, 38, 197-208.	0.9	6
153	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
154	Seasonal behavior of carbonyls and source characterization of formaldehyde (HCHO) in ambient air. Atmospheric Environment, 2017, 152, 51-60.	1.9	69
155	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
156	The research on boundary layer evolution characteristics of Typhoon Usagi based on observations by wind profilers. Acta Oceanologica Sinica, 2017, 36, 39-44.	0.4	3
157	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
158	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
159	A Simple Daily Cycle Temperature Boundary Condition for Ground Surfaces in CFD Predictions of Urban Wind Flows. Journal of Applied Meteorology and Climatology, 2017, 56, 2963-2980.	0.6	4
160	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
161	Understanding heat patterns produced by vehicular flows in urban areas. Scientific Reports, 2017, 7, 16309.	1.6	42
162	A study on the profile of the turbulence length scale in the near-neutral atmospheric boundary for sea (homogeneous) and hilly land (inhomogeneous) fetches. Journal of Wind Engineering and Industrial Aerodynamics, 2017, 168, 200-210.	1.7	4

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163	Vertical wind profiles for typhoon, monsoon and thunderstorm winds. Journal of Wind Engineering and Industrial Aerodynamics, 2017, 168, 190-199.	1.7	34
164	Comparison of Turbulence Indicators Obtained from In Situ Flight Data. Journal of Applied Meteorology and Climatology, 2017, 56, 1609-1623.	0.6	15
165	Aircraft route forecasting under adverse weather conditions. Meteorologische Zeitschrift, 2017, 26, 189-206.	0.5	4
166	LIDAR ground-based velocity track display analyses and surface observations of a vortex shedding event observed at the Hong Kong International Airport on April 11, 2011. Atmosfera, 2017, 30, 275-285.	0.3	4
167	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
168	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
169	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
170	Optimized use of real‐time vertical‐profile wind data and fast modelling for prediction of airflow over complex terrain. Meteorological Applications, 2016, 23, 182-190.	0.9	6
171	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
172	Validation of a crosswind change criterion for building induced airflow disturbances using a flight simulator: case studies at the Hong Kong International Airport. Meteorological Applications, 2016, 23, 742-748.	0.9	3
173	A test of visibility sensors at Hong Kong International Airport. Weather, 2016, 71, 241-246.	0.6	9
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