

Chuan-Yao Lin

List of Publications by Year in descending order

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114
papers

3,852
citations

117625
34
h-index

149698
56
g-index

131
all docs

131
docs citations

131
times ranked

4457
citing authors

#	ARTICLE	IF	CITATIONS
1	Higher temperature and urbanization affect the spatial patterns of dengue fever transmission in subtropical Taiwan. <i>Science of the Total Environment</i> , 2009, 407, 2224-2233.	8.0	218
2	Weather as an effective predictor for occurrence of dengue fever in Taiwan. <i>Acta Tropica</i> , 2007, 103, 50-57.	2.0	206
3	Urban heat island effect and its impact on boundary layer development and land-sea circulation over northern Taiwan. <i>Atmospheric Environment</i> , 2008, 42, 5635-5649.	4.1	182
4	Chemical speciation, transport and contribution of biomass burning smoke to ambient aerosol in Guangzhou, a mega city of China. <i>Atmospheric Environment</i> , 2010, 44, 3187-3195.	4.1	119
5	Impact of the Urban Heat Island Effect on Precipitation over a Complex Geographic Environment in Northern Taiwan. <i>Journal of Applied Meteorology and Climatology</i> , 2011, 50, 339-353.	1.5	117
6	The trend of surface ozone in Taipei, Taiwan, and its causes: Implications for ozone control strategies. <i>Atmospheric Environment</i> , 2006, 40, 3898-3908.	4.1	113
7	Long-range transport of aerosols and their impact on the air quality of Taiwan. <i>Atmospheric Environment</i> , 2005, 39, 6066-6076.	4.1	108
8	Effects of Extreme Precipitation to the Distribution of Infectious Diseases in Taiwan, 1994-2008. <i>PLoS ONE</i> , 2012, 7, e34651.	2.5	108
9	Characterization and sources of aerosol particles over the southeastern Tibetan Plateau during the Southeast Asia biomass-burning season. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , 2022, 63, 117.	1.6	105
10	Modeling the spatio-temporal heterogeneity in the PM10-PM2.5 relationship. <i>Atmospheric Environment</i> , 2015, 102, 176-182.	4.1	97
11	Long-range transport of Asian dust and air pollutants to Taiwan: observed evidence and model simulation. <i>Atmospheric Chemistry and Physics</i> , 2007, 7, 423-434.	4.9	96
12	Numerical study of the impact of urbanization on the precipitation over Taiwan. <i>Atmospheric Environment</i> , 2008, 42, 2934-2947.	4.1	85
13	Long-Range Transport of Asian Dust and Air Pollutants to Taiwan. <i>Terrestrial, Atmospheric and Oceanic Sciences</i> , 2004, 15, 759.	0.6	80
14	A new transport mechanism of biomass burning from Indochina as identified by modeling studies. <i>Atmospheric Chemistry and Physics</i> , 2009, 9, 7901-7911.	4.9	77
15	Long-term exposure to ambient fine particulate matter (PM2.5) and incident type 2 diabetes: a longitudinal cohort study. <i>Diabetologia</i> , 2019, 62, 759-769.	6.3	75
16	The Association between Enterovirus 71 Infections and Meteorological Parameters in Taiwan. <i>PLoS ONE</i> , 2012, 7, e46845.	2.5	69
17	Effects of reactive hydrocarbons on ozone formation in southern Taiwan. <i>Atmospheric Environment</i> , 2005, 39, 2867-2878.	4.1	66
18	Photochemical production of ozone and control strategy for Southern Taiwan. <i>Atmospheric Environment</i> , 2007, 41, 9324-9340.	4.1	62

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19	Seasonal variation and spatial distribution of carbonaceous aerosols in Taiwan. <i>Atmospheric Chemistry and Physics</i> , 2010, 10, 9563-9578.	4.9	62
20	Assessing the impacts of seasonal and vertical atmospheric conditions on air quality over the Pearl River Delta region. <i>Atmospheric Environment</i> , 2018, 180, 69-78.	4.1	53
21	MICS-Asia III: multi-model comparison and evaluation of aerosol over East Asia. <i>Atmospheric Chemistry and Physics</i> , 2019, 19, 11911-11937.	4.9	53
22	Relationship between mean daily ambient temperature range and hospital admissions for schizophrenia: Results from a national cohort of psychiatric inpatients. <i>Science of the Total Environment</i> , 2011, 410-411, 41-46.	8.0	51
23	Modelling of long-range transport of Southeast Asia biomass-burning aerosols to Taiwan and their radiative forcings over East Asia. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , 2022, 66, 23733.	1.6	49
24	Implications of the chemical transformation of Asian outflow aerosols for the long-range transport of inorganic nitrogen species. <i>Atmospheric Environment</i> , 2008, 42, 7508-7519.	4.1	48
25	Fukushima-derived fission nuclides monitored around Taiwan: Free tropospheric versus boundary layer transport. <i>Earth and Planetary Science Letters</i> , 2012, 319-320, 9-14.	4.4	47
26	Relationship between heat index and mortality of 6 major cities in Taiwan. <i>Science of the Total Environment</i> , 2013, 442, 275-281.	8.0	46
27	Model evaluation and intercomparison of surface-level ozone and relevant species in East Asia in the context of MICS-Asia Phase III “Part 1: Overview. <i>Atmospheric Chemistry and Physics</i> , 2019, 19, 12993-13015.	4.9	46
28	A numerical study of an autumn high ozone episode over southwestern Taiwan. <i>Atmospheric Environment</i> , 2007, 41, 3684-3701.	4.1	45
29	Spatial and temporal analysis of urban heat island and global warming on residential thermal comfort and cooling energy in Taiwan. <i>Energy and Buildings</i> , 2017, 152, 804-812.	6.7	43
30	Evaluation and uncertainty investigation of the NO_2 , CO and NH_3 modeling over China under the framework of MICS-Asia III. <i>Atmospheric Chemistry and Physics</i> , 2020, 20, 181-202.	4.9	41
31	Metal Compositions of PM ₁₀ and PM _{2.5} Aerosols in Taipei during Spring, 2002. <i>Terrestrial, Atmospheric and Oceanic Sciences</i> , 2004, 15, 925.	0.6	41
32	Power output efficiency in large wind farms with different hub heights and configurations. <i>Renewable Energy</i> , 2019, 132, 941-949.	8.9	40
33	Effects of acidic processing, transport history, and dust and sea salt loadings on the dissolution of iron from Asian dust. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	37
34	Cardiovascular mortality during heat and cold events: determinants of regional vulnerability in Taiwan. <i>Occupational and Environmental Medicine</i> , 2011, 68, 525-530.	2.8	37
35	Impact of an improved WRF urban canopy model on diurnal air temperature simulation over northern Taiwan. <i>Atmospheric Chemistry and Physics</i> , 2016, 16, 1809-1822.	4.9	36
36	Lidar observations of the diurnal variations in the depth of urban mixing layer: A case study on the air quality deterioration in Taipei, Taiwan. <i>Science of the Total Environment</i> , 2007, 374, 156-166.	8.0	35

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37	PCDD/F Measurement at a High-Altitude Station in Central Taiwan: Evaluation of Long-Range Transport of PCDD/Fs during the Southeast Asia Biomass Burning Event. <i>Environmental Science & Technology</i> , 2010, 44, 2954-2960.	10.0	35
38	Mesoscale processes for super heavy rainfall of Typhoon Morakot (2009) over Southern Taiwan. <i>Atmospheric Chemistry and Physics</i> , 2011, 11, 345-361.	4.9	35
39	Field survey of Typhoon Hato (2017) and a comparison with storm surge modeling in Macau. <i>Natural Hazards and Earth System Sciences</i> , 2018, 18, 3167-3178.	3.6	35
40	Projecting the impacts of atmospheric conditions under climate change on air quality over the Pearl River Delta region. <i>Atmospheric Environment</i> , 2018, 193, 79-87.	4.1	35
41	Impact of different transport mechanisms of Asian dust and anthropogenic pollutants to Taiwan. <i>Atmospheric Environment</i> , 2012, 60, 403-418.	4.1	33
42	The impact of channel effect on Asian dust transport dynamics: a case in southeastern Asia. <i>Atmospheric Chemistry and Physics</i> , 2012, 12, 271-285.	4.9	32
43	Influence of Long-Range Transport Dust Particles on Local Air Quality: A Case Study on Asian Dust Episodes in Taipei during the Spring of 2002. <i>Terrestrial, Atmospheric and Oceanic Sciences</i> , 2004, 15, 881.	0.6	29
44	Dust transport from non-East Asian sources to the North Pacific. <i>Geophysical Research Letters</i> , 2012, 39, .	4.0	27
45	Estimation of anthropogenic heat emissions in urban Taiwan and their spatial patterns. <i>Environmental Pollution</i> , 2016, 215, 84-95.	7.5	27
46	Size-segregated characterization of atmospheric aerosols in Taipei during Asian outflow episodes. <i>Atmospheric Research</i> , 2005, 75, 89-109.	4.1	26
47	Analysis of the major factors affecting the visibility degradation in two stations. <i>Journal of the Air and Waste Management Association</i> , 2013, 63, 433-441.	1.9	26
48	The association between the incidence of mumps and meteorological parameters in Taiwan. <i>Human Vaccines and Immunotherapeutics</i> , 2015, 11, 1406-1412.	3.3	26
49	Climate variability of heat waves and their associated diurnal temperature range variations in Taiwan. <i>Environmental Research Letters</i> , 2017, 12, 074017.	5.2	25
50	Influence of Southeast Asian biomass burning on ozone and carbon monoxide over subtropical Taiwan. <i>Atmospheric Environment</i> , 2013, 64, 358-365.	4.1	24
51	Altitudinal and latitudinal dependence of future warming in Taiwan simulated by WRF nested with ECHAM5/MPIOM. <i>International Journal of Climatology</i> , 2015, 35, 1800-1809.	3.5	24
52	Title is missing!. <i>Meteorology and Atmospheric Physics</i> , 2002, 81, 1-25.	2.0	23
53	The 2018 summer heatwaves over northwestern Europe and its extended-range prediction. <i>Scientific Reports</i> , 2020, 10, 19283.	3.3	23
54	Effects of inflow turbulence intensity and turbine arrangements on the power generation efficiency of large wind farms. <i>Wind Energy</i> , 2020, 23, 1640-1655.	4.2	23

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55	Why do models perform differently on particulate matter over East Asia? A multi-model intercomparison study for MICS-Asia III. <i>Atmospheric Chemistry and Physics</i> , 2020, 20, 7393-7410.	4.9	21
56	Characteristics of springtime profiles and sources of ozone in the low troposphere over northern Taiwan. <i>Atmospheric Environment</i> , 2010, 44, 182-193.	4.1	20
57	Identifying pollutant source directions using multiple analysis methods at a rural location in New York. <i>Atmospheric Environment</i> , 2011, 45, 2531-2540.	4.1	20
58	Combined exposure to heavy metals in PM _{2.5} and pediatric asthma. <i>Journal of Allergy and Clinical Immunology</i> , 2021, 147, 2171-2180.e13.	2.9	19
59	Climate variability of heat wave and projection of warming scenario in Taiwan. <i>Climatic Change</i> , 2017, 145, 305-320.	3.6	18
60	Observations of ozone and carbon monoxide at Mei-Feng mountain site (2269 m a.s.l.) in Central Taiwan: Seasonal variations and influence of Asian continental outflow. <i>Science of the Total Environment</i> , 2011, 409, 3033-3042.	8.0	17
61	Deposition fluxes of PCDD/Fs in a reservoir system in northern Taiwan. <i>Chemosphere</i> , 2011, 83, 745-752.	8.2	17
62	Identifying controlling factors of ground-level ozone levels over southwestern Taiwan using a decision tree. <i>Atmospheric Environment</i> , 2012, 60, 142-152.	4.1	17
63	Seasonal Patterns of Japanese Encephalitis and Associated Meteorological Factors in Taiwan. <i>International Journal of Environmental Research and Public Health</i> , 2017, 14, 1317.	2.6	17
64	Regional Impact of Biomass Burning in Southeast Asia on Atmospheric Aerosols during the 2013 Seven South-East Asian Studies Project. <i>Aerosol and Air Quality Research</i> , 2017, 17, 2924-2941.	2.1	17
65	Impact of river-dust events on air quality of western Taiwan during winter monsoon: Observed evidence and model simulation. <i>Atmospheric Environment</i> , 2018, 192, 160-172.	4.1	16
66	Factors affecting the concentrations of PM ₁₀ in central Taiwan. <i>Chemosphere</i> , 2008, 70, 1273-1279.	8.2	15
67	Enhancements of airborne particulate arsenic over the subtropical free troposphere: impact of southern Asian biomass burning. <i>Atmospheric Chemistry and Physics</i> , 2018, 18, 13865-13879.	4.9	15
68	Climate variability of cold surge and its impact on the air quality of Taiwan. <i>Climatic Change</i> , 2009, 94, 457-471.	3.6	14
69	Evaluating real-time air-quality data as earthquake indicator. <i>Science of the Total Environment</i> , 2010, 408, 2299-2304.	8.0	13
70	Evaluation of surface heat fluxes in Chiayi plain of Taiwan by remotely sensed data. <i>International Journal of Remote Sensing</i> , 2010, 31, 3885-3898.	2.9	13
71	Unusual Roles of Discharge, Slope and SOC in DOC Transport in Small Mountainous Rivers, Taiwan. <i>Scientific Reports</i> , 2019, 9, 1574.	3.3	13
72	Regional Dispersal of Fukushima-Derived Fission Nuclides by East-Asian Monsoon: A Synthesis and Review. <i>Aerosol and Air Quality Research</i> , 2013, 13, 537-544.	2.1	13

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73	Aerosol characteristics of different types of episode. Environmental Monitoring and Assessment, 2013, 185, 9777-9787.	2.7	12
74	Association of long-term exposure to fine particulate matter and incident dyslipidaemia: A longitudinal cohort study. Environmental Research, 2019, 173, 359-365.	7.5	12
75	Evaluation of Atmospheric PCDD/Fs at Two High-Altitude Stations in Vietnam and Taiwan during Southeast Asia Biomass Burning. Aerosol and Air Quality Research, 2016, 16, 2706-2715.	2.1	12
76	Effect of subsampling tropical cyclone rainfall on flood hydrograph response in a subtropical mountainous catchment. Journal of Hydrology, 2011, 409, 248-261.	5.4	11
77	Evaluation of the distributions of ambient PCDD/Fs at remote locations in and around Taiwan. Atmospheric Environment, 2013, 78, 203-210.	4.1	11
78	Evaluation of environmental fate and sinks of PCDD/Fs during specific extreme weather events in Taiwan. Journal of Asian Earth Sciences, 2013, 77, 268-280.	2.3	11
79	C-Sr-Pb isotopic characteristics of PM2.5 transported on the East-Asian continental outflows. Atmospheric Research, 2019, 223, 88-97.	4.1	11
80	Effects of horizontal resolution and air-sea flux parameterization on the intensity and structure of simulated Typhoon Haiyan (2013). Natural Hazards and Earth System Sciences, 2019, 19, 1509-1539.	3.6	10
81	Observations of carbon monoxide mixing ratios at a mountain site in central Taiwan during the Asian biomass burning season. Atmospheric Research, 2010, 95, 270-278.	4.1	9
82	Air-chemistry & turbulence: power-law scaling and statistical regularity. Atmospheric Chemistry and Physics, 2011, 11, 8395-8413.	4.9	9
83	Stratospheric influence on the concentration and seasonal cycle of lower tropospheric ozone: Observation at Mount Hehuan, Taiwan. Journal of Geophysical Research D: Atmospheres, 2014, 119, 3527-3536.	3.3	9
84	Air quality deterioration episode associated with a typhoon over the complex topographic environment in central Taiwan. Atmospheric Chemistry and Physics, 2021, 21, 16893-16910.	4.9	9
85	Characteristics of major secondary ions in typical polluted atmospheric aerosols during autumn in central Taiwan. Journal of Environmental Management, 2011, 92, 1520-1527.	7.8	8
86	Influences of the Long-Range Transport of Biomass-Burning Pollutants on Surface Air Quality during 7-SEAS Field Campaigns. Aerosol and Air Quality Research, 2017, 17, 2595-2607.	2.1	8
87	A numerical study of reducing the concentration of O3 and PM2.5 simultaneously in Taiwan. Journal of Environmental Management, 2022, 318, 115614.	7.8	8
88	A preliminary study of the formation of precipitation systems under undisturbed conditions during TAMEX. Meteorology and Atmospheric Physics, 1997, 64, 83-105.	2.0	7
89	Increase of Ambient PCDD/F Concentrations in Northern Taiwan during Asian Dust Storm and Winter Monsoon Episodes. Aerosol and Air Quality Research, 2014, 14, 1279-1291.	2.1	7
90	Simulating nitrate formation mechanisms during PM2.5 events in Taiwan and their implications for the controlling direction. Atmospheric Environment, 2022, 269, 118856.	4.1	7

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91	VARIATIONS OF CHEMICAL COMPOSITIONS IN COARSE AEROSOLS AND FINE AEROSOLS IN TWO SUCCESSIVE EPISODES. <i>Environmental Toxicology and Chemistry</i> , 2006, 25, 2059.	4.3	6
92	Long-term monitoring of atmospheric PCDD/Fs at Mount Lulin during spring season: PCDD/F source apportionment through a simultaneous measurement in Southeast Asia. <i>Chemosphere</i> , 2017, 185, 368-375.	8.2	6
93	Epidemiologic features of shigellosis and associated climatic factors in Taiwan. <i>Medicine (United Tj ETQq1 1 0.784314 rgBT /Overloc</i>	1.0	6
94	Discrepancies on Storm Surge Predictions by Parametric Wind Model and Numerical Weather Prediction Model in a Semi-Enclosed Bay: Case Study of Typhoon Haiyan. <i>Water (Switzerland)</i> , 2020, 12, 3326.	2.7	6
95	A study of afternoon heavy rainfall in Taiwan during the mei-yu season. <i>Atmospheric Research</i> , 2002, 65, 129-149.	4.1	5
96	The effects of a solar eclipse on photo-oxidants in different areas of China. <i>Atmospheric Chemistry and Physics</i> , 2011, 11, 8075-8085.	4.9	5
97	Ambient viral and bacterial distribution during long-range transport in Northern Taiwan. <i>Environmental Pollution</i> , 2021, 270, 116231.	7.5	5
98	Effects of Island Topography on Storm Surge in Taiwan Strait during Typhoon Maria. <i>Journal of Waterway, Port, Coastal and Ocean Engineering</i> , 2021, 147, 04020057.	1.2	5
99	ESTIMATING DEMAND FOR GOOD CLIMATE AND AIR QUALITY IN TAIWAN. <i>Climate Change Economics</i> , 2021, 12, 2150003.	5.0	4
100	Isotopic signatures and source apportionment of Pb in ambient PM2.5. <i>Scientific Reports</i> , 2022, 12, 4343.	3.3	4
101	A study of a precipitation system in northeastern Taiwan during TAMEX IOP#10. <i>Meteorology and Atmospheric Physics</i> , 1996, 59, 185-200.	2.0	3
102	A numerical study of airflow over Taiwan island. <i>Atmospheric Environment</i> , 1997, 31, 463-473.	4.1	3
103	Multi-year investigations of aerosol layer using lidar measurements at Chung-Li, Taiwan. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 2012, 89, 40-47.	1.6	3
104	Landsat 8 operational land imager-derived variables for environmental risk assessment in Taoyuan. , 2015, , .		3
105	Numerical Analysis of the Mesoscale Dynamics of an Extreme Rainfall and Flood Event in Sri Lanka in May 2016. <i>Journal of the Meteorological Society of Japan</i> , 2019, 97, 821-839.	1.8	3
106	Development of operational multi-scale storm surge inundated model and application of 2013 typhoon Haiyan. <i>Procedia IUTAM</i> , 2017, 25, 100-103.	1.2	2
107	TEMPERATURE CAN BE AN EFFECTIVE PREDICTOR FOR DENGUE FEVER OUTBREAK. <i>Epidemiology</i> , 2005, 16, S72.	2.7	2
108	Changes in Ambient Bacterial Community in Northern Taiwan during Long-Range Transport: Asian Dust Storm and Frontal Pollution. <i>Atmosphere</i> , 2022, 13, 841.	2.3	2

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109	Determinants Characterizing Adaptive Capability for Island-Wide Cardiovascular Mortality at Extreme Temperatures in Taiwan. Epidemiology, 2009, 20, S89-S90.	2.7	1
110	The Effects of Temperature and Recovery of Vector on the Spatial Distribution of Dengue Fever Occurrences in Taiwan. Epidemiology, 2006, 17, S206.	2.7	1
111	Impacts of offshore wind farms on the atmospheric environment over Taiwan Strait during an extreme weather typhoon event. Scientific Reports, 2022, 12, 823.	3.3	1
112	Data Assimilation of Doppler Wind Lidar for the Extreme Rainfall Event Prediction over Northern Taiwan: A Case Study. Atmosphere, 2022, 13, 987.	2.3	1
113	Parallel-Computing Two-Way Grid-Nested Storm Surge Model with a Moving Boundary Scheme and Case Study of the 2013 Super Typhoon Haiyan. Water (Switzerland), 2022, 14, 547.	2.7	0
114	IMPLICIT PRICES OF JOB RISK, CLIMATE, AND AIR POLLUTION: EVIDENCE FROM TAIWAN. Climate Change Economics, 0, , .	5.0	0