

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	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
2	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
3	Simulating nitrate formation mechanisms during PM2.5 events in Taiwan and their implications for the controlling direction. <i>Atmospheric Environment</i> , 2022, 269, 118856.	4.1	7
4	Impacts of offshore wind farms on the atmospheric environment over Taiwan Strait during an extreme weather typhoon event. <i>Scientific Reports</i> , 2022, 12, 823.	3.3	1
5	Parallel-Computing Two-Way Grid-Nested Storm Surge Model with a Moving Boundary Scheme and Case Study of the 2013 Super Typhoon Haiyan. <i>Water (Switzerland)</i> , 2022, 14, 547.	2.7	0
6	Isotopic signatures and source apportionment of Pb in ambient PM2.5. <i>Scientific Reports</i> , 2022, 12, 4343.	3.3	4
7	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
8	Data Assimilation of Doppler Wind Lidar for the Extreme Rainfall Event Prediction over Northern Taiwan: A Case Study. <i>Atmosphere</i> , 2022, 13, 987.	2.3	1
9	A numerical study of reducing the concentration of O3 and PM2.5 simultaneously in Taiwan. <i>Journal of Environmental Management</i> , 2022, 318, 115614.	7.8	8
10	Ambient viral and bacterial distribution during long-range transport in Northern Taiwan. <i>Environmental Pollution</i> , 2021, 270, 116231.	7.5	5
11	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
12	ESTIMATING DEMAND FOR GOOD CLIMATE AND AIR QUALITY IN TAIWAN. <i>Climate Change Economics</i> , 2021, 12, 2150003.	5.0	4
13	Combined exposure to heavy metals in PM2.5 and pediatric asthma. <i>Journal of Allergy and Clinical Immunology</i> , 2021, 147, 2171-2180.e13.	2.9	19
14	Air quality deterioration episode associated with a typhoon over the complex topographic environment in central Taiwan. <i>Atmospheric Chemistry and Physics</i> , 2021, 21, 16893-16910.	4.9	9
15	The 2018 summer heatwaves over northwestern Europe and its extended-range prediction. <i>Scientific Reports</i> , 2020, 10, 19283.	3.3	23
16	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
17	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
18	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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19	Evaluation and uncertainty investigation of the NO ₂ , CO and NH ₃ modeling over China under the framework of MICS-Asia III. Atmospheric Chemistry and Physics, 2020, 20, 181-202.	4.9	41
20	Power output efficiency in large wind farms with different hub heights and configurations. Renewable Energy, 2019, 132, 941-949.	8.9	40
21	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
22	Long-term exposure to ambient fine particulate matter (PM _{2.5}) and incident type 2 diabetes: a longitudinal cohort study. Diabetologia, 2019, 62, 759-769.	6.3	75
23	Numerical Analysis of the Mesoscale Dynamics of an Extreme Rainfall and Flood Event in Sri Lanka in May 2016. Journal of the Meteorological Society of Japan, 2019, 97, 821-839.	1.8	3
24	C-Sr-Pb isotopic characteristics of PM _{2.5} transported on the East-Asian continental outflows. Atmospheric Research, 2019, 223, 88-97.	4.1	11
25	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
26	Unusual Roles of Discharge, Slope and SOC in DOC Transport in Small Mountainous Rivers, Taiwan. Scientific Reports, 2019, 9, 1574.	3.3	13
27	Epidemiologic features of shigellosis and associated climatic factors in Taiwan. Medicine (United Tj ETQq1 1 0.784314 rgBT /Overloc	1.0	6
28	MICS-Asia III: multi-model comparison and evaluation of aerosol over East Asia. Atmospheric Chemistry and Physics, 2019, 19, 11911-11937.	4.9	53
29	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. Atmospheric Chemistry and Physics, 2019, 19, 12993-13015.	4.9	46
30	Assessing the impacts of seasonal and vertical atmospheric conditions on air quality over the Pearl River Delta region. Atmospheric Environment, 2018, 180, 69-78.	4.1	53
31	Field survey of Typhoon Hato (2017) and a comparison with storm surge modeling in Macau. Natural Hazards and Earth System Sciences, 2018, 18, 3167-3178.	3.6	35
32	Enhancements of airborne particulate arsenic over the subtropical free troposphere: impact of southern Asian biomass burning. Atmospheric Chemistry and Physics, 2018, 18, 13865-13879.	4.9	15
33	Impact of river-dust events on air quality of western Taiwan during winter monsoon: Observed evidence and model simulation. Atmospheric Environment, 2018, 192, 160-172.	4.1	16
34	Projecting the impacts of atmospheric conditions under climate change on air quality over the Pearl River Delta region. Atmospheric Environment, 2018, 193, 79-87.	4.1	35
35	Climate variability of heat waves and their associated diurnal temperature range variations in Taiwan. Environmental Research Letters, 2017, 12, 074017.	5.2	25
36	Long-term monitoring of atmospheric PCDD/Fs at Mount Lulin during spring season: PCDD/F source apportionment through a simultaneous measurement in Southeast Asia. Chemosphere, 2017, 185, 368-375.	8.2	6

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37	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
38	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
39	Climate variability of heat wave and projection of warming scenario in Taiwan. <i>Climatic Change</i> , 2017, 145, 305-320.	3.6	18
40	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
41	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
42	Influences of the Long-Range Transport of Biomass-Burning Pollutants on Surface Air Quality during 7-SEAS Field Campaigns. <i>Aerosol and Air Quality Research</i> , 2017, 17, 2595-2607.	2.1	8
43	Estimation of anthropogenic heat emissions in urban Taiwan and their spatial patterns. <i>Environmental Pollution</i> , 2016, 215, 84-95.	7.5	27
44	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
45	Evaluation of Atmospheric PCDD/Fs at Two High-Altitude Stations in Vietnam and Taiwan during Southeast Asia Biomass Burning. <i>Aerosol and Air Quality Research</i> , 2016, 16, 2706-2715.	2.1	12
46	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
47	Landsat 8 operational land imager-derived variables for environmental risk assessment in Taoyuan. , 2015, , .		3
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	Modeling the spatio-temporal heterogeneity in the PM10-PM2.5 relationship. <i>Atmospheric Environment</i> , 2015, 102, 176-182.	4.1	97
50	Stratospheric influence on the concentration and seasonal cycle of lower tropospheric ozone: Observation at Mount Hehuan, Taiwan. <i>Journal of Geophysical Research D: Atmospheres</i> , 2014, 119, 3527-3536.	3.3	9
51	Increase of Ambient PCDD/F Concentrations in Northern Taiwan during Asian Dust Storm and Winter Monsoon Episodes. <i>Aerosol and Air Quality Research</i> , 2014, 14, 1279-1291.	2.1	7
52	Aerosol characteristics of different types of episode. <i>Environmental Monitoring and Assessment</i> , 2013, 185, 9777-9787.	2.7	12
53	Evaluation of the distributions of ambient PCDD/Fs at remote locations in and around Taiwan. <i>Atmospheric Environment</i> , 2013, 78, 203-210.	4.1	11
54	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

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55	Evaluation of environmental fate and sinks of PCDD/Fs during specific extreme weather events in Taiwan. <i>Journal of Asian Earth Sciences</i> , 2013, 77, 268-280.	2.3	11
56	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
57	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
58	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
59	Effects of Extreme Precipitation to the Distribution of Infectious Diseases in Taiwan, 1994–2008. <i>PLoS ONE</i> , 2012, 7, e34651.	2.5	108
60	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
61	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
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	Impact of different transport mechanisms of Asian dust and anthropogenic pollutants to Taiwan. <i>Atmospheric Environment</i> , 2012, 60, 403-418.	4.1	33
64	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
65	Dust transport from non-East Asian sources to the North Pacific. <i>Geophysical Research Letters</i> , 2012, 39, .	4.0	27
66	The Association between Enterovirus 71 Infections and Meteorological Parameters in Taiwan. <i>PLoS ONE</i> , 2012, 7, e46845.	2.5	69
67	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
68	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
69	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
70	Air-chemistry & “turbulence”: power-law scaling and statistical regularity. <i>Atmospheric Chemistry and Physics</i> , 2011, 11, 8395-8413.	4.9	9
71	Effect of subsampling tropical cyclone rainfall on flood hydrograph response in a subtropical mountainous catchment. <i>Journal of Hydrology</i> , 2011, 409, 248-261.	5.4	11
72	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

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73	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
74	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
75	Deposition fluxes of PCDD/Fs in a reservoir system in northern Taiwan. <i>Chemosphere</i> , 2011, 83, 745-752.	8.2	17
76	Characteristics of major secondary ions in typical polluted atmospheric aerosols during autumn in central Taiwan. <i>Journal of Environmental Management</i> , 2011, 92, 1520-1527.	7.8	8
77	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
78	Seasonal variation and spatial distribution of carbonaceous aerosols in Taiwan. <i>Atmospheric Chemistry and Physics</i> , 2010, 10, 9563-9578.	4.9	62
79	Evaluating real-time air-quality data as earthquake indicator. <i>Science of the Total Environment</i> , 2010, 408, 2299-2304.	8.0	13
80	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
81	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
82	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
83	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
84	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
85	Observations of carbon monoxide mixing ratios at a mountain site in central Taiwan during the Asian biomass burning season. <i>Atmospheric Research</i> , 2010, 95, 270-278.	4.1	9
86	Determinants Characterizing Adaptive Capability for Island-Wide Cardiovascular Mortality at Extreme Temperatures in Taiwan. <i>Epidemiology</i> , 2009, 20, S89-S90.	2.7	1
87	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
88	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
89	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
90	Numerical study of the impact of urbanization on the precipitation over Taiwan. <i>Atmospheric Environment</i> , 2008, 42, 2934-2947.	4.1	85

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91	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
92	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
93	Factors affecting the concentrations of PM10 in central Taiwan. <i>Chemosphere</i> , 2008, 70, 1273-1279.	8.2	15
94	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
95	Weather as an effective predictor for occurrence of dengue fever in Taiwan. <i>Acta Tropica</i> , 2007, 103, 50-57.	2.0	206
96	A numerical study of an autumn high ozone episode over southwestern Taiwan. <i>Atmospheric Environment</i> , 2007, 41, 3684-3701.	4.1	45
97	Photochemical production of ozone and control strategy for Southern Taiwan. <i>Atmospheric Environment</i> , 2007, 41, 9324-9340.	4.1	62
98	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
99	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
100	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
101	The Effects of Temperature and Recovery of Vector on the Spatial Distribution of Dengue Fever Occurrences in Taiwan. <i>Epidemiology</i> , 2006, 17, S206.	2.7	1
102	Effects of reactive hydrocarbons on ozone formation in southern Taiwan. <i>Atmospheric Environment</i> , 2005, 39, 2867-2878.	4.1	66
103	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
104	Size-segregated characterization of atmospheric aerosols in Taipei during Asian outflow episodes. <i>Atmospheric Research</i> , 2005, 75, 89-109.	4.1	26
105	TEMPERATURE CAN BE AN EFFECTIVE PREDICTOR FOR DENGUE FEVER OUTBREAK. <i>Epidemiology</i> , 2005, 16, S72.	2.7	2
106	Long-Range Transport of Asian Dust and Air Pollutants to Taiwan. <i>Terrestrial, Atmospheric and Oceanic Sciences</i> , 2004, 15, 759.	0.6	80
107	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
108	Metal Compositions of PM10 and PM2.5 Aerosols in Taipei during Spring, 2002. <i>Terrestrial, Atmospheric and Oceanic Sciences</i> , 2004, 15, 925.	0.6	41

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109	A study of afternoon heavy rainfall in Taiwan during the mei-yu season. Atmospheric Research, 2002, 65, 129-149.	4.1	5
110	Title is missing!. Meteorology and Atmospheric Physics, 2002, 81, 1-25.	2.0	23
111	A numerical study of airflow over Taiwan island. Atmospheric Environment, 1997, 31, 463-473.	4.1	3
112	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
113	A study of a precipitation system in northeastern Taiwan during TAMEX IOP#10. Meteorology and Atmospheric Physics, 1996, 59, 185-200.	2.0	3
114	IMPLICIT PRICES OF JOB RISK, CLIMATE, AND AIR POLLUTION: EVIDENCE FROM TAIWAN. Climate Change Economics, 0, , .	5.0	0