

Sheng-Hsiang Wang

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

73
papers

1,736
citations

26
h-index

39
g-index

82
ext. papers

2,030
ext. citations

5
avg, IF

4.64
L-index

#	Paper	IF	Citations
73	Boundary Layer Characteristics Over Complex Terrain in Central Taiwan: Observations and Numerical Modeling. <i>Journal of Geophysical Research D: Atmospheres</i> , 2022 , 127,	4.4	1
72	Chemical characteristics and sources of organic aerosols across the Taiwan Strait. <i>Atmospheric Pollution Research</i> , 2022 , 13, 101312	4.5	
71	Impact of lidar data assimilation on planetary boundary layer wind and PM _{2.5} prediction in Taiwan. <i>Atmospheric Environment</i> , 2022 , 277, 119064	5.3	
70	Seasonality of the particle number concentration and size distribution: a global analysis retrieved from the network of Global Atmosphere Watch (GAW) near-surface observatories. <i>Atmospheric Chemistry and Physics</i> , 2021 , 21, 17185-17223	6.8	7
69	Analyzing the increasing importance of nitrate in Taiwan from long-term trend of measurements. <i>Atmospheric Environment</i> , 2021 , 267, 118749	5.3	0
68	Aerosol impacts on warm-cloud microphysics and drizzle in a moderately polluted environment. <i>Atmospheric Chemistry and Physics</i> , 2021 , 21, 4487-4502	6.8	5
67	Assessment of biomass-burning types and transport over Thailand and the associated health risks. <i>Atmospheric Environment</i> , 2021 , 247, 118176	5.3	4
66	Improving prediction of trans-boundary biomass burning plume dispersion: from northern peninsular Southeast Asia to downwind western North Pacific Ocean. <i>Atmospheric Chemistry and Physics</i> , 2021 , 21, 12521-12541	6.8	2
65	Long-range air pollution transport in East Asia during the first week of the COVID-19 lockdown in China. <i>Science of the Total Environment</i> , 2020 , 741, 140214	10.2	33
64	Study on the impact of three Asian industrial regions on PM _{2.5} in Taiwan and the process analysis during transport. <i>Atmospheric Chemistry and Physics</i> , 2020 , 20, 14947-14967	6.8	4
63	A global analysis of climate-relevant aerosol properties retrieved from the network of Global Atmosphere Watch (GAW) near-surface observatories. <i>Atmospheric Measurement Techniques</i> , 2020 , 13, 4353-4392	4	32
62	Distinguishing Between Remote and Local Air Pollution Over Taiwan: An Approach Based on Pollution Homogeneity Analysis. <i>Springer Proceedings in Complexity</i> , 2020 , 279-283	0.3	
61	Influence of Synoptic-Dynamic Meteorology on the Long-Range Transport of Indochina Biomass Burning Aerosols. <i>Journal of Geophysical Research D: Atmospheres</i> , 2020 , 125, e2019JD031260	4.4	8
60	Black carbon over an urban atmosphere in northern peninsular Southeast Asia: Characteristics, source apportionment, and associated health risks. <i>Environmental Pollution</i> , 2020 , 259, 113871	9.3	39
59	Characterizing a landmark biomass-burning event and its implication for aging processes during long-range transport. <i>Atmospheric Environment</i> , 2020 , 241, 117766	5.3	14
58	Impact of meteorological conditions and air pollution on COVID-19 pandemic transmission in Italy. <i>Scientific Reports</i> , 2020 , 10, 16213	4.9	67
57	Determination of Lidar Ratio for Major Aerosol Types over Western North Pacific Based on Long-Term MPLNET Data. <i>Remote Sensing</i> , 2020 , 12, 2769	5	0

56	Estimation of background PM _{2.5} concentrations for an air-polluted environment. <i>Atmospheric Research</i> , 2020 , 231, 104636	5.4	5
55	Investigation of long-range transported PM _{2.5} events over Northern Taiwan during 2005–2015 winter seasons. <i>Atmospheric Environment</i> , 2019 , 217, 116920	5.3	6
54	Relationship between long-range transported atmospheric black carbon and carbon monoxide at a high-altitude background station in East Asia. <i>Atmospheric Environment</i> , 2019 , 210, 86-99	5.3	23
53	Superposition of Gobi Dust and Southeast Asian Biomass Burning: The Effect of Multisource Long-Range Transport on Aerosol Optical Properties and Regional Meteorology Modification. <i>Journal of Geophysical Research D: Atmospheres</i> , 2019 , 124, 9464-9483	4.4	4
52	Radiative response of biomass-burning aerosols over an urban atmosphere in northern peninsular Southeast Asia. <i>Science of the Total Environment</i> , 2018 , 633, 892-911	10.2	45
51	Analysis of the Co-existence of Long-range Transport Biomass Burning and Dust in the Subtropical West Pacific Region. <i>Scientific Reports</i> , 2018 , 8, 8962	4.9	7
50	Differentiating between local and remote pollution over Taiwan. <i>Aerosol and Air Quality Research</i> , 2018 , 18, 1788-1798	4.6	5
49	Aerosol optical properties at the Lulin Atmospheric Background Station in Taiwan and the influences of long-range transport of air pollutants. <i>Atmospheric Environment</i> , 2017 , 150, 366-378	5.3	14
48	Greenhouse gases stabilizing winter atmosphere in the Indo-Gangetic plains may increase aerosol loading. <i>Atmospheric Science Letters</i> , 2017 , 18, 168-174	2.4	9
47	Evaluation of PM surface concentration simulated by Version 1 of the NASA QMERRA Aerosol Reanalysis over Israel and Taiwan. <i>Aerosol and Air Quality Research</i> , 2017 , 17, 253-261	4.6	19
46	Chemical Characterization of Wintertime Aerosols over Islands and Mountains in East Asia: Impacts of the Continental Asian Outflow. <i>Aerosol and Air Quality Research</i> , 2017 , 17, 3006-3036	4.6	22
45	Interannual variation of springtime biomass burning in Indochina: Regional differences, associated atmospheric dynamical changes, and downwind impacts. <i>Journal of Geophysical Research D: Atmospheres</i> , 2016 , 121, 10016-10028	4.4	16
44	Mixing weight determination for retrieving optical properties of polluted dust with MODIS and AERONET data. <i>Environmental Research Letters</i> , 2016 , 11, 085002	6.2	2
43	Transport characteristics of Chinese haze over Northern Taiwan in winter, 2005–2014. <i>Atmospheric Environment</i> , 2016 , 126, 76-86	5.3	29
42	The Simulation of Long-Range Transport of Biomass Burning Plume and Short-Range Transport of Anthropogenic Pollutants to a Mountain Observatory in East Asia during the 7-SEAS/2010 Dongsha Experiment. <i>Aerosol and Air Quality Research</i> , 2016 , 16, 2933-2949	4.6	9
41	Investigation of the CCN Activity, BC and UVBC Mass Concentrations of Biomass Burning Aerosols during the 2013 BASELINE Campaign. <i>Aerosol and Air Quality Research</i> , 2016 , 16, 2742-2756	4.6	10
40	Aerosol Chemical Profile of Near-Source Biomass Burning Smoke in Sonla, Vietnam during 7-SEAS Campaigns in 2012 and 2013. <i>Aerosol and Air Quality Research</i> , 2016 , 16, 2603-2617	4.6	18
39	Characterization of Particulate Matter Profiling and Alveolar Deposition from Biomass Burning in Northern Thailand: The 7-SEAS Study. <i>Aerosol and Air Quality Research</i> , 2016 , 16, 2897-2906	4.6	13

38	Evaluating the Height of Biomass Burning Smoke Aerosols Retrieved from Synergistic Use of Multiple Satellite Sensors over Southeast Asia. <i>Aerosol and Air Quality Research</i> , 2016 , 16, 2831-2842	4.6	7
37	COMMIT in 7-SEAS/BASELINE: Operation of and Observations from a Novel, Mobile Laboratory for Measuring In-Situ Properties of Aerosols and Gases. <i>Aerosol and Air Quality Research</i> , 2016 , 16, 2728-2741	4.6	2
36	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	4.6	7
35	Radiative Effect of Springtime Biomass-Burning Aerosols over Northern Indochina during 7-SEAS/BASELINE 2013 Campaign. <i>Aerosol and Air Quality Research</i> , 2016 , 16, 2802-2817	4.6	32
34	Satellite-Surface Perspectives of Air Quality and Aerosol-Cloud Effects on the Environment: An Overview of 7-SEAS/BASELINE. <i>Aerosol and Air Quality Research</i> , 2016 , 16, 2581-2602	4.6	38
33	In-Situ and Remotely-Sensed Observations of Biomass Burning Aerosols at Doi Ang Khang, Thailand during 7-SEAS/BASELINE 2015. <i>Aerosol and Air Quality Research</i> , 2016 , 16, 2786-2801	4.6	11
32	Assessment of aerosol optical property and radiative effect for the layer decoupling cases over the northern South China Sea during the 7-SEAS/Dongsha Experiment. <i>Journal of Geophysical Research D: Atmospheres</i> , 2016 , 121, 4894-4906	4.4	29
31	Simulating the transport and chemical evolution of biomass burning pollutants originating from Southeast Asia during 7-SEAS/2010 Dongsha experiment. <i>Atmospheric Environment</i> , 2015 , 112, 294-305	5.3	16
30	Tethered balloon-based black carbon profiles within the lower troposphere of Shanghai in the 2013 East China smog. <i>Atmospheric Environment</i> , 2015 , 123, 327-338	5.3	59
29	Vertical Distribution and Columnar Optical Properties of Springtime Biomass-Burning Aerosols over Northern Indochina during 2014 7-SEAS Campaign. <i>Aerosol and Air Quality Research</i> , 2015 , 15, 2037-2050	4.6	26
28	Characteristics of atmospheric carbon monoxide at a high-mountain background station in East Asia. <i>Atmospheric Environment</i> , 2014 , 89, 613-622	5.3	35
27	Interactions between biomass-burning aerosols and clouds over Southeast Asia: current status, challenges, and perspectives. <i>Environmental Pollution</i> , 2014 , 195, 292-307	9.3	47
26	Carbonaceous aerosols in the air masses transported from Indochina to Taiwan: Long-term observation at Mt. Lulin. <i>Atmospheric Environment</i> , 2014 , 89, 507-516	5.3	41
25	MPLNET lidar data assimilation in the ECMWF MACC-II Aerosol system: evaluation of model performances at NCU lidar station 2014 ,		3
24	Characteristics and composition of atmospheric aerosols in Phimai, central Thailand during BASE-ASIA. <i>Atmospheric Environment</i> , 2013 , 78, 60-71	5.3	24
23	Distribution of atmospheric mercury in northern Southeast Asia and South China Sea during Dongsha Experiment. <i>Atmospheric Environment</i> , 2013 , 78, 174-183	5.3	36
22	An overview of regional experiments on biomass burning aerosols and related pollutants in Southeast Asia: From BASE-ASIA and the Dongsha Experiment to 7-SEAS. <i>Atmospheric Environment</i> , 2013 , 78, 1-19	5.3	128
21	Atmospheric PCDD/F measurement in Taiwan and Southeast Asia during Dongsha Experiment. <i>Atmospheric Environment</i> , 2013 , 78, 195-202	5.3	12

20	Evaluation of the distributions of ambient PCDD/Fs at remote locations in and around Taiwan. <i>Atmospheric Environment</i> , 2013 , 78, 203-210	5.3	6
19	Origin, transport, and vertical distribution of atmospheric pollutants over the northern South China Sea during the 7-SEAS/Dongsha Experiment. <i>Atmospheric Environment</i> , 2013 , 78, 124-133	5.3	22
18	Influence of Asian continental outflow on the regional background ozone level in northern South China Sea. <i>Atmospheric Environment</i> , 2013 , 78, 144-153	5.3	16
17	From BASE-ASIA toward 7-SEAS: A satellite-surface perspective of boreal spring biomass-burning aerosols and clouds in Southeast Asia. <i>Atmospheric Environment</i> , 2013 , 78, 20-34	5.3	49
16	Constraining aerosol optical models using ground-based, collocated particle size and mass measurements in variable air mass regimes during the 7-SEAS/Dongsha experiment. <i>Atmospheric Environment</i> , 2013 , 78, 163-173	5.3	9
15	Can Asian dust trigger phytoplankton blooms in the oligotrophic northern South China Sea?. <i>Geophysical Research Letters</i> , 2012 , 39, n/a-n/a	4.9	19
14	Aerosol properties over the Indo-Gangetic Plain: A mesoscale perspective from the TIGERZ experiment. <i>Journal of Geophysical Research</i> , 2011 , 116,		122
13	First detailed observations of long-range transported dust over the northern South China Sea. <i>Atmospheric Environment</i> , 2011 , 45, 4804-4808	5.3	69
12	The enhancement of PM _{2.5} mass and water-soluble ions of biosmoke transported from Southeast Asia over the Mountain Lulin site in Taiwan. <i>Atmospheric Environment</i> , 2011 , 45, 5784-5794	5.3	56
11	An Assessment of the Surface Longwave Direct Radiative Effect of Airborne Saharan Dust during the NAMMA Field Campaign. <i>Journals of the Atmospheric Sciences</i> , 2010 , 67, 1048-1065	2.1	46
10	Impact of Asian dust and continental pollutants on cloud chemistry observed in northern Taiwan during the experimental period of ABC/EAREX 2005. <i>Journal of Geophysical Research</i> , 2010 , 115,		7
9	Profiling transboundary aerosols over Taiwan and assessing their radiative effects. <i>Journal of Geophysical Research</i> , 2010 , 115,		22
8	Modification of Saharan air layer and environmental shear over the eastern Atlantic Ocean by dust-radiation effects. <i>Journal of Geophysical Research</i> , 2010 , 115,		46
7	Temporal distribution and potential sources of atmospheric mercury measured at a high-elevation background station in Taiwan. <i>Atmospheric Environment</i> , 2010 , 44, 2393-2400	5.3	111
6	Increases in ambient PCDD/F and PCB concentrations in Northern Taiwan during an Asian dust storm episode. <i>Science of the Total Environment</i> , 2008 , 401, 100-8	10.2	35
5	Rainwater chemistry at a high-altitude station, Mt. Lulin, Taiwan: Comparison with a background station, Mt. Fuji. <i>Journal of Geophysical Research</i> , 2008 , 113,		31
4	Estimate of radiative forcing of Asian biomass-burning aerosols during the period of TRACE-P. <i>Journal of Geophysical Research</i> , 2007 , 112,		30
3	A dual site study of the rainwater chemistry within the Western Pacific region. <i>Journal of Atmospheric Chemistry</i> , 2007 , 57, 85-103	3.2	9

2	Columnar aerosol types and compositions over peninsular Southeast Asia based on long-term AERONET data. <i>Air Quality, Atmosphere and Health</i> ,1	5.6	1
1	Impact of meteorology and air pollution on Covid-19 pandemic transmission in Lombardy region, Northern Italy		2