

# Sheng-Hsiang Wang

## List of Publications by Citations

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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	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> , <b>2013</b> , 78, 1-19	5.3	128
72	Aerosol properties over the Indo-Gangetic Plain: A mesoscale perspective from the TIGERZ experiment. <i>Journal of Geophysical Research</i> , <b>2011</b> , 116,		122
71	Temporal distribution and potential sources of atmospheric mercury measured at a high-elevation background station in Taiwan. <i>Atmospheric Environment</i> , <b>2010</b> , 44, 2393-2400	5.3	111
70	First detailed observations of long-range transported dust over the northern South China Sea. <i>Atmospheric Environment</i> , <b>2011</b> , 45, 4804-4808	5.3	69
69	Impact of meteorological conditions and air pollution on COVID-19 pandemic transmission in Italy. <i>Scientific Reports</i> , <b>2020</b> , 10, 16213	4.9	67
68	Tethered balloon-based black carbon profiles within the lower troposphere of Shanghai in the 2013 East China smog. <i>Atmospheric Environment</i> , <b>2015</b> , 123, 327-338	5.3	59
67	The enhancement of PM <sub>2.5</sub> mass and water-soluble ions of biosmoke transported from Southeast Asia over the Mountain Lulin site in Taiwan. <i>Atmospheric Environment</i> , <b>2011</b> , 45, 5784-5794	5.3	56
66	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> , <b>2013</b> , 78, 20-34	5.3	49
65	Interactions between biomass-burning aerosols and clouds over Southeast Asia: current status, challenges, and perspectives. <i>Environmental Pollution</i> , <b>2014</b> , 195, 292-307	9.3	47
64	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> , <b>2010</b> , 67, 1048-1065	2.1	46
63	Modification of Saharan air layer and environmental shear over the eastern Atlantic Ocean by dust-radiation effects. <i>Journal of Geophysical Research</i> , <b>2010</b> , 115,		46
62	Radiative response of biomass-burning aerosols over an urban atmosphere in northern peninsular Southeast Asia. <i>Science of the Total Environment</i> , <b>2018</b> , 633, 892-911	10.2	45
61	Carbonaceous aerosols in the air masses transported from Indochina to Taiwan: Long-term observation at Mt. Lulin. <i>Atmospheric Environment</i> , <b>2014</b> , 89, 507-516	5.3	41
60	Black carbon over an urban atmosphere in northern peninsular Southeast Asia: Characteristics, source apportionment, and associated health risks. <i>Environmental Pollution</i> , <b>2020</b> , 259, 113871	9.3	39
59	Satellite-Surface Perspectives of Air Quality and Aerosol-Cloud Effects on the Environment: An Overview of 7-SEAS/BASEInE. <i>Aerosol and Air Quality Research</i> , <b>2016</b> , 16, 2581-2602	4.6	38
58	Distribution of atmospheric mercury in northern Southeast Asia and South China Sea during Dongsha Experiment. <i>Atmospheric Environment</i> , <b>2013</b> , 78, 174-183	5.3	36
57	Characteristics of atmospheric carbon monoxide at a high-mountain background station in East Asia. <i>Atmospheric Environment</i> , <b>2014</b> , 89, 613-622	5.3	35

56	Increases in ambient PCDD/F and PCB concentrations in Northern Taiwan during an Asian dust storm episode. <i>Science of the Total Environment</i> , <b>2008</b> , 401, 100-8	10.2	35
55	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> , <b>2020</b> , 741, 140214	10.2	33
54	Radiative Effect of Springtime Biomass-Burning Aerosols over Northern Indochina during 7-SEAS/BASELINE 2013 Campaign. <i>Aerosol and Air Quality Research</i> , <b>2016</b> , 16, 2802-2817	4.6	32
53	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> , <b>2020</b> , 13, 4353-4392	4	32
52	Rainwater chemistry at a high-altitude station, Mt. Lulin, Taiwan: Comparison with a background station, Mt. Fuji. <i>Journal of Geophysical Research</i> , <b>2008</b> , 113,		31
51	Estimate of radiative forcing of Asian biomass-burning aerosols during the period of TRACE-P. <i>Journal of Geophysical Research</i> , <b>2007</b> , 112,		30
50	Transport characteristics of Chinese haze over Northern Taiwan in winter, 2005-2014. <i>Atmospheric Environment</i> , <b>2016</b> , 126, 76-86	5.3	29
49	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> , <b>2016</b> , 121, 4894-4906	4.4	29
48	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> , <b>2015</b> , 15, 2037-2050	4.6	26
47	Characteristics and composition of atmospheric aerosols in Phimai, central Thailand during BASE-ASIA. <i>Atmospheric Environment</i> , <b>2013</b> , 78, 60-71	5.3	24
46	Relationship between long-range transported atmospheric black carbon and carbon monoxide at a high-altitude background station in East Asia. <i>Atmospheric Environment</i> , <b>2019</b> , 210, 86-99	5.3	23
45	Origin, transport, and vertical distribution of atmospheric pollutants over the northern South China Sea during the 7-SEAS/Dongsha Experiment. <i>Atmospheric Environment</i> , <b>2013</b> , 78, 124-133	5.3	22
44	Profiling transboundary aerosols over Taiwan and assessing their radiative effects. <i>Journal of Geophysical Research</i> , <b>2010</b> , 115,		22
43	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> , <b>2017</b> , 17, 3006-3036	4.6	22
42	Can Asian dust trigger phytoplankton blooms in the oligotrophic northern South China Sea?. <i>Geophysical Research Letters</i> , <b>2012</b> , 39, n/a-n/a	4.9	19
41	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> , <b>2017</b> , 17, 253-261	4.6	19
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> , <b>2016</b> , 16, 2603-2617	4.6	18
39	Simulating the transport and chemical evolution of biomass burning pollutants originating from Southeast Asia during 7-SEAS/2010 Dongsha experiment. <i>Atmospheric Environment</i> , <b>2015</b> , 112, 294-305	5.3	16

38	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> , <b>2016</b> , 121, 10016-10028	4.4	16
37	Influence of Asian continental outflow on the regional background ozone level in northern South China Sea. <i>Atmospheric Environment</i> , <b>2013</b> , 78, 144-153	5.3	16
36	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> , <b>2017</b> , 150, 366-378	5.3	14
35	Characterizing a landmark biomass-burning event and its implication for aging processes during long-range transport. <i>Atmospheric Environment</i> , <b>2020</b> , 241, 117766	5.3	14
34	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> , <b>2016</b> , 16, 2897-2906	4.6	13
33	Atmospheric PCDD/F measurement in Taiwan and Southeast Asia during Dongsha Experiment. <i>Atmospheric Environment</i> , <b>2013</b> , 78, 195-202	5.3	12
32	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> , <b>2016</b> , 16, 2786-2801	4.6	11
31	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> , <b>2016</b> , 16, 2742-2756	4.6	10
30	Greenhouse gases stabilizing winter atmosphere in the Indo-Gangetic plains may increase aerosol loading. <i>Atmospheric Science Letters</i> , <b>2017</b> , 18, 168-174	2.4	9
29	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> , <b>2013</b> , 78, 163-173	5.3	9
28	A dual site study of the rainwater chemistry within the Western Pacific region. <i>Journal of Atmospheric Chemistry</i> , <b>2007</b> , 57, 85-103	3.2	9
27	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> , <b>2016</b> , 16, 2933-2949	4.6	9
26	Influence of Synoptic-Dynamic Meteorology on the Long-Range Transport of Indochina Biomass Burning Aerosols. <i>Journal of Geophysical Research D: Atmospheres</i> , <b>2020</b> , 125, e2019JD031260	4.4	8
25	Analysis of the Co-existence of Long-range Transport Biomass Burning and Dust in the Subtropical West Pacific Region. <i>Scientific Reports</i> , <b>2018</b> , 8, 8962	4.9	7
24	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> , <b>2010</b> , 115,		7
23	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> , <b>2021</b> , 21, 17185-17223	6.8	7
22	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> , <b>2016</b> , 16, 2831-2842	4.6	7
21	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> , <b>2016</b> , 16, 2706-2715	4.6	7

20	Investigation of long-range transported PM <sub>2.5</sub> events over Northern Taiwan during 2005-2015 winter seasons. <i>Atmospheric Environment</i> , <b>2019</b> , 217, 116920	5.3	6
19	Evaluation of the distributions of ambient PCDD/Fs at remote locations in and around Taiwan. <i>Atmospheric Environment</i> , <b>2013</b> , 78, 203-210	5.3	6
18	Differentiating between local and remote pollution over Taiwan. <i>Aerosol and Air Quality Research</i> , <b>2018</b> , 18, 1788-1798	4.6	5
17	Aerosol impacts on warm-cloud microphysics and drizzle in a moderately polluted environment. <i>Atmospheric Chemistry and Physics</i> , <b>2021</b> , 21, 4487-4502	6.8	5
16	Estimation of background PM <sub>2.5</sub> concentrations for an air-polluted environment. <i>Atmospheric Research</i> , <b>2020</b> , 231, 104636	5.4	5
15	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> , <b>2019</b> , 124, 9464-9483	4.4	4
14	Study on the impact of three Asian industrial regions on PM <sub>2.5</sub> in Taiwan and the process analysis during transport. <i>Atmospheric Chemistry and Physics</i> , <b>2020</b> , 20, 14947-14967	6.8	4
13	Assessment of biomass-burning types and transport over Thailand and the associated health risks. <i>Atmospheric Environment</i> , <b>2021</b> , 247, 118176	5.3	4
12	MPLNET lidar data assimilation in the ECMWF MACC-II Aerosol system: evaluation of model performances at NCU lidar station <b>2014</b> ,		3
11	Mixing weight determination for retrieving optical properties of polluted dust with MODIS and AERONET data. <i>Environmental Research Letters</i> , <b>2016</b> , 11, 085002	6.2	2
10	Impact of meteorology and air pollution on Covid-19 pandemic transmission in Lombardy region, Northern Italy		2
9	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> , <b>2016</b> , 16, 2728-2741	4.6	2
8	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> , <b>2021</b> , 21, 12521-12541	6.8	2
7	Boundary Layer Characteristics Over Complex Terrain in Central Taiwan: Observations and Numerical Modeling. <i>Journal of Geophysical Research D: Atmospheres</i> , <b>2022</b> , 127,	4.4	1
6	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
5	Analyzing the increasing importance of nitrate in Taiwan from long-term trend of measurements. <i>Atmospheric Environment</i> , <b>2021</b> , 267, 118749	5.3	0
4	Determination of Lidar Ratio for Major Aerosol Types over Western North Pacific Based on Long-Term MPLNET Data. <i>Remote Sensing</i> , <b>2020</b> , 12, 2769	5	0
3	Chemical characteristics and sources of organic aerosols across the Taiwan Strait. <i>Atmospheric Pollution Research</i> , <b>2022</b> , 13, 101312	4.5	

- 2 Distinguishing Between Remote and Local Air Pollution Over Taiwan: An Approach Based on Pollution Homogeneity Analysis. *Springer Proceedings in Complexity*, **2020**, 279-283 0.3
- 1 Impact of lidar data assimilation on planetary boundary layer wind and PM2.5 prediction in Taiwan. *Atmospheric Environment*, **2022**, 277, 119064 5.3