

Chang-fu Wu

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.

79 papers	3,762 citations	28 h-index	61 g-index
87 ext. papers	4,570 ext. citations	6.8 avg, IF	4.72 L-index

#	Paper	IF	Citations
79	Simulating nitrate formation mechanisms during PM _{2.5} events in Taiwan and their implications for the controlling direction. <i>Atmospheric Environment</i> , 2022 , 269, 118856	5.3	0
78	Development and evaluation of an integrated method using distance- and probability-based profile matching approaches in receptor modeling. <i>Atmospheric Pollution Research</i> , 2022 , 13, 101423	4.5	0
77	Identifying low-PM exposure commuting routes for cyclists through modeling with the random forest algorithm based on low-cost sensor measurements in three Asian cities. <i>Environmental Pollution</i> , 2021 , 294, 118597	9.3	2
76	Development of land-use regression models to estimate particle mass and number concentrations in Taichung, Taiwan. <i>Atmospheric Environment</i> , 2021 , 252, 118303	5.3	2
75	Exposures and health impact for bicycle and electric scooter commuters in Taipei. <i>Transportation Research, Part D: Transport and Environment</i> , 2021 , 91, 102696	6.4	2
74	Evaluation of Using Satellite-Derived Aerosol Optical Depth in Land Use Regression Models for Fine Particulate Matter and Its Elemental Composition. <i>Atmosphere</i> , 2021 , 12, 1018	2.7	1
73	Quantifying spatial heterogeneity of vulnerability to short-term PM exposure with data fusion framework. <i>Environmental Pollution</i> , 2021 , 285, 117266	9.3	0
72	Estimating monthly PM concentrations from satellite remote sensing data, meteorological variables, and land use data using ensemble statistical modeling and a random forest approach. <i>Environmental Pollution</i> , 2021 , 291, 118159	9.3	5
71	Trajectory-Assisted Source Apportionment of Winter-Time Aerosol Using Semi-continuous Measurements. <i>Archives of Environmental Contamination and Toxicology</i> , 2020 , 78, 430-438	3.2	1
70	Neuropathology changed by 3- and 6-months low-level PM inhalation exposure in spontaneously hypertensive rats. <i>Particle and Fibre Toxicology</i> , 2020 , 17, 59	8.4	7
69	Vertical distribution of source apportioned PM using particulate-bound elements and polycyclic aromatic hydrocarbons in an urban area. <i>Journal of Exposure Science and Environmental Epidemiology</i> , 2020 , 30, 659-669	6.7	2
68	Incorporating satellite-derived data with annual and monthly land use regression models for estimating spatial distribution of air pollution. <i>Environmental Modelling and Software</i> , 2019 , 114, 181-187	5.2	6
67	Application of land-use regression models to estimate sound pressure levels and frequency components of road traffic noise in Taichung, Taiwan. <i>Environment International</i> , 2019 , 131, 104959	12.9	11
66	Application of factor and cluster analyses to determine source-receptor relationships of industrial volatile organic odor species in a dual-optical sensing system. <i>Atmospheric Measurement Techniques</i> , 2019 , 12, 5347-5362	4	1
65	Seasonal variation of chemical characteristics of fine particulate matter at a high-elevation subtropical forest in East Asia. <i>Environmental Pollution</i> , 2019 , 246, 668-677	9.3	9
64	Health effects of a forest environment on natural killer cells in humans: an observational pilot study. <i>Oncotarget</i> , 2018 , 9, 16501-16511	3.3	23
63	Outpatient Visits for Allergic Diseases are Associated with Exposure to Ambient Fungal Spores in the Greater Taipei Area. <i>Aerosol and Air Quality Research</i> , 2018 , 18, 2077-2085	4.6	4

62	Temperature-related mortality impacts under and beyond Paris Agreement climate change scenarios. <i>Climatic Change</i> , 2018 , 150, 391-402	4.5	67
61	Investigation of source locations and contributions using an integrated trajectory-source apportionment method with multiple time resolution data. <i>International Journal of Environmental Science and Technology</i> , 2017 , 14, 1781-1786	3.3	1
60	Source apportionment of PM 2.5 size distribution and composition data from multiple stationary sites using a mobile platform. <i>Atmospheric Research</i> , 2017 , 190, 21-28	5.4	6
59	Source apportionment of urban air pollutants using constrained receptor models with a priori profile information. <i>Environmental Pollution</i> , 2017 , 227, 323-333	9.3	19
58	Longer-Term Impact of High and Low Temperature on Mortality: An International Study to Clarify Length of Mortality Displacement. <i>Environmental Health Perspectives</i> , 2017 , 125, 107009	8.4	35
57	Heat Wave and Mortality: A Multicountry, Multicommunity Study. <i>Environmental Health Perspectives</i> , 2017 , 125, 087006	8.4	191
56	Regulation of fine particulate matter (PM _{2.5}) in the Pacific Rim: perspectives from the APRU Global Health Program. <i>Air Quality, Atmosphere and Health</i> , 2017 , 10, 1039-1049	5.6	12
55	Projections of temperature-related excess mortality under climate change scenarios. <i>Lancet Planetary Health, The</i> , 2017 , 1, e360-e367	9.8	272
54	Association of short-term exposure to fine particulate matter and nitrogen dioxide with acute cardiovascular effects. <i>Science of the Total Environment</i> , 2016 , 569-570, 300-305	10.2	44
53	Large-scale search method for locating and identifying fugitive emission sources in petrochemical processing areas. <i>Chemical Engineering Research and Design</i> , 2016 , 104, 382-394	5.5	4
52	Age of asthma onset and vulnerability to ambient air pollution: an observational population-based study of adults from Southern Taiwan. <i>BMC Pulmonary Medicine</i> , 2016 , 16, 54	3.5	4
51	Source apportionment of mass concentration and inhalation risk with long-term ambient PCDD/Fs measurements in an urban area. <i>Journal of Hazardous Materials</i> , 2016 , 317, 180-187	12.8	11
50	Association of urban particle numbers and sources with lung function among children with asthma or allergies. <i>Science of the Total Environment</i> , 2016 , 542, 841-4	10.2	17
49	Ambient air pollution and risk of tuberculosis: a cohort study. <i>Occupational and Environmental Medicine</i> , 2016 , 73, 56-61	2.1	59
48	Temperature Variability and Mortality: A Multi-Country Study. <i>Environmental Health Perspectives</i> , 2016 , 124, 1554-1559	8.4	133
47	Source and risk apportionment of selected VOCs and PM _{2.5} species using partially constrained receptor models with multiple time resolution data. <i>Environmental Pollution</i> , 2015 , 205, 121-30	9.3	57
46	Short-term exposure to fine and coarse particles and mortality: A multicity time-series study in East Asia. <i>Environmental Pollution</i> , 2015 , 207, 43-51	9.3	82
45	Associations between Long-Term Air Pollutant Exposures and Blood Pressure in Elderly Residents of Taipei City: A Cross-Sectional Study. <i>Environmental Health Perspectives</i> , 2015 , 123, 779-84	8.4	55

44	Mortality risk attributable to high and low ambient temperature: a multicountry observational study. <i>Lancet, The</i> , 2015 , 386, 369-75	4.0	1099
43	Land use regression modeling with vertical distribution measurements for fine particulate matter and elements in an urban area. <i>Atmospheric Environment</i> , 2015 , 104, 256-263	5.3	36
42	Different Severity and Severity Predictors in Early-Onset and Late-Onset Asthma: A Taiwanese Population-Based Study. <i>Respiration</i> , 2015 , 90, 384-92	3.7	17
41	A land use regression model for estimating the NO ₂ concentration in Shanghai, China. <i>Environmental Research</i> , 2015 , 137, 308-15	7.9	92
40	LUR models for particulate matters in the Taipei metropolis with high densities of roads and strong activities of industry, commerce and construction. <i>Science of the Total Environment</i> , 2015 , 514, 178-84	10.2	39
39	Characterizing and locating air pollution sources in a complex industrial district using optical remote sensing technology and multivariate statistical modeling. <i>Environmental Science and Pollution Research</i> , 2014 , 21, 10852-66	5.1	10
38	Land use regression models for estimating individual NO _x and NO ₂ exposures in a metropolis with a high density of traffic roads and population. <i>Science of the Total Environment</i> , 2014 , 472, 1163-71	10.2	82
37	Measurement of fugitive volatile organic compound emissions from a petrochemical tank farm using open-path Fourier transform infrared spectrometry. <i>Atmospheric Environment</i> , 2014 , 82, 335-342	5.3	22
36	Modeling horizontal and vertical variation in intraurban exposure to PM _{2.5} concentrations and compositions. <i>Environmental Research</i> , 2014 , 133, 96-102	7.9	28
35	The health effects of a forest environment on subclinical cardiovascular disease and health-related quality of life. <i>PLoS ONE</i> , 2014 , 9, e103231	3.7	21
34	Asthma incidence, remission, relapse and persistence: a population-based study in southern Taiwan. <i>Respiratory Research</i> , 2014 , 15, 135	7.3	15
33	Global variation in the effects of ambient temperature on mortality: a systematic evaluation. <i>Epidemiology</i> , 2014 , 25, 781-9	3.1	340
32	Source apportionment of particulate matter and selected volatile organic compounds with multiple time resolution data. <i>Science of the Total Environment</i> , 2014 , 472, 880-7	10.2	41
31	High ambient Cladosporium spores were associated with reduced lung function in schoolchildren in a longitudinal study. <i>Science of the Total Environment</i> , 2014 , 481, 370-6	10.2	25
30	Evaluation of a Modified Receptor Model for Solving Multiple Time Resolution Equations: A Simulation Study. <i>Aerosol and Air Quality Research</i> , 2013 , 13, 1253-1262	4.6	15
29	Spatiotemporal modeling with temporal-invariant variogram subgroups to estimate fine particulate matter PM _{2.5} concentrations. <i>Atmospheric Environment</i> , 2012 , 54, 1-8	5.3	22
28	Investigating the association of cardiovascular effects with personal exposure to particle components and sources. <i>Science of the Total Environment</i> , 2012 , 431, 176-82	10.2	23
27	Locating pollutant emission sources with optical remote sensing measurements and an improved one-dimensional radial plume mapping technique. <i>Journal of Environmental Monitoring</i> , 2012 , 14, 1203-10		2

26	Evaluating the performance of the horizontal radial plume mapping technique for locating multiple plumes. <i>Journal of the Air and Waste Management Association</i> , 2012 , 62, 1249-56	2.4	4
25	Spatial-temporal and cancer risk assessment of selected hazardous air pollutants in Seattle. <i>Environment International</i> , 2011 , 37, 11-7	12.9	23
24	Efficacy of using multiple open-path Fourier transform infrared (OP-FTIR) spectrometers in an odor emission episode investigation at a semiconductor manufacturing plant. <i>Science of the Total Environment</i> , 2011 , 409, 3158-65	10.2	8
23	Comparisons of radial plume mapping algorithms for locating gaseous emission sources. <i>Atmospheric Environment</i> , 2011 , 45, 1476-1482	5.3	5
22	Greenhouse gas emission reductions from domestic anaerobic digesters linked with sustainable sanitation in rural China. <i>Environmental Science & Technology</i> , 2011 , 45, 2345-52	10.3	39
21	Effects of personal exposure to particulate matter and ozone on arterial stiffness and heart rate variability in healthy adults. <i>American Journal of Epidemiology</i> , 2010 , 171, 1299-309	3.8	55
20	Cancer risk assessment of selected hazardous air pollutants in Seattle. <i>Environment International</i> , 2009 , 35, 516-22	12.9	54
19	Laboratory simulation study on quantifying tape-stripping samples of multifunctional acrylates with Fourier transform infrared spectroscopy. <i>Applied Spectroscopy</i> , 2008 , 62, 1280-4	3.1	
18	Developing and Evaluating Techniques for Localizing Pollutant Emission Sources with Open-Path Fourier Transform Infrared Measurements and Wind Data. <i>Journal of the Air and Waste Management Association</i> , 2008 , 58, 1360-1369	2.4	4
17	Developing and evaluating techniques for localizing pollutant emission sources with open-path Fourier transform infrared measurements and wind data. <i>Journal of the Air and Waste Management Association</i> , 2008 , 58, 1360-9	2.4	1
16	Applying open-path Fourier transform infrared spectroscopy for measuring aerosols. <i>Journal of Environmental Science and Health - Part A Toxic/Hazardous Substances and Environmental Engineering</i> , 2007 , 42, 1131-40	2.3	5
15	Analysis of polycyclic aromatic hydrocarbons by liquid chromatography/tandem mass spectrometry using atmospheric pressure chemical ionization or electrospray ionization with tropylium post-column derivatization. <i>Rapid Communications in Mass Spectrometry</i> , 2007 , 21, 3694-700	2.2	29
14	Source apportionment of PM(2.5) and selected hazardous air pollutants in Seattle. <i>Science of the Total Environment</i> , 2007 , 386, 42-52	10.2	70
13	Rapid method for determining dermal exposures to pesticides by use of tape stripping and FTIR spectroscopy: a pilot study. <i>Journal of Occupational and Environmental Hygiene</i> , 2007 , 4, 952-8	2.9	5
12	Agricultural burning smoke in eastern Washington Part I: Atmospheric characterization. <i>Atmospheric Environment</i> , 2006 , 40, 639-650	5.3	47
11	Applying open-path FTIR with computed tomography to evaluate personal exposures. Part 1: simulation studies. <i>Annals of Occupational Hygiene</i> , 2005 , 49, 61-71		1
10	Applying open-path FTIR with computed tomography to evaluate personal exposures. Part 2: experimental studies. <i>Annals of Occupational Hygiene</i> , 2005 , 49, 73-83		4
9	Evaluation and quality control of personal nephelometers in indoor, outdoor and personal environments. <i>Journal of Exposure Science and Environmental Epidemiology</i> , 2005 , 15, 99-110	6.7	29

8	Exposure assessment and modeling of particulate matter for asthmatic children using personal nephelometers. <i>Atmospheric Environment</i> , 2005 , 39, 3457-3469	5.3	37
7	Association of FEV1 in asthmatic children with personal and microenvironmental exposure to airborne particulate matter. <i>Environmental Health Perspectives</i> , 2004 , 112, 932-41	8.4	176
6	Applying open-path FTIR with a bi-beam strategy to evaluate personal exposure in indoor environments: experimental results of a validation study. <i>AIHA Journal: A Journal for the Science of Occupational and Environmental Health and Safety</i> , 2003 , 64, 181-8		2
5	Path concentration profile reconstruction of optical remote sensing measurements using polynomial curve fitting procedures. <i>Atmospheric Environment</i> , 2003 , 37, 1879-1888	5.3	8
4	Line profile reconstruction: validation and comparison of reconstruction methods. <i>Atmospheric Environment</i> , 2001 , 35, 4791-4799	5.3	10
3	Computed tomography of air pollutants using radial scanning path-integrated optical remote sensing. <i>Atmospheric Environment</i> , 1999 , 33, 267-274	5.3	42
2	Experimental evaluation of a radial beam geometry for mapping air pollutants using optical remote sensing and computed tomography. <i>Atmospheric Environment</i> , 1999 , 33, 4709-4716	5.3	23
1	Ambient gaseous leak detection using radial scanning computed tomography and optical remote sensing 1999 ,		6