Shih-Chun Candice Lung

List of Publications by Year
in descending order

134 papers	4,863 citations	94415 37 h-index	114455 63 g-index
137 all docs	137 docs citations	137 times ranked	6176 citing authors

#	Article	IF	Citations
1	"What We Breathe Impacts Our Health: Improving Understanding of the Link between Air Pollution and Health". Environmental Science & Technology, 2016, 50, 4895-4904.	10.0	294
2	Sources, solubility, and dry deposition of aerosol trace elements over the East China Sea. Marine Chemistry, 2010, 120, 116-127.	2.3	240
3	Higher temperature and urbanization affect the spatial patterns of dengue fever transmission in subtropical Taiwan. Science of the Total Environment, 2009, 407, 2224-2233.	8.0	218
4	Weather as an effective predictor for occurrence of dengue fever in Taiwan. Acta Tropica, 2007, 103, 50-57.	2.0	206
5	Size-Resolved Anhydrosugar Composition in Smoke Aerosol from Controlled Field Burning of Rice Straw. Aerosol Science and Technology, 2009, 43, 662-672.	3.1	179
6	Linking Student Performance in Massachusetts Elementary Schools with the "Greenness" of School Surroundings Using Remote Sensing. PLoS ONE, 2014, 9, e108548.	2.5	141
7	An Open Framework for Participatory PM2.5 Monitoring in Smart Cities. IEEE Access, 2017, 5, 14441-14454.	4.2	138
8	Chemical speciation, transport and contribution of biomass burning smoke to ambient aerosol in Guangzhou, a mega city of China. Atmospheric Environment, 2010, 44, 3187-3195.	4.1	119
9	Increased levels of ambient fungal spores in Taiwan are associated with dust events from China. Atmospheric Environment, 2004, 38, 4879-4886.	4.1	108
10	Effects of Extreme Precipitation to the Distribution of Infectious Diseases in Taiwan, 1994–2008. PLoS ONE, 2012, 7, e34651.	2.5	108
11	Land-use regression with long-term satellite-based greenness index and culture-specific sources to model PM2.5 spatial-temporal variability. Environmental Pollution, 2017, 224, 148-157.	7.5	91
12	A hybrid kriging/land-use regression model to assess PM2.5 spatial-temporal variability. Science of the Total Environment, 2018, 645, 1456-1464.	8.0	85
13	Indoor air pollution from gas cooking in five Taiwanese families. Building and Environment, 2015, 93, 258-266.	6.9	80
14	Using a land use regression model with machine learning to estimate ground level PM2.5. Environmental Pollution, 2021, 277, 116846.	7.5	69
15	Generation rates and emission factors of particulate matter and particle-bound polycyclic aromatic hydrocarbons of incense sticks. Chemosphere, 2003, 50, 673-679.	8.2	65
16	Variations of Cd/Pb and Zn/Pb ratios in Taipei aerosols reflecting long-range transport or local pollution emissions. Science of the Total Environment, 2005, 347, 111-121.	8.0	64
17	High wintertime particulate matter pollution over an offshore island (Kinmen) off southeastern China: An overview. Journal of Geophysical Research, 2010, 115, .	3.3	64
18	A criterion for identifying Asian dust events based on Al concentration data collected from northern Taiwan between 2002 and early 2007. Journal of Geophysical Research, 2008, 113, .	3.3	62

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19	Seasonal variation and spatial distribution of carbonaceous aerosols in Taiwan. Atmospheric Chemistry and Physics, 2010, 10, 9563-9578.	4.9	62
20	Fast analysis of 29 polycyclic aromatic hydrocarbons (PAHs) and nitro-PAHs with ultra-high performance liquid chromatography-atmospheric pressure photoionization-tandem mass spectrometry. Scientific Reports, 2015, 5, 12992.	3.3	62
21	Exposure to cooking oil fumes and oxidative damages: a longitudinal study in Chinese military cooks. Journal of Exposure Science and Environmental Epidemiology, 2013, 23, 94-100.	3.9	61
22	Contribution of incense burning to indoor PM10 and particle-bound polycyclic aromatic hydrocarbons under two ventilation conditions. Indoor Air, 2003, 13, 194-199.	4.3	58
23	Soot-driven reactive oxygen species formation from incense burning. Science of the Total Environment, 2011, 409, 4781-4787.	8.0	58
24	Can green structure reduce the mortality of cardiovascular diseases?. Science of the Total Environment, 2016, 566-567, 1159-1167.	8.0	58
25	Polycyclic aromatic hydrocarbons are associated with increased risk of chronic obstructive pulmonary disease during haze events in China. Science of the Total Environment, 2017, 574, 1649-1658.	8.0	57
26	How is environmental greenness related to students' academic performance in English and Mathematics?. Landscape and Urban Planning, 2019, 181, 118-124.	7.5	57
27	Long‑range southeastward transport of Asian biosmoke pollution: Signature detected by aerosol potassium in Northern Taiwan. Journal of Geophysical Research, 2009, 114, .	3.3	55
28	Biogenic isoprene in subtropical urban settings and implications for air quality. Atmospheric Environment, 2013, 79, 369-379.	4.1	53
29	Relationship between mean daily ambient temperature range and hospital admissions for schizophrenia: Results from a national cohort of psychiatric inpatients. Science of the Total Environment, 2011, 410-411, 41-46.	8.0	51
30	Particle size characteristics of levoglucosan in ambient aerosols from rice straw burning. Atmospheric Environment, 2008, 42, 8300-8308.	4.1	50
31	Development of a 3-D urbanization index using digital terrain models for surface urban heat island effects. ISPRS Journal of Photogrammetry and Remote Sensing, 2013, 81, 1-11.	11.1	50
32	Chemical Mass Closure and Chemical Characteristics of Ambient Ultrafine Particles and other PM Fractions. Aerosol Science and Technology, 2010, 44, 713-723.	3.1	49
33	Relationship between heat index and mortality of 6 major cities in Taiwan. Science of the Total Environment, 2013, 442, 275-281.	8.0	46
34	A hybrid kriging/land-use regression model with Asian culture-specific sources to assess NO2 spatial-temporal variations. Environmental Pollution, 2020, 259, 113875.	7.5	46
35	Assessment of vehicular and non-vehicular contributions to hydrocarbons using exclusive vehicular indicators. Atmospheric Environment, 2006, 40, 6349-6361.	4.1	43
36	Consecutive evaluation of graphene oxide and reduced graphene oxide nanoplatelets immunotoxicity on monocytes. Colloids and Surfaces B: Biointerfaces, 2017, 153, 300-309.	5.0	39

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37	New approach to identifying proper thresholds for a heat warning system using health risk increments. Environmental Research, 2019, 170, 282-292.	7.5	39
38	Effects of acidic processing, transport history, and dust and sea salt loadings on the dissolution of iron from Asian dust. Journal of Geophysical Research, 2010, 115, .	3.3	37
39	Cardiovascular mortality during heat and cold events: determinants of regional vulnerability in Taiwan. Occupational and Environmental Medicine, 2011, 68, 525-530.	2.8	37
40	Investigation into the oxidative potential generated by the formation of particulate matter from incense combustion. Journal of Hazardous Materials, 2013, 244-245, 142-150.	12.4	37
41	Worshippers' Exposure to Particulate Matter in Two Temples in Taiwan. Journal of the Air and Waste Management Association, 2003, 53, 130-135.	1.9	36
42	Mediation pathways and effects of green structures on respiratory mortality via reducing air pollution. Scientific Reports, 2017, 7, 42854.	3.3	36
43	Seasonal characteristics of biogenic and anthropogenic isoprene in tropical–subtropical urban environments. Atmospheric Environment, 2014, 99, 298-308.	4.1	34
44	Variability of intra-urban exposure to particulate matter and CO from Asian-type community pollution sources. Atmospheric Environment, 2014, 83, 6-13.	4.1	34
45	Residents' particle exposures in six different communities in Taiwan. Science of the Total Environment, 2007, 377, 81-92.	8.0	33
46	Exposure assessment of PM2.5 and urinary 8-OHdG for diesel exhaust emission inspector. Science of the Total Environment, 2010, 408, 505-510.	8.0	33
47	Impact of different transport mechanisms of Asian dust and anthropogenic pollutants to Taiwan. Atmospheric Environment, 2012, 60, 403-418.	4.1	33
48	Industrial PM2.5 cause pulmonary adverse effect through RhoA/ROCK pathway. Science of the Total Environment, 2017, 599-600, 1658-1666.	8.0	33
49	A versatile low-cost sensing device for assessing PM2.5 spatiotemporal variation and quantifying source contribution. Science of the Total Environment, 2020, 716, 137145.	8.0	33
50	Potential exposure and risk of fluoride intakes from tea drinks produced in Taiwan. Journal of Exposure Science and Environmental Epidemiology, 2008, 18, 158-166.	3.9	31
51	Polybrominated Diphenyl Ethers in Foodstuffs from Taiwan: Level and Human Dietary Exposure Assessment. Science of the Total Environment, 2012, 431, 183-187.	8.0	29
52	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. Terrestrial, Atmospheric and Oceanic Sciences, 2004, 15, 881.	0.6	29
53	Spatiotemporal Distributions and Land-Use Regression Models of Ambient Bacteria and Endotoxins in the Greater Taipei Area. Aerosol and Air Quality Research, 2015, 15, 1448-1459.	2.1	29
54	Source characterization of ozone precursors by complementary approaches of vehicular indicator and principal component analysis. Atmospheric Environment, 2009, 43, 1771-1778.	4.1	28

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55	Characteristics of sorption losses of polychlorinated biphenyl congeners onto glass surfaces. Chemosphere, 2000, 41, 1857-1864.	8.2	27
56	Fluoride concentrations in three types of commercially packed tea drinks in Taiwan. Journal of Exposure Science and Environmental Epidemiology, 2003, 13, 66-73.	3.9	27
57	Increase of urinary concentrations of 8-hydroxy-2â€²-deoxyguanosine in diesel exhaust emission inspector exposed to polycyclic aromatic hydrocarbons. International Archives of Occupational and Environmental Health, 2012, 85, 273-282.	2.3	27
58	Spatial Clustering of Dengue Fever Incidence and Its Association with Surrounding Greenness. International Journal of Environmental Research and Public Health, 2018, 15, 1869.	2.6	27
59	The spatiotemporal distributions and determinants of ambient fungal spores in the Greater Taipei area. Environmental Pollution, 2015, 204, 173-180.	7.5	25
60	Workplace air quality and lung function among dental laboratory technicians. American Journal of Industrial Medicine, 2006, 49, 85-92.	2.1	24
61	Asian Culturally Specific Predictors in a Large-Scale Land Use Regression Model to Predict Spatial-Temporal Variability of Ozone Concentration. International Journal of Environmental Research and Public Health, 2019, 16, 1300.	2.6	24
62	Exposure of Taiwan Residents to Polychlorinated Biphenyl Congeners from Farmed, Ocean-Caught, and Imported Fish. Environmental Science & Technology, 2003, 37, 4579-4585.	10.0	22
63	Identifying critical green structure characteristics for reducing the suicide rate. Urban Forestry and Urban Greening, 2018, 34, 147-153.	5.3	22
64	Global greenness in relation to reducing the burden of cardiovascular diseases: ischemic heart disease and stroke. Environmental Research Letters, 2020, 15, 124003.	5.2	21
65	Exposure to ambient bioaerosols is associated with allergic skin diseases in Greater Taipei residents. Environmental Pollution, 2016, 216, 845-850.	7.5	20
66	Auramine O, an incense smoke ingredient, promotes lung cancer malignancy. Environmental Toxicology, 2017, 32, 2379-2391.	4.0	20
67	Applying GIS and fine-resolution digital terrain models to assess three-dimensional population distribution under traffic impacts. Journal of Exposure Science and Environmental Epidemiology, 2012, 22, 126-134.	3.9	19
68	Investigation on daily exposure to PM2.5 in Bandung city, Indonesia using low-cost sensor. Journal of Exposure Science and Environmental Epidemiology, 2020, 30, 1001-1012.	3.9	19
69	Climate variability of heat wave and projection of warming scenario in Taiwan. Climatic Change, 2017, 145, 305-320.	3.6	18
70	Application of Machine Learning for the in-Field Correction of a PM2.5 Low-Cost Sensor Network. Sensors, 2020, 20, 5002.	3.8	18
71	Association between Surrounding Greenness and Mortality: An Ecological Study in Taiwan. International Journal of Environmental Research and Public Health, 2020, 17, 4525.	2.6	18
72	Spatialâ€"temporal variability and health impact of particulate matter during a 2019â€"2020 biomass burning event in Southeast Asia. Scientific Reports, 2022, 12, 7630.	3.3	18

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73	Carbon black aggregates cause endothelial dysfunction by activating ROCK. Journal of Hazardous Materials, 2017, 338, 66-75.	12.4	17
74	Developing Land-Use Regression Models to Estimate PM2.5-Bound Compound Concentrations. Remote Sensing, 2018, 10, 1971.	4.0	17
75	A community-based study on associations between PM2.5 and PM1 exposure and heart rate variability using wearable low-cost sensing devices. Environmental Pollution, 2021, 277, 116761.	7.5	17
76	Impacts of In-Cabin Exposure to Size-Fractionated Particulate Matters and Carbon Monoxide on Changes in Heart Rate Variability for Healthy Public Transit Commuters. Atmosphere, 2019, 10, 409.	2.3	16
77	Assessment of the pulmonary toxic potential of nano-tobacco stem-pyrolyzed biochars. Environmental Science: Nano, 2019, 6, 1527-1535.	4.3	16
78	Concurrent assessment of personal, indoor, and outdoor $PM_{2.5}$ and PM_1 levels and source contributions using novel low-cost sensing devices. Indoor Air, 2021, 31, 755-768.	4.3	16
79	Characterization of the vehicle emissions in the Greater Taipei Area through vision-based traffic analysis system and its impacts on urban air quality. Science of the Total Environment, 2021, 782, 146571.	8.0	16
80	Customers' exposure to PM2.5 and polycyclic aromatic hydrocarbons in smoking/nonsmoking sections of 24-h coffee shops in Taiwan. Journal of Exposure Science and Environmental Epidemiology, 2004, 14, 529-535.	3.9	15
81	Laboratory Evaluations of Correction Equations with Multiple Choices for Seed Low-Cost Particle Sensing Devices in Sensor Networks. Sensors, 2020, 20, 3661.	3.8	15
82	Multiple impacts and pathways of urban form and environmental factors on cardiovascular mortality. Science of the Total Environment, 2020, 738, 139512.	8.0	15
83	Serum concentrations and profiles of polychlorinated biphenyls in Taiwan Yu-cheng victims twenty years after the incident. Environmental Pollution, 2005, 136, 71-79.	7.5	14
84	Climate variability of cold surge and its impact on the air quality of Taiwan. Climatic Change, 2009, 94, 457-471.	3.6	14
85	Association Between Surrounding Greenness and Schizophrenia: A Taiwanese Cohort Study. International Journal of Environmental Research and Public Health, 2019, 16, 1415.	2.6	14
86	Effects of Personal Exposures to Micro- and Nano-Particulate Matter, Black Carbon, Particle-Bound Polycyclic Aromatic Hydrocarbons, and Carbon Monoxide on Heart Rate Variability in a Panel of Healthy Older Subjects. International Journal of Environmental Research and Public Health, 2019, 16, 4672.	2.6	14
87	Inequality of Asian-type neighborhood environmental quality in communities with different urbanization levels. Environmental Science and Policy, 2014, 38, 1-10.	4.9	13
88	Environmental concentration of spray paint particulate matters causes pulmonary dysfunction in human normal bronchial epithelial BEAS-2B cell. Chemical Engineering Research and Design, 2019, 126, 250-258.	5.6	13
89	PM2.5 exposure of various microenvironments in a community: Characteristics and applications. Environmental Pollution, 2020, 263, 114522.	7.5	13
90	Coating effects on the glass adsorption of polychlorinated biphenyl (PCB) congeners. Chemosphere, 2000, 41, 1865-1871.	8.2	12

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91	Combining novel strategy with kinetic approach in the determination of respective respiration and skin exposure to N,N-dimethylformamide vapor. Science of the Total Environment, 2007, 388, 398-404.	8.0	12
92	High-Sensitivity Analysis of Six Synthetic Musks by Ultra-Performance Liquid Chromatography–Atmospheric Pressure Photoionization–Tandem Mass Spectrometry. Analytical Chemistry, 2011, 83, 4955-4961.	6.5	12
93	Effects of the manual and electronic toll collection systems on the particulate pollutant levels on highways in Taiwan. Atmospheric Pollution Research, 2021, 12, 25-32.	3.8	12
94	Research Priorities of Applying Low-Cost PM2.5 Sensors in Southeast Asian Countries. International Journal of Environmental Research and Public Health, 2022, 19, 1522.	2.6	12
95	A Comparison of Elementary Schoolchildren's Exposure to Arsenic and Lead. Journal of Environmental Science and Health, Part C: Environmental Carcinogenesis and Ecotoxicology Reviews, 2008, 26, 237-255.	2.9	11
96	Panel study using novel sensing devices to assess associations of PM2.5 with heart rate variability and exposure sources. Journal of Exposure Science and Environmental Epidemiology, 2020, 30, 937-948.	3.9	11
97	Risk Assessment for People Exposed to PM2.5 and Constituents at Different Vertical Heights in an Urban Area of Taiwan. Atmosphere, 2020, 11, 1145.	2.3	11
98	Effects of surrounding environment on incidence of end stage renal disease. Science of the Total Environment, 2020, 723, 137915.	8.0	11
99	Participants' exposure to PM2.5 and gaseous/particulate polycyclic aromatic hydrocarbons during the Ma-tsu Goddess parade. Journal of Exposure Science and Environmental Epidemiology, 2004, 14, 536-543.	3.9	10
100	Pollen of Broussonetia papyrifera: An emerging aeroallergen associated with allergic illness in Taiwan. Science of the Total Environment, 2019, 657, 804-810.	8.0	10
101	Effects of low-frequency noise from wind turbines on heart rate variability in healthy individuals. Scientific Reports, 2021, 11, 17817.	3.3	10
102	Water-soluble Ions of Aerosols in Taipei in Spring 2002. Terrestrial, Atmospheric and Oceanic Sciences, 2004, 15, 901.	0.6	10
103	ROCK inhibitor Y-27632 attenuated early endothelial dysfunction caused by occupational environmental concentrations of carbon black nanoparticles. Environmental Science: Nano, 2017, 4, 1525-1533.	4.3	9
104	Investigation of Microenvironmental Exposures to Particle-Bound Polycyclic Aromatic Hydrocarbons for Elementary School Children. International Journal of Environmental Research and Public Health, 2019, 16, 4390.	2.6	9
105	Micro-scale particle simulation and traffic-related particle exposure assessment in an Asian residential community. Environmental Pollution, 2020, 266, 115046.	7.5	9
106	Kriging-Based Land-Use Regression Models That Use Machine Learning Algorithms to Estimate the Monthly BTEX Concentration. International Journal of Environmental Research and Public Health, 2020, 17, 6956.	2.6	9
107	Comparison of Spatial Modelling Approaches on PM10 and NO2 Concentration Variations: A Case Study in Surabaya City, Indonesia. International Journal of Environmental Research and Public Health, 2020, 17, 8883.	2.6	9
108	Evaluation and Application of a Novel Low-Cost Wearable Sensing Device in Assessing Real-Time PM2.5 Exposure in Major Asian Transportation Modes. Atmosphere, 2021, 12, 270.	2.3	9

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109	Effects of air pollution, land-use type, and maternal mental health on child development in the first two years of life in the Greater Taipei area. Environmental Research, 2021, 197, 111168.	7.5	9
110	Exploring multiple pathways and mediation effects of urban environmental factors for suicide prevention. Environmental Pollution, 2022, 294, 118642.	7.5	9
111	Sources and formation pathways of organic aerosol in a subtropical metropolis during summer. Atmospheric Environment, 2015, 117, 51-60.	4.1	8
112	Fusion of Environmental Sensing on PM2.5 and Deep Learning on Vehicle Detecting for Acquiring Roadside PM2.5 Concentration Increments. Sensors, 2020, 20, 4679.	3.8	8
113	Identifying crucial urban form characteristics for reducing pneumonia mortality. Landscape and Urban Planning, 2021, 215, 104216.	7.5	8
114	Outpatient Visits for Allergic Diseases are Associated with Exposure to Ambient Fungal Spores in the Greater Taipei Area. Aerosol and Air Quality Research, 2018, 18, 2077-2085.	2.1	8
115	Application of 3-D Urbanization Index to Assess Impact of Urbanization on Air Temperature. Scientific Reports, 2016, 6, 24351.	3.3	7
116	Source apportionment of PM2.5 concentrations with a Bayesian hierarchical model on latent source profiles. Atmospheric Pollution Research, 2020, 11, 1715-1727.	3.8	7
117	New land use regression model to estimate atmospheric temperature and heat island intensity in Taiwan. Theoretical and Applied Climatology, 2020, 141, 1451-1459.	2.8	6
118	Children's exposures to boron and biocides from slime products in Asian regions. Journal of Exposure Science and Environmental Epidemiology, 2022, 32, 103-111.	3.9	6
119	Is green space exposure beneficial in a developing country?. Landscape and Urban Planning, 2021, 215, 104226.	7.5	6
120	Perceived heat impacts and adaptive behaviours in different socio-demographic groups in the subtropics. International Journal of Disaster Risk Reduction, 2022, 71, 102799.	3.9	6
121	Pulmonary toxicity of actual alveolar deposition concentrations of ultrafine particulate matters in human normal bronchial epithelial cell. Environmental Science and Pollution Research, 2021, 28, 50179-50187.	5.3	5
122	Demonstrating the Applicability of Smartwatches in PM2.5 Health Impact Assessment. Sensors, 2021, 21, 4585.	3.8	5
123	Northern Hemisphere Urban Heat Stress and Associated Labor Hour Hazard from ERA5 Reanalysis. International Journal of Environmental Research and Public Health, 2022, 19, 8163.	2.6	4
124	Exposures and Potential Risks in the Neighborhoods of 5 Different Restaurants Emitting Particulate Polycyclic Aromatic Hydrocarbons. Epidemiology, 2011, 22, S90.	2.7	3
125	Assessment of low-frequency noise from wind turbines under different weather conditions. Journal of Environmental Health Science & Engineering, 2020, 18, 505-514.	3.0	3
126	Selecting Thresholds of Heat-Warning Systems with Substantial Enhancement of Essential Population Health Outcomes for Facilitating Implementation. International Journal of Environmental Research and Public Health, 2021, 18, 9506.	2.6	3

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127	Frequent occurrence of respiratory symptoms in children is associated with exposure to air pollution, land use types, and parental mental health in the Greater Taipei area. Environmental Research, 2022, 206, 112567.	7.5	3
128	An alternative approach for estimating large-area indoor PM2.5 concentration â€" A case study of schools. Building and Environment, 2022, 219, 109249.	6.9	3
129	Exploring the Potential Relationship Between Global Greenness and DALY Loss Due to Depressive Disorders. Frontiers in Psychiatry, 0, 13, .	2.6	3
130	TEMPERATURE CAN BE AN EFFECTIVE PREDICTOR FOR DENGUE FEVER OUTBREAK. Epidemiology, 2005, 16, S72.	2.7	2
131	Determinants Characterizing Adaptive Capability for Island-Wide Cardiovascular Mortality at Extreme Temperatures in Taiwan. Epidemiology, 2009, 20, S89-S90.	2.7	1
132	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
133	Personal Exposures to Particle-bound Polycyclic Aromatic Hydrocarbons for the Elderly and Elementary School Children. Epidemiology, 2011, 22, S198.	2.7	0
134	CommutersÊ¼ Exposure to Particulates and Polycyclic Aromatic Hydrocarbons in Taipei, Taiwan. Epidemiology, 2006, 17, S54.	2.7	0