

Shih-Chun Candice Lung

List of Publications by Citations

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126
papers

3,548
citations

32
h-index

55
g-index

137
ext. papers

4,171
ext. citations

6.2
avg, IF

5.49
L-index

#	Paper	IF	Citations
126	"What We Breathe Impacts Our Health: Improving Understanding of the Link between Air Pollution and Health". <i>Environmental Science & Technology</i> , 2016 , 50, 4895-904	10.3	229
125	Sources, solubility, and dry deposition of aerosol trace elements over the East China Sea. <i>Marine Chemistry</i> , 2010 , 120, 116-127	3.7	186
124	Higher temperature and urbanization affect the spatial patterns of dengue fever transmission in subtropical Taiwan. <i>Science of the Total Environment</i> , 2009 , 407, 2224-33	10.2	176
123	Weather as an effective predictor for occurrence of dengue fever in Taiwan. <i>Acta Tropica</i> , 2007 , 103, 50-7	3.2	166
122	Size-Resolved Anhydrosugar Composition in Smoke Aerosol from Controlled Field Burning of Rice Straw. <i>Aerosol Science and Technology</i> , 2009 , 43, 662-672	3.4	148
121	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	5.3	103
120	Linking student performance in Massachusetts elementary schools with the "greenness" of school surroundings using remote sensing. <i>PLoS ONE</i> , 2014 , 9, e108548	3.7	100
119	An Open Framework for Participatory PM _{2.5} Monitoring in Smart Cities. <i>IEEE Access</i> , 2017 , 5, 14441-14454	5.4	97
118	Increased levels of ambient fungal spores in Taiwan are associated with dust events from China. <i>Atmospheric Environment</i> , 2004 , 38, 4879-4886	5.3	93
117	Effects of extreme precipitation to the distribution of infectious diseases in Taiwan, 1994-2008. <i>PLoS ONE</i> , 2012 , 7, e34651	3.7	88
116	Land-use regression with long-term satellite-based greenness index and culture-specific sources to model PM spatial-temporal variability. <i>Environmental Pollution</i> , 2017 , 224, 148-157	9.3	67
115	Soot-driven reactive oxygen species formation from incense burning. <i>Science of the Total Environment</i> , 2011 , 409, 4781-7	10.2	54
114	A hybrid kriging/land-use regression model to assess PM spatial-temporal variability. <i>Science of the Total Environment</i> , 2018 , 645, 1456-1464	10.2	53
113	Generation rates and emission factors of particulate matter and particle-bound polycyclic aromatic hydrocarbons of incense sticks. <i>Chemosphere</i> , 2003 , 50, 673-9	8.4	53
112	Variations of Cd/Pb and Zn/Pb ratios in Taipei aerosols reflecting long-range transport or local pollution emissions. <i>Science of the Total Environment</i> , 2005 , 347, 111-21	10.2	53
111	High wintertime particulate matter pollution over an offshore island (Kinmen) off southeastern China: An overview. <i>Journal of Geophysical Research</i> , 2010 , 115,		52
110	Indoor air pollution from gas cooking in five Taiwanese families. <i>Building and Environment</i> , 2015 , 93, 258-266	6.6	51

109	Seasonal variation and spatial distribution of carbonaceous aerosols in Taiwan. <i>Atmospheric Chemistry and Physics</i> , 2010 , 10, 9563-9578	6.8	51
108	Fast analysis of 29 polycyclic aromatic hydrocarbons (PAHs) and nitro-PAHs with ultra-high performance liquid chromatography-atmospheric pressure photoionization-tandem mass spectrometry. <i>Scientific Reports</i> , 2015 , 5, 12992	4.9	50
107	A criterion for identifying Asian dust events based on Al concentration data collected from northern Taiwan between 2002 and early 2007. <i>Journal of Geophysical Research</i> , 2008 , 113,		50
106	Contribution of incense burning to indoor PM10 and particle-bound polycyclic aromatic hydrocarbons under two ventilation conditions. <i>Indoor Air</i> , 2003 , 13, 194-9	5.4	49
105	Exposure to cooking oil fumes and oxidative damages: a longitudinal study in Chinese military cooks. <i>Journal of Exposure Science and Environmental Epidemiology</i> , 2013 , 23, 94-100	6.7	47
104	Long-range southeastward transport of Asian biosmoke pollution: Signature detected by aerosol potassium in Northern Taiwan. <i>Journal of Geophysical Research</i> , 2009 , 114,		46
103	Particle size characteristics of levoglucosan in ambient aerosols from rice straw burning. <i>Atmospheric Environment</i> , 2008 , 42, 8300-8308	5.3	46
102	Chemical Mass Closure and Chemical Characteristics of Ambient Ultrafine Particles and other PM Fractions. <i>Aerosol Science and Technology</i> , 2010 , 44, 713-723	3.4	43
101	Polycyclic aromatic hydrocarbons are associated with increased risk of chronic obstructive pulmonary disease during haze events in China. <i>Science of the Total Environment</i> , 2017 , 574, 1649-1658	10.2	40
100	Biogenic isoprene in subtropical urban settings and implications for air quality. <i>Atmospheric Environment</i> , 2013 , 79, 369-379	5.3	39
99	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, 41-6	10.2	38
98	Development of a 3-D urbanization index using digital terrain models for surface urban heat island effects. <i>ISPRS Journal of Photogrammetry and Remote Sensing</i> , 2013 , 81, 1-11	11.8	37
97	Can green structure reduce the mortality of cardiovascular diseases?. <i>Science of the Total Environment</i> , 2016 , 566-567, 1159-1167	10.2	36
96	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,		34
95	How is environmental greenness related to students' academic performance in English and Mathematics?. <i>Landscape and Urban Planning</i> , 2019 , 181, 118-124	7.7	33
94	Relationship between heat index and mortality of 6 major cities in Taiwan. <i>Science of the Total Environment</i> , 2013 , 442, 275-81	10.2	32
93	Variability of intra-urban exposure to particulate matter and CO from Asian-type community pollution sources. <i>Atmospheric Environment</i> , 2014 , 83, 6-13	5.3	31
92	Cardiovascular mortality during heat and cold events: determinants of regional vulnerability in Taiwan. <i>Occupational and Environmental Medicine</i> , 2011 , 68, 525-30	2.1	31

91	Exposure assessment of PM _{2.5} and urinary 8-OHdG for diesel exhaust emission inspector. <i>Science of the Total Environment</i> , 2010 , 408, 505-10	10.2	31
90	Assessment of vehicular and non-vehicular contributions to hydrocarbons using exclusive vehicular indicators. <i>Atmospheric Environment</i> , 2006 , 40, 6349-6361	5.3	31
89	Investigation into the oxidative potential generated by the formation of particulate matter from incense combustion. <i>Journal of Hazardous Materials</i> , 2013 , 244-245, 142-50	12.8	30
88	A hybrid kriging/land-use regression model with Asian culture-specific sources to assess NO spatial-temporal variations. <i>Environmental Pollution</i> , 2020 , 259, 113875	9.3	30
87	Consecutive evaluation of graphene oxide and reduced graphene oxide nanoplatelets immunotoxicity on monocytes. <i>Colloids and Surfaces B: Biointerfaces</i> , 2017 , 153, 300-309	6	28
86	Seasonal characteristics of biogenic and anthropogenic isoprene in tropical/subtropical urban environments. <i>Atmospheric Environment</i> , 2014 , 99, 298-308	5.3	28
85	Residents' particulate exposures in six different communities in Taiwan. <i>Science of the Total Environment</i> , 2007 , 377, 81-92	10.2	28
84	Worshippers' exposure to particulate matter in two temples in Taiwan. <i>Journal of the Air and Waste Management Association</i> , 2003 , 53, 130-5	2.4	28
83	Increase of urinary concentrations of 8-hydroxy-2-deoxyguanosine in diesel exhaust emission inspector exposed to polycyclic aromatic hydrocarbons. <i>International Archives of Occupational and Environmental Health</i> , 2012 , 85, 273-82	3.2	27
82	Polybrominated diphenyl ethers in foodstuffs from Taiwan: level and human dietary exposure assessment. <i>Science of the Total Environment</i> , 2012 , 431, 183-7	10.2	26
81	Industrial PM cause pulmonary adverse effect through RhoA/ROCK pathway. <i>Science of the Total Environment</i> , 2017 , 599-600, 1658-1666	10.2	25
80	Impact of different transport mechanisms of Asian dust and anthropogenic pollutants to Taiwan. <i>Atmospheric Environment</i> , 2012 , 60, 403-418	5.3	24
79	Source characterization of ozone precursors by complementary approaches of vehicular indicator and principal component analysis. <i>Atmospheric Environment</i> , 2009 , 43, 1771-1778	5.3	24
78	Potential exposure and risk of fluoride intakes from tea drinks produced in Taiwan. <i>Journal of Exposure Science and Environmental Epidemiology</i> , 2008 , 18, 158-66	6.7	24
77	Characteristics of sorption losses of polychlorinated biphenyl congeners onto glass surfaces. <i>Chemosphere</i> , 2000 , 41, 1857-64	8.4	24
76	Spatiotemporal Distributions and Land-Use Regression Models of Ambient Bacteria and Endotoxins in the Greater Taipei Area. <i>Aerosol and Air Quality Research</i> , 2015 , 15, 1448-1459	4.6	23
75	New approach to identifying proper thresholds for a heat warning system using health risk increments. <i>Environmental Research</i> , 2019 , 170, 282-292	7.9	22
74	The spatiotemporal distributions and determinants of ambient fungal spores in the Greater Taipei area. <i>Environmental Pollution</i> , 2015 , 204, 173-80	9.3	21

73	Fluoride concentrations in three types of commercially packed tea drinks in Taiwan. <i>Journal of Exposure Science and Environmental Epidemiology</i> , 2003 , 13, 66-73	6.7	21
72	Exposure of Taiwan residents to polychlorinated biphenyl congeners from farmed, ocean-caught, and imported fish. <i>Environmental Science & Technology</i> , 2003 , 37, 4579-85	10.3	21
71	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	1.8	21
70	Mediation pathways and effects of green structures on respiratory mortality via reducing air pollution. <i>Scientific Reports</i> , 2017 , 7, 42854	4.9	20
69	A versatile low-cost sensing device for assessing PM spatiotemporal variation and quantifying source contribution. <i>Science of the Total Environment</i> , 2020 , 716, 137145	10.2	18
68	Workplace air quality and lung function among dental laboratory technicians. <i>American Journal of Industrial Medicine</i> , 2006 , 49, 85-92	2.7	18
67	Asian Culturally Specific Predictors in a Large-Scale Land Use Regression Model to Predict Spatial-Temporal Variability of Ozone Concentration. <i>International Journal of Environmental Research and Public Health</i> , 2019 , 16,	4.6	16
66	Applying GIS and fine-resolution digital terrain models to assess three-dimensional population distribution under traffic impacts. <i>Journal of Exposure Science and Environmental Epidemiology</i> , 2012 , 22, 126-34	6.7	16
65	Spatial Clustering of Dengue Fever Incidence and Its Association with Surrounding Greenness. <i>International Journal of Environmental Research and Public Health</i> , 2018 , 15,	4.6	16
64	Climate variability of heat wave and projection of warming scenario in Taiwan. <i>Climatic Change</i> , 2017 , 145, 305-320	4.5	15
63	Using a land use regression model with machine learning to estimate ground level PM. <i>Environmental Pollution</i> , 2021 , 277, 116846	9.3	15
62	Exposure to ambient bioaerosols is associated with allergic skin diseases in Greater Taipei residents. <i>Environmental Pollution</i> , 2016 , 216, 845-850	9.3	14
61	CustomersSexposure to PM2.5 and polycyclic aromatic hydrocarbons in smoking/nonsmoking sections of 24-h coffee shops in Taiwan. <i>Journal of Exposure Science and Environmental Epidemiology</i> , 2004 , 14, 529-35	6.7	14
60	Serum concentrations and profiles of polychlorinated biphenyls in Taiwan Yu-cheng victims twenty years after the incident. <i>Environmental Pollution</i> , 2005 , 136, 71-9	9.3	13
59	Auramine O, an incense smoke ingredient, promotes lung cancer malignancy. <i>Environmental Toxicology</i> , 2017 , 32, 2379-2391	4.2	12
58	High-sensitivity analysis of six synthetic musks by ultra-performance liquid chromatography-atmospheric pressure photoionization-tandem mass spectrometry. <i>Analytical Chemistry</i> , 2011 , 83, 4955-61	7.8	12
57	A comparison of elementary schoolchildren's exposure to arsenic and lead. <i>Journal of Environmental Science and Health, Part C: Environmental Carcinogenesis and Ecotoxicology Reviews</i> , 2008 , 26, 237-55	4.5	11
56	Coating effects on the glass adsorption of polychlorinated biphenyl (PCB) congeners. <i>Chemosphere</i> , 2000 , 41, 1865-71	8.4	11

55	Laboratory Evaluations of Correction Equations with Multiple Choices for Seed Low-Cost Particle Sensing Devices in Sensor Networks. <i>Sensors</i> , 2020 , 20,	3.8	11
54	Carbon black aggregates cause endothelial dysfunction by activating ROCK. <i>Journal of Hazardous Materials</i> , 2017 , 338, 66-75	12.8	10
53	Identifying critical green structure characteristics for reducing the suicide rate. <i>Urban Forestry and Urban Greening</i> , 2018 , 34, 147-153	5.4	10
52	Impacts of In-Cabin Exposure to Size-Fractionated Particulate Matters and Carbon Monoxide on Changes in Heart Rate Variability for Healthy Public Transit Commuters. <i>Atmosphere</i> , 2019 , 10, 409	2.7	10
51	Combining novel strategy with kinetic approach in the determination of respective respiration and skin exposure to N,N-dimethylformamide vapor. <i>Science of the Total Environment</i> , 2007 , 388, 398-404	10.2	10
50	Assessment of the pulmonary toxic potential of nano-tobacco stem-pyrolyzed biochars. <i>Environmental Science: Nano</i> , 2019 , 6, 1527-1535	7.1	9
49	Inequality of Asian-type neighborhood environmental quality in communities with different urbanization levels. <i>Environmental Science and Policy</i> , 2014 , 38, 1-10	6.2	9
48	Global greenness in relation to reducing the burden of cardiovascular diseases: ischemic heart disease and stroke. <i>Environmental Research Letters</i> , 2020 , 15, 124003	6.2	9
47	Application of Machine Learning for the in-Field Correction of a PM Low-Cost Sensor Network. <i>Sensors</i> , 2020 , 20,	3.8	9
46	Association Between Surrounding Greenness and Schizophrenia: A Taiwanese Cohort Study. <i>International Journal of Environmental Research and Public Health</i> , 2019 , 16,	4.6	8
45	Multiple impacts and pathways of urban form and environmental factors on cardiovascular mortality. <i>Science of the Total Environment</i> , 2020 , 738, 139512	10.2	8
44	Climate variability of cold surge and its impact on the air quality of Taiwan. <i>Climatic Change</i> , 2009 , 94, 457-471	4.5	8
43	ParticipantsSexposure to PM2.5 and gaseous/particulate polycyclic aromatic hydrocarbons during the Ma-tsu Goddess parade. <i>Journal of Exposure Science and Environmental Epidemiology</i> , 2004 , 14, 536-43	6.7	8
42	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. <i>International Journal of Environmental Research and Public Health</i> , 2019 , 16,	4.6	8
41	Developing Land-Use Regression Models to Estimate PM2.5-Bound Compound Concentrations. <i>Remote Sensing</i> , 2018 , 10, 1971	5	8
40	ROCK inhibitor Y-27632 attenuated early endothelial dysfunction caused by occupational environmental concentrations of carbon black nanoparticles. <i>Environmental Science: Nano</i> , 2017 , 4, 1525-1533	7.1	7
39	Sources and formation pathways of organic aerosol in a subtropical metropolis during summer. <i>Atmospheric Environment</i> , 2015 , 117, 51-60	5.3	7
38	Water-soluble Ions of Aerosols in Taipei in Spring 2002. <i>Terrestrial, Atmospheric and Oceanic Sciences</i> , 2004 , 15, 901	1.8	7

37	Panel study using novel sensing devices to assess associations of PM with heart rate variability and exposure sources. <i>Journal of Exposure Science and Environmental Epidemiology</i> , 2020 , 30, 937-948	6.7	7
36	Investigation on daily exposure to PM in Bandung city, Indonesia using low-cost sensor. <i>Journal of Exposure Science and Environmental Epidemiology</i> , 2020 , 30, 1001-1012	6.7	7
35	A community-based study on associations between PM and PM exposure and heart rate variability using wearable low-cost sensing devices. <i>Environmental Pollution</i> , 2021 , 277, 116761	9.3	7
34	Concurrent assessment of personal, indoor, and outdoor PM and PM levels and source contributions using novel low-cost sensing devices. <i>Indoor Air</i> , 2021 , 31, 755-768	5.4	7
33	Environmental concentration of spray paint particulate matters causes pulmonary dysfunction in human normal bronchial epithelial BEAS-2B cell. <i>Chemical Engineering Research and Design</i> , 2019 , 126, 250-258	5.5	6
32	Risk Assessment for People Exposed to PM2.5 and Constituents at Different Vertical Heights in an Urban Area of Taiwan. <i>Atmosphere</i> , 2020 , 11, 1145	2.7	6
31	Effects of surrounding environment on incidence of end stage renal disease. <i>Science of the Total Environment</i> , 2020 , 723, 137915	10.2	6
30	Micro-scale particle simulation and traffic-related particle exposure assessment in an Asian residential community. <i>Environmental Pollution</i> , 2020 , 266, 115046	9.3	6
29	Investigation of Microenvironmental Exposures to Particle-Bound Polycyclic Aromatic Hydrocarbons for Elementary School Children. <i>International Journal of Environmental Research and Public Health</i> , 2019 , 16,	4.6	6
28	Association between Surrounding Greenness and Mortality: An Ecological Study in Taiwan. <i>International Journal of Environmental Research and Public Health</i> , 2020 , 17,	4.6	5
27	Kriging-Based Land-Use Regression Models That Use Machine Learning Algorithms to Estimate the Monthly BTEX Concentration. <i>International Journal of Environmental Research and Public Health</i> , 2020 , 17,	4.6	5
26	Pollen of <i>Broussonetia papyrifera</i> : An emerging aeroallergen associated with allergic illness in Taiwan. <i>Science of the Total Environment</i> , 2019 , 657, 804-810	10.2	5
25	PM exposure of various microenvironments in a community: Characteristics and applications. <i>Environmental Pollution</i> , 2020 , 263, 114522	9.3	5
24	Research Priorities of Applying Low-Cost PM Sensors in Southeast Asian Countries.. <i>International Journal of Environmental Research and Public Health</i> , 2022 , 19,	4.6	4
23	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
22	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. <i>Environmental Research</i> , 2021 , 197, 111168	7.9	4
21	Application of 3-D Urbanization Index to Assess Impact of Urbanization on Air Temperature. <i>Scientific Reports</i> , 2016 , 6, 24351	4.9	3
20	Exposures and Potential Risks in the Neighborhoods of 5 Different Restaurants Emitting Particulate Polycyclic Aromatic Hydrocarbons. <i>Epidemiology</i> , 2011 , 22, S90	3.1	3

19	Source apportionment of PM _{2.5} concentrations with a Bayesian hierarchical model on latent source profiles. <i>Atmospheric Pollution Research</i> , 2020 , 11, 1715-1727	4.5	3
18	Fusion of Environmental Sensing on PM and Deep Learning on Vehicle Detecting for Acquiring Roadside PM Concentration Increments. <i>Sensors</i> , 2020 , 20,	3.8	3
17	Evaluation and Application of a Novel Low-Cost Wearable Sensing Device in Assessing Real-Time PM _{2.5} Exposure in Major Asian Transportation Modes. <i>Atmosphere</i> , 2021 , 12, 270	2.7	3
16	Children's exposures to boron and biocides from slime products in Asian regions. <i>Journal of Exposure Science and Environmental Epidemiology</i> , 2021 ,	6.7	3
15	Characterization of the vehicle emissions in the Greater Taipei Area through vision-based traffic analysis system and its impacts on urban air quality. <i>Science of the Total Environment</i> , 2021 , 782, 146571	10.2	3
14	Is green space exposure beneficial in a developing country?. <i>Landscape and Urban Planning</i> , 2021 , 215, 104226	7.7	3
13	New land use regression model to estimate atmospheric temperature and heat island intensity in Taiwan. <i>Theoretical and Applied Climatology</i> , 2020 , 141, 1451-1459	3	2
12	Assessment of low-frequency noise from wind turbines under different weather conditions. <i>Journal of Environmental Health Science & Engineering</i> , 2020 , 18, 505-514	2.9	2
11	TEMPERATURE CAN BE AN EFFECTIVE PREDICTOR FOR DENGUE FEVER OUTBREAK. <i>Epidemiology</i> , 2005 , 16, S72	3.1	2
10	Demonstrating the Applicability of Smartwatches in PM Health Impact Assessment. <i>Sensors</i> , 2021 , 21,	3.8	2
9	Effects of low-frequency noise from wind turbines on heart rate variability in healthy individuals. <i>Scientific Reports</i> , 2021 , 11, 17817	4.9	2
8	Identifying crucial urban form characteristics for reducing pneumonia mortality. <i>Landscape and Urban Planning</i> , 2021 , 215, 104216	7.7	2
7	Perceived heat impacts and adaptive behaviours in different socio-demographic groups in the subtropics. <i>International Journal of Disaster Risk Reduction</i> , 2022 , 71, 102799	4.5	1
6	Exploring multiple pathways and mediation effects of urban environmental factors for suicide prevention. <i>Environmental Pollution</i> , 2021 , 294, 118642	9.3	1
5	Pulmonary toxicity of actual alveolar deposition concentrations of ultrafine particulate matters in human normal bronchial epithelial cell. <i>Environmental Science and Pollution Research</i> , 2021 , 28, 50179-50187	5.1	1
4	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.. <i>Environmental Research</i> , 2021 , 206, 112567	7.9	0
3	Effects of the manual and electronic toll collection systems on the particulate pollutant levels on highways in Taiwan. <i>Atmospheric Pollution Research</i> , 2021 , 12, 25-32	4.5	0
2	Spatial-temporal variability and health impact of particulate matter during a 2019-2020 biomass burning event in Southeast Asia.. <i>Scientific Reports</i> , 2022 , 12, 7630	4.9	0

- 1 An alternative approach for estimating large-area indoor PM2.5 concentration [A case study of schools. *Building and Environment*, **2022**, 219, 109249 6.5