Kai-Jen Chuang

List of Publications by Year in Descending Order

89 papers	2,316 citations	24 h-index	45 g-index
98 ext. papers	2,736 ext. citations	6.5 avg, IF	4.96 L-index

#	Paper	IF	Citations
89	Association of long-term indoor exposure to fine particles with pulmonary effects in Northern Taiwan.. *Science of the Total Environment*, **2022**, 821, 153097	10.2	0
88	Zinc Oxide Nanoparticles Promote YAP/TAZ Nuclear Localization in Alveolar Epithelial Type II Cells. *Atmosphere*, **2022**, 13, 334	2.7	
87	Air pollution associated with cognitive decline by the mediating effects of sleep cycle disruption and changes in brain structure in adults.. *Environmental Science and Pollution Research*, **2022**, 1	5.1	0
86	The impacts of ambient relative humidity and temperature on supine position-related obstructive sleep apnea in adults.. *Environmental Science and Pollution Research*, **2022**, 1	5.1	1
85	Acute effects of ambient non-methane hydrocarbons on cardiorespiratory hospitalizations: A multicity time-series study in Taiwan.. *Ecotoxicology and Environmental Safety*, **2022**, 234, 113370	7	0
84	Long-Term Exposure to Essential Oils and Cardiopulmonary Health from a Population-Based Study. *Atmosphere*, **2022**, 13, 631	2.7	0
83	Air pollution-regulated E-cadherin mediates contact inhibition of proliferation via the hippo signaling pathways in emphysema. *Chemico-Biological Interactions*, **2021**, 351, 109763	5	0
82	Colorimetric detection of polycyclic aromatic hydrocarbons by using gold nanoparticles.. *Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy*, **2021**, 268, 120701	4.4	1
81	Particulate matter in a motorcycle-dominated urban area: Source apportionment and cancer risk of lung deposited surface area (LDSA) concentrations.. *Journal of Hazardous Materials*, **2021**, 427, 128188	12.8	3
80	Association between Migraine and the Risk of Stroke: A Bayesian Meta-Analysis. *Sustainability*, **2021** , 13, 3759	3.6	1
79	Development of land-use regression models to estimate particle mass and number concentrations in Taichung, Taiwan. *Atmospheric Environment*, **2021**, 252, 118303	5.3	2
78	Chronic exposure to metal fume PM on inflammation and stress hormone cortisol in shipyard workers: A repeat measurement study. *Ecotoxicology and Environmental Safety*, **2021**, 215, 112144	7	2
77	Association of cardiorespiratory hospital admissions with ambient volatile organic compounds: Evidence from a time-series study in Taipei, Taiwan. *Chemosphere*, **2021**, 276, 130172	8.4	3
76	Association of ambient ozone with pneumonia hospital admissions in Hong Kong and Taipei: A tale of two Southeast Asian cities. *Environment International*, **2021**, 156, 106634	12.9	9
75	Preparing and Applying Silver Nanoparticles in Conductive Ink and Inkjet Painting. *Journal of Nanoscience and Nanotechnology*, **2021**, 21, 5979-5986	1.3	0
74	Medical mask versus cotton mask for preventing respiratory droplet transmission in micro environments. *Science of the Total Environment*, **2020**, 735, 139510	10.2	41
73	Association of ambient non-methane hydrocarbons exposure with respiratory hospitalizations: A time series study in Taipei, Taiwan. *Science of the Total Environment*, **2020**, 729, 139010	10.2	2

72	In-vehicle carbon dioxide and adverse effects: An air filtration-based intervention study. *Science of the Total Environment*, **2020**, 723, 138047	10.2	8
71	Houseplant, indoor air pollution, and cardiovascular effects among elderly subjects in Taipei, Taiwan. *Science of the Total Environment*, **2020**, 705, 135770	10.2	12
70	Traffic-related PM2.5 exposure and its cardiovascular effects among healthy commuters in Taipei, Taiwan. *Atmospheric Environment: X*, **2020**, 7, 100084	2.8	1
69	Alteration in angiotensin-converting enzyme 2 by PM during the development of emphysema in rats. *ERJ Open Research*, **2020**, 6,	3.5	7
68	Chronic obstructive pulmonary disease patients have a higher risk of occurrence of pneumonia by air pollution. *Science of the Total Environment*, **2019**, 677, 524-529	10.2	16
67	Alterations by Air Pollution in Inflammation and Metals in Pleural Effusion of Pneumonia Patients. *International Journal of Environmental Research and Public Health*, **2019**, 16,	4.6	6
66	Association between exposures to air pollution and biomarkers of cardiovascular disease in Northern Taiwan. *Atmospheric Pollution Research*, **2019**, 10, 1250-1259	4.5	8
65	Microglial activation and inflammation caused by traffic-related particulate matter. *Chemico-Biological Interactions*, **2019**, 311, 108762	5	27
64	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	2.7	10
63	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,	4.6	8
62	Indoor ozone levels, houseplants and peak expiratory flow rates among healthy adults in Taipei, Taiwan. *Environment International*, **2019**, 122, 231-236	12.9	8
61	Contributions of local pollution emissions to particle bioreactivity in downwind cities in China during Asian dust periods. *Environmental Pollution*, **2019**, 245, 675-683	9.3	17
60	Association of ultrafine particles with cardiopulmonary health among adult subjects in the urban areas of northern Taiwan. *Science of the Total Environment*, **2018**, 627, 211-215	10.2	23
59	Investigation into the pulmonary inflammopathology of exposure to nickel oxide nanoparticles in mice. *Nanomedicine: Nanotechnology, Biology, and Medicine*, **2018**, 14, 2329-2339	6	18
58	Effects of physical characteristics of carbon black on metabolic regulation in mice. *Environmental Pollution*, **2018**, 232, 494-504	9.3	9
57	Pulmonary exposure to metal fume particulate matter cause sleep disturbances in shipyard welders. *Environmental Pollution*, **2018**, 232, 523-532	9.3	24
56	Exposure assessment of particulate and gaseous pollutants emitted during surgery in operating rooms of different specialties. *Air Quality, Atmosphere and Health*, **2018**, 11, 937-947	5.6	4
55	Association of PM with sleep-disordered breathing from a population-based study in Northern Taiwan urban areas. *Environmental Pollution*, **2018**, 233, 109-113	9.3	43

54	Chronic pulmonary exposure to traffic-related fine particulate matter causes brain impairment in adult rats. *Particle and Fibre Toxicology*, **2018**, 15, 44	8.4	21
53	Investigation of the Antioxidant Capacity, Insecticidal Ability and Oxidation Stability of Seed Extract. *International Journal of Molecular Sciences*, **2018**, 19,	6.3	5
52	Road Traffic Noise, Air Pollutants, and the Prevalence of Cardiovascular Disease in Taichung, Taiwan. *International Journal of Environmental Research and Public Health*, **2018**, 15,	4.6	8
51	Effects of diesel exhaust particles on the expression of tau and autophagy proteins in human neuroblastoma cells. *Environmental Toxicology and Pharmacology*, **2018**, 62, 54-59	5.8	9
50	Pulmonary pathobiology induced by zinc oxide nanoparticles in mice: A 24-hour and 28-day follow-up study. *Toxicology and Applied Pharmacology*, **2017**, 327, 13-22	4.6	13
49	Long-term indoor air conditioner filtration and cardiovascular health: A randomized crossover intervention study. *Environment International*, **2017**, 106, 91-96	12.9	77
48	Alterations in cardiovascular function by particulate matter in rats using a crossover design. *Environmental Pollution*, **2017**, 231, 812-820	9.3	5
47	Human lung adenocarcinoma cells with an EGFR mutation are sensitive to non-autophagic cell death induced by zinc oxide and aluminium-doped zinc oxide nanoparticles. *Journal of Toxicological Sciences*, **2017**, 42, 437-444	1.9	9
46	Effects of polycyclic aromatic compounds in fine particulate matter generated from household coal combustion on response to EGFR mutations in vitro. *Environmental Pollution*, **2016**, 218, 1262-1269	9.3	26
45	Association of short-term exposure to fine particulate matter and nitrogen dioxide with acute cardiovascular effects. *Science of the Total Environment*, **2016**, 569-570, 300-305	10.2	44
44	Protein oxidation and degradation caused by particulate matter. *Scientific Reports*, **2016**, 6, 33727	4.9	28
43	Physicochemistry and cardiovascular toxicity of metal fume PM2.5: a study of human coronary artery endothelial cells and welding workers. *Scientific Reports*, **2016**, 6, 33515	4.9	25
42	Chemical composition and bioreactivity of PM2.5 during 2013 haze events in China. *Atmospheric Environment*, **2016**, 126, 162-170	5.3	53
41	The association of annual air pollution exposure with blood pressure among patients with sleep-disordered breathing. *Science of the Total Environment*, **2016**, 543, 61-66	10.2	23
40	Associations of autophagy with lung diffusion capacity and oxygen saturation in severe COPD: effects of particulate air pollution. *International Journal of COPD*, **2016**, 11, 1569-78	3	8
39	Particulate matter is associated with sputum culture conversion in patients with culture-positive tuberculosis. *Therapeutics and Clinical Risk Management*, **2016**, 12, 41-6	2.9	14
38	Effect of welding fume on heart rate variability among workers with respirators in a shipyard. *Scientific Reports*, **2016**, 6, 34158	4.9	3
37	Characterization of chemical components and bioreactivity of fine particulate matter (PM2.5) during incense burning. *Environmental Pollution*, **2016**, 213, 524-532	9.3	38

36	Effects of zinc oxide nanoparticles on human coronary artery endothelial cells. *Food and Chemical Toxicology*, **2016**, 93, 138-44	4.7	22
35	Short-term exposure to noise, fine particulate matter and nitrogen oxides on ambulatory blood pressure: A repeated-measure study. *Environmental Research*, **2015**, 140, 634-40	7.9	32
34	Effects of non-protein-type amino acids of fine particulate matter on E-cadherin and inflammatory responses in mice. *Toxicology Letters*, **2015**, 237, 174-80	4.4	14
33	Inhibition of the WNT/Ecatenin pathway by fine particulate matter in haze: Roles of metals and polycyclic aromatic hydrocarbons. *Atmospheric Environment*, **2015**, 109, 118-129	5.3	11
32	Personal exposure to particulate matter and inflammation among patients with periodontal disease. *Science of the Total Environment*, **2015**, 502, 585-9	10.2	19
31	Characterization of pulmonary protein profiles in response to zinc oxide nanoparticles in mice: a 24-hour and 28-day follow-up study. *International Journal of Nanomedicine*, **2015**, 10, 4705-16	7.3	4
30	Cigarette smoke is a risk factor for severity and treatment outcome in patients with culture-positive tuberculosis. *Therapeutics and Clinical Risk Management*, **2015**, 11, 1539-44	2.9	12
29	Inter-alpha-trypsin inhibitor heavy chain 4: a novel biomarker for environmental exposure to particulate air pollution in patients with chronic obstructive pulmonary disease. *International Journal of COPD*, **2015**, 10, 831-41	3	10
28	Dysfunction of methionine sulfoxide reductases to repair damaged proteins by nickel nanoparticles. *Chemico-Biological Interactions*, **2015**, 236, 82-9	5	8
27	Effects of commuting mode on air pollution exposure and cardiovascular health among young adults in Taipei, Taiwan. *International Journal of Hygiene and Environmental Health*, **2015**, 218, 319-23	6.9	45
26	Urinary neutrophil gelatinase-associated lipocalin is associated with heavy metal exposure in welding workers. *Scientific Reports*, **2015**, 5, 18048	4.9	15
25	Physicochemical and biological characterization of single-walled and double-walled carbon nanotubes in biological media. *Journal of Hazardous Materials*, **2014**, 280, 216-25	12.8	13
24	Characterization of the interactions between protein and carbon black. *Journal of Hazardous Materials*, **2014**, 264, 127-35	12.8	17
23	Methionine oxidation in albumin by fine haze particulate matter: an in vitro and in vivo study. *Journal of Hazardous Materials*, **2014**, 274, 384-91	12.8	24
22	The health effects of a forest environment on subclinical cardiovascular disease and heath-related quality of life. *PLoS ONE*, **2014**, 9, e103231	3.7	21
21	Effects of size and surface of zinc oxide and aluminum-doped zinc oxide nanoparticles on cell viability inferred by proteomic analyses. *International Journal of Nanomedicine*, **2014**, 9, 3631-43	7.3	22
20	The effect of essential oil on heart rate and blood pressure among solus por aqua workers. *European Journal of Preventive Cardiology*, **2014**, 21, 823-8	3.9	3
19	Personal exposure to household particulate matter, household activities and heart rate variability among housewives. *PLoS ONE*, **2014**, 9, e89969	3.7	23

18	Serum protein oxidation by diesel exhaust particles: effects on oxidative stress and inflammatory response in vitro. *Chemico-Biological Interactions*, **2013**, 206, 385-93	5	17
17	Reducing indoor air pollution by air conditioning is associated with improvements in cardiovascular health among the general population. *Science of the Total Environment*, **2013**, 463-464, 176-81	10.2	35
16	In-car particles and cardiovascular health: an air conditioning-based intervention study. *Science of the Total Environment*, **2013**, 452-453, 309-13	10.2	20
15	Nickel-regulated heart rate variability: the roles of oxidative stress and inflammation. *Toxicology and Applied Pharmacology*, **2013**, 266, 298-306	4.6	25
14	Size and composition effects of household particles on inflammation and endothelial dysfunction of human coronary artery endothelial cells. *Atmospheric Environment*, **2013**, 77, 490-495	5.3	14
13	Electroencephalographic Study of Essential Oils for Stress Relief. *Applied Mechanics and Materials*, **2013**, 437, 1085-1088	0.3	2
12	Comparative proteomics of inhaled silver nanoparticles in healthy and allergen provoked mice. *International Journal of Nanomedicine*, **2013**, 8, 2783-99	7.3	27
11	Indoor air pollution, nighttime heart rate variability and coffee consumption among convenient store workers. *PLoS ONE*, **2013**, 8, e63320	3.7	4
10	Effects of temple particles on inflammation and endothelial cell response. *Science of the Total Environment*, **2012**, 414, 68-72	10.2	11
9	The effects of indoor particle exposure on blood pressure and heart rate among young adults: An air filtration-based intervention study. *Atmospheric Environment*, **2011**, 45, 5540-5544	5.3	31
8	Long-term air pollution exposure and risk factors for cardiovascular diseases among the elderly in Taiwan. *Occupational and Environmental Medicine*, **2011**, 68, 64-8	2.1	195
7	Effect of air pollution on blood pressure, blood lipids, and blood sugar: a population-based approach. *Journal of Occupational and Environmental Medicine*, **2010**, 52, 258-62	2	119
6	Traffic-related air pollution and cardiovascular mortality in central Taiwan. *Science of the Total Environment*, **2010**, 408, 1818-23	10.2	59
5	The effect of urban air pollution on inflammation, oxidative stress, coagulation, and autonomic dysfunction in young adults. *American Journal of Respiratory and Critical Care Medicine*, **2007**, 176, 370-6	10.2	472
4	Associations between particulate sulfate and organic carbon exposures and heart rate variability in patients with or at risk for cardiovascular diseases. *Journal of Occupational and Environmental Medicine*, **2007**, 49, 610-7	2	46
3	Associations between submicrometer particles exposures and blood pressure and heart rate in patients with lung function impairments. *Journal of Occupational and Environmental Medicine*, **2005**, 47, 1093-8	2	31
2	Effects of particle size fractions on reducing heart rate variability in cardiac and hypertensive patients. *Environmental Health Perspectives*, **2005**, 113, 1693-7	8.4	80
1	Personal exposure to submicrometer particles and heart rate variability in human subjects. *Environmental Health Perspectives*, **2004**, 112, 1063-7	8.4	86