

Kai-Jen Chuang

List of Publications by Year in descending order

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Version: 2024-02-01

93
papers

3,105
citations

185998

28
h-index

174990

52
g-index

98
all docs

98
docs citations

98
times ranked

4444
citing authors

#	ARTICLE	IF	CITATIONS
1	The Effect of Urban Air Pollution on Inflammation, Oxidative Stress, Coagulation, and Autonomic Dysfunction in Young Adults. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2007, 176, 370-376.	2.5	556
2	Long-term air pollution exposure and risk factors for cardiovascular diseases among the elderly in Taiwan. <i>Occupational and Environmental Medicine</i> , 2011, 68, 64-68.	1.3	242
3	Effect of Air Pollution on Blood Pressure, Blood Lipids, and Blood Sugar: A Population-Based Approach. <i>Journal of Occupational and Environmental Medicine</i> , 2010, 52, 258-262.	0.9	147
4	Long-term indoor air conditioner filtration and cardiovascular health: A randomized crossover intervention study. <i>Environment International</i> , 2017, 106, 91-96.	4.8	107
5	Personal Exposure to Submicrometer Particles and Heart Rate Variability in Human Subjects. <i>Environmental Health Perspectives</i> , 2004, 112, 1063-1067.	2.8	98
6	Effects of Particle Size Fractions on Reducing Heart Rate Variability in Cardiac and Hypertensive Patients. <i>Environmental Health Perspectives</i> , 2005, 113, 1693-1697.	2.8	91
7	Association of PM _{2.5} with sleep-disordered breathing from a population-based study in Northern Taiwan urban areas. <i>Environmental Pollution</i> , 2018, 233, 109-113.	3.7	78
8	Traffic-related air pollution and cardiovascular mortality in central Taiwan. <i>Science of the Total Environment</i> , 2010, 408, 1818-1823.	3.9	77
9	Chemical composition and bioreactivity of PM _{2.5} during 2013 haze events in China. <i>Atmospheric Environment</i> , 2016, 126, 162-170.	1.9	71
10	Medical mask versus cotton mask for preventing respiratory droplet transmission in micro environments. <i>Science of the Total Environment</i> , 2020, 735, 139510.	3.9	63
11	Effects of commuting mode on air pollution exposure and cardiovascular health among young adults in Taipei, Taiwan. <i>International Journal of Hygiene and Environmental Health</i> , 2015, 218, 319-323.	2.1	58
12	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.	3.9	57
13	Characterization of chemical components and bioreactivity of fine particulate matter (PM _{2.5}) during incense burning. <i>Environmental Pollution</i> , 2016, 213, 524-532.	3.7	51
14	Associations Between Particulate Sulfate and Organic Carbon Exposures and Heart Rate Variability in Patients With or at Risk for Cardiovascular Diseases. <i>Journal of Occupational and Environmental Medicine</i> , 2007, 49, 610-617.	0.9	48
15	Reducing indoor air pollution by air conditioning is associated with improvements in cardiovascular health among the general population. <i>Science of the Total Environment</i> , 2013, 463-464, 176-181.	3.9	48
16	Short-term exposure to noise, fine particulate matter and nitrogen oxides on ambulatory blood pressure: A repeated-measure study. <i>Environmental Research</i> , 2015, 140, 634-640.	3.7	48
17	Microglial activation and inflammation caused by traffic-related particulate matter. <i>Chemico-Biological Interactions</i> , 2019, 311, 108762.	1.7	44
18	The effects of indoor particle exposure on blood pressure and heart rate among young adults: An air filtration-based intervention study. <i>Atmospheric Environment</i> , 2011, 45, 5540-5544.	1.9	40

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19	Pulmonary exposure to metal fume particulate matter cause sleep disturbances in shipyard welders. <i>Environmental Pollution</i> , 2018, 232, 523-532.	3.7	40
20	Chronic pulmonary exposure to traffic-related fine particulate matter causes brain impairment in adult rats. <i>Particle and Fibre Toxicology</i> , 2018, 15, 44.	2.8	39
21	Associations Between Submicrometer Particles Exposures and Blood Pressure and Heart Rate in Patients With Lung Function Impairments. <i>Journal of Occupational and Environmental Medicine</i> , 2005, 47, 1093-1098.	0.9	36
22	Effects of polycyclic aromatic compounds in fine particulate matter generated from household coal combustion on response to EGFR mutations in vitro. <i>Environmental Pollution</i> , 2016, 218, 1262-1269.	3.7	35
23	Physicochemistry and cardiovascular toxicity of metal fume PM2.5: a study of human coronary artery endothelial cells and welding workers. <i>Scientific Reports</i> , 2016, 6, 33515.	1.6	35
24	Association of ultrafine particles with cardiopulmonary health among adult subjects in the urban areas of northern Taiwan. <i>Science of the Total Environment</i> , 2018, 627, 211-215.	3.9	35
25	Nickel-regulated heart rate variability: The roles of oxidative stress and inflammation. <i>Toxicology and Applied Pharmacology</i> , 2013, 266, 298-306.	1.3	32
26	Urinary neutrophil gelatinase-associated lipocalin is associated with heavy metal exposure in welding workers. <i>Scientific Reports</i> , 2016, 5, 18048.	1.6	32
27	Protein oxidation and degradation caused by particulate matter. <i>Scientific Reports</i> , 2016, 6, 33727.	1.6	32
28	Comparative proteomics of inhaled silver nanoparticles in healthy and allergen provoked mice. <i>International Journal of Nanomedicine</i> , 2013, 8, 2783.	3.3	30
29	Methionine oxidation in albumin by fine haze particulate matter: An in vitro and in vivo study. <i>Journal of Hazardous Materials</i> , 2014, 274, 384-391.	6.5	29
30	Personal exposure to particulate matter and inflammation among patients with periodontal disease. <i>Science of the Total Environment</i> , 2015, 502, 585-589.	3.9	29
31	Investigation into the pulmonary inflammopathology of exposure to nickel oxide nanoparticles in mice. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2018, 14, 2329-2339.	1.7	28
32	Effects of zinc oxide nanoparticles on human coronary artery endothelial cells. <i>Food and Chemical Toxicology</i> , 2016, 93, 138-144.	1.8	27
33	The Health Effects of a Forest Environment on Subclinical Cardiovascular Disease and Health-Related Quality of Life. <i>PLoS ONE</i> , 2014, 9, e103231.	1.1	25
34	The association of annual air pollution exposure with blood pressure among patients with sleep-disordered breathing. <i>Science of the Total Environment</i> , 2016, 543, 61-66.	3.9	25
35	Contributions of local pollution emissions to particle bioreactivity in downwind cities in China during Asian dust periods. <i>Environmental Pollution</i> , 2019, 245, 675-683.	3.7	24
36	Personal Exposure to Household Particulate Matter, Household Activities and Heart Rate Variability among Housewives. <i>PLoS ONE</i> , 2014, 9, e89969.	1.1	24

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37	In-car particles and cardiovascular health: An air conditioning-based intervention study. <i>Science of the Total Environment</i> , 2013, 452-453, 309-313.	3.9	23
38	Effects of size and surface of zinc oxide and aluminum-doped zinc oxide nanoparticles on cell viability inferred by proteomic analyses. <i>International Journal of Nanomedicine</i> , 2014, 9, 3631.	3.3	23
39	Houseplant, indoor air pollution, and cardiovascular effects among elderly subjects in Taipei, Taiwan. <i>Science of the Total Environment</i> , 2020, 705, 135770.	3.9	23
40	Particulate matter is associated with sputum culture conversion in patients with culture-positive tuberculosis. <i>Therapeutics and Clinical Risk Management</i> , 2016, 12, 41.	0.9	21
41	Serum protein oxidation by diesel exhaust particles: Effects on oxidative stress and inflammatory response in vitro. <i>Chemico-Biological Interactions</i> , 2013, 206, 385-393.	1.7	19
42	Characterization of the interactions between protein and carbon black. <i>Journal of Hazardous Materials</i> , 2014, 264, 127-135.	6.5	19
43	Chronic obstructive pulmonary disease patients have a higher risk of occurrence of pneumonia by air pollution. <i>Science of the Total Environment</i> , 2019, 677, 524-529.	3.9	19
44	Effects of non-protein-type amino acids of fine particulate matter on E-cadherin and inflammatory responses in mice. <i>Toxicology Letters</i> , 2015, 237, 174-180.	0.4	18
45	Pulmonary pathobiology induced by zinc oxide nanoparticles in mice: A 24-hour and 28-day follow-up study. <i>Toxicology and Applied Pharmacology</i> , 2017, 327, 13-22.	1.3	18
46	Cigarette smoke is a risk factor for severity and treatment outcome in patients with culture-positive tuberculosis. <i>Therapeutics and Clinical Risk Management</i> , 2015, 11, 1539.	0.9	17
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. <i>Journal of Toxicological Sciences</i> , 2017, 42, 437-444.	0.7	17
48	Association of ambient ozone with pneumonia hospital admissions in Hong Kong and Taipei: A tale of two Southeast Asian cities. <i>Environment International</i> , 2021, 156, 106634.	4.8	17
49	Road Traffic Noise, Air Pollutants, and the Prevalence of Cardiovascular Disease in Taichung, Taiwan. <i>International Journal of Environmental Research and Public Health</i> , 2018, 15, 1707.	1.2	16
50	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.	1.0	16
51	Size and composition effects of household particles on inflammation and endothelial dysfunction of human coronary artery endothelial cells. <i>Atmospheric Environment</i> , 2013, 77, 490-495.	1.9	15
52	Physicochemical and biological characterization of single-walled and double-walled carbon nanotubes in biological media. <i>Journal of Hazardous Materials</i> , 2014, 280, 216-225.	6.5	15
53	Effects of temple particles on inflammation and endothelial cell response. <i>Science of the Total Environment</i> , 2012, 414, 68-72.	3.9	14
54	Investigation of the Antioxidant Capacity, Insecticidal Ability and Oxidation Stability of <i>Chenopodium formosanum</i> Seed Extract. <i>International Journal of Molecular Sciences</i> , 2018, 19, 2726.	1.8	14

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55	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, 4672.	1.2	14
56	Inter-alpha-trypsin inhibitor heavy chain 4: a novel biomarker for environmental exposure to particulate air pollution in patients with chronic obstructive pulmonary disease. <i>International Journal of COPD</i> , 2015, 10, 831.	0.9	13
57	Association of cardiorespiratory hospital admissions with ambient volatile organic compounds: Evidence from a time-series study in Taipei, Taiwan. <i>Chemosphere</i> , 2021, 276, 130172.	4.2	13
58	Particulate matter in a motorcycle-dominated urban area: Source apportionment and cancer risk of lung deposited surface area (LDSA) concentrations. <i>Journal of Hazardous Materials</i> , 2022, 427, 128188.	6.5	13
59	Facile Synthesis of Silver Nanoparticles and Preparation of Conductive Ink. <i>Nanomaterials</i> , 2022, 12, 171.	1.9	13
60	Inhibition of the WNT/ β -catenin pathway by fine particulate matter in haze: Roles of metals and polycyclic aromatic hydrocarbons. <i>Atmospheric Environment</i> , 2015, 109, 118-129.	1.9	12
61	Effects of physical characteristics of carbon black on metabolic regulation in mice. <i>Environmental Pollution</i> , 2018, 232, 494-504.	3.7	11
62	Effects of diesel exhaust particles on the expression of tau and autophagy proteins in human neuroblastoma cells. <i>Environmental Toxicology and Pharmacology</i> , 2018, 62, 54-59.	2.0	11
63	Alterations by Air Pollution in Inflammation and Metals in Pleural Effusion of Pneumonia Patients. <i>International Journal of Environmental Research and Public Health</i> , 2019, 16, 705.	1.2	11
64	Association between exposures to air pollution and biomarkers of cardiovascular disease in Northern Taiwan. <i>Atmospheric Pollution Research</i> , 2019, 10, 1250-1259.	1.8	11
65	Indoor ozone levels, houseplants and peak expiratory flow rates among healthy adults in Taipei, Taiwan. <i>Environment International</i> , 2019, 122, 231-236.	4.8	11
66	Alteration in angiotensin-converting enzyme 2 by PM ₁ during the development of emphysema in rats. <i>ERJ Open Research</i> , 2020, 6, 00174-2020.	1.1	11
67	In-vehicle carbon dioxide and adverse effects: An air filtration-based intervention study. <i>Science of the Total Environment</i> , 2020, 723, 138047.	3.9	11
68	Dysfunction of methionine sulfoxide reductases to repair damaged proteins by nickel nanoparticles. <i>Chemico-Biological Interactions</i> , 2015, 236, 82-89.	1.7	10
69	Associations of autophagy with lung diffusion capacity and oxygen saturation in severe COPD: effects of particulate air pollution. <i>International Journal of COPD</i> , 2016, Volume 11, 1569-1578.	0.9	9
70	Alterations in cardiovascular function by particulate matter in rats using a crossover design. <i>Environmental Pollution</i> , 2017, 231, 812-820.	3.7	9
71	Air pollution associated with cognitive decline by the mediating effects of sleep cycle disruption and changes in brain structure in adults. <i>Environmental Science and Pollution Research</i> , 2022, 29, 52355-52366.	2.7	9
72	Development of land-use regression models to estimate particle mass and number concentrations in Taichung, Taiwan. <i>Atmospheric Environment</i> , 2021, 252, 118303.	1.9	8

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73	Air pollution-regulated E-cadherin mediates contact inhibition of proliferation via the hippo signaling pathways in emphysema. <i>Chemico-Biological Interactions</i> , 2022, 351, 109763.	1.7	8
74	Colorimetric detection of polycyclic aromatic hydrocarbons by using gold nanoparticles. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2022, 268, 120701.	2.0	8
75	The effect of essential oil on heart rate and blood pressure among solus por aqua workers. <i>European Journal of Preventive Cardiology</i> , 2014, 21, 823-828.	0.8	7
76	Association of ambient non-methane hydrocarbons exposure with respiratory hospitalizations: A time series study in Taipei, Taiwan. <i>Science of the Total Environment</i> , 2020, 729, 139010.	3.9	7
77	Chronic exposure to metal fume PM2.5 on inflammation and stress hormone cortisol in shipyard workers: A repeat measurement study. <i>Ecotoxicology and Environmental Safety</i> , 2021, 215, 112144.	2.9	7
78	Indoor Air Pollution, Nighttime Heart Rate Variability and Coffee Consumption among Convenient Store Workers. <i>PLoS ONE</i> , 2013, 8, e63320.	1.1	6
79	Exposure assessment of particulate and gaseous pollutants emitted during surgery in operating rooms of different specialties. <i>Air Quality, Atmosphere and Health</i> , 2018, 11, 937-947.	1.5	6
80	Association of Particulate Matter from Cooking Oil Fumes with Heart Rate Variability and Oxidative Stress. <i>Antioxidants</i> , 2021, 10, 1323.	2.2	6
81	Preparing Copper Nanoparticles and Flexible Copper Conductive Sheets. <i>Nanomaterials</i> , 2022, 12, 360.	1.9	6
82	Effect of welding fume on heart rate variability among workers with respirators in a shipyard. <i>Scientific Reports</i> , 2016, 6, 34158.	1.6	5
83	Preparing and Applying Silver Nanoparticles in Conductive Ink and Inkjet Painting. <i>Journal of Nanoscience and Nanotechnology</i> , 2021, 21, 5979-5986.	0.9	5
84	The impacts of ambient relative humidity and temperature on supine position-related obstructive sleep apnea in adults. <i>Environmental Science and Pollution Research</i> , 2022, 29, 50755-50764.	2.7	5
85	Characterization of pulmonary protein profiles in response to zinc oxide nanoparticles in mice: a 24-hour and 28-day follow-up study. <i>International Journal of Nanomedicine</i> , 2015, 10, 4705.	3.3	4
86	Association of long-term indoor exposure to fine particles with pulmonary effects in Northern Taiwan. <i>Science of the Total Environment</i> , 2022, 821, 153097.	3.9	4
87	Acute effects of ambient non-methane hydrocarbons on cardiorespiratory hospitalizations: A multicity time-series study in Taiwan. <i>Ecotoxicology and Environmental Safety</i> , 2022, 234, 113370.	2.9	4
88	Zinc Oxide Nanoparticles Promote YAP/TAZ Nuclear Localization in Alveolar Epithelial Type II Cells. <i>Atmosphere</i> , 2022, 13, 334.	1.0	3
89	Electroencephalographic Study of Essential Oils for Stress Relief. <i>Applied Mechanics and Materials</i> , 2013, 437, 1085-1088.	0.2	2
90	Traffic-related PM2.5 exposure and its cardiovascular effects among healthy commuters in Taipei, Taiwan. <i>Atmospheric Environment: X</i> , 2020, 7, 100084.	0.8	2

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91	Association between Migraine and the Risk of Stroke: A Bayesian Meta-Analysis. Sustainability, 2021, 13, 3759.	1.6	2
92	A Comparison of the Validities of Traditional Chinese Versions of the Work Productivity and Activity Impairment Questionnaire: General Health and the World Health Organization's Health and Work Performance Questionnaire. International Journal of Environmental Research and Public Health, 2022, 19, 4417.	1.2	1
93	Long-Term Exposure to Essential Oils and Cardiopulmonary Health from a Population-Based Study. Atmosphere, 2022, 13, 631.	1.0	1