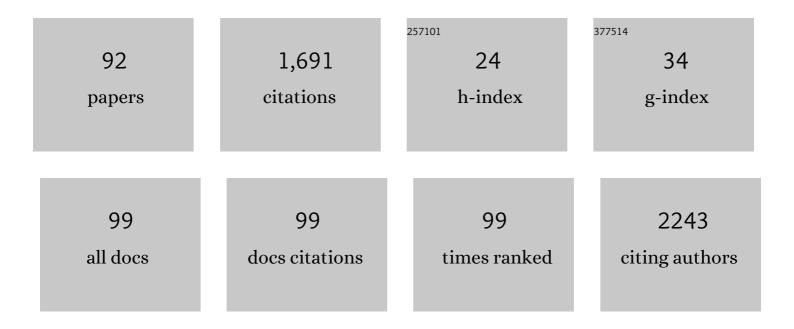
Ta-Chih Hsiao

List of Publications by Year in descending order

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Тл-Снін Неіло

#	Article	IF	CITATIONS
1	Particulate matter and SARS-CoV-2: A possible model of COVID-19 transmission. Science of the Total Environment, 2021, 750, 141532.	3.9	86
2	Interactions between biomass-burning aerosols and clouds over Southeast Asia: Current status, challenges, and perspectives. Environmental Pollution, 2014, 195, 292-307.	3.7	68
3	New particle growth and shrinkage observed in subtropical environments. Atmospheric Chemistry and Physics, 2013, 13, 547-564.	1.9	57
4	Satellite-Surface Perspectives of Air Quality and Aerosol-Cloud Effects on the Environment: An Overview of 7-SEAS/BASELInE. Aerosol and Air Quality Research, 2016, 16, 2581-2602.	0.9	52
5	Effects of the geometric configuration on cyclone performance. Journal of Aerosol Science, 2015, 86, 1-12.	1.8	50
6	Traffic-related particulate matter exposure induces nephrotoxicity in vitro and in vivo. Free Radical Biology and Medicine, 2019, 135, 235-244.	1.3	46
7	Microglial activation and inflammation caused by traffic-related particulate matter. Chemico-Biological Interactions, 2019, 311, 108762.	1.7	44
8	Effect of geometric configuration on the collection efficiency of axial flow cyclones. Journal of Aerosol Science, 2011, 42, 78-86.	1.8	43
9	Allergenicity and toxicology of inhaled silver nanoparticles in allergen-provocation mice models. International Journal of Nanomedicine, 2013, 8, 4495.	3.3	43
10	Pulmonary exposure to metal fume particulate matter cause sleep disturbances in shipyard welders. Environmental Pollution, 2018, 232, 523-532.	3.7	40
11	Chronic pulmonary exposure to traffic-related fine particulate matter causes brain impairment in adult rats. Particle and Fibre Toxicology, 2018, 15, 44.	2.8	39
12	Vertical Distribution and Columnar Optical Properties of Springtime Biomass-Burning Aerosols over Northern Indochina during 2014 7-SEAS Campaign. Aerosol and Air Quality Research, 2015, 15, 2037-2050.	0.9	39
13	Radiative Effect of Springtime Biomass-Burning Aerosols over Northern Indochina during 7-SEAS/BASELInE 2013 Campaign. Aerosol and Air Quality Research, 2016, 16, 2802-2817.	0.9	39
14	Effects of temperature, dust concentration, and filtration superficial velocity on the loading behavior and dust cakes of ceramic candle filters during hot gas filtration. Separation and Purification Technology, 2018, 198, 146-154.	3.9	37
15	Hygroscopic behavior of atmospheric aerosol in Taipei. Atmospheric Environment, 2003, 37, 2069-2075.	1.9	35
16	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.	3.9	35
17	A Simulation Study on PM2.5 Sources and Meteorological Characteristics at the Northern Tip of Taiwan in the Early Stage of the Asian Haze Period. Aerosol and Air Quality Research, 2017, 17, 3166-3178.	0.9	32
18	Size distribution, biological characteristics and emerging contaminants of aerosols emitted from an urban wastewater treatment plant. Journal of Hazardous Materials, 2020, 388, 121809.	6.5	30

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19	COVID-19: An Aerosol's Point of View from Expiration to Transmission to Viral-mechanism. Aerosol and Air Quality Research, 2020, , 905-910.	0.9	30
20	Investigation into the pulmonary inflammopathology of exposure to nickel oxide nanoparticles in mice. Nanomedicine: Nanotechnology, Biology, and Medicine, 2018, 14, 2329-2339.	1.7	28
21	Zirconium-Based Metal–Organic Framework Nanocarrier for the Controlled Release of Ibuprofen. ACS Applied Nano Materials, 2019, 2, 3329-3334.	2.4	28
22	Experimental observations of the transition pressure drop characteristics of fibrous filters loaded with oil-coated particles. Separation and Purification Technology, 2015, 149, 47-54.	3.9	26
23	Analyzing major renewable energy sources and power stability in Taiwan by 2030. Energy Policy, 2019, 125, 293-306.	4.2	26
24	Indoor, outdoor, and personal exposure to PM2.5 and their bioreactivity among healthy residents of Hong Kong. Environmental Research, 2020, 188, 109780.	3.7	26
25	Aerosol Chemical Profile of Near-Source Biomass Burning Smoke in Sonla, Vietnam during 7-SEAS Campaigns in 2012 and 2013. Aerosol and Air Quality Research, 2016, 16, 2603-2617.	0.9	26
26	Evaluation of Nano- and Submicron Particle Penetration through Ten Nonwoven Fabrics Using a Wind-Driven Approach. Journal of Occupational and Environmental Hygiene, 2011, 8, 13-22.	0.4	24
27	Contributions of local pollution emissions to particle bioreactivity in downwind cities in China during Asian dust periods. Environmental Pollution, 2019, 245, 675-683.	3.7	24
28	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.	3.3	23
29	Simulating the transport and chemical evolution of biomass burning pollutants originating from Southeast Asia during 7-SEAS/2010 Dongsha experiment. Atmospheric Environment, 2015, 112, 294-305.	1.9	22
30	Comprehensive PM2.5 Organic Molecular Composition and Stable Carbon Isotope Ratios at Sonla, Vietnam: Fingerprint of Biomass Burning Components. Aerosol and Air Quality Research, 2016, 16, 2618-2634.	0.9	21
31	Surface PEGylation of Silver Nanoparticles: Kinetics of Simultaneous Surface Dissolution and Molecular Desorption. Langmuir, 2016, 32, 9807-9815.	1.6	20
32	Development of a Multi-Stage Axial Flow Cyclone. Aerosol Science and Technology, 2010, 44, 253-261.	1.5	19
33	Aqueous film formation on irregularly shaped inorganic nanoparticles before deliquescence, as revealed by a hygroscopic differential mobility analyzer–Aerosol particle mass system. Aerosol Science and Technology, 2016, 50, 568-577.	1.5	19
34	Interactions of chemical components in ambient PM2.5 with influenza viruses. Journal of Hazardous Materials, 2022, 423, 127243.	6.5	19
35	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.	1.3	18
36	Quantifying Surface Area of Nanosheet Graphene Oxide Colloid Using a Gas-Phase Electrostatic Approach. Analytical Chemistry, 2017, 89, 12217-12222.	3.2	18

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37	Development of mini-cyclones as the size-selective inlet of miniature particle detectors. Journal of Aerosol Science, 2009, 40, 481-491.	1.8	17
38	Aerosol optical properties at the Lulin Atmospheric Background Station in Taiwan and the influences of long-range transport of air pollutants. Atmospheric Environment, 2017, 150, 366-378.	1.9	17
39	SUV39H1 Reduction Is Implicated in Abnormal Inflammation in COPD. Scientific Reports, 2017, 7, 46667.	1.6	17
40	An Experimental Study on Performance Improvement of the Stairmand Cyclone Design. Aerosol and Air Quality Research, 2014, 14, 1003-1016.	0.9	17
41	Characterization of Particulate Matter Profiling and Alveolar Deposition from Biomass Burning in Northern Thailand: The 7-SEAS Study. Aerosol and Air Quality Research, 2016, 16, 2897-2906.	0.9	17
42	Quantifying the impacts of PM2.5 constituents and relative humidity on visibility impairment in a suburban area of eastern Asia using long-term in-situ measurements. Science of the Total Environment, 2022, 818, 151759.	3.9	17
43	Filter Quality of Pleated Filter Cartridges. Annals of Occupational Hygiene, 2008, 52, 207-12.	1.9	16
44	Experimental Comparison of Two Portable and Real-Time Size Distribution Analyzers for Nano/Submicron Aerosol Measurements. Aerosol and Air Quality Research, 2016, 16, 919-929.	0.9	16
45	The Simulation of Long-Range Transport of Biomass Burning Plume and Short-Range Transport of Anthropogenic Pollutants to a Mountain Observatory in East Asia during the 7-SEAS/2010 Dongsha Experiment. Aerosol and Air Quality Research, 2016, 16, 2933-2949.	0.9	16
46	Investigation of the CCN Activity, BC and UVBC Mass Concentrations of Biomass Burning Aerosols during the 2013 BASELINE Campaign. Aerosol and Air Quality Research, 2016, 16, 2742-2756.	0.9	16
47	Computational fluid dynamics study of the effects of flow and geometry parameters on a linear-slit virtual impactor for sampling and concentrating aerosols. Journal of Aerosol Science, 2019, 131, 28-40.	1.8	15
48	Improving the removal efficiency of fine particulate matters in air pollution control devices: Design and performance of an electrostatic aerosol particle agglomerator. Journal of the Taiwan Institute of Chemical Engineers, 2020, 107, 110-118.	2.7	14
49	Alveolar epithelial inter-alpha-trypsin inhibitor heavy chain 4 deficiency associated with senescence-regulated apoptosis by air pollution. Environmental Pollution, 2021, 278, 116863.	3.7	14
50	In-Situ and Remotely-Sensed Observations of Biomass Burning Aerosols at Doi Ang Khang, Thailand during 7-SEAS/BASELInE 2015. Aerosol and Air Quality Research, 2016, 16, 2786-2801.	0.9	13
51	Particulate matter in a motorcycle-dominated urban area: Source apportionment and cancer risk of lung deposited surface area (LDSA) concentrations. Journal of Hazardous Materials, 2022, 427, 128188.	6.5	13
52	Inhibition of the WNT/β-catenin pathway by fine particulate matter in haze: Roles of metals and polycyclic aromatic hydrocarbons. Atmospheric Environment, 2015, 109, 118-129.	1.9	12
53	Performance study of a miniature quadru-inlet cyclone. Journal of Aerosol Science, 2015, 90, 161-168.	1.8	12
54	Effects of physical characteristics of carbon black on metabolic regulation in mice. Environmental Pollution, 2018, 232, 494-504.	3.7	11

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55	Alteration in angiotensin-converting enzyme 2 by PM ₁ during the development of emphysema in rats. ERJ Open Research, 2020, 6, 00174-2020.	1.1	11
56	Toxicological effects of personal exposure to fine particles in adult residents of Hong Kong. Environmental Pollution, 2021, 275, 116633.	3.7	10
57	Chemically and temporally resolved oxidative potential of urban fine particulate matter. Environmental Pollution, 2021, 291, 118206.	3.7	10
58	Urban wastewater treatment plants as a potential source of ketamine and methamphetamine emissions to air. Water Research, 2020, 172, 115495.	5.3	9
59	Air pollution-regulated E-cadherin mediates contact inhibition of proliferation via the hippo signaling pathways in emphysema. Chemico-Biological Interactions, 2022, 351, 109763.	1.7	8
60	Development of a Compact Electrostatic Nanoparticle Sampler for Offline Aerosol Characterization. Mapan - Journal of Metrology Society of India, 2013, 28, 217-226.	1.0	7
61	Development and collection efficiency of an electrostatic precipitator for in-vitro toxicity studies of nano- and submicron-sized aerosols. Journal of the Taiwan Institute of Chemical Engineers, 2017, 72, 1-9.	2.7	7
62	Loss of E-cadherin due to road dust PM2.5 activates the EGFR in human pharyngeal epithelial cells. Environmental Science and Pollution Research, 2021, 28, 53872-53887.	2.7	7
63	Chlorine dioxide gas generation using rotating packed bed for air disinfection in a hospital. Journal of Cleaner Production, 2021, 320, 128885.	4.6	7
64	Analyzing the increasing importance of nitrate in Taiwan from long-term trend of measurements. Atmospheric Environment, 2021, 267, 118749.	1.9	7
65	A Recirculation Aerosol Wind Tunnel for Evaluating Aerosol Samplers and Measuring Particle Penetration through Protective Clothing Materials. Annals of Occupational Hygiene, 2011, 55, 784-96.	1.9	6
66	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.	1.5	6
67	Effects of Human Umbilical Cord-Derived Mesenchymal Stem Cells on the Acute Cigarette Smoke-Induced Pulmonary Inflammation Model. Frontiers in Physiology, 2020, 11, 962.	1.3	6
68	Therapeutic Potential of Human Umbilical Cord-Derived Mesenchymal Stem Cells in Recovering From Murine Pulmonary Emphysema Under Cigarette Smoke Exposure. Frontiers in Medicine, 2021, 8, 713824.	1.2	6
69	Quantitative characterization of colloidal assembly of graphene oxide-silver nanoparticle hybrids using aerosol differential mobility-coupled mass analyses. Analytical and Bioanalytical Chemistry, 2017, 409, 5933-5941.	1.9	5
70	Spectral Derivatives of Optical Depth for Partitioning Aerosol Type and Loading. Remote Sensing, 2021, 13, 1544.	1.8	5
71	Organic carbon and acidic ions in PM2.5 contributed to particle bioreactivity in Chinese megacities during haze episodes. Environmental Science and Pollution Research, 2022, 29, 11865-11873.	2.7	5
72	Relationships between atmospheric mercury and optical properties of spring outflow aerosols from Southeast Asia. Atmospheric Pollution Research, 2021, 12, 101178.	1.8	5

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73	COMMIT in 7-SEAS/BASELInE: Operation of and Observations from a Novel, Mobile Laboratory for Measuring In-Situ Properties of Aerosols and Gases. Aerosol and Air Quality Research, 2016, 16, 2728-2741.	0.9	5
74	Serum Neurofilament Light Polypeptide is a Biomarker for Inflammation in Cerebrospinal Fluid Caused by Fine Particulate Matter. Aerosol and Air Quality Research, 2020, , .	0.9	5
75	Deployment of a mobile platform to characterize spatial and temporal variation of on-road fine particles in an urban area. Environmental Research, 2022, 204, 112349.	3.7	5
76	Contributions of acidic ions in secondary aerosol to PM2.5 bioreactivity in an urban area. Atmospheric Environment, 2022, 275, 119001.	1.9	5
77	A Multidomain Magnetic Passive Aerosol Sampler: Development and Experimental Evaluation. Aerosol Science and Technology, 2013, 47, 37-45.	1.5	4
78	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.	3.3	4
79	Potential Approach for Single-Peak Extinction Fitting of Aerosol Profiles Based on In Situ Measurements for the Improvement of Surface PM2.5 Retrieval from Satellite AOD Product. Remote Sensing, 2020, 12, 2174.	1.8	4
80	Small Cyclones with Conical Contraction Bodies. Aerosol and Air Quality Research, 2018, 18, 2519-2528.	0.9	4
81	Effects of temperature, pressure, and carrier gases on the performance of an aerosol particle mass analyser. Atmospheric Measurement Techniques, 2018, 11, 4617-4626.	1.2	3
82	Modeling of the Transitional Pressure Drop of Fibrous Filter Media Loaded with Oil-coated Particles. Aerosol and Air Quality Research, 2019, 19, 1625-1635.	0.9	3
83	Atmospheric observations of new particle growth and shrinkage. , 2013, , .		2
84	Mixing weight determination for retrieving optical properties of polluted dust with MODIS and AERONET data. Environmental Research Letters, 2016, 11, 085002.	2.2	2
85	Effect of flow rate on detection limit of particle size for a steam-based aerosol collector. Atmospheric Environment, 2019, 202, 160-166.	1.9	2
86	Associations between lung-deposited dose of particulate matter and culture-positive pulmonary tuberculosis pleurisy. Environmental Science and Pollution Research, 2022, 29, 6140-6150.	2.7	2
87	Preface to Special Issue - Long-range transported air pollutants in East Asia ― Observation, measurements, and model analysis. Aerosol and Air Quality Research, 2017, 17, I-II.	0.9	1
88	Effect of particle morphology on performance of an electrostatic air–liquid interface cell exposure system for nanotoxicology studies. Nanotoxicology, 2021, 15, 1-13.	1.6	1
89	Visible light active photocatalyst from recycled disposable heating pads. Journal of Nanophotonics, 2016, 10, 016016.	0.4	0
90	Preface to Special Issue Atmospheric Chemistry and Physics at Mountain Sites 2017. Aerosol and Air Quality Research, 2019, 19, I-I.	0.9	0

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#	Article	IF	CITATIONS
91	Fine and ultrafine particles in Taiwan urban area. AIP Conference Proceedings, 2021, , .	0.3	0

92 Pulmonary toxicity induced by electric charged soot particles in mice. , 2020, , .