Zhi Ning

List of Publications by Year in Descending Order

94 papers	4,455 citations	36 h-index	65 g-index
96 ext. papers	5,361 ext. citations	6.6 avg, IF	5.61 L-index

#	Paper	IF	Citations
94	Kerbside NOx and CO concentrations and emission factors of vehicles on a busy road. *Atmospheric Environment*, **2022**, 271, 118878	5.3	1
93	Physical, chemical, and cell toxicity properties of mature/aged particulate matter (PM) trapped in a diesel particulate filter (DPF) along with the results from freshly produced PM of a diesel engine.. *Journal of Hazardous Materials*, **2022**, 434, 128855	12.8	0
92	NOx and CO Fluctuations in a Busy Street Canyon. *Environments - MDPI*, **2021**, 8, 137	3.2	2
91	Role of semi-volatile particulate matter in gas-particle partitioning leading to change in oxidative potential. *Environmental Pollution*, **2021**, 270, 116061	9.3	1
90	Reducing the Influence of Environmental Factors on Performance of a Diffusion-Based Personal Exposure Kit. *Sensors*, **2021**, 21,	3.8	4
89	Determination of local traffic emission and non-local background source contribution to on-road air pollution using fixed-route mobile air sensor network. *Environmental Pollution*, **2021**, 290, 118055	9.3	3
88	The diurnal characteristics of PM-bound ROS and its influencing factors at urban ambient and roadside environments. *Atmospheric Research*, **2020**, 244, 105039	5.4	4
87	Aerodynamic analysis of SARS-CoV-2 in two Wuhan hospitals. *Nature*, **2020**, 582, 557-560	50.4	1007
86	Characteristics and toxicological effects of commuter exposure to black carbon and metal components of fine particles (PM) in Hong Kong. *Science of the Total Environment*, **2020**, 742, 140501	10.2	19
85	Photo-oxidation of particle phase iron species dominates the generation of reactive oxygen species in secondary aerosol. *Science of the Total Environment*, **2020**, 723, 137994	10.2	0
84	PRAISE-HK: A personalized real-time air quality informatics system for citizen participation in exposure and health risk management. *Sustainable Cities and Society*, **2020**, 54, 101986	10.1	18
83	Protocol development for real-time ship fuel sulfur content determination using drone based plume sniffing microsensor system. *Science of the Total Environment*, **2020**, 744, 140885	10.2	6
82	Development and evaluation of a robust temperature sensitive algorithm for long term NO2 gas sensor network data correction. *Atmospheric Environment*, **2020**, 230, 117509	5.3	9
81	Ambient fine particulate matter inhibits 15-lipoxygenases to promote lung carcinogenesis. *Journal of Experimental and Clinical Cancer Research*, **2019**, 38, 359	12.8	7
80	Reactive oxygen species induced by personal exposure to fine particulate matter emitted from solid fuel combustion in rural Guanzhong Basin, northwestern China. *Air Quality, Atmosphere and Health*, **2019**, 12, 1323-1333	5.6	3
79	Direct measurement of new particle formation based on tethered airship around the top of the planetary boundary layer in eastern China. *Atmospheric Environment*, **2019**, 209, 92-101	5.3	17
78	Personal exposure to PM-bound organic species from domestic solid fuel combustion in rural Guanzhong Basin, China: Characteristics and health implication. *Chemosphere*, **2019**, 227, 53-62	8.4	20

77	Solar-powered air quality monitor applied under subtropical conditions in Hong Kong: Performance evaluation and application for pollution source tracking. *Atmospheric Environment*, **2019**, 214, 1-116825	5.3	4
76	Diurnal trends in redox characteristics of water-soluble and -insoluble PM components. *Environmental Pollution*, **2019**, 254, 112841	9.3	6
75	Fine-scale spatial structure of air pollutant concentrations along bus routes. *Science of the Total Environment*, **2019**, 658, 1-7	10.2	12
74	Assessment of personal integrated exposure to fine particulate matter of urban residents in Hong Kong. *Journal of the Air and Waste Management Association*, **2019**, 69, 47-57	2.4	13
73	Mechanistic insight into the in vitro toxicity of graphene oxide against biofilm forming bacteria using laser-induced breakdown spectroscopy. *Nanoscale*, **2018**, 10, 4475-4487	7.7	41
72	Applications of low-cost sensing technologies for air quality monitoring and exposure assessment: How far have they gone?. *Environment International*, **2018**, 116, 286-299	12.9	268
71	Impact Analysis of Temperature and Humidity Conditions on Electrochemical Sensor Response in Ambient Air Quality Monitoring. *Sensors*, **2018**, 18,	3.8	68
70	Implication of Light Absorption Enhancement and Mixing State of Black Carbon (BC) by Coatings in Hong Kong. *Aerosol and Air Quality Research*, **2018**, 18, 2753-2763	4.6	7
69	Characteristics and source apportionment of winter black carbon aerosols in two Chinese megacities of Xi'an and Hong Kong. *Environmental Science and Pollution Research*, **2018**, 25, 33783-33793	5.1	17
68	Redox characteristics of size-segregated PM from different public transport microenvironments in Hong Kong. *Air Quality, Atmosphere and Health*, **2017**, 10, 833-844	5.6	14
67	Cancer risk from polycyclic aromatic compounds in fine particulate matter generated from household coal combustion in Xuanwei, China. *Chemosphere*, **2017**, 169, 660-668	8.4	33
66	A comparative analysis of chemical components and cell toxicity properties of solid and semi-volatile PM from diesel and biodiesel blend. *Journal of Aerosol Science*, **2017**, 111, 51-64	4.3	14
65	Influence of waste cooking oil biodiesel on combustion, unregulated gaseous emissions and particulate emissions of a direct-injection diesel engine. *Energy*, **2017**, 127, 175-185	7.9	70
64	Comparison on the effect of using diesel fuel and waste cooking oil biodiesel as pilot fuels on the combustion, performance and emissions of a LPG-fumigated compression-ignition engine. *Applied Thermal Engineering*, **2017**, 125, 1260-1271	5.8	12
63	Chemical characterization of size-segregated PM from different public transport modes and implications of source specific contribution to public exposure. *Environmental Science and Pollution Research*, **2017**, 24, 20029-20040	5.1	6
62	Development and Evaluation of A Novel and Cost-Effective Approach for Low-Cost NO_2 Sensor Drift Correction. *Sensors*, **2017**, 17,	3.8	27
61	Variations of aerosol size distribution, chemical composition and optical properties from roadside to ambient environment: A case study in Hong Kong, China. *Atmospheric Environment*, **2017**, 166, 234-243	5.3	25
60	Beijing (2013): A Driver of Change. *Air Pollution Reviews*, **2017**, 345-367		

59	Influence of waste cooking oil biodiesel on the nanostructure and volatility of particles emitted by a direct-injection diesel engine. *Aerosol Science and Technology*, **2016**, 50, 893-905	3.4	31
58	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
57	Speciation of water soluble iron in size segregated airborne particulate matter using LED based liquid waveguide with a novel dispersive absorption spectroscopic measurement technique. *Analytica Chimica Acta*, **2016**, 914, 100-9	6.6	5
56	Chemical composition and bioreactivity of PM2.5 during 2013 haze events in China. *Atmospheric Environment*, **2016**, 126, 162-170	5.3	53
55	A Novel Tandem of Thermal Desorption Carbon Analyzer and Off-Axis Integrated Cavity Output Spectroscopy for Aerosol Stable Carbon Isotope Ratio Measurement. *Aerosol and Air Quality Research*, **2016**, 16, 1345-1355	4.6	2
54	Development and Application of a Next Generation Air Sensor Network for the Hong Kong Marathon 2015 Air Quality Monitoring. *Sensors*, **2016**, 16, 211	3.8	55
53	Investigation on the mechanism of non-photocatalytically TiO2 -induced reactive oxygen species and its significance on cell cycle and morphology. *Journal of Applied Toxicology*, **2016**, 36, 1355-63	4.1	19
52	Influence of engine load and speed on regulated and unregulated emissions of a diesel engine fueled with diesel fuel blended with waste cooking oil biodiesel. *Fuel*, **2016**, 180, 41-49	7.1	101
51	Spatial and seasonal heterogeneity of atmospheric particles induced reactive oxygen species in urban areas and the role of water-soluble metals. *Environmental Pollution*, **2015**, 198, 86-96	9.3	19
50	Effect of road blockages on local air pollution during the Hong Kong protests and its implications for air quality management. *Science of the Total Environment*, **2015**, 536, 443-448	10.2	17
49	A GLOBAL RELATION OF FIRE SMOKE RE-CIRCULATION BEHAVIOUR IN URBAN STREET CANYONS. *Journal of Civil Engineering and Management*, **2015**, 21, 459-469	3	10
48	Source apportionment and water solubility of metals in size segregated particles in urban environments. *Science of the Total Environment*, **2015**, 533, 347-55	10.2	23
47	Effect of Diesel Engine Operating Conditions on the Particulate Size, Nanostructure and Oxidation Properties when Using Wasting Cooking Oil Biodiesel. *Energy Procedia*, **2015**, 66, 37-40	2.3	25
46	Heterogeneity of passenger exposure to air pollutants in public transport microenvironments. *Atmospheric Environment*, **2015**, 109, 42-51	5.3	54
45	Impact of intake hydrogen enrichment on morphology, structure and oxidation reactivity of diesel particulate. *Applied Energy*, **2015**, 160, 442-455	10.7	42
44	Evaluation of diesel fleet emissions and control policies from plume chasing measurements of on-road vehicles. *Atmospheric Environment*, **2015**, 122, 171-182	5.3	44
43	Through-tunnel estimates of vehicle fleet emission factors. *Atmospheric Environment*, **2015**, 123, 180-189	3.3	23
42	Development and laboratory evaluation of a compact swirling aerosol sampler (SAS) for collection of atmospheric bioaerosols. *Atmospheric Pollution Research*, **2015**, 6, 556-561	4.5	9

41	Effect of Waste Cooking Oil Biodiesel on the Properties of Particulate from a DI Diesel Engine. *Aerosol Science and Technology*, **2015**, 49, 199-209	3.4	40
40	Prototype Development and Laboratory Evaluation of an Aerosol to Hydrosol Sampler. *Aerosol and Air Quality Research*, **2015**, 15, 776-785	4.6	6
39	Impact of traffic volume and composition on the air quality and pedestrian exposure in urban street canyon. *Atmospheric Environment*, **2014**, 98, 260-270	5.3	87
38	Dispersive infrared spectroscopy measurements of atmospheric CO using a Fabry-Pérot interferometer sensor. *Science of the Total Environment*, **2014**, 472, 27-35	10.2	11
37	Water solubility of metals in coarse PM and PM 2.5 in typical urban environment in Hong Kong. *Atmospheric Pollution Research*, **2014**, 5, 236-244	4.5	45
36	Increase of ozone concentrations, its temperature sensitivity and the precursor factor in South China. *Tellus, Series B: Chemical and Physical Meteorology*, **2014**, 66, 23455	3.3	46
35	Black carbon mass size distributions of diesel exhaust and urban aerosols measured using differential mobility analyzer in tandem with Aethalometer. *Atmospheric Environment*, **2013**, 80, 31-40	5.3	52
34	An integrated approach to identify the biomass burning sources contributing to black carbon episodes in Hong Kong. *Atmospheric Environment*, **2013**, 80, 478-487	5.3	19
33	Ambient ultrafine particles alter lipid metabolism and HDL anti-oxidant capacity in LDLR-null mice. *Journal of Lipid Research*, **2013**, 54, 1608-1615	6.3	74
32	PM, NOx and butane emissions from on-road vehicle fleets in Hong Kong and their implications on emission control policy. *Atmospheric Environment*, **2012**, 61, 265-274	5.3	38
31	Modification of the Versatile Aerosol Concentration Enrichment System (VACES) for conducting inhalation exposures to semi-volatile vapor phase pollutants. *Journal of Aerosol Science*, **2011**, 42, 555-566	4.3	6
30	Seasonal and Spatial Coarse Particle Elemental Concentrations in the Los Angeles Area. *Aerosol Science and Technology*, **2011**, 45, 949-963	3.4	49
29	Spatial and temporal variation of chemical composition and mass closure of ambient coarse particulate matter (PM10-2.5) in the Los Angeles area. *Atmospheric Environment*, **2011**, 45, 2651-2662	5.3	145
28	Diurnal trends in coarse particulate matter composition in the Los Angeles Basin. *Journal of Environmental Monitoring*, **2011**, 13, 3277-87		19
27	Comparison of the Chemical and Oxidative Characteristics of Particulate Matter (PM) Collected by Different Methods: Filters, Impactors, and BioSamplers. *Aerosol Science and Technology*, **2011**, 45, 1294-1304	3.4	32
26	Chemical characterization and redox potential of coarse and fine particulate matter (PM) in underground and ground-level rail systems of the Los Angeles Metro. *Environmental Science & Technology*, **2011**, 45, 6769-76	10.3	60
25	Glutamatergic neurons in rodent models respond to nanoscale particulate urban air pollutants in vivo and in vitro. *Environmental Health Perspectives*, **2011**, 119, 1003-9	8.4	145
24	Ambient ultrafine particles provide a strong adjuvant effect in the secondary immune response: implication for traffic-related asthma flares. *American Journal of Physiology - Lung Cellular and Molecular Physiology*, **2010**, 299, L374-83	5.8	77

23	Diesel exhaust particles modulate vascular endothelial cell permeability: implication of ZO-1 expression. *Toxicology Letters*, **2010**, 197, 163-8	4.4	25
22	Impact of roadside noise barriers on particle size distributions and pollutants concentrations near freeways. *Atmospheric Environment*, **2010**, 44, 3118-3127	5.3	54
21	Ultrafine particles from diesel vehicle emissions at different driving cycles induce differential vascular pro-inflammatory responses: implication of chemical components and NF-kappaB signaling. *Particle and Fibre Toxicology*, **2010**, 7, 6	8.4	80
20	Atmospheric Processes Influencing Aerosols Generated by Combustion and the Inference of Their Impact on Public Exposure: A Review. *Aerosol and Air Quality Research*, **2010**, 10, 43-58	4.6	47
19	Redox activity of urban quasi-ultrafine particles from primary and secondary sources. *Atmospheric Environment*, **2009**, 43, 6360-6368	5.3	169
18	Ultrafine particles from diesel engines induce vascular oxidative stress via JNK activation. *Free Radical Biology and Medicine*, **2009**, 46, 775-82	7.8	77
17	Characterization of particle bound organic carbon from diesel vehicles equipped with advanced emission control technologies. *Environmental Science & Technology*, **2009**, 43, 4679-86	10.3	41
16	A novel bipolar charger for submicron aerosol particles using carbon fiber ionizers. *Journal of Aerosol Science*, **2009**, 40, 285-294	4.3	33
15	Efficient Collection of Atmospheric Aerosols with a Particle Concentrator–Electrostatic Precipitator Sampler. *Aerosol Science and Technology*, **2009**, 43, 757-766	3.4	15
14	Emission factors of PM species based on freeway measurements and comparison with tunnel and dynamometer studies. *Atmospheric Environment*, **2008**, 42, 3099-3114	5.3	88
13	Enhanced unipolar charging of concentration-enriched particles using water-based condensational growth. *Journal of Aerosol Science*, **2008**, 39, 770-784	4.3	5
12	Field evaluation of a new particle concentrator- electrostatic precipitator system for measuring chemical and toxicological properties of particulate matter. *Particle and Fibre Toxicology*, **2008**, 5, 15	8.4	12
11	Daily variation in chemical characteristics of urban ultrafine aerosols and inference of their sources. *Environmental Science & Technology*, **2007**, 41, 6000-6	10.3	99
10	Particle concentration and Characteristics near a major freeway with heavy-duty diesel traffic. *Environmental Science & Technology*, **2007**, 41, 2223-30	10.3	82
9	Fine, ultrafine and nanoparticle trace element compositions near a major freeway with a high heavy-duty diesel fraction. *Atmospheric Environment*, **2007**, 41, 5684-5696	5.3	115
8	Daily variation in the properties of urban ultrafine aerosol–Part I: Physical characterization and volatility. *Atmospheric Environment*, **2007**, 41, 8633-8646	5.3	49
7	On-road remote sensing of liquefied petroleum gas (LPG) vehicle emissions measurement and emission factors estimation. *Atmospheric Environment*, **2007**, 41, 9099-9110	5.3	42
6	Gaseous and Particle Emission Factors from the Selected On-Road Petrol/Gasoline, Diesel, and Liquefied Petroleum Gas Vehicles. *Energy & Fuels*, **2007**, 21, 2710-2718	4.1	24

5	Roadside measurement and prediction of CO and PM2.5 dispersion from on-road vehicles in Hong Kong. *Transportation Research, Part D: Transport and Environment*, **2006**, 11, 242-249	6.4	23
4	Field Validation of the New Miniature Versatile Aerosol Concentration Enrichment System (mVACES). *Aerosol Science and Technology*, **2006**, 40, 1098-1110	3.4	16
3	On-road remote sensing of diesel vehicle emissions measurement and emission factors estimation in Hong Kong. *Atmospheric Environment*, **2005**, 39, 6843-6856	5.3	33
2	On-road remote sensing of petrol vehicle emissions measurement and emission factors estimation in Hong Kong. *Atmospheric Environment*, **2004**, 38, 2055-2066	5.3	58
1	Understanding the Sources of Heavy Metal Pollution in Ambient Air of Neighboring a Solid Waste Landfill Site. *Aerosol Science and Engineering*,1	1.6	0