

Zhi Ning

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

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	Aerodynamic analysis of SARS-CoV-2 in two Wuhan hospitals. <i>Nature</i> , 2020 , 582, 557-560	50.4	1007
93	Applications of low-cost sensing technologies for air quality monitoring and exposure assessment: How far have they gone?. <i>Environment International</i> , 2018 , 116, 286-299	12.9	268
92	Redox activity of urban quasi-ultrafine particles from primary and secondary sources. <i>Atmospheric Environment</i> , 2009 , 43, 6360-6368	5.3	169
91	Spatial and temporal variation of chemical composition and mass closure of ambient coarse particulate matter (PM ₁₀ 2.5) in the Los Angeles area. <i>Atmospheric Environment</i> , 2011 , 45, 2651-2662	5.3	145
90	Glutamatergic neurons in rodent models respond to nanoscale particulate urban air pollutants in vivo and in vitro. <i>Environmental Health Perspectives</i> , 2011 , 119, 1003-9	8.4	145
89	Fine, ultrafine and nanoparticle trace element compositions near a major freeway with a high heavy-duty diesel fraction. <i>Atmospheric Environment</i> , 2007 , 41, 5684-5696	5.3	115
88	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. <i>Fuel</i> , 2016 , 180, 41-49	7.1	101
87	Daily variation in chemical characteristics of urban ultrafine aerosols and inference of their sources. <i>Environmental Science & Technology</i> , 2007 , 41, 6000-6	10.3	99
86	Emission factors of PM species based on freeway measurements and comparison with tunnel and dynamometer studies. <i>Atmospheric Environment</i> , 2008 , 42, 3099-3114	5.3	88
85	Impact of traffic volume and composition on the air quality and pedestrian exposure in urban street canyon. <i>Atmospheric Environment</i> , 2014 , 98, 260-270	5.3	87
84	Particle concentration and Characteristics near a major freeway with heavy-duty diesel traffic. <i>Environmental Science & Technology</i> , 2007 , 41, 2223-30	10.3	82
83	Ultrafine particles from diesel vehicle emissions at different driving cycles induce differential vascular pro-inflammatory responses: implication of chemical components and NF-kappaB signaling. <i>Particle and Fibre Toxicology</i> , 2010 , 7, 6	8.4	80
82	Ambient ultrafine particles provide a strong adjuvant effect in the secondary immune response: implication for traffic-related asthma flares. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 2010 , 299, L374-83	5.8	77
81	Ultrafine particles from diesel engines induce vascular oxidative stress via JNK activation. <i>Free Radical Biology and Medicine</i> , 2009 , 46, 775-82	7.8	77
80	Ambient ultrafine particles alter lipid metabolism and HDL anti-oxidant capacity in LDLR-null mice. <i>Journal of Lipid Research</i> , 2013 , 54, 1608-1615	6.3	74
79	Influence of waste cooking oil biodiesel on combustion, unregulated gaseous emissions and particulate emissions of a direct-injection diesel engine. <i>Energy</i> , 2017 , 127, 175-185	7.9	70
78	Impact Analysis of Temperature and Humidity Conditions on Electrochemical Sensor Response in Ambient Air Quality Monitoring. <i>Sensors</i> , 2018 , 18,	3.8	68

77	Chemical characterization and redox potential of coarse and fine particulate matter (PM) in underground and ground-level rail systems of the Los Angeles Metro. <i>Environmental Science & Technology</i> , 2011 , 45, 6769-76	10.3	60
76	On-road remote sensing of petrol vehicle emissions measurement and emission factors estimation in Hong Kong. <i>Atmospheric Environment</i> , 2004 , 38, 2055-2066	5.3	58
75	Development and Application of a Next Generation Air Sensor Network for the Hong Kong Marathon 2015 Air Quality Monitoring. <i>Sensors</i> , 2016 , 16, 211	3.8	55
74	Heterogeneity of passenger exposure to air pollutants in public transport microenvironments. <i>Atmospheric Environment</i> , 2015 , 109, 42-51	5.3	54
73	Impact of roadside noise barriers on particle size distributions and pollutants concentrations near freeways. <i>Atmospheric Environment</i> , 2010 , 44, 3118-3127	5.3	54
72	Chemical composition and bioreactivity of PM _{2.5} during 2013 haze events in China. <i>Atmospheric Environment</i> , 2016 , 126, 162-170	5.3	53
71	Black carbon mass size distributions of diesel exhaust and urban aerosols measured using differential mobility analyzer in tandem with Aethalometer. <i>Atmospheric Environment</i> , 2013 , 80, 31-40	5.3	52
70	Seasonal and Spatial Coarse Particle Elemental Concentrations in the Los Angeles Area. <i>Aerosol Science and Technology</i> , 2011 , 45, 949-963	3.4	49
69	Daily variation in the properties of urban ultrafine aerosol Part I: Physical characterization and volatility. <i>Atmospheric Environment</i> , 2007 , 41, 8633-8646	5.3	49
68	Atmospheric Processes Influencing Aerosols Generated by Combustion and the Inference of Their Impact on Public Exposure: A Review. <i>Aerosol and Air Quality Research</i> , 2010 , 10, 43-58	4.6	47
67	Increase of ozone concentrations, its temperature sensitivity and the precursor factor in South China. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , 2014 , 66, 23455	3.3	46
66	Water solubility of metals in coarse PM and PM 2.5 in typical urban environment in Hong Kong. <i>Atmospheric Pollution Research</i> , 2014 , 5, 236-244	4.5	45
65	Evaluation of diesel fleet emissions and control policies from plume chasing measurements of on-road vehicles. <i>Atmospheric Environment</i> , 2015 , 122, 171-182	5.3	44
64	Impact of intake hydrogen enrichment on morphology, structure and oxidation reactivity of diesel particulate. <i>Applied Energy</i> , 2015 , 160, 442-455	10.7	42
63	On-road remote sensing of liquefied petroleum gas (LPG) vehicle emissions measurement and emission factors estimation. <i>Atmospheric Environment</i> , 2007 , 41, 9099-9110	5.3	42
62	Mechanistic insight into the in vitro toxicity of graphene oxide against biofilm forming bacteria using laser-induced breakdown spectroscopy. <i>Nanoscale</i> , 2018 , 10, 4475-4487	7.7	41
61	Characterization of particle bound organic carbon from diesel vehicles equipped with advanced emission control technologies. <i>Environmental Science & Technology</i> , 2009 , 43, 4679-86	10.3	41
60	Effect of Waste Cooking Oil Biodiesel on the Properties of Particulate from a DI Diesel Engine. <i>Aerosol Science and Technology</i> , 2015 , 49, 199-209	3.4	40

59	PM, NO _x and butane emissions from on-road vehicle fleets in Hong Kong and their implications on emission control policy. <i>Atmospheric Environment</i> , 2012 , 61, 265-274	5.3	38
58	Cancer risk from polycyclic aromatic compounds in fine particulate matter generated from household coal combustion in Xuanwei, China. <i>Chemosphere</i> , 2017 , 169, 660-668	8.4	33
57	A novel bipolar charger for submicron aerosol particles using carbon fiber ionizers. <i>Journal of Aerosol Science</i> , 2009 , 40, 285-294	4.3	33
56	On-road remote sensing of diesel vehicle emissions measurement and emission factors estimation in Hong Kong. <i>Atmospheric Environment</i> , 2005 , 39, 6843-6856	5.3	33
55	Comparison of the Chemical and Oxidative Characteristics of Particulate Matter (PM) Collected by Different Methods: Filters, Impactors, and BioSamplers. <i>Aerosol Science and Technology</i> , 2011 , 45, 1294-1304	3.4	32
54	Influence of waste cooking oil biodiesel on the nanostructure and volatility of particles emitted by a direct-injection diesel engine. <i>Aerosol Science and Technology</i> , 2016 , 50, 893-905	3.4	31
53	Development and Evaluation of A Novel and Cost-Effective Approach for Low-Cost NO _x Sensor Drift Correction. <i>Sensors</i> , 2017 , 17,	3.8	27
52	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	9.3	26
51	Effect of Diesel Engine Operating Conditions on the Particulate Size, Nanostructure and Oxidation Properties when Using Wasting Cooking Oil Biodiesel. <i>Energy Procedia</i> , 2015 , 66, 37-40	2.3	25
50	Diesel exhaust particles modulate vascular endothelial cell permeability: implication of ZO-1 expression. <i>Toxicology Letters</i> , 2010 , 197, 163-8	4.4	25
49	Variations of aerosol size distribution, chemical composition and optical properties from roadside to ambient environment: A case study in Hong Kong, China. <i>Atmospheric Environment</i> , 2017 , 166, 234-243	5.3	25
48	Gaseous and Particle Emission Factors from the Selected On-Road Petrol/Gasoline, Diesel, and Liquefied Petroleum Gas Vehicles. <i>Energy & Fuels</i> , 2007 , 21, 2710-2718	4.1	24
47	Source apportionment and water solubility of metals in size segregated particles in urban environments. <i>Science of the Total Environment</i> , 2015 , 533, 347-55	10.2	23
46	Through-tunnel estimates of vehicle fleet emission factors. <i>Atmospheric Environment</i> , 2015 , 123, 180-189	3.3	23
45	Roadside measurement and prediction of CO and PM _{2.5} dispersion from on-road vehicles in Hong Kong. <i>Transportation Research, Part D: Transport and Environment</i> , 2006 , 11, 242-249	6.4	23
44	Personal exposure to PM-bound organic species from domestic solid fuel combustion in rural Guanzhong Basin, China: Characteristics and health implication. <i>Chemosphere</i> , 2019 , 227, 53-62	8.4	20
43	Spatial and seasonal heterogeneity of atmospheric particles induced reactive oxygen species in urban areas and the role of water-soluble metals. <i>Environmental Pollution</i> , 2015 , 198, 86-96	9.3	19
42	Characteristics and toxicological effects of commuter exposure to black carbon and metal components of fine particles (PM) in Hong Kong. <i>Science of the Total Environment</i> , 2020 , 742, 140501	10.2	19

41	An integrated approach to identify the biomass burning sources contributing to black carbon episodes in Hong Kong. <i>Atmospheric Environment</i> , 2013 , 80, 478-487	5.3	19
40	Diurnal trends in coarse particulate matter composition in the Los Angeles Basin. <i>Journal of Environmental Monitoring</i> , 2011 , 13, 3277-87		19
39	Investigation on the mechanism of non-photocatalytically TiO ₂ -induced reactive oxygen species and its significance on cell cycle and morphology. <i>Journal of Applied Toxicology</i> , 2016 , 36, 1355-63	4.1	19
38	PRAISE-HK: A personalized real-time air quality informatics system for citizen participation in exposure and health risk management. <i>Sustainable Cities and Society</i> , 2020 , 54, 101986	10.1	18
37	Direct measurement of new particle formation based on tethered airship around the top of the planetary boundary layer in eastern China. <i>Atmospheric Environment</i> , 2019 , 209, 92-101	5.3	17
36	Effect of road blockages on local air pollution during the Hong Kong protests and its implications for air quality management. <i>Science of the Total Environment</i> , 2015 , 536, 443-448	10.2	17
35	Characteristics and source apportionment of winter black carbon aerosols in two Chinese megacities of Xi'an and Hong Kong. <i>Environmental Science and Pollution Research</i> , 2018 , 25, 33783-33793	5.1	17
34	Field Validation of the New Miniature Versatile Aerosol Concentration Enrichment System (mVACES). <i>Aerosol Science and Technology</i> , 2006 , 40, 1098-1110	3.4	16
33	Efficient Collection of Atmospheric Aerosols with a Particle Concentrator-Electrostatic Precipitator Sampler. <i>Aerosol Science and Technology</i> , 2009 , 43, 757-766	3.4	15
32	Redox characteristics of size-segregated PM from different public transport microenvironments in Hong Kong. <i>Air Quality, Atmosphere and Health</i> , 2017 , 10, 833-844	5.6	14
31	A comparative analysis of chemical components and cell toxicity properties of solid and semi-volatile PM from diesel and biodiesel blend. <i>Journal of Aerosol Science</i> , 2017 , 111, 51-64	4.3	14
30	Assessment of personal integrated exposure to fine particulate matter of urban residents in Hong Kong. <i>Journal of the Air and Waste Management Association</i> , 2019 , 69, 47-57	2.4	13
29	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. <i>Applied Thermal Engineering</i> , 2017 , 125, 1260-1271	5.8	12
28	Field evaluation of a new particle concentrator- electrostatic precipitator system for measuring chemical and toxicological properties of particulate matter. <i>Particle and Fibre Toxicology</i> , 2008 , 5, 15	8.4	12
27	Fine-scale spatial structure of air pollutant concentrations along bus routes. <i>Science of the Total Environment</i> , 2019 , 658, 1-7	10.2	12
26	Dispersive infrared spectroscopy measurements of atmospheric CO ₂ using a Fabry-Pérot interferometer sensor. <i>Science of the Total Environment</i> , 2014 , 472, 27-35	10.2	11
25	A GLOBAL RELATION OF FIRE SMOKE RE-CIRCULATION BEHAVIOUR IN URBAN STREET CANYONS. <i>Journal of Civil Engineering and Management</i> , 2015 , 21, 459-469	3	10
24	Development and laboratory evaluation of a compact swirling aerosol sampler (SAS) for collection of atmospheric bioaerosols. <i>Atmospheric Pollution Research</i> , 2015 , 6, 556-561	4.5	9

23	Development and evaluation of a robust temperature sensitive algorithm for long term NO ₂ gas sensor network data correction. <i>Atmospheric Environment</i> , 2020 , 230, 117509	5.3	9
22	Ambient fine particulate matter inhibits 15-lipoxygenases to promote lung carcinogenesis. <i>Journal of Experimental and Clinical Cancer Research</i> , 2019 , 38, 359	12.8	7
21	Implication of Light Absorption Enhancement and Mixing State of Black Carbon (BC) by Coatings in Hong Kong. <i>Aerosol and Air Quality Research</i> , 2018 , 18, 2753-2763	4.6	7
20	Diurnal trends in redox characteristics of water-soluble and -insoluble PM components. <i>Environmental Pollution</i> , 2019 , 254, 112841	9.3	6
19	Chemical characterization of size-segregated PM from different public transport modes and implications of source specific contribution to public exposure. <i>Environmental Science and Pollution Research</i> , 2017 , 24, 20029-20040	5.1	6
18	Modification of the Versatile Aerosol Concentration Enrichment System (VACES) for conducting inhalation exposures to semi-volatile vapor phase pollutants. <i>Journal of Aerosol Science</i> , 2011 , 42, 555-566	4.3	6
17	Prototype Development and Laboratory Evaluation of an Aerosol to Hydrosol Sampler. <i>Aerosol and Air Quality Research</i> , 2015 , 15, 776-785	4.6	6
16	Protocol development for real-time ship fuel sulfur content determination using drone based plume sniffing microsensor system. <i>Science of the Total Environment</i> , 2020 , 744, 140885	10.2	6
15	Speciation of water soluble iron in size segregated airborne particulate matter using LED based liquid waveguide with a novel dispersive absorption spectroscopic measurement technique. <i>Analytica Chimica Acta</i> , 2016 , 914, 100-9	6.6	5
14	Enhanced unipolar charging of concentration-enriched particles using water-based condensational growth. <i>Journal of Aerosol Science</i> , 2008 , 39, 770-784	4.3	5
13	The diurnal characteristics of PM-bound ROS and its influencing factors at urban ambient and roadside environments. <i>Atmospheric Research</i> , 2020 , 244, 105039	5.4	4
12	Solar-powered air quality monitor applied under subtropical conditions in Hong Kong: Performance evaluation and application for pollution source tracking. <i>Atmospheric Environment</i> , 2019 , 214, 1-116825	5.3	4
11	Reducing the Influence of Environmental Factors on Performance of a Diffusion-Based Personal Exposure Kit. <i>Sensors</i> , 2021 , 21,	3.8	4
10	Reactive oxygen species induced by personal exposure to fine particulate matter emitted from solid fuel combustion in rural Guanzhong Basin, northwestern China. <i>Air Quality, Atmosphere and Health</i> , 2019 , 12, 1323-1333	5.6	3
9	Determination of local traffic emission and non-local background source contribution to on-road air pollution using fixed-route mobile air sensor network. <i>Environmental Pollution</i> , 2021 , 290, 118055	9.3	3
8	NO _x and CO Fluctuations in a Busy Street Canyon. <i>Environments - MDPI</i> , 2021 , 8, 137	3.2	2
7	A Novel Tandem of Thermal Desorption Carbon Analyzer and Off-Axis Integrated Cavity Output Spectroscopy for Aerosol Stable Carbon Isotope Ratio Measurement. <i>Aerosol and Air Quality Research</i> , 2016 , 16, 1345-1355	4.6	2
6	Kerbside NO _x and CO concentrations and emission factors of vehicles on a busy road. <i>Atmospheric Environment</i> , 2022 , 271, 118878	5.3	1

5	Role of semi-volatile particulate matter in gas-particle partitioning leading to change in oxidative potential. <i>Environmental Pollution</i> , 2021 , 270, 116061	9.3	1
4	Photo-oxidation of particle phase iron species dominates the generation of reactive oxygen species in secondary aerosol. <i>Science of the Total Environment</i> , 2020 , 723, 137994	10.2	0
3	Understanding the Sources of Heavy Metal Pollution in Ambient Air of Neighboring a Solid Waste Landfill Site. <i>Aerosol Science and Engineering</i> ,1	1.6	0
2	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.. <i>Journal of Hazardous Materials</i> , 2022 , 434, 128855	12.8	0
1	Beijing (2013): A Driver of Change. <i>Air Pollution Reviews</i> , 2017 , 345-367		