Constantinos Sioutas

List of Publications by Year
in descending order

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333 papers	28,097 citations	5268 83 h-index	7348 152 g-index
347 all docs	347 docs citations	347 times ranked	19453 citing authors

#	Article	IF	Citations
1	Ultrafine particulate pollutants induce oxidative stress and mitochondrial damage.. Environmental Health Perspectives, 2003, 111, 455-460.	6.0	1,773
2	Comparison of the Abilities of Ambient and Manufactured Nanoparticles To Induce Cellular Toxicity According to an Oxidative Stress Paradigm. Nano Letters, 2006, 6, 1794-1807.	9.1	1,675
3	Concentration and Size Distribution of Ultrafine Particles Near a Major Highway. Journal of the Air and Waste Management Association, 2002, 52, 1032-1042.	1.9	822
4	Study of ultrafine particles near a major highway with heavy-duty diesel traffic. Atmospheric Environment, 2002, 36, 4323-4335.	4.1	784
5	Potential Role of Ultrafine Particles in Associations between Airborne Particle Mass and Cardiovascular Health. Environmental Health Perspectives, 2005, 113, 934-946.	6.0	780
6	Redox activity of airborne particulate matter at different sites in the Los Angeles Basin. Environmental Research, 2005, 99, 40-47.	7.5	589
7	Ambient Particulate Pollutants in the Ultrafine Range Promote Early Atherosclerosis and Systemic Oxidative Stress. Circulation Research, 2008, 102, 589-596.	4.5	551
8	Exposure Assessment for Atmospheric Ultrafine Particles (UFPs) and Implications in Epidemiologic Research. Environmental Health Perspectives, 2005, 113, 947-955.	6.0	522
9	Evaluating the Toxicity of Airborne Particulate Matter and Nanoparticles by Measuring Oxidative Stress Potentialâ€"A Workshop Report and Consensus Statement. Inhalation Toxicology, 2008, 20, 75-99.	1.6	482
10	Nrf2 Is a Key Transcription Factor That Regulates Antioxidant Defense in Macrophages and Epithelial Cells: Protecting against the Proinflammatory and Oxidizing Effects of Diesel Exhaust Chemicals. Journal of Immunology, 2004, 173, 3467-3481.	0.8	411
11	Mobile platform measurements of ultrafine particles and associated pollutant concentrations on freeways and residential streets in Los Angeles. Atmospheric Environment, 2005, 39, 3597-3610.	4.1	385
12	Quinones and Aromatic Chemical Compounds in Particulate Matter Induce Mitochondrial Dysfunction: Implications for Ultrafine Particle Toxicity. Environmental Health Perspectives, 2004, 112, 1347-1358.	6.0	369
13	Circulating Biomarkers of Inflammation, Antioxidant Activity, and Platelet Activation Are Associated with Primary Combustion Aerosols in Subjects with Coronary Artery Disease. Environmental Health Perspectives, 2008, 116, 898-906.	6.0	302
14	Air Pollution Exposures and Circulating Biomarkers of Effect in a Susceptible Population: Clues to Potential Causal Component mixtures and mechanisms. Environmental Health Perspectives, 2009, 117, 1232-1238.	6.0	260
15	Evolution of particle number distribution near roadways. Part II: the â€˜Road-to-Ambientâ€™ process. Atmospheric Environment, 2004, 38, 6655-6665.	4.1	246
16	Evaluation of the TEOM^{Â®} Method for Measurement of Ambient Particulate Mass in Urban Areas. Journal of the Air and Waste Management Association, 1997, 47, 682-689.	1.9	229
17	Measurements and predictors of on-road ultrafine particle concentrations and associated pollutants in Los Angeles. Atmospheric Environment, 2008, 42, 207-219.	4.1	219
18	USE OF A STRATIFIED OXIDATIVE STRESS MODEL TO STUDY THE BIOLOGICAL EFFECTS OF AMBIENT CONCENTRATED AND DIESEL EXHAUST PARTICULATE MATTER. Inhalation Toxicology, 2002, 14, 459-486.	1.6	216

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19	Personal and Ambient Air Pollution is Associated with Increased Exhaled Nitric Oxide in Children with Asthma. Environmental Health Perspectives, 2006, 114, 1736-1743.	6.0	209
20	Relationship between redox activity and chemical speciation of size-fractionated particulate matter. Particle and Fibre Toxicology, 2007, 4, 5.	6.2	207
21	The Adjuvant Effect of Ambient Particulate Matter Is Closely Reflected by the Particulate Oxidant Potential. Environmental Health Perspectives, 2009, 117, 1116-1123.	6.0	203
22	Spatial and temporal variation of chemical composition and mass closure of ambient coarse particulate matter (PM10â€“2.5) in the Los Angeles area. Atmospheric Environment, 2011, 45, 2651-2662.	4.1	202
23	Redox activity of urban quasi-ultrafine particles from primary and secondary sources. Atmospheric Environment, 2009, 43, 6360-6368.	4.1	201
24	Diurnal Variations of Individual Organic Compound Constituents of Ultrafine and Accumulation Mode Particulate Matter in the Los Angeles Basin. Environmental Science & Technology, 2004, 38, 1296-1304.	10.0	193
25	Physicochemical and redox characteristics of particulate matter (PM) emitted from gasoline and diesel passenger cars. Atmospheric Environment, 2006, 40, 6988-7004.	4.1	193
26	Particulate matter (PM) concentrations in underground and ground-level rail systems of the Los Angeles Metro. Atmospheric Environment, 2011, 45, 1506-1516.	4.1	190
27	Size distribution and diurnal characteristics of particle-bound metals in source and receptor sites of the Los Angeles Basin. Atmospheric Environment, 2002, 36, 1675-1689.	4.1	183
28	Development and evaluation of a personal cascade impactor sampler (PCIS). Journal of Aerosol Science, 2002, 33, 1027-1047.	3.8	174
29	Glutamatergic Neurons in Rodent Models Respond to Nanoscale Particulate Urban Air Pollutants in Vivo and in Vitro. Environmental Health Perspectives, 2011, 119, 1003-1009.	6.0	174
30	Measurements of Particle Number and Mass Concentrations and Size Distributions in a Tunnel Environment. Environmental Science & Technology, 2005, 39, 8653-8663.	10.0	173
31	Chemical Characteristics and Oxidative Potential of Particulate Matter Emissions from Gasoline, Diesel, and Biodiesel Cars. Environmental Science & Technology, 2009, 43, 6334-6340.	10.0	167
32	Traffic-related Air Pollution and Blood Pressure in Elderly Subjects With Coronary Artery Disease. Epidemiology, 2010, 21, 396-404.	2.7	165
33	Performance evaluation of the active-flow personal DataRAM PM2.5 mass monitor (Thermo Anderson) Tj ETQq1 1 0.784314 rgBT /Ov 38, 3329-3340.	4.1	164
34	RESPONSE OF HUMAN ALVEOLAR MACROPHAGES TO ULTRAFINE, FINE, AND COARSE URBAN AIR POLLUTION PARTICLES. Experimental Lung Research, 2003, 29, 29-44.	1.2	162
35	Associations of Primary and Secondary Organic Aerosols With Airway and Systemic Inflammation in an Elderly Panel Cohort. Epidemiology, 2010, 21, 892-902.	2.7	160
36	Versatile aerosol concentration enrichment system (VACES) for simultaneous in vivo and in vitro evaluation of toxic effects of ultrafine, fine and coarse ambient particles Part I: Development and laboratory characterization. Journal of Aerosol Science, 2001, 32, 1281-1297.	3.8	158

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37	Seasonal Trends of Concentration and Size Distribution of Ultrafine Particles Near Major Highways in Los Angeles Special Issue ofAerosol Science and Technologyon Findings from the Fine Particulate Matter Supersites Program. Aerosol Science and Technology, 2004, 38, 5-13.	3.1	157
38	Global Perspective on the Oxidative Potential of Airborne Particulate Matter: A Synthesis of Research Findings. Environmental Science & Technology, 2014, 48, 7576-7583.	10.0	157
39	Penetration of freeway ultrafine particles into indoor environments. Journal of Aerosol Science, 2005, 36, 303-322.	3.8	155
40	Physicochemical and Toxicological Profiles of Particulate Matter in Los Angeles during the October 2007 Southern California Wildfires. Environmental Science & Technology, 2009, 43, 954-960.	10.0	154
41	Oxidative Potential of Semi-Volatile and Non Volatile Particulate Matter (PM) from Heavy-Duty Vehicles Retrofitted with Emission Control Technologies. Environmental Science & Technology, 2009, 43, 3905-3912.	10.0	151
42	Increased Biomass Burning Due to the Economic Crisis in Greece and Its Adverse Impact on Wintertime Air Quality in Thessaloniki. Environmental Science & Technology, 2013, 47, 13313-13320.	10.0	150
43	Controlled Exposures of Healthy and Asthmatic Volunteers to Concentrated Ambient Fine Particles in Los Angeles. Inhalation Toxicology, 2003, 15, 305-325.	1.6	136
44	Personal and Ambient Air Pollution Exposures and Lung Function Decrements in Children with Asthma. Environmental Health Perspectives, 2008, 116, 550-558.	6.0	136
45	Nrf2-regulated phase II enzymes are induced by chronic ambient nanoparticle exposure in young mice with age-related impairments. Free Radical Biology and Medicine, 2012, 52, 2038-2046.	2.9	136
46	Association of Biomarkers of Systemic Inflammation with Organic Components and Source Tracers in Quasi-Ultrafine Particles. Environmental Health Perspectives, 2010, 118, 756-762.	6.0	133
47	Fine, ultrafine and nanoparticle trace element compositions near a major freeway with a high heavy-duty diesel fraction. Atmospheric Environment, 2007, 41, 5684-5696.	4.1	132
48	Source-specific lung cancer risk assessment of ambient PM2.5-bound polycyclic aromatic hydrocarbons (PAHs) in central Tehran. Environment International, 2018, 120, 321-332.	10.0	128
49	Nanoscale Particulate Matter from Urban Traffic Rapidly Induces Oxidative Stress and Inflammation in Olfactory Epithelium with Concomitant Effects on Brain. Environmental Health Perspectives, 2016, 124, 1537-1546.	6.0	127
50	Source apportionment of ambient PM2.5 in two locations in central Tehran using the Positive Matrix Factorization (PMF) model. Science of the Total Environment, 2018, 628-629, 672-686.	8.0	125
51	Size Distribution and Diurnal and Seasonal Trends of Ultrafine Particles in Source and Receptor Sites of the Los Angeles Basin. Journal of the Air and Waste Management Association, 2002, 52, 297-307.	1.9	120
52	Long-term source apportionment of ambient fine particulate matter (PM 2.5) in the Los Angeles Basin: A focus on emissions reduction from vehicular sources. Environmental Pollution, 2014, 193, 54-64.	7.5	120
53	Indoor/outdoor relationship and chemical composition of fine and coarse particles in the southern California deserts. Atmospheric Environment, 2002, 36, 1099-1110.	4.1	119
54	Versatile aerosol concentration enrichment system (VACES) for simultaneous in vivo and in vitro evaluation of toxic effects of ultrafine, fine and coarse ambient particles Part II: Field evaluation. Journal of Aerosol Science, 2001, 32, 1299-1314.	3.8	114

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55	Air quality impacts of the October 2003 Southern California wildfires. Journal of Geophysical Research, 2005, 110, .	3.3	112
56	Size-Resolved Emissions of Organic Tracers from Light- and Heavy-Duty Vehicles Measured in a California Roadway Tunnel. Environmental Science & Technology, 2006, 40, 4109-4118.	10.0	112
57	Determination of metal-based hydroxyl radical generating capacity of ambient and diesel exhaust particles. Inhalation Toxicology, 2009, 21, 731-738.	1.6	112
58	The U.S. Environmental Protection Agency Particulate Matter Health Effects Research Centers Program: a midcourse report of status, progress, and plans.. Environmental Health Perspectives, 2003, 111, 1074-1092.	6.0	111
59	Particulate metals and organic compounds from electronic and tobacco-containing cigarettes: comparison of emission rates and secondhand exposure. Environmental Sciences: Processes and Impacts, 2014, 16, 2259-2267.	3.5	110
60	Ultrafine particles and PM2.5 in the air of cities around the world: Are they representative of each other?. Environment International, 2019, 129, 118-135.	10.0	110
61	Determination of Particle Effective Density in Urban Environments with a Differential Mobility Analyzer and Aerosol Particle Mass Analyzer. Aerosol Science and Technology, 2006, 40, 709-723.	3.1	107
62	Air-pollutant chemicals and oxidized lipids exhibit genome-wide synergistic effects on endothelial cells. Genome Biology, 2007, 8, R149.	9.6	107
63	Toll-like receptor 4 in glial inflammatory responses to air pollution in vitro and in vivo. Journal of Neuroinflammation, 2017, 14, 84.	7.2	107
64	Daily Variation in Chemical Characteristics of Urban Ultrafine Aerosols and Inference of Their Sources. Environmental Science & Technology, 2007, 41, 6000-6006.	10.0	106
65	Prenatal Exposure to Urban Air Nanoparticles in Mice Causes Altered Neuronal Differentiation and Depression-Like Responses. PLoS ONE, 2013, 8, e64128.	2.5	103
66	Emission factors of PM species based on freeway measurements and comparison with tunnel and dynamometer studies. Atmospheric Environment, 2008, 42, 3099-3114.	4.1	101
67	Chemical speciation of PM emissions from heavy-duty diesel vehicles equipped with diesel particulate filter (DPF) and selective catalytic reduction (SCR) retrofits. Atmospheric Environment, 2009, 43, 1917-1925.	4.1	101
68	Macrophage reactive oxygen species activity of water-soluble and water-insoluble fractions of ambient coarse, PM2.5 and ultrafine particulate matter (PM) in Los Angeles. Atmospheric Environment, 2013, 77, 301-310.	4.1	99
69	Effect of Exposure to Atmospheric Ultrafine Particles on Production of Free Fatty Acids and Lipid Metabolites in the Mouse Small Intestine. Environmental Health Perspectives, 2015, 123, 34-41.	6.0	98
70	Size-Fractionated Measurements of Ambient Ultrafine Particle Chemical Composition in Los Angeles Using the NanoMOUDI. Environmental Science & Technology, 2005, 39, 932-944.	10.0	96
71	Exposures of Healthy and Asthmatic Volunteers to Concentrated Ambient Ultrafine Particles in Los Angeles. Inhalation Toxicology, 2008, 20, 533-545.	1.6	96
72	Source apportionment of ambient particle number concentrations in central Los Angeles using positive matrix factorization (PMF). Atmospheric Chemistry and Physics, 2016, 16, 4849-4866.	4.9	96

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73	Source apportionments of PM2.5 organic carbon using molecular marker Positive Matrix Factorization and comparison of results from different receptor models. Atmospheric Environment, 2013, 73, 51-61.	4.1	95
74	Ambient ultrafine particles alter lipid metabolism and HDL anti-oxidant capacity in LDLR-null mice. Journal of Lipid Research, 2013, 54, 1608-1615.	4.2	95
75	Particle Concentration and Characteristics near a Major Freeway with Heavy-Duty Diesel Traffic. Environmental Science & Technology, 2007, 41, 2223-2230.	10.0	94
76	Seasonal variation of the particle size distribution of polycyclic aromatic hydrocarbons and of major aerosol species in Claremont, California. Atmospheric Environment, 2004, 38, 3241-3251.	4.1	93
77	Physical properties of particulate matter (PM) from late model heavy-duty diesel vehicles operating with advanced PM and NOx emission control technologies. Atmospheric Environment, 2008, 42, 5622-5634.	4.1	92
78	Characterization, sources and redox activity of fine and coarse particulate matter in Milan, Italy. Atmospheric Environment, 2012, 49, 130-141.	4.1	91
79	Traffic-related air pollution impact on mouse brain accelerates myelin and neuritic aging changes with specificity for CA1 neurons. Neurobiology of Aging, 2017, 53, 48-58.	3.1	91
80	Evolution of particle number distribution near roadways. Part III: Traffic analysis and on-road size resolved particulate emission factors. Atmospheric Environment, 2005, 39, 4155-4166.	4.1	90
81	Roadside measurements of size-segregated particulate organic compounds near gasoline and diesel-dominated freeways in Los Angeles, CA. Atmospheric Environment, 2007, 41, 4653-4671.	4.1	90
82	Contribution of transition metals in the reactive oxygen species activity of PM emissions from retrofitted heavy-duty vehicles. Atmospheric Environment, 2010, 44, 5165-5173.	4.1	88
83	Associations of oxidative stress and inflammatory biomarkers with chemically-characterized air pollutant exposures in an elderly cohort. Environmental Research, 2016, 150, 306-319.	7.5	88
84	Ultrafine particles from diesel vehicle emissions at different driving cycles induce differential vascular pro-inflammatory responses: Implication of chemical components and NF-Î¹B signaling. Particle and Fibre Toxicology, 2010, 7, 6.	6.2	87
85	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-L383.	2.9	87
86	Particulate Air Pollution, Ambulatory Heart Rate Variability, and Cardiac Arrhythmia in Retirement Community Residents with Coronary Artery Disease. Environmental Health Perspectives, 2013, 121, 1135-1141.	6.0	86
87	Seasonal and spatial variation in dithiothreitol (DTT) activity of quasi-ultrafine particles in the Los Angeles Basin and its association with chemical species. Journal of Environmental Science and Health - Part A Toxic/Hazardous Substances and Environmental Engineering, 2014, 49, 441-451.	1.7	85
88	Altered Heart-Rate Variability in Asthmatic and Healthy Volunteers Exposed to Concentrated Ambient Coarse Particles. Inhalation Toxicology, 2004, 16, 335-343.	1.6	84
89	Evaluation of the Measurement Performance of the Scanning Mobility Particle Sizer and Aerodynamic Particle Sizer. Aerosol Science and Technology, 1999, 30, 84-92.	3.1	83
90	Seasonal and spatial variability of the size-resolved chemical composition of particulate matter (PM10) in the Los Angeles Basin. Journal of Geophysical Research, 2005, 110, .	3.3	83

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91	Indoor/Outdoor Relationships, Trends, and Carbonaceous Content of Fine Particulate Matter in Retirement Homes of the Los Angeles Basin. Journal of the Air and Waste Management Association, 2007, 57, 366-379.	1.9	83
92	Oxidative potential and chemical speciation of size-resolved particulate matter (PM) at near-freeway and urban background sites in the greater Beirut area. Science of the Total Environment, 2014, 470-471, 417-426.	8.0	83
93	A high flow rate, very low pressure drop impactor for inertial separation of ultrafine from accumulation mode particles. Journal of Aerosol Science, 2002, 33, 735-752.	3.8	82
94	Seasonal and spatial variations of sources of fine and quasi-ultrafine particulate matter in neighborhoods near the Los Angelesâ€“Long Beach harbor. Atmospheric Environment, 2008, 42, 7317-7328.	4.1	82
95	Ultrafine particles from diesel engines induce vascular oxidative stress via JNK activation. Free Radical Biology and Medicine, 2009, 46, 775-782.	2.9	81
96	Field evaluation of a modified DataRAM MIE scattering monitor for real-time PM2.5 mass concentration measurements. Atmospheric Environment, 2000, 34, 4829-4838.	4.1	78
97	Field evaluation of a personal cascade impactor sampler (PCIS). Atmospheric Environment, 2003, 37, 4781-4793.	4.1	78
98	Reduction of nitrate losses from filter and impactor samplers by means of concentration enrichment. Atmospheric Environment, 2000, 34, 85-98.	4.1	77
99	Vehicle and Driving Characteristics That Influence In-Cabin Particle Number Concentrations. Environmental Science & Technology, 2011, 45, 8691-8697.	10.0	77
100	Fine particle concentrators for inhalation exposuresâ€"effect of particle size and composition. Journal of Aerosol Science, 1997, 28, 1057-1071.	3.8	76
101	Spatial and Temporal Variability of Coarse (PM_{10â^'2.5}) Particulate Matter Concentrations in the Los Angeles Area. Aerosol Science and Technology, 2010, 44, 514-525.	3.1	76
102	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, 6769-6776.	10.0	76
103	Effects of Sampling Artifacts and Operating Parameters on the Performance of a Semicontinuous Particulate Elemental Carbon/Organic Carbon Monitor. Environmental Science & Technology, 2006, 40, 945-954.	10.0	75
104	Particulate Matter Induced Enhancement of Inflammatory Markers in the Brains of Apolipoprotein E Knockout Mice. Journal of Nanoscience and Nanotechnology, 2009, 9, 5099-5104.	0.9	74
105	Vehicular exhaust particles promote allergic airway inflammation through an aryl hydrocarbon receptorâ€"notch signaling cascade. Journal of Allergy and Clinical Immunology, 2015, 136, 441-453.	2.9	74
106	DEVELOPMENT AND EVALUATION OF A PROTOTYPE ULTRAFINE PARTICLE CONCENTRATOR. Journal of Aerosol Science, 1999, 30, 1001-1017.	3.8	73
107	Nanoparticle effects on rat alveolar epithelial cell monolayer barrier properties. Toxicology in Vitro, 2007, 21, 1373-1381.	2.4	73
108	Intra-community spatial variation of size-fractionated PM mass, OC, EC, and trace elements in the Long Beach, CA area. Atmospheric Environment, 2008, 42, 5374-5389.	4.1	73

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109	Linking in-vehicle ultrafine particle exposures to on-road concentrations. Atmospheric Environment, 2012, 59, 578-586.	4.1	73
110	Application of a Diffusion Charger for the Measurement of Particle Surface Concentration in Different Environments. Aerosol Science and Technology, 2007, 41, 571-580.	3.1	72
111	Continuous and Semicontinuous Monitoring Techniques for Particulate Matter Mass and Chemical Components: A Synthesis of Findings from EPAâ€™s Particulate Matter Supersites Program and Related Studies. Journal of the Air and Waste Management Association, 2008, 58, 164-195.	1.9	72
112	Toxicity of aged gasoline exhaust particles to normal and diseased airway epithelia. Scientific Reports, 2015, 5, 11801.	3.3	71
113	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.	2.1	71
114	Physicochemical and oxidative characteristics of semi-volatile components of quasi-ultrafine particles in an urban atmosphere. Atmospheric Environment, 2011, 45, 1025-1033.	4.1	70
115	Effects of air pollution on mitochondrial function, mitochondrial DNA methylation, and mitochondrial peptide expression. Mitochondrion, 2019, 46, 22-29.	3.4	70
116	A regulatory T cell Notch4â€“GDF15 axis licenses tissue inflammation in asthma. Nature Immunology, 2020, 21, 1359-1370.	14.5	70
117	Inhalation of Concentrated Ambient Particulate Matter Near a Heavily Trafficked Road Stimulates Antigen-Induced Airway Responses in Mice. Inhalation Toxicology, 2007, 19, 117-126.	1.6	69
118	Predictive Model for Vehicle Air Exchange Rates Based on a Large, Representative Sample. Environmental Science & Technology, 2011, 45, 3569-3575.	10.0	69
119	Respiratory Responses to Exposures With Fine Particulates and Nitrogen Dioxide in the Elderly With and Without COPD. Inhalation Toxicology, 2005, 17, 123-132.	1.6	68
120	Exceeding of Henry's Law by Hydrogen Peroxide Associated with Urban Aerosols. Environmental Science & Technology, 2006, 40, 4859-4866.	10.0	67
121	A Methodology for Measuring Size-Dependent Chemical Composition of Ultrafine Particles. Aerosol Science and Technology, 2002, 36, 748-762.	3.1	66
122	Evaluation of the SMPSâ€“APS system as a continuous monitor for measuring PM2.5, PM10 and coarse (PM2.5â˜’10) concentrations. Atmospheric Environment, 2002, 36, 3939-3950.	4.1	66
123	Ambient Ultrafine Particle Ingestion Alters Gut Microbiota in Association with Increased Atherogenic Lipid Metabolites. Scientific Reports, 2017, 7, 42906.	3.3	66
124	Development of a Wet-Chemical Method for the Speciation of Iron in Atmospheric Aerosols. Environmental Science & Technology, 2006, 40, 2346-2351.	10.0	65
125	Electrocardiographic ST-Segment Depression and Exposure to Traffic€Related Aerosols in Elderly Subjects with Coronary Artery Disease. Environmental Health Perspectives, 2011, 119, 196-202.	6.0	65
126	Impact of roadside noise barriers on particle size distributions and pollutants concentrations near freeways. Atmospheric Environment, 2010, 44, 3118-3127.	4.1	64

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127	Emission rates of particle number, mass and black carbon by the Los Angeles International Airport (LAX) and its impact on air quality in Los Angeles. Atmospheric Environment, 2017, 151, 82-93.	4.1	64
128	Toxicity of urban air pollution particulate matter in developing and adult mouse brain: Comparison of total and filter-eluted nanoparticles. Environment International, 2020, 136, 105510.	10.0	64
129	Source apportionment and organic compound characterization of ambient ultrafine particulate matter (PM) in the Los Angeles Basin. Atmospheric Environment, 2013, 79, 529-539.	4.1	63
130	Experimental studies on particle impaction and bounce: effects of substrate design and material. Atmospheric Environment, 1999, 33, 2313-2322.	4.1	62
131	Size-Segregated Inorganic and Organic Components of PM in the Communities of the Los Angeles Harbor. Aerosol Science and Technology, 2009, 43, 145-160.	3.1	62
132	Seasonal and spatial variation of trace elements and metals in quasi-ultrafine (PM0.25) particles in the Los Angeles metropolitan area and characterization of their sources. Environmental Pollution, 2013, 181, 14-23.	7.5	62
133	Chemical characterization and source apportionment of indoor and outdoor fine particulate matter (PM2.5) in retirement communities of the Los Angeles Basin. Science of the Total Environment, 2014, 490, 528-537.	8.0	62
134	Physical and Chemical Characteristics and Volatility of PM in the Proximity of a Light-Duty Vehicle Freeway. Aerosol Science and Technology, 2005, 39, 347-357.	3.1	61
135	Diurnal and seasonal characteristics of particle volatility and chemical composition in the vicinity of a light-duty vehicle freeway. Atmospheric Environment, 2005, 39, 7154-7166.	4.1	61
136	Unipolar Charging of Fine and Ultra-Fine Particles Using Carbon Fiber Ionizers. Aerosol Science and Technology, 2008, 42, 793-800.	3.1	61
137	Secondary Particulate Matter in the United States: Insights from the Particulate Matter Supersites Program and Related Studies. Journal of the Air and Waste Management Association, 2008, 58, 234-253.	1.9	60
138	Urban air pollutants reduce synaptic function of <scp>CA</scp>1 neurons via an <scp>NMDA</scp>/NÈ® pathway in vitro. Journal of Neurochemistry, 2013, 127, 509-519.	3.9	60
139	In Vivo and In Vitro Models to Test the Hypothesis of Particle-Induced Effects on Cardiac Function and Arrhythmias. Cardiovascular Toxicology, 2006, 6, 69-78.	2.7	59
140	Fine and ultrafine particulate organic carbon in the Los Angeles basin: Trends in sources and composition. Science of the Total Environment, 2016, 541, 1083-1096.	8.0	59
141	Source apportionment of black carbon (BC) from fossil fuel and biomass burning in metropolitan Milan, Italy. Atmospheric Environment, 2019, 203, 252-261.	4.1	59
142	Urban traffic-derived nanoparticulate matter reduces neurite outgrowth via TNFÎ± in vitro. Journal of Neuroinflammation, 2016, 13, 19.	7.2	58
143	Volatility of indoor and outdoor ultrafine particulate matter near a freeway. Journal of Aerosol Science, 2005, 36, 291-302.	3.8	57
144	Diurnal Trends in Oxidative Potential of Coarse Particulate Matter in the Los Angeles Basin and Their Relation to Sources and Chemical Composition. Environmental Science & Technology, 2012, 46, 3779-3787.	10.0	57

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145	Associations between microvascular function and short-term exposure to traffic-related air pollution and particulate matter oxidative potential. Environmental Health, 2016, 15, 81.	4.0	57
146	Daily variation in the properties of urban ultrafine aerosolâ€"Part I: Physical characterization and volatility. Atmospheric Environment, 2007, 41, 8633-8646.	4.1	55
147	Inferring the Sources of Fine and Ultrafine Particulate Matter at Downwind Receptor Sites in the Los Angeles Basin Using Multiple Continuous Measurements Special Issue ofAerosol Science and Technologyon Findings from the Fine Particulate Matter Supersites Program. Aerosol Science and Technology, 2004, 38, 182-195.	3.1	54
148	Impact of primary and secondary organic sources on the oxidative potential of quasi-ultrafine particles (PM0.25) at three contrasting locations in the Los Angeles Basin. Atmospheric Environment, 2015, 120, 286-296.	4.1	54
149	Seasonal and Spatial Coarse Particle Elemental Concentrations in the Los Angeles Area. Aerosol Science and Technology, 2011, 45, 949-963.	3.1	53
150	Seasonal and spatial variability in chemical composition and mass closure of ambient ultrafine particles in the megacity of Los Angeles. Environmental Sciences: Processes and Impacts, 2013, 15, 283-295.	3.5	53
151	Associations of Source-Specific Fine Particulate Matter With Emergency Department Visits in California. American Journal of Epidemiology, 2016, 184, 450-459.	3.4	53
152	Nighttime aqueous-phase secondary organic aerosols in Los Angeles and its implication for fine particulate matter composition and oxidative potential. Atmospheric Environment, 2016, 133, 112-122.	4.1	53
153	Oxidative potential of on-road fine particulate matter (PM 2.5) measured on major freeways of Los Angeles, CA, and a 10-year comparison with earlier roadside studies. Atmospheric Environment, 2017, 148, 102-114.	4.1	53
154	Inhalation of Concentrated Ambient Particulate Matter near a Heavily Trafficked Road Stimulates Antigen-Induced Airway Responses in Mice. Journal of the Air and Waste Management Association, 2005, 55, 1277-1288.	1.9	52
155	On-road emission factors of PM pollutants for light-duty vehicles (LDVs) based on urban street driving conditions. Atmospheric Environment, 2012, 61, 378-386.	4.1	52
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