

# Size-Fractionated Measurements of Ambient Ultrafine Particles in Los Angeles Using the NanoMOUDI

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Citation Report

#	ARTICLE	IF	CITATIONS
1	Exposure Assessment for Atmospheric Ultrafine Particles (UFPs) and Implications in Epidemiologic Research. <i>Environmental Health Perspectives</i> , 2005, 113, 947-955.	6.0	522
2	Continuous Collection of Soluble Atmospheric Particles with a Wetted Hydrophilic Filter. <i>Analytical Chemistry</i> , 2005, 77, 8031-8040.	6.5	20
3	Determination of Particle Effective Density in Urban Environments with a Differential Mobility Analyzer and Aerosol Particle Mass Analyzer. <i>Aerosol Science and Technology</i> , 2006, 40, 709-723.	3.1	107
4	Investigating a Liquid-Based Method for Online Organic Carbon Detection in Atmospheric Particles. <i>Aerosol Science and Technology</i> , 2007, 41, 1117-1127.	3.1	56
5	Simultaneous Measurement of the Effective Density and Chemical Composition of Ambient Aerosol Particles. <i>Environmental Science &amp; Technology</i> , 2007, 41, 1303-1309.	10.0	90
6	Daily Variation in Chemical Characteristics of Urban Ultrafine Aerosols and Inference of Their Sources. <i>Environmental Science &amp; Technology</i> , 2007, 41, 6000-6006.	10.0	106
7	Real-Time, Single-Particle Measurements of Oligomers in Aged Ambient Aerosol Particles. <i>Environmental Science &amp; Technology</i> , 2007, 41, 5439-5446.	10.0	162
8	FINE, ULTRAFINE AND NANOPARTICLE TRACE ORGANIC COMPOSITIONS NEAR A MAJOR FREEWAY WITH A HIGH HEAVY DUTY DIESEL FRACTION. , 2007, , .		0
9	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.	4.1	132
10	Daily variation in the properties of urban ultrafine aerosol—Part I: Physical characterization and volatility. <i>Atmospheric Environment</i> , 2007, 41, 8633-8646.	4.1	55
11	Measurements of ultrafine particle concentrations and size distribution in an iron foundry. <i>Journal of Hazardous Materials</i> , 2008, 158, 124-130.	12.4	41
12	Ambient nano and ultrafine particles from motor vehicle emissions: Characteristics, ambient processing and implications on human exposure. <i>Atmospheric Environment</i> , 2008, 42, 8113-8138.	4.1	531
13	Secondary Particulate Matter in the United States: Insights from the Particulate Matter Supersites Program and Related Studies. <i>Journal of the Air and Waste Management Association</i> , 2008, 58, 234-253.	1.9	60
14	Exposures of Healthy and Asthmatic Volunteers to Concentrated Ambient Ultrafine Particles in Los Angeles. <i>Inhalation Toxicology</i> , 2008, 20, 533-545.	1.6	96
15	Detection of Ambient Ultrafine Aerosols by Single Particle Techniques During the SOAR 2005 Campaign. <i>Aerosol Science and Technology</i> , 2008, 42, 674-684.	3.1	18
16	Transport of Atmospheric Fine Particulate Matter: Part 2—Findings from Recent Field Programs on the Intraurban Variability in Fine Particulate Matter. <i>Journal of the Air and Waste Management Association</i> , 2008, 58, 196-215.	1.9	27
17	Synopsis of the Temporal Variation of Particulate Matter Composition and Size. <i>Journal of the Air and Waste Management Association</i> , 2008, 58, 216-233.	1.9	24
18	Key Scientific Findings and Policy- and Health-Relevant Insights from the U.S. Environmental Protection Agency's Particulate Matter Supersites Program and Related Studies: An Integration and Synthesis of Results. <i>Journal of the Air and Waste Management Association</i> , 2008, 58, 3-92.	0.1	29

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19	The U.S. Environmental Protection Agency's Particulate Matter Supersites Program: An Integrated Synthesis of Scientific Findings and Policy- and Health-Relevant Insights. <i>Journal of the Air and Waste Management Association</i> , 2008, 58, s-1-s-92.	1.9	7
21	Nanoparticle formation in the exhaust of vehicles running on ultra-low sulfur fuel. <i>Atmospheric Chemistry and Physics</i> , 2008, 8, 4729-4739.	4.9	32
22	Particulate Matter (PM) Research Centers (1999-2005) and the Role of Interdisciplinary Center-Based Research. <i>Environmental Health Perspectives</i> , 2009, 117, 167-174.	6.0	17
23	JEM Spotlight: Environmental monitoring of airborne nanoparticles. <i>Journal of Environmental Monitoring</i> , 2009, 11, 1758.	2.1	53
24	Size-Segregated Inorganic and Organic Components of PM in the Communities of the Los Angeles Harbor. <i>Aerosol Science and Technology</i> , 2009, 43, 145-160.	3.1	62
25	Redox activity of urban quasi-ultrafine particles from primary and secondary sources. <i>Atmospheric Environment</i> , 2009, 43, 6360-6368.	4.1	201
26	Associations between Personal, Indoor, and Residential Outdoor Pollutant Concentrations: Implications for Exposure Assessment to Size-Fractionated Particulate Matter. <i>Journal of the Air and Waste Management Association</i> , 2009, 59, 392-404.	1.9	24
27	A novel bipolar charger for submicron aerosol particles using carbon fiber ionizers. <i>Journal of Aerosol Science</i> , 2009, 40, 285-294.	3.8	38
28	Underestimation of sulfate concentration in PM <sub>2.5</sub> using a semi-continuous particle instrument based on ion chromatography. <i>Journal of Environmental Monitoring</i> , 2009, 11, 1292.	2.1	17
29	Current Understanding of Ultrafine Particulate Matter Emitted from Mobile Sources. <i>Journal of the Air and Waste Management Association</i> , 2009, 59, 3-17.	1.9	45
30	Nanomedicine in pulmonary delivery. <i>International Journal of Nanomedicine</i> , 2009, 4, 299.	6.7	378
31	Chemical Mass Closure and Chemical Characteristics of Ambient Ultrafine Particles and other PM Fractions. <i>Aerosol Science and Technology</i> , 2010, 44, 713-723.	3.1	49
32	Aerosols and environmental pollution. <i>Die Naturwissenschaften</i> , 2010, 97, 117-131.	1.6	68
33	Organonitrate group concentrations in submicron particles with high nitrate and organic fractions in coastal southern California. <i>Atmospheric Environment</i> , 2010, 44, 1970-1979.	4.1	137
34	Simulation of in situ ultrafine particle formation in the eastern United States using PMCAMx-UF. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	60
35	Approach for Measuring the Chemistry of Individual Particles in the Size Range Critical for Cloud Formation. <i>Analytical Chemistry</i> , 2011, 83, 2271-2278.	6.5	16
36	Sulfate formation in atmospheric ultrafine particles at Canadian inland and coastal rural environments. <i>Journal of Geophysical Research</i> , 2011, 116, .	3.3	13
37	Air Pollution and the Pulmonary Vasculature. , 2011, , 963-977.		0

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38	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.	3.8	8
39	Correlation analysis of noise and ultrafine particle counts in a street canyon. <i>Science of the Total Environment</i> , 2011, 409, 564-572.	8.0	57
40	Physicochemical and oxidative characteristics of semi-volatile components of quasi-ultrafine particles in an urban atmosphere. <i>Atmospheric Environment</i> , 2011, 45, 1025-1033.	4.1	70
41	Measurements of hygroscopicity and volatility of atmospheric ultrafine particles in the rural Pearl River Delta area of China. <i>Atmospheric Environment</i> , 2011, 45, 4661-4670.	4.1	9
42	Mass size distributions of soluble sulfate, nitrate and ammonium in the Madrid urban aerosol. <i>Atmospheric Environment</i> , 2011, 45, 4966-4976.	4.1	35
43	Spatial distributions of ultrafine particles and their behavior and chemical composition in relation to roadside sources. <i>Atmospheric Environment</i> , 2011, 45, 6403-6413.	4.1	11
44	Sampling and characterization of nanoaerosols in different environments. <i>TrAC - Trends in Analytical Chemistry</i> , 2011, 30, 554-567.	11.4	12
45	Differences of chemical species and their ratios between fine and ultrafine particles in the roadside environment. <i>Atmospheric Environment</i> , 2012, 62, 172-179.	4.1	14
46	Seasonal and spatial variability in chemical composition and mass closure of ambient ultrafine particles in the megacity of Los Angeles. <i>Environmental Sciences: Processes and Impacts</i> , 2013, 15, 283-295.	3.5	53
47	Seasonal and spatial variation of trace elements and metals in quasi-ultrafine (PM <sub>0.25</sub> ) particles in the Los Angeles metropolitan area and characterization of their sources. <i>Environmental Pollution</i> , 2013, 181, 14-23.	7.5	62
48	Seasonal and spatial variation in reactive oxygen species activity of quasi-ultrafine particles (PM <sub>0.25</sub> ) in the Los Angeles metropolitan area and its association with chemical composition. <i>Atmospheric Environment</i> , 2013, 79, 566-575.	4.1	41
49	Source apportionment and organic compound characterization of ambient ultrafine particulate matter (PM) in the Los Angeles Basin. <i>Atmospheric Environment</i> , 2013, 79, 529-539.	4.1	63
50	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.	4.2	95
51	Urban air pollutants reduce synaptic function of CA1 neurons via an NMDA/N <sup>o</sup> pathway <i>in vitro</i> . <i>Journal of Neurochemistry</i> , 2013, 127, 509-519.	3.9	60
52	Nanoparticles in Drug Delivery Systems. , 2013, , 17-38.		3
53	Characterization of Inhalable, Thoracic, and Respirable Fractions and Ultrafine Particle Exposure During Grinding, Brazing, and Welding Activities in a Mechanical Engineering Factory. <i>Journal of Occupational and Environmental Medicine</i> , 2013, 55, 430-445.	1.7	18
54	Organic and elemental carbon associated to PM <sub>10</sub> and PM <sub>2.5</sub> at urban sites of northern Greece. <i>Environmental Science and Pollution Research</i> , 2014, 21, 1769-1785.	5.3	89
55	Seasonal and spatial variation in dithiothreitol (DTT) activity of quasi-ultrafine particles in the Los Angeles Basin and its association with chemical species. <i>Journal of Environmental Science and Health - Part A Toxic/Hazardous Substances and Environmental Engineering</i> , 2014, 49, 441-451.	1.7	85

#	ARTICLE	IF	CITATIONS
56	Prediction of ultrafine particle number concentrations in urban environments by means of Gaussian process regression based on measurements of oxides of nitrogen. <i>Environmental Modelling and Software</i> , 2014, 61, 135-150.	4.5	25
57	The real-time method of assessing the contribution of individual sources on visibility degradation in Taichung. <i>Science of the Total Environment</i> , 2014, 497-498, 219-228.	8.0	19
58	Predicting Primary PM <sub>2.5</sub> and PM <sub>0.1</sub> Trace Composition for Epidemiological Studies in California. <i>Environmental Science &amp; Technology</i> , 2014, 48, 4971-4979.	10.0	56
59	Indoor/outdoor relationships and mass closure of quasi-ultrafine, accumulation and coarse particles in Barcelona schools. <i>Atmospheric Chemistry and Physics</i> , 2014, 14, 4459-4472.	4.9	59
60	Toxicity of aged gasoline exhaust particles to normal and diseased airway epithelia. <i>Scientific Reports</i> , 2015, 5, 11801.	3.3	71
61	Effect of Exposure to Atmospheric Ultrafine Particles on Production of Free Fatty Acids and Lipid Metabolites in the Mouse Small Intestine. <i>Environmental Health Perspectives</i> , 2015, 123, 34-41.	6.0	98
64	Carbonaceous Components in PM <sub>2.5</sub> and PM <sub>0.1</sub> with Online Measurements of Gaseous and Particulate Pollutants: Implication of Thermal-Optical Derived EC <sub>2</sub> Fraction as a Component of Ultrafine Particles in the Roadside Environment. <i>Aerosol and Air Quality Research</i> , 2016, 16, 361-372.	2.1	6
65	Nighttime aqueous-phase secondary organic aerosols in Los Angeles and its implication for fine particulate matter composition and oxidative potential. <i>Atmospheric Environment</i> , 2016, 133, 112-122.	4.1	53
66	Fine and ultrafine particulate organic carbon in the Los Angeles basin: Trends in sources and composition. <i>Science of the Total Environment</i> , 2016, 541, 1083-1096.	8.0	59
67	Toll-like receptor 4 in glial inflammatory responses to air pollution in vitro and in vivo. <i>Journal of Neuroinflammation</i> , 2017, 14, 84.	7.2	107
68	Seasonal trends, chemical speciation and source apportionment of fine PM in Tehran. <i>Atmospheric Environment</i> , 2017, 153, 70-82.	4.1	90
69	Measuring indoor particulate matter concentrations and size distributions at different time periods to identify potential sources in an office building in Taipei City. <i>Building and Environment</i> , 2017, 123, 446-457.	6.9	22
70	Characterization of particulate matter from diesel passenger cars tested on chassis dynamometers. <i>Journal of Environmental Sciences</i> , 2017, 54, 21-32.	6.1	24
71	Long-term particulate matter modeling for health effect studies in California – Part 2: Concentrations and sources of ultrafine organic aerosols. <i>Atmospheric Chemistry and Physics</i> , 2017, 17, 5379-5391.	4.9	26
72	Ultrafine Particle Exposure Reveals the Importance of FOXO1/Notch Activation Complex for Vascular Regeneration. <i>Antioxidants and Redox Signaling</i> , 2018, 28, 1209-1223.	5.4	16
73	Prenatal and early life exposure to air pollution induced hippocampal vascular leakage and impaired neurogenesis in association with behavioral deficits. <i>Translational Psychiatry</i> , 2018, 8, 261.	4.8	71
74	Advanced microscopy to elucidate cardiovascular injury and regeneration: 4D light-sheet imaging. <i>Progress in Biophysics and Molecular Biology</i> , 2018, 138, 105-115.	2.9	22
75	Ultrafine, fine and coarse airborne particle mass concentration in workplaces. <i>Atmospheric Pollution Research</i> , 2019, 10, 1685-1690.	3.8	19

#	ARTICLE	IF	CITATIONS
76	Effects of neonatal inhalation exposure to ultrafine carbon particles on pathology and behavioral outcomes in C57BL/6J mice. <i>Particle and Fibre Toxicology</i> , 2019, 16, 10.	6.2	19
77	Semi-volatile components of PM <sub>2.5</sub> in an urban environment: Volatility profiles and associated oxidative potential. <i>Atmospheric Environment</i> , 2020, 223, 117197.	4.1	29
78	Toxic trace metals in size-segregated fine particulate matter: Mass concentration, respiratory deposition, and risk assessment. <i>Environmental Pollution</i> , 2020, 266, 115242.	7.5	22
79	Chemical speciation of PM <sub>2.5</sub> in Tehran: Quantification of dust contribution and model validation. <i>Atmospheric Pollution Research</i> , 2020, 11, 1839-1846.	3.8	2
80	Measurements of Gross $\hat{I}^{\pm}$ - and $\hat{I}^2$ -Activities of Archived PM <sub>2.5</sub> and PM <sub>10</sub> Teflon Filter Samples. <i>Environmental Science &amp; Technology</i> , 2020, 54, 11780-11788.	10.0	10
81	Characteristics of Chemical Components in Fine Particles (PM <sub>2.5</sub> ) and Ultrafine Particles (PM <sub>0.1</sub> ) in Hanoi, Vietnam: a Case Study in Two Seasons with Different Humidity. <i>Water, Air, and Soil Pollution</i> , 2021, 232, 1.	2.4	19
82	Inhalation Exposure to Atmospheric Nanoparticles and Its Associated Impacts on Human Health: A Review. <i>Frontiers in Sustainable Cities</i> , 2021, 3, .	2.4	55
83	Chemical Characterization and Seasonality of Ambient Particles (PM <sub>2.5</sub> ) in the City Centre of Addis Ababa. <i>International Journal of Environmental Research and Public Health</i> , 2020, 17, 6998.	2.6	16
84	Review of Measurement Methods and Compositions for Ultrafine Particles. <i>Aerosol and Air Quality Research</i> , 2007, 7, 121-173.	2.1	58
85	Performance Test of an Inertial Fibrous Filter for Ultrafine Particle Collection and the Possible Sulfate Loss when Using an Aluminum Substrate with Ultrasonic Extraction of Ionic Compounds. <i>Aerosol and Air Quality Research</i> , 2010, 10, 616-624.	2.1	12
86	Characterizing Particulate Pollutants in an Enclosed Museum in Shanghai, China. <i>Aerosol and Air Quality Research</i> , 2015, 15, 319-328.	2.1	5
89	Adverse Reproductive Health Outcomes and Exposure to Gaseous and Particulate-Matter Air Pollution in Pregnant Women. <i>Research Report (health Effects Institute)</i> , 2016, 2016, 1-58.	1.6	21
90	Assessment of Traffic-Related Chemical Components in Ultrafine and Fine Particles in Urban Areas in Vietnam. <i>SSRN Electronic Journal</i> , 0, , .	0.4	0
91	A perspective on iron (Fe) in the atmosphere: air quality, climate, and the ocean. <i>Environmental Sciences: Processes and Impacts</i> , 2023, 25, 151-164.	3.5	3
92	Assessment of traffic-related chemical components in ultrafine and fine particles in urban areas in Vietnam. <i>Science of the Total Environment</i> , 2023, 858, 159869.	8.0	8
93	Development and performance evaluation of a two-stage cascade impactor equipped with gelatin filter substrates for the collection of multi-sized particulate matter. <i>Atmospheric Environment</i> , 2023, 294, 119493.	4.1	4
94	Concentrations and co-occurrence of 101 emerging and legacy organic pollutants in the ultrafine, fine and coarse fractions of airborne particulates associated with treatment of waste from electrical and electronic equipment. <i>Chemosphere</i> , 2023, 338, 139443.	8.2	3
95	Integrating 4-D light-sheet fluorescence microscopy and genetic zebrafish system to investigate ambient pollutants-mediated toxicity. <i>Science of the Total Environment</i> , 2023, 902, 165947.	8.0	0

#	ARTICLE	IF	CITATIONS
96	Effect of indoor and outdoor emission sources on the chemical compositions of PM2.5 and PM0.1 in residential and school buildings. Air Quality, Atmosphere and Health, 0, , .	3.3	0