

Thomas M Peters

List of Publications by Year in descending order

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103
papers

3,162
citations

136740

32
h-index

174990

52
g-index

106
all docs

106
docs citations

106
times ranked

3368
citing authors

#	ARTICLE	IF	CITATIONS
1	Inter-comparison of low-cost sensors for measuring the mass concentration of occupational aerosols. <i>Aerosol Science and Technology</i> , 2016, 50, 462-473.	1.5	146
2	Evaluation of the Alphasense optical particle counter (OPC-N2) and the Grimm portable aerosol spectrometer (PAS-1.108). <i>Aerosol Science and Technology</i> , 2016, 50, 1352-1365.	1.5	140
3	Concentration measurement and counting efficiency of the aerodynamic particle sizer 3321. <i>Journal of Aerosol Science</i> , 2003, 34, 627-634.	1.8	123
4	Single-Particle SEM-EDX Analysis of Iron-Containing Coarse Particulate Matter in an Urban Environment: Sources and Distribution of Iron within Cleveland, Ohio. <i>Environmental Science & Technology</i> , 2012, 46, 4331-4339.	4.6	119
5	Airborne Monitoring to Distinguish Engineered Nanomaterials from Incidental Particles for Environmental Health and Safety. <i>Journal of Occupational and Environmental Hygiene</i> , 2008, 6, 73-81.	0.4	112
6	Counting and particle transmission efficiency of the aerodynamic particle sizer. <i>Journal of Aerosol Science</i> , 2005, 36, 1400-1408.	1.8	106
7	Characterization and Control of Airborne Particles Emitted During Production of Epoxy/Carbon Nanotube Nanocomposites. <i>Journal of Occupational and Environmental Hygiene</i> , 2011, 8, 86-92.	0.4	106
8	Evaluation of consumer monitors to measure particulate matter. <i>Journal of Aerosol Science</i> , 2017, 107, 123-133.	1.8	95
9	Toxicity of copper oxide nanoparticles in lung epithelial cells exposed at the air-liquid interface compared with in vivo assessment. <i>Toxicology in Vitro</i> , 2015, 29, 502-511.	1.1	92
10	The Mapping of Fine and Ultrafine Particle Concentrations in an Engine Machining and Assembly Facility. <i>Annals of Occupational Hygiene</i> , 2005, 50, 249-57.	1.9	90
11	New Methods for Personal Exposure Monitoring for Airborne Particles. <i>Current Environmental Health Reports</i> , 2015, 2, 399-411.	3.2	90
12	Comparison of the Grimm 1.108 and 1.109 Portable Aerosol Spectrometer to the TSI 3321 Aerodynamic Particle Sizer for Dry Particles. <i>Annals of Occupational Hygiene</i> , 2006, 50, 843-50.	1.9	85
13	Ultrafine and Respirable Particles in an Automotive Grey Iron Foundry. <i>Annals of Occupational Hygiene</i> , 2007, 52, 9-21.	1.9	85
14	Scenarios and methods that induce protruding or released CNTs after degradation of nanocomposite materials. <i>Journal of Nanoparticle Research</i> , 2013, 15, 1504.	0.8	82
15	Relationships Among Particle Number, Surface Area, and Respirable Mass Concentrations in Automotive Engine Manufacturing. <i>Journal of Occupational and Environmental Hygiene</i> , 2008, 6, 19-31.	0.4	73
16	Federal Reference and Equivalent Methods for Measuring Fine Particulate Matter. <i>Aerosol Science and Technology</i> , 2001, 34, 457-464.	1.5	72
17	Validation of an in vitro exposure system for toxicity assessment of air-delivered nanomaterials. <i>Toxicology in Vitro</i> , 2013, 27, 164-173.	1.1	69
18	Satellite Remote Sensing for Developing Time and Space Resolved Estimates of Ambient Particulate in Cleveland, OH. <i>Aerosol Science and Technology</i> , 2011, 45, 1090-1108.	1.5	62

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19	Evaluation of low-cost electro-chemical sensors for environmental monitoring of ozone, nitrogen dioxide, and carbon monoxide. <i>Journal of Occupational and Environmental Hygiene</i> , 2018, 15, 87-98.	0.4	54
20	Characterization and Mapping of Very Fine Particles in an Engine Machining and Assembly Facility. <i>Journal of Occupational and Environmental Hygiene</i> , 2007, 4, 341-351.	0.4	52
21	A Task-Specific Assessment of Swine Worker Exposure to Airborne Dust. <i>Journal of Occupational and Environmental Hygiene</i> , 2009, 7, 7-13.	0.4	49
22	A Personal Nanoparticle Respiratory Deposition (NRD) Sampler. <i>Environmental Science & Technology</i> , 2011, 45, 6483-6490.	4.6	49
23	Evaluation of airborne particle emissions from commercial products containing carbon nanotubes. <i>Journal of Nanoparticle Research</i> , 2012, 14, 1.	0.8	47
24	Comparison of the DiSCmini Aerosol Monitor to a Handheld Condensation Particle Counter and a Scanning Mobility Particle Sizer for Submicrometer Sodium Chloride and Metal Aerosols. <i>Journal of Occupational and Environmental Hygiene</i> , 2013, 10, 250-258.	0.4	45
25	Chemical Characterization of Outdoor and Subway Fine (PM _{2.5} $\leq 1.0\ \mu\text{m}$) and Coarse (PM ₁₀ $\leq 2.5\ \mu\text{m}$) Particulate Matter in Seoul (Korea) by Computer-Controlled Scanning Electron Microscopy (CCSEM). <i>International Journal of Environmental Research and Public Health</i> , 2015, 12, 2090-2104.	1.2	45
26	Passive sampling to capture spatial variability in PM ₁₀ $\leq 2.5\ \mu\text{m}$. <i>Atmospheric Environment</i> , 2008, 42, 746-756.	1.9	44
27	Passive measurement of coarse particulate matter. <i>Journal of Aerosol Science</i> , 2008, 39, 156-167.	1.8	44
28	Comparison and Combination of Aerosol Size Distributions Measured with a Low Pressure Impactor, Differential Mobility Particle Sizer, Electrical Aerosol Analyzer, and Aerodynamic Particle Sizer. <i>Aerosol Science and Technology</i> , 1993, 19, 396-405.	1.5	41
29	Design and Calibration of the EPA PM _{2.5} Well Impactor Ninety-Six (WINS). <i>Aerosol Science and Technology</i> , 2001, 34, 389-397.	1.5	41
30	Low-Cost, Distributed Environmental Monitors for Factory Worker Health. <i>Sensors</i> , 2018, 18, 1411.	2.1	41
31	A Shelter to Protect a Passive Sampler for Coarse Particulate Matter, PM ₁₀ $\sim 2.5\ \mu\text{m}$. <i>Aerosol Science and Technology</i> , 2008, 42, 299-309.	1.5	38
32	Elevated Concentrations of Lead in Particulate Matter on the Neighborhood-Scale in Delhi, India As Determined by Single Particle Analysis. <i>Environmental Science & Technology</i> , 2016, 50, 4961-4970.	4.6	34
33	Particle Deposition in Industrial Duct Bends. <i>Annals of Occupational Hygiene</i> , 2004, 48, 483-90.	1.9	30
34	On the Modification of the Low Flow-Rate PM ₁₀ Dichotomous Sampler Inlet. <i>Aerosol Science and Technology</i> , 2001, 34, 407-415.	1.5	25
35	Use of a Condensation Particle Counter and an Optical Particle Counter to Assess the Number Concentration of Engineered Nanoparticles. <i>Journal of Occupational and Environmental Hygiene</i> , 2010, 7, 535-545.	0.4	24
36	Passive sampling to capture the spatial variability of coarse particles by composition in Cleveland, OH. <i>Atmospheric Environment</i> , 2015, 105, 61-69.	1.9	24

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37	Accurate quantification of TiO_2 nanoparticles collected on air filters using a microwave-assisted acid digestion method. <i>Journal of Occupational and Environmental Hygiene</i> , 2016, 13, 30-39.	0.4	22
38	Physicochemical properties of air discharge-generated manganese oxide nanoparticles: comparison to welding fumes. <i>Environmental Science: Nano</i> , 2018, 5, 696-707.	2.2	22
39	Wintertime Factors Affecting Contaminant Distribution in a Swine Farrowing Room. <i>Journal of Occupational and Environmental Hygiene</i> , 2013, 10, 287-296.	0.4	21
40	Use of Recirculating Ventilation With Dust Filtration to Improve Wintertime Air Quality in a Swine Farrowing Room. <i>Journal of Occupational and Environmental Hygiene</i> , 2015, 12, 635-646.	0.4	21
41	Mapping Occupational Hazards with a Multi-sensor Network in a Heavy-Vehicle Manufacturing Facility. <i>Annals of Work Exposures and Health</i> , 2019, 63, 280-293.	0.6	20
42	Distribution of Particle and Gas Concentrations in Swine Gestation Confined Animal Feeding Operations. <i>Annals of Occupational Hygiene</i> , 2012, 56, 1080-90.	1.9	19
43	Evaluation of a Low-Cost Aerosol Sensor to Assess Dust Concentrations in a Swine Building. <i>Annals of Occupational Hygiene</i> , 2016, 60, 597-607.	1.9	19
44	Measurement of particle deposition in industrial ducts. <i>Journal of Aerosol Science</i> , 2004, 35, 529-540.	1.8	18
45	Assessment of Swine Worker Exposures to Dust and Endotoxin during Hog Load-Out and Power Washing. <i>Annals of Occupational Hygiene</i> , 2012, 56, 843-51.	1.9	18
46	Sensor Selection to Improve Estimates of Particulate Matter Concentration from a Low-Cost Network. <i>Sensors</i> , 2018, 18, 3008.	2.1	18
47	Field Performance of PM _{2.5} Federal Reference Method Samplers. <i>Aerosol Science and Technology</i> , 2001, 34, 433-443.	1.5	17
48	Seasonal effects in land use regression models for nitrogen dioxide, coarse particulate matter, and gaseous ammonia in Cleveland, Ohio. <i>Atmospheric Pollution Research</i> , 2012, 3, 352-361.	1.8	17
49	Modeled Effectiveness of Ventilation with Contaminant Control Devices on Indoor Air Quality in a Swine Farrowing Facility. <i>Journal of Occupational and Environmental Hygiene</i> , 2014, 11, 434-449.	0.4	17
50	Toxicity assessment of air-delivered particle-bound polybrominated diphenyl ethers. <i>Toxicology</i> , 2014, 317, 31-39.	2.0	17
51	Identifying determinants of noise in a medical intensive care unit. <i>Journal of Occupational and Environmental Hygiene</i> , 2018, 15, 810-817.	0.4	17
52	Estimating personal exposures from a multi-hazard sensor network. <i>Journal of Exposure Science and Environmental Epidemiology</i> , 2020, 30, 1013-1022.	1.8	17
53	Use of the Aerodynamic Particle Sizer to Measure Ambient PM ₁₀ ≈ 2.5: The Coarse Fraction of PM ₁₀ . <i>Journal of the Air and Waste Management Association</i> , 2006, 56, 411-416.	0.9	16
54	Airborne Nanoparticle Concentrations in the Manufacturing of Polytetrafluoroethylene (PTFE) Apparel. <i>Journal of Occupational and Environmental Hygiene</i> , 2011, 8, 139-146.	0.4	16

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55	Simulation of air quality and cost to ventilate swine farrowing facilities in winter. <i>Computers and Electronics in Agriculture</i> , 2013, 98, 136-145.	3.7	16
56	Physicochemical Characterization of Simulated Welding Fumes from a Spark Discharge System. <i>Aerosol Science and Technology</i> , 2014, 48, 768-776.	1.5	16
57	Comparison of Respirable Mass Concentrations Measured by a Personal Dust Monitor and a Personal DataRAM to Gravimetric Measurements. <i>Annals of Work Exposures and Health</i> , 2018, 62, 62-71.	0.6	16
58	An inexpensive sensor for noise. <i>Journal of Occupational and Environmental Hygiene</i> , 2018, 15, 448-454.	0.4	16
59	Performance of Passive Samplers Analyzed by Computer-Controlled Scanning Electron Microscopy to Measure PM ₁₀ and PM _{2.5} . <i>Environmental Science & Technology</i> , 2016, 50, 7581-7589.	4.6	14
60	Sources of error and variability in particulate matter sensor network measurements. <i>Journal of Occupational and Environmental Hygiene</i> , 2019, 16, 564-574.	0.4	14
61	Particle Collection Efficiency for Nylon Mesh Screens. <i>Aerosol Science and Technology</i> , 2012, 46, 214-221.	1.5	13
62	Evaluation of PM _{2.5} Size Selectors Used in Speciation Samplers. <i>Aerosol Science and Technology</i> , 2001, 34, 422-429.	1.5	12
63	Efficacy of Paired Electrochemical Sensors for Measuring Ozone Concentrations. <i>Journal of Occupational and Environmental Hygiene</i> , 2019, 16, 179-190.	0.4	12
64	A Granular Bed for Use in a Nanoparticle Respiratory Deposition Sampler. <i>Aerosol Science and Technology</i> , 2015, 49, 179-187.	1.5	11
65	Size, composition, morphology, and health implications of airborne incidental metal-containing nanoparticles. <i>Journal of Occupational and Environmental Hygiene</i> , 2019, 16, 387-399.	0.4	11
66	Lung function of primary cooks using LPG or biomass and the effect of particulate matter on airway epithelial barrier integrity. <i>Environmental Research</i> , 2020, 189, 109888.	3.7	11
67	Influence of Analysis Methods on Interpretation of Hazard Maps. <i>Annals of Occupational Hygiene</i> , 2012, 57, 558-70.	1.9	10
68	Evaluation of a Shaker Dust Collector for Use in a Recirculating Ventilation System. <i>Journal of Occupational and Environmental Hygiene</i> , 2015, 12, D201-D210.	0.4	10
69	Porous polyurethane foam for use as a particle collection substrate in a nanoparticle respiratory deposition sampler. <i>Aerosol Science and Technology</i> , 2016, 50, 497-506.	1.5	10
70	Update to "Reconciliation of coarse mode sea-salt aerosol particle size measurements and parameterizations at a subtropical ocean receptor site" regarding the use of aerodynamic particle sizers in marine environments. <i>Journal of Geophysical Research</i> , 2007, 112, .	3.3	9
71	Assessment of Interventions to Improve Air Quality in a Livestock Building. <i>Journal of Agricultural Safety and Health</i> , 2017, 23, 247-263.	0.3	9
72	Analysis of Sampling Line Bias on Respirable Mass Measurement. <i>Journal of Occupational and Environmental Hygiene</i> , 2003, 18, 458-465.	0.5	8

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73	Reduction of Biomechanical and Welding Fume Exposures in Stud Welding. <i>Annals of Occupational Hygiene</i> , 2016, 60, 387-401.	1.9	8
74	Optimizing a Sensor Network with Data from Hazard Mapping Demonstrated in a Heavy-Vehicle Manufacturing Facility. <i>Annals of Work Exposures and Health</i> , 2018, 62, 547-558.	0.6	8
75	Submicrometer Aerosol Generator Development for the U.S. Environmental Protection Agency's Human Exposure Laboratory. <i>Aerosol Science and Technology</i> , 1994, 20, 51-61.	1.5	7
76	A polydisperse aerosol inhalation system designed for human studies. <i>Journal of Aerosol Science</i> , 2002, 33, 1433-1446.	1.8	7
77	Design and Evaluation of a Personal Diffusion Battery. <i>Aerosol Science and Technology</i> , 2013, 47, 435-443.	1.5	7
78	Community airborne particulate matter from mining for sand used as hydraulic fracturing proppant. <i>Science of the Total Environment</i> , 2017, 609, 1475-1482.	3.9	7
79	Particle Concentrations in Occupational Settings Measured with a Nanoparticle Respiratory Deposition (NRD) Sampler. <i>Annals of Work Exposures and Health</i> , 2018, 62, 699-710.	0.6	7
80	Indoor Particulate Matter From Smoker Homes Induces Bacterial Growth, Biofilm Formation, and Impairs Airway Antimicrobial Activity. A Pilot Study. <i>Frontiers in Public Health</i> , 2019, 7, 418.	1.3	7
81	Reducing the cytotoxicity of inhalable engineered nanoparticles via in situ passivation with biocompatible materials. <i>Journal of Hazardous Materials</i> , 2015, 292, 118-125.	6.5	6
82	Collection of airborne ultrafine cellulose nanocrystals by impinger with an efficiency mimicking deposition in the human respiratory system. <i>Journal of Occupational and Environmental Hygiene</i> , 2019, 16, 141-150.	0.4	6
83	Methodology for Measuring PM2.5 Separator Characteristics Using an Aerosizer. <i>Aerosol Science and Technology</i> , 2001, 34, 398-406.	1.5	5
84	Simulation of Air Quality and Operating Cost to Ventilate Swine Farrowing Facilities in the Midwest U.S. During Winter. <i>Transactions of the ASABE</i> , 2017, 60, 465-477.	1.1	5
85	Generation of Nanoparticles with a Nebulizer-Cyclone System. <i>Aerosol Science and Technology</i> , 2009, 43, 1091-1098.	1.5	4
86	Sampling Strategies for Accurate Hazard Mapping of Noise and Other Hazards Using Short-Duration Measurements. <i>Annals of Work Exposures and Health</i> , 2017, 61, 183-194.	0.6	4
87	Development of a Portable Aerosol Collector and Spectrometer (PACS). <i>Aerosol Science and Technology</i> , 2018, 52, 1351-1369.	1.5	4
88	Evaluation of a Portable Aerosol Collector and Spectrometer to measure particle concentration by composition and size. <i>Aerosol Science and Technology</i> , 2019, 53, 675-687.	1.5	4
89	Comparing respirator laboratory protection factors measured with novel personal instruments to those from the PortaCount. <i>Journal of Occupational and Environmental Hygiene</i> , 2021, 18, 65-71.	0.4	4
90	Assessment of occupational personal sound exposures for music instructors. <i>Journal of Occupational and Environmental Hygiene</i> , 2021, 18, 139-148.	0.4	4

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91	High-Output Generation of Aerosols with Narrow Size Distributions. <i>Inhalation Toxicology</i> , 1996, 8, 709-722.	0.8	3
92	Influence of upstream flow characteristics on filter efficiency. <i>Filtration and Separation</i> , 2001, 38, 40-47.	0.2	3
93	Impactor designed to increase mass output rate of nanoparticles from a pneumatic nebulizer. <i>Journal of Aerosol Science</i> , 2010, 41, 170-179.	1.8	3
94	Evaluation of a Diffusion Charger for Measuring Aerosols in a Workplace. <i>Annals of Occupational Hygiene</i> , 2014, 58, 424-36.	1.9	3
95	Rapid analysis of the size distribution of metal-containing aerosol. <i>Aerosol Science and Technology</i> , 2017, 51, 108-115.	1.5	3
96	Assessment of university classroom ventilation during the COVID-19 pandemic. <i>Journal of Occupational and Environmental Hygiene</i> , 2022, 19, 295-301.	0.4	3
97	Design and evaluation of an inlet conditioner to dry particles for real-time particle sizers. <i>Journal of Environmental Monitoring</i> , 2008, 10, 541.	2.1	2
98	Combining physics-based and Kriging models to improve the estimation of noise exposure. <i>Journal of Occupational and Environmental Hygiene</i> , 2022, 19, 343-352.	0.4	2
99	Nonwoven textile for use in a nanoparticle respiratory deposition sampler. <i>Journal of Occupational and Environmental Hygiene</i> , 2017, 14, 368-376.	0.4	1
100	Design and evaluation of a high-flowrate nanoparticle respiratory deposition (NRD) sampler. <i>Journal of Aerosol Science</i> , 2019, 134, 72-79.	1.8	1
101	Sensitivity Analysis of the USEPA WINS PM2.5 Separator. <i>Aerosol Science and Technology</i> , 2001, 34, 465-476.	1.5	1
102	OUP accepted manuscript. <i>Annals of Work Exposures and Health</i> , 2021, , .	0.6	1
103	Evaluation of the Loading Characteristics of the EPA WINS PM2.5 Separator. <i>Aerosol Science and Technology</i> , 2001, 34, 444-456.	1.5	0