

Shelly L Miller

List of Publications by Year in descending order

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Version: 2024-02-01

96
papers

5,565
citations

87843

38
h-index

88593

70
g-index

104
all docs

104
docs citations

104
times ranked

5912
citing authors

#	ARTICLE	IF	CITATIONS
1	How can airborne transmission of COVID-19 indoors be minimised?. <i>Environment International</i> , 2020, 142, 105832.	4.8	933
2	Transmission of SARS-CoV-2 by inhalation of respiratory aerosol in the Skagit Valley Chorale superspreading event. <i>Indoor Air</i> , 2021, 31, 314-323.	2.0	505
3	The ecology of microscopic life in household dust. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2015, 282, 20151139.	1.2	205
4	A paradigm shift to combat indoor respiratory infection. <i>Science</i> , 2021, 372, 689-691.	6.0	192
5	Source apportionment of exposures to volatile organic compounds. I. Evaluation of receptor models using simulated exposure data. <i>Atmospheric Environment</i> , 2002, 36, 3629-3641.	1.9	153
6	Effects of Relative Humidity on the Ultraviolet Induced Inactivation of Airborne Bacteria. <i>Aerosol Science and Technology</i> , 2001, 35, 728-740.	1.5	150
7	Review and comparison of HVAC operation guidelines in different countries during the COVID-19 pandemic. <i>Building and Environment</i> , 2021, 187, 107368.	3.0	147
8	Ten questions concerning the microbiomes of buildings. <i>Building and Environment</i> , 2016, 109, 224-234.	3.0	143
9	Efficacy of ultraviolet germicidal irradiation of upper-room air in inactivating airborne bacterial spores and mycobacteria in full-scale studies. <i>Atmospheric Environment</i> , 2003, 37, 405-419.	1.9	136
10	Effectiveness of In-Room Air Filtration and Dilution Ventilation for Tuberculosis Infection Control. <i>Journal of the Air and Waste Management Association</i> , 1996, 46, 869-882.	0.9	113
11	Practical Indicators for Risk of Airborne Transmission in Shared Indoor Environments and Their Application to COVID-19 Outbreaks. <i>Environmental Science & Technology</i> , 2022, 56, 1125-1137.	4.6	109
12	Particle Image Velocimetry of Human Cough. <i>Aerosol Science and Technology</i> , 2011, 45, 415-422.	1.5	99
13	Role of mechanical ventilation in the airborne transmission of infectious agents in buildings. <i>Indoor Air</i> , 2016, 26, 666-678.	2.0	97
14	Contribution of human-related sources to indoor volatile organic compounds in a university classroom. <i>Indoor Air</i> , 2016, 26, 925-938.	2.0	91
15	Time-Resolved Measurements of Indoor Chemical Emissions, Deposition, and Reactions in a University Art Museum. <i>Environmental Science & Technology</i> , 2019, 53, 4794-4802.	4.6	89
16	Impacts of Flood Damage on Airborne Bacteria and Fungi in Homes after the 2013 Colorado Front Range Flood. <i>Environmental Science & Technology</i> , 2015, 49, 2675-2684.	4.6	88
17	Environmental tobacco smoke particles in multizone indoor environments. <i>Atmospheric Environment</i> , 2001, 35, 2053-2067.	1.9	86
18	Impact of Environmental Factors on Efficacy of Upper-Room Air Ultraviolet Germicidal Irradiation for Inactivating Airborne Mycobacteria. <i>Environmental Science & Technology</i> , 2005, 39, 9656-9664.	4.6	86

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19	Impact of Outdoor Air Pollution on Indoor Air Quality in Low-Income Homes during Wildfire Seasons. <i>International Journal of Environmental Research and Public Health</i> , 2019, 16, 3535.	1.2	86
20	UV Air Cleaners and Upper-Room Air Ultraviolet Germicidal Irradiation for Controlling Airborne Bacteria and Fungal Spores. <i>Journal of Occupational and Environmental Hygiene</i> , 2006, 3, 536-546.	0.4	83
21	Ambient bioaerosol indices for indoor air quality assessments of flood reclamation. <i>Journal of Aerosol Science</i> , 2005, 36, 763-783.	1.8	78
22	Concentrations and source insights for trace elements in fine and coarse particulate matter. <i>Atmospheric Environment</i> , 2014, 89, 373-381.	1.9	68
23	Dosimetry of Room Air Germicidal (254 nm) Radiation Using Spherical Actinometry. <i>Photochemistry and Photobiology</i> , 1999, 70, 314-318.	1.3	64
24	Airborne Infection with <i>Bacillus anthracis</i> from Mills to Mail. <i>Emerging Infectious Diseases</i> , 2004, 10, 996-1001.	2.0	63
25	Source apportionment of exposures to volatile organic compounds: II. Application of receptor models to TEAM study data. <i>Atmospheric Environment</i> , 2002, 36, 3643-3658.	1.9	59
26	Prescribed Burns and Wildfires in Colorado: Impacts of Mitigation Measures on Indoor Air Particulate Matter. <i>Journal of the Air and Waste Management Association</i> , 2005, 55, 1516-1526.	0.9	59
27	Evaluation of a Methodology for Quantifying the Effect of Room Air Ultraviolet Germicidal Irradiation on Airborne Bacteria. <i>Aerosol Science and Technology</i> , 2000, 33, 274-295.	1.5	56
28	Ultraviolet Germicidal Irradiation: Future Directions for Air Disinfection and Building Applications. <i>Photochemistry and Photobiology</i> , 2013, 89, 777-781.	1.3	51
29	Framework for Evaluating Measures to Control Nosocomial Tuberculosis Transmission. <i>Indoor Air</i> , 1998, 8, 205-218.	2.0	50
30	A Multi-Zone Model Evaluation of the Efficacy of Upper-Room Air Ultraviolet Germicidal Irradiation. <i>Journal of Occupational and Environmental Hygiene</i> , 1999, 14, 317-328.	0.5	50
31	Source apportionment using positive matrix factorization on daily measurements of inorganic and organic speciated PM _{2.5} . <i>Atmospheric Environment</i> , 2010, 44, 2731-2741.	1.9	50
32	Fossil Fuel Combustion Is Driving Indoor CO ₂ Toward Levels Harmful to Human Cognition. <i>GeoHealth</i> , 2020, 4, e2019GH000237.	1.9	49
33	The Denver Aerosol Sources and Health (DASH) study: Overview and early findings. <i>Atmospheric Environment</i> , 2009, 43, 1666-1673.	1.9	47
34	Microbial analyses of airborne dust collected from dormitory rooms predict the sex of occupants. <i>Indoor Air</i> , 2017, 27, 338-344.	2.0	47
35	Inactivation of Airborne Microorganisms Using Novel Ultraviolet Radiation Sources in Reflective Flow-Through Control Devices. <i>Aerosol Science and Technology</i> , 2010, 44, 541-550.	1.5	46
36	Implementing a negative-pressure isolation ward for a surge in airborne infectious patients. <i>American Journal of Infection Control</i> , 2017, 45, 652-659.	1.1	43

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37	Positive Matrix Factorization of PM _{2.5} : Comparison and Implications of Using Different Speciation Data Sets. <i>Environmental Science & Technology</i> , 2012, 46, 11962-11970.	4.6	42
38	Source apportionment of exposure to toxic volatile organic compounds using positive matrix factorization. <i>Journal of Exposure Science and Environmental Epidemiology</i> , 2001, 11, 295-307.	1.8	40
39	Ultraviolet germicidal irradiation inactivation of airborne fungal spores and bacteria in upper-room air and HVAC in-duct configurations. <i>Journal of Environmental Engineering and Science</i> , 2007, 6, 1-9.	0.3	40
40	A Combined Fluorochrome Method for Quantitation of Metabolically Active and Inactive Airborne Bacteria. <i>Aerosol Science and Technology</i> , 1999, 30, 145-160.	1.5	39
41	Assessing positive matrix factorization model fit: a new method to estimate uncertainty and bias in factor contributions at the measurement time scale. <i>Atmospheric Chemistry and Physics</i> , 2009, 9, 497-513.	1.9	38
42	Budgets of Organic Carbon Composition and Oxidation in Indoor Air. <i>Environmental Science & Technology</i> , 2019, 53, 13053-13063.	4.6	37
43	Diversity of DNA and RNA Viruses in Indoor Air As Assessed via Metagenomic Sequencing. <i>Environmental Science & Technology</i> , 2018, 52, 1014-1027.	4.6	35
44	The impacts of cooking and an assessment of indoor air quality in Colorado passive and tightly constructed homes. <i>Building and Environment</i> , 2018, 144, 573-582.	3.0	35
45	Positive matrix factorization of a 32-month series of daily PM _{2.5} speciation data with incorporation of temperature stratification. <i>Atmospheric Environment</i> , 2013, 65, 11-20.	1.9	34
46	Particle size distributions and concentrations of airborne endotoxin using novel collection methods in homes during the winter and summer seasons. <i>Indoor Air</i> , 2006, 16, 216-226.	2.0	33
47	Relationships between home ventilation rates and respiratory health in the Colorado Home Energy Efficiency and Respiratory Health (CHEER) study. <i>Environmental Research</i> , 2019, 169, 297-307.	3.7	33
48	Nonlinear Least-Squares Minimization Applied to Tracer Gas Decay for Determining Airflow Rates in a Two-Zone Building. <i>Indoor Air</i> , 1997, 7, 64-75.	2.0	30
49	Implementing a negative pressure isolation space within a skilled nursing facility to control SARS-CoV-2 transmission. <i>American Journal of Infection Control</i> , 2021, 49, 438-446.	1.1	30
50	Comparisons of urban and rural PM ₁₀ and PM _{2.5} mass concentrations and semi-volatile fractions in northeastern Colorado. <i>Atmospheric Chemistry and Physics</i> , 2016, 16, 7469-7484.	1.9	28
51	High temporal variability in airborne bacterial diversity and abundance inside single-family residences. <i>Indoor Air</i> , 2017, 27, 576-586.	2.0	24
52	Measurements and Simulations of Aerosol Released while Singing and Playing Wind Instruments. <i>ACS Environmental Au</i> , 2021, 1, 71-84.	3.3	24
53	Characterization and Nonparametric Regression of Rural and Urban Coarse Particulate Matter Mass Concentrations in Northeastern Colorado. <i>Aerosol Science and Technology</i> , 2012, 46, 108-123.	1.5	21
54	The short-term association of selected components of fine particulate matter and mortality in the Denver Aerosol Sources and Health (DASH) study. <i>Environmental Health</i> , 2015, 14, 49.	1.7	21

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55	Seasonal Variability of Airborne Particulate Matter and Bacterial Concentrations in Colorado Homes. <i>Atmosphere</i> , 2018, 9, 133.	1.0	21
56	Autoxidation of Limonene Emitted in a University Art Museum. <i>Environmental Science and Technology Letters</i> , 2019, 6, 520-524.	3.9	21
57	Room-level ventilation in schools and universities. <i>Atmospheric Environment: X</i> , 2022, 13, 100152.	0.8	21
58	Intra-urban spatial variability of PM _{2.5} -bound carbonaceous components. <i>Atmospheric Environment</i> , 2012, 60, 486-494.	1.9	20
59	Impact of Low-Income Home Energy-Efficiency Retrofits on Building Air Tightness and Healthy Home Indicators. <i>Sustainability</i> , 2019, 11, 2667.	1.6	20
60	Evaluating SARS-CoV-2 airborne quanta transmission and exposure risk in a mechanically ventilated multizone office building. <i>Building and Environment</i> , 2022, 219, 109184.	3.0	20
61	Intra-urban spatial variability and uncertainty assessment of PM _{2.5} sources based on carbonaceous species. <i>Atmospheric Environment</i> , 2012, 60, 305-315.	1.9	18
62	Using Computational Fluid Dynamics Modeling to Evaluate the Design of Hospital Ultraviolet Germicidal Irradiation Systems for Inactivating Airborne Mycobacteria ^{â€} . <i>Photochemistry and Photobiology</i> , 2013, 89, 792-798.	1.3	17
63	Ultrafine and Fine Particulate Matter Inside and Outside of Mechanically Ventilated Buildings. <i>International Journal of Environmental Research and Public Health</i> , 2017, 14, 128.	1.2	17
64	Housing Environments and Child Health Conditions Among Recent Mexican Immigrant Families: A Population-Based Study. <i>Journal of Immigrant and Minority Health</i> , 2010, 12, 617-625.	0.8	16
65	Ultraviolet germicidal coil cleaning: Decreased surface microbial loading and resuspension of cell clusters. <i>Building and Environment</i> , 2016, 105, 50-55.	3.0	16
66	Effects of Ceiling-Mounted HEPA-UV Air Filters on Airborne Bacteria Concentrations in an Indoor Therapy Pool Building. <i>Journal of the Air and Waste Management Association</i> , 2005, 55, 210-218.	0.9	14
67	Global Endeavors to Address the Health Effects of Urban Air Pollution. <i>Environmental Science & Technology</i> , 2022, 56, 6793-6798.	4.6	14
68	Indoor Pollutant Levels from the Use of Unvented Natural Gas Fireplaces in Boulder, Colorado. <i>Journal of the Air and Waste Management Association</i> , 2001, 51, 1654-1661.	0.9	13
69	The Impact of Industrial Odors on the Subjective Well-Being of Communities in Colorado. <i>International Journal of Environmental Research and Public Health</i> , 2018, 15, 1091.	1.2	13
70	Social and Environmental Neighborhood Typologies and Lung Function in a Low-Income, Urban Population. <i>International Journal of Environmental Research and Public Health</i> , 2019, 16, 1133.	1.2	13
71	Modeling the impacts of physical distancing and other exposure determinants on aerosol transmission. <i>Journal of Occupational and Environmental Hygiene</i> , 2021, 18, 495-509.	0.4	13
72	Method for Estimating Ultraviolet Germicidal Fluence Rates in a Hospital Room. <i>Infection Control and Hospital Epidemiology</i> , 2008, 29, 1042-1047.	1.0	12

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73	Ultraviolet germicidal coil cleaning: Impact on heat transfer effectiveness and static pressure drop. <i>Building and Environment</i> , 2017, 112, 159-165.	3.0	12
74	Industrial Odor Source Identification Based on Wind Direction and Social Participation. <i>International Journal of Environmental Research and Public Health</i> , 2019, 16, 1242.	1.2	12
75	An assessment of indoor air quality in recent Mexican immigrant housing in Commerce City, Colorado. <i>Atmospheric Environment</i> , 2009, 43, 5661-5667.	1.9	11
76	Industrial odor sources and air pollutant concentrations in Globeville, a Denver, Colorado neighborhood. <i>Journal of the Air and Waste Management Association</i> , 2015, 65, 1127-1140.	0.9	11
77	Potential airborne pathogen transmission in a hospital with and without surge control ventilation system modifications. <i>Building and Environment</i> , 2016, 106, 175-180.	3.0	11
78	Why Was My Paper Rejected without Review?. <i>Environmental Science & Technology</i> , 2020, 54, 11641-11644.	4.6	10
79	Estimation of Needed Isolation Capacity for an Airborne Influenza Pandemic. <i>Health Security</i> , 2016, 14, 258-263.	0.9	9
80	Errors in coarse particulate matter mass concentrations and spatiotemporal characteristics when using subtraction estimation methods. <i>Journal of the Air and Waste Management Association</i> , 2013, 63, 1386-1398.	0.9	8
81	Upper Room Germicidal Ultraviolet Systems for Air Disinfection Are Ready for Wide Implementation. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2015, 192, 407-409.	2.5	8
82	Characterization of aerosol plumes from singing and playing wind instruments associated with the risk of airborne virus transmission. <i>Indoor Air</i> , 2022, 32, .	2.0	8
83	Volatile Organic Compound Emissions From Heated Synthetic Hair: A Pilot Study. <i>Environmental Health Insights</i> , 2020, 14, 117863021989087.	0.6	7
84	Sources of Gas-Phase Species in an Art Museum from Comprehensive Real-Time Measurements. <i>ACS Earth and Space Chemistry</i> , 2021, 5, 2252-2267.	1.2	7
85	Air pollutant emissions from multi jet fusion, material-jetting, and digital light synthesis commercial 3D printers in a service bureau. <i>Building and Environment</i> , 2021, 202, 108008.	3.0	7
86	Air infiltration in low-income, urban homes and its relationship to lung function. <i>Journal of Exposure Science and Environmental Epidemiology</i> , 2020, 30, 262-270.	1.8	6
87	A Lagrangian Approach Towards Quantitative Analysis of Flow-mediated Infection Transmission in Indoor Spaces with Application to SARS-COV-2. <i>International Journal of Computational Fluid Dynamics</i> , 2021, 35, 727-742.	0.5	6
88	Safety Practices in Relation to Home Ownership Among Urban Mexican Immigrant Families. <i>Journal of Community Health</i> , 2012, 37, 165-175.	1.9	5
89	Influence of Powder Type on Aerosol Emissions in Powder-Binder Jetting with Emphasis on Lunar Regolith for In Situ Space Applications. <i>ACS ES&T Engineering</i> , 2021, 1, 183-191.	3.7	5
90	Total and culturable airborne bacteria and fungi in arid region flood-damaged residences. <i>Journal of Aerosol Science</i> , 2000, 31, 35-36.	1.8	3

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91	Identification of barriers and research opportunities to improve the effective and efficient application of adjunct UVC surface disinfection in healthcare. , 2018, , .		2
92	An Exploratory Investigation of Government Air Monitoring Data after Hurricane Harvey. International Journal of Environmental Research and Public Health, 2022, 19, 5559.	1.2	2
93	Congratulations to the recipients of the Academy of Fellows of ISIAQ Awards 2020. Indoor Air, 2021, 31, 1687-1690.	2.0	1
94	A Mixed-methods Study of Non-text Social Media Content as a Window into African-American Youth STEM Identities. , 0, , .		1
95	Letters to the Editor. Journal of the Air and Waste Management Association, 2002, 52, 1133-1138.	0.9	0
96	Modeling county-level benzene emissions using transportation analysis zones in the Denver metro area. Atmospheric Environment: X, 2022, , 100180.	0.8	0