Jeffrey A Siegel

List of Publications by Year
in descending order

99	4,163	87843 38	123376 61
papers	citations	h-index	g-index

102	102	102	4226
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Indoor exposure to phthalates and polycyclic aromatic hydrocarbons (PAHs) to Canadian children: the Kingston allergy birth cohort. Journal of Exposure Science and Environmental Epidemiology, 2022, 32, 69-81.	1.8	8
2	Particulate matter concentrations in social housing. Sustainable Cities and Society, 2022, 76, 103503.	5.1	7
3	The impact of emissions from an essential oil diffuser on cognitive performance. Indoor Air, 2022, 32, .	2.0	9
4	Quantitative filter forensics for semivolatile organic compounds in social housing apartments. Indoor Air, 2022, 32, e12994.	2.0	1
5	Modeling Clothing as a Vector for Transporting Airborne Particles and Pathogens across Indoor Microenvironments. Environmental Science & Technology, 2022, 56, 5641-5652.	4.6	11
6	Can green schools influence academic performance?. Critical Reviews in Environmental Science and Technology, 2021, 51, 1354-1396.	6.6	7
7	Assessing the impact of filtration systems in indoor environments with effectiveness. Building and Environment, 2021, 187, 107389.	3.0	6
8	HVAC filtration of particles and trace metals: Airborne measurements and the evaluation of quantitative filter forensics. Environmental Pollution, 2021, 271, 116388.	3.7	1
9	Volatile organic compound and particulate matter emissions from an ultrasonic essential oil diffuser. Indoor Air, 2021, 31, 1982-1992.	2.0	4
10	Quantifying thermal comfort and carbon savings from energy-retrofits in social housing. Energy and Buildings, 2021, 241, 110950.	3.1	16
11	Distribution of SARS-CoV-2 RNA signal in a home with COVID-19 positive occupants. Science of the Total Environment, 2021, 778, 146201.	3.9	39
12	Modeling the Removal of Water-Soluble Trace Gases from Indoor Air via Air Conditioner Condensate. Environmental Science & Technology, 2021, 55, 10987-10993.	4.6	8
13	The impact of control strategies on filtration performance. Energy and Buildings, 2021, 252, 111378.	3.1	2
14	Quantitative filter forensics: Size distribution and particulate matter concentrations in residential buildings. Indoor Air, 2021, 31, 1050-1060.	2.0	2
15	Inâ€situ effectiveness of residential HVAC filters. Indoor Air, 2020, 30, 156-166.	2.0	18
16	Energy use in residential buildings: Analyses of high-efficiency filters and HVAC fans. Energy and Buildings, 2020, 209, 109697.	3.1	15
17	In situ efficiency of filters in residential central HVAC systems. Indoor Air, 2020, 30, 315-325.	2.0	9
18	Bacterial and fungal ecology on air conditioning cooling coils is influenced by climate and building factors. Indoor Air, 2020, 30, 326-334.	2.0	17

#	Article	IF	Citations
19	Cardiopulmonary Impact of Particulate Air Pollution in High-Risk Populations. Journal of the American College of Cardiology, 2020, 76, 2878-2894.	1.2	68
20	Use of a high-flow extractor to reduce aerosol exposure in tracheal intubation. British Journal of Anaesthesia, 2020, 125, e363-e366.	1.5	11
21	Personal-Level Protective Actions Against Particulate Matter Air Pollution Exposure: A Scientific Statement From the American Heart Association. Circulation, 2020, 142, e411-e431.	1.6	112
22	Electrostatic Precipitators as an Indoor Air Cleanerâ€"A Literature Review. Sustainability, 2020, 12, 8774.	1.6	41
23	Extraction of dust collected in HVAC filters for quantitative filter forensics. Aerosol Science and Technology, 2020, 54, 1282-1292.	1.5	8
24	Modeling microbial growth in carpet dust exposed to diurnal variations in relative humidity using the â€œTimeâ€•ofâ€Wetnessâ€•framework. Indoor Air, 2020, 30, 978-992.	2.0	15
25	Indoor CO ₂ concentrations and cognitive function: A critical review. Indoor Air, 2020, 30, 1067-1082.	2.0	83
26	Laboratory performance of new and used residential HVAC filters: Comparison to field results (RP-1649). Science and Technology for the Built Environment, 2020, 26, 844-855.	0.8	1
27	Investigating the impact of filters on long-term particle concentration measurements in residences (RP-1649). Science and Technology for the Built Environment, 2020, 26, 1037-1047.	0.8	9
28	Elevated Concentrations of Semivolatile Organic Compounds in Social Housing Multiunit Residential Building Apartments. Environmental Science and Technology Letters, 2020, 7, 191-197.	3.9	20
29	Quantitative filter forensics with residential HVAC filters to assess indoor concentrations. Indoor Air, 2019, 29, 390-402.	2.0	15
30	Illuminating the dark side of indoor oxidants. Environmental Sciences: Processes and Impacts, 2019, 21, 1229-1239.	1.7	47
31	IAQ and energy implications of high efficiency filters in residential buildings: A review (RP-1649). Science and Technology for the Built Environment, 2019, 25, 261-271.	0.8	22
32	Sources of isocyanic acid (HNCO) indoors: a focus on cigarette smoke. Environmental Sciences: Processes and Impacts, 2019, 21, 1334-1341.	1.7	14
33	Measurement of residential HVAC system runtime. Building and Environment, 2019, 150, 99-107.	3.0	14
34	Indoor environmental quality perceptions of social housing residents. Building and Environment, 2019, 150, 135-143.	3.0	25
35	Indoor environmental quality in social housing: A literature review. Building and Environment, 2018, 131, 231-241.	3.0	112
36	Phthalates and organophosphates in settled dust and HVAC filter dust of U.S. low-income homes: Association with season, building characteristics, and childhood asthma. Environment International, 2018, 121, 916-930.	4.8	102

#	Article	IF	Citations
37	Evidence for Gasâ€“Surface Equilibrium Control of Indoor Nitrous Acid. Environmental Science & Technology, 2018, 52, 12419-12427.	4.6	71
38	Residential HVAC runtime from smart thermostats: characterization, comparison, and impacts. Indoor Air, 2018, 28, 905-915.	2.0	32
39	Exploration of a long-term measurement approach for air change rate. Building and Environment, 2018, 144, 474-481.	3.0	13
40	Building and environmental factors that influence bacterial and fungal loading on air conditioning cooling coils. Indoor Air, 2018, 28, 689-696.	2.0	25
41	Filter forensics: microbiota recovery from residential HVAC filters. Microbiome, 2018, 6, 22.	4.9	35
42	Thermal comfort in multi-unit social housing buildings. Building and Environment, 2018, 144, 230-237.	3.0	23
43	Bacterial colonization and succession in a newly opened hospital. Science Translational Medicine, 2017, 9, .	5.8	248
44	Quantitative filter forensics for indoor particle sampling. Indoor Air, 2017, 27, 364-376.	2.0	17
45	Particulate reactive oxygen species on total suspended particles â€“ measurements in residences in Austin, Texas. Indoor Air, 2016, 26, 953-963.	2.0	8
46	Characterizing the bacterial communities in retail stores in the United States. Indoor Air, 2016, 26, 857-868.	2.0	26
47	Impact of ventilation and filtration strategies on energy consumption and exposures in retail stores. Building and Environment, 2016, 100, 186-196.	3.0	24
48	Ten questions concerning the microbiomes of buildings. Building and Environment, 2016, 109, 224-234.	3.0	143
49	Geography and Location Are the Primary Drivers of Office Microbiome Composition. MSystems, 2016, 1, .	1.7	110
50	Analysis of the cost effectiveness of combined particle and activated carbon filters for indoor ozone removal in buildings. Science and Technology for the Built Environment, 2016, 22, 227-236.	0.8	7
51	Primary and secondary consequences of indoor air cleaners. Indoor Air, 2016, 26, 88-96.	2.0	87
52	Field evaluation of five volatile organic compound measurement techniques: Implications for green building decision making. Science and Technology for the Built Environment, 2015, 21, 67-79.	0.8	8
53	Moisture parameters and fungal communities associated with gypsum drywall in buildings. Microbiome, 2015, 3, 71.	4.9	61
54	Spatial and Temporal Variations in Indoor Environmental Conditions, Human Occupancy, and Operational Characteristics in a New Hospital Building. PLoS ONE, 2015, 10, e0118207.	1.1	54

#	Article	IF	Citations
55	Modeling Ozone Removal to Indoor Materials, Including the Effects of Porosity, Pore Diameter, and Thickness. Environmental Science & Technology, 2015, 49, 4398-4406.	4.6	17
56	Methods to assess human occupancy and occupant activity in hospital patient rooms. Building and Environment, 2015, 90, 136-145.	3.0	53
57	Semi-volatile organic compounds in heating, ventilation, and air-conditioning filter dust in retail stores. Indoor Air, 2015, 25, 79-92.	2.0	31
58	Exploring the microbiome of the built environment: A primer on four biological methods available to building professionals. HVAC and R Research, 2014, 20, 167-175.	0.9	6
59	Volatile organic compounds in fourteen U.S. retail stores. Indoor Air, 2014, 24, 484-494.	2.0	24
60	The relationship between filter pressure drop, indoor air quality, and energy consumption in rooftop HVAC units. Building and Environment, 2014, 73, 151-161.	3.0	109
61	Ventilation and indoor air quality in retail stores: A critical review (RP-1596). HVAC and R Research, 2014, 20, 276-294.	0.9	24
62	Phthalates and polybrominated diphenyl ethers in retail stores. Atmospheric Environment, 2014, 87, 53-64.	1.9	18
63	Impact of Physical Properties on Ozone Removal by Several Porous Materials. Environmental Science & Technology, 2014, 48, 3682-3690.	4.6	21
64	Impact of sampler selection on the characterization of the indoor microbiome via high-throughput sequencing. Building and Environment, 2014, 80, 274-282.	3.0	45
65	Indoor particulate reactive oxygen species concentrations. Environmental Research, 2014, 132, 46-53.	3.7	23
66	Technical Note: Particulate reactive oxygen species concentrations and their association with environmental conditions in an urban, subtropical climate. Atmospheric Chemistry and Physics, 2014, 14, 6777-6784.	1.9	6
67	Indoor Secondary Organic Aerosol Formation Initiated from Reactions between Ozone and Surface-Sorbed <scp>d</scp>-Limonene. Environmental Science & Technology, 2013, 47, 6341-6348.	4.6	75
68	Impact of cement renders on airborne ozone and carbon dioxide concentrations. Atmospheric Environment, 2013, 70, 263-266.	1.9	7
69	Wind Tunnel Study on Aerodynamic Particle Resuspension from Monolayer and Multilayer Deposits on Linoleum Flooring and Galvanized Sheet Metal. Aerosol Science and Technology, 2013, 47, 848-857.	1.5	28
70	Ultrafine particle removal by residential heating, ventilating, and air-conditioning filters. Indoor Air, 2013, 23, 488-497.	2.0	80
71	Monolayer and Multilayer Particle Deposits on Hard Surfaces: Literature Review and Implications for Particle Resuspension in the Indoor Environment. Aerosol Science and Technology, 2013, 47, 831-847.	1.5	70
72	The Hospital Microbiome Project: Meeting Report for the 1st Hospital Microbiome Project Workshop on sampling design and building science measurements, Chicago, USA, June 7th-8th 2012. Standards in Genomic Sciences, 2013, 8, 112-117.	1.5	18

#	Article	IF	Citations
73	The Hospital Microbiome Project: Meeting report for the 2nd Hospital Microbiome Project, Chicago, USA, January 15th, 2013. Standards in Genomic Sciences, 2013, 8, 571-579.	1.5	11
74	Comparison of Test Methods for Determining the Particle Removal Efficiency of Filters in Residential and Light-Commercial Central HVAC Systems. Aerosol Science and Technology, 2012, 46, 504-513.	1.5	45
75	Measuring the Penetration of Ambient Ozone into Residential Buildings. Environmental Science & Technology, 2012, 46, 929-936.	4.6	70
76	Long-term performance of passive materials for removal of ozone from indoor air. Indoor Air, 2012, 22, 43-53.	2.0	55
77	Penetration of ambient submicron particles into single-family residences and associations with building characteristics. Indoor Air, 2012, 22, 501-513.	2.0	93
78	The effect of an ion generator on indoor air quality in a residential room. Indoor Air, 2011, 21, 267-276.	2.0	41
79	Evaluation of HVAC filters as a sampling mechanism for indoor microbial communities. Atmospheric Environment, 2011, 45, 338-346.	1.9	75
80	Barriers and opportunities for passive removal of indoor ozone. Atmospheric Environment, 2011, 45, 3338-3341.	1.9	32
81	Operational characteristics of residential and light-commercial air-conditioning systems in a hot and humid climate zone. Building and Environment, 2011, 46, 1972-1983.	3.0	53
82	Responseâ€“relapse patterns of building occupant electricity consumption following exposure to personal, contextualized and occupant peer network utilization data. Energy and Buildings, 2010, 42, 1329-1336.	3.1	184
83	Passive reduction of human exposure to indoor ozone. Building and Environment, 2010, 45, 445-452.	3.0	57
84	Formaldehyde in residences: long-term indoor concentrations and influencing factors. Indoor Air, 2010, 20, 196-203.	2.0	87
85	The Effects of Filtration on Pressure Drop and Energy Consumption in Residential HVAC Systems (RP-1299). HVAC and R Research, 2010, 16, 273-294.	0.9	68
86	Cancer Risk Disparities between Hispanic and Non-Hispanic White Populations: The Role of Exposure to Indoor Air Pollution. Environmental Health Perspectives, 2009, 117, 1925-1931.	2.8	38
87	Impact of Airflow Characteristics on Particle Resuspension from Indoor Surfaces. Aerosol Science and Technology, 2009, 43, 1022-1032.	1.5	58
88	Does filter media type really affect BRS?. Indoor Air, 2009, 19, 346-347.	2.0	0
89	Impact of placement of portable air cleaning devices in multizone residential environments. Building and Environment, 2009, 44, 2348-2356.	3.0	69
90	Particle loading rates for HVAC filters, heat exchangers, and ducts. Indoor Air, 2008, 18, 209-224.	2.0	83

#	Article	IF	Citations
91	Ultrafine particle removal and generation by portable air cleaners. Atmospheric Environment, 2008, 42, 5003-5014.	1.9	166
92	Particle Resuspension During the Use of Vacuum Cleaners on Residential Carpet. Journal of Occupational and Environmental Hygiene, 2008, 5, 232-238.	0.4	91
93	An evaluation of the indoor air quality in bars before and after a smoking ban in Austin, Texas. Journal of Exposure Science and Environmental Epidemiology, 2007, 17, 260-268.	1.8	47
94	Ozone removal by HVAC filters. Atmospheric Environment, 2007, 41, 3151-3160.	1.9	73
95	Measuring residential duct efficiency with the short-term coheat test methodology. Energy and Buildings, 2006, 38, 1076-1083.	3.1	7
96	The effectiveness of stand alone air cleaners for shelter-in-place. Indoor Air, 2005, 15, 127-134.	2.0	35
97	Predicting particle deposition on HVAC heat exchangers. Atmospheric Environment, 2003, 37, 5587-5596.	1.9	73
98	Integrating Ducts into the Conditioned Space: Successes and Challenges. , 2003, , 1.		1
99	Performance of nanofibrous media in portable air cleaners. Aerosol Science and Technology, 0, , 1-12.	1.5	4