Jordan Peccia

List of Publications by Year
in descending order

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107 papers	10,494 citations	38742 50 h-index	36028 97 g-index
116 all docs	116 docs citations	116 times ranked	12544 citing authors

#	Article	IF	Citations
1	How can airborne transmission of COVID-19 indoors be minimised?. Environment International, 2020, 142, 105832.	10.0	933
2	Measurement of SARS-CoV-2 RNA in wastewater tracks community infection dynamics. Nature Biotechnology, 2020, 38, 1164-1167.	17.5	785
3	Speciation of the Ionizable Antibiotic Sulfamethazine on Black Carbon (Biochar). Environmental Science & Technology, 2011, 45, 10020-10027.	10.0	407
4	Human Occupancy as a Source of Indoor Airborne Bacteria. PLoS ONE, 2012, 7, e34867.	2.5	404
5	Wastewater-Based Epidemiology: Global Collaborative to Maximize Contributions in the Fight Against COVID-19. Environmental Science & Technology, 2020, 54, 7754-7757.	10.0	337
6	Sizeâ€resolved emission rates of airborne bacteria and fungi in an occupied classroom. Indoor Air, 2012, 22, 339-351.	4.3	315
7	Identification of Viral Pathogen Diversity in Sewage Sludge by Metagenome Analysis. Environmental Science & Technology, 2013, 47, 1945-1951.	10.0	301
8	Transcriptome sequencing and annotation of the microalgae Dunaliella tertiolecta: Pathway description and gene discovery for production of next-generation biofuels. BMC Genomics, 2011, 12, 148.	2.8	258
9	Global Survey of Antibiotic Resistance Genes in Air. Environmental Science & Technology, 2018, 52, 10975-10984.	10.0	227
10	Walking-induced particle resuspension in indoor environments. Atmospheric Environment, 2014, 89, 464-481.	4.1	226
11	We Should Expect More out of Our Sewage Sludge. Environmental Science & Technology, 2015, 49, 8271-8276.	10.0	218
12	Particle-size distributions and seasonal diversity of allergenic and pathogenic fungi in outdoor air. ISME Journal, 2012, 6, 1801-1811.	9.8	211
13	Untangling the fungal niche: the trait-based approach. Frontiers in Microbiology, 2014, 5, 579.	3.5	211
14	Involvement of Rhodocyclus-Related Organisms in Phosphorus Removal in Full-Scale Wastewater Treatment Plants. Applied and Environmental Microbiology, 2002, 68, 2763-2769.	3.1	197
15	A paradigm shift to combat indoor respiratory infection. Science, 2021, 372, 689-691.	12.6	192
16	Convergent development of anodic bacterial communities in microbial fuel cells. ISME Journal, 2012, 6, 2002-2013.	9.8	190
17	Incorporating polymerase chain reaction-based identification, population characterization, and quantification of microorganisms into aerosol science: A review. Atmospheric Environment, 2006, 40, 3941-3961.	4.1	181
18	Transcriptomic analysis of the oleaginous microalga Neochloris oleoabundans reveals metabolic insights into triacylglyceride accumulation. Biotechnology for Biofuels, 2012, 5, 74.	6.2	178

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19	Nitrogen supply is an important driver of sustainable microalgae biofuel production. Trends in Biotechnology, 2013, 31, 134-138.	9.3	178
20	Accuracy, Precision, and Method Detection Limits of Quantitative PCR for Airborne Bacteria and Fungi. Applied and Environmental Microbiology, 2010, 76, 7004-7012.	3.1	163
21	Challenges in Developing Biohydrogen as a Sustainable Energy Source: Implications for a Research Agenda. Environmental Science & Technology, 2010, 44, 2243-2254.	10.0	161
22	Effects of Relative Humidity on the Ultraviolet Induced Inactivation of Airborne Bacteria. Aerosol Science and Technology, 2001, 35, 728-740.	3.1	150
23	Influence of housing characteristics on bacterial and fungal communities in homes of asthmatic children. Indoor Air, 2016, 26, 179-192.	4.3	147
24	Next-generation DNA sequencing reveals that low fungal diversity in house dust is associated with childhood asthma development. Indoor Air, 2014, 24, 236-247.	4.3	144
25	Pyrosequencing of the 16S rRNA gene to reveal bacterial pathogen diversity in biosolids. Water Research, 2010, 44, 4252-4260.	11.3	137
26	Efficacy of ultraviolet germicidal irradiation of upper-room air in inactivating airborne bacterial spores and mycobacteria in full-scale studies. Atmospheric Environment, 2003, 37, 405-419.	4.1	136
27	A Vista for Microbial Ecology and Environmental Biotechnology. Environmental Science & Technology, 2006, 40, 1096-1103.	10.0	118
28	Characterizing airborne fungal and bacterial concentrations and emission rates in six occupied children's classrooms. Indoor Air, 2015, 25, 641-652.	4.3	118
29	Indoor microbial communities: Influence on asthma severity in atopic and nonatopic children. Journal of Allergy and Clinical Immunology, 2016, 138, 76-83.e1.	2.9	117
30	SARS-CoV-2 wastewater surveillance data can predict hospitalizations and ICU admissions. Science of the Total Environment, 2022, 804, 150151.	8.0	116
31	Ammonia inhibition in oleaginous microalgae. Algal Research, 2016, 19, 123-127.	4.6	115
32	Combining real-time PCR and next-generation DNA sequencing to provide quantitative comparisons of fungal aerosol populations. Atmospheric Environment, 2014, 84, 113-121.	4.1	114
33	Fungal and bacterial growth in floor dust at elevated relative humidity levels. Indoor Air, 2017, 27, 354-363.	4.3	108
34	Predicting Contaminant Adsorption in Black Carbon (Biochar)-Amended Soil for the Veterinary Antimicrobial Sulfamethazine. Environmental Science & Technology, 2013, 47, 6197-6205.	10.0	104
35	Toward a Consensus View on the Infectious Risks Associated with Land Application of Sewage Sludge. Environmental Science & Technology, 2011, 45, 5459-5469.	10.0	100
36	Survey of Wastewater Indicators and Human Pathogen Genomes in Biosolids Produced by Class A and Class B Stabilization Treatments. Applied and Environmental Microbiology, 2009, 75, 164-174.	3.1	95

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37	COVID-19 vulnerability: the potential impact of genetic susceptibility and airborne transmission. Human Genomics, 2020, 14, 17.	2.9	95
38	Viral metagenome analysis to guide human pathogen monitoring in environmental samples. Letters in Applied Microbiology, 2011, 52, 386-392.	2.2	90
39	Correlating bioaerosol load with PM2.5 and PM10cf concentrations: a comparison between natural desert and urban-fringe aerosols. Atmospheric Environment, 2004, 38, 6029-6041.	4.1	87
40	Impact of Environmental Factors on Efficacy of Upper-Room Air Ultraviolet Germicidal Irradiation for Inactivating Airborne Mycobacteria. Environmental Science & Technology, 2005, 39, 9656-9664.	10.0	86
41	1,4-Dioxane as an emerging water contaminant: State of the science and evaluation of research needs. Science of the Total Environment, 2019, 690, 853-866.	8.0	85
42	Suppression of methanogenesis in cellulose-fed microbial fuel cells in relation to performance, metabolite formation, and microbial population. Bioresource Technology, 2013, 129, 281-288.	9.6	77
43	Development and Application of Small-Subunit rRNA Probes for Assessment of Selected Thiobacillus Species and Members of the Genus Acidiphilium. Applied and Environmental Microbiology, 2000, 66, 3065-3072.	3.1	73
44	Indoor Emissions as a Primary Source of Airborne Allergenic Fungal Particles in Classrooms. Environmental Science & Technology, 2015, 49, 5098-5106.	10.0	73
45	Source Tracking Aerosols Released from Land-Applied Class B Biosolids during High-Wind Events. Applied and Environmental Microbiology, 2007, 73, 4522-4531.	3.1	67
46	Photoreactivation in Airborne Mycobacterium parafortuitum. Applied and Environmental Microbiology, 2001, 67, 4225-4232.	3.1	60
47	Fungal Highâ€throughput Taxonomic Identification tool for use with Nextâ€Generation Sequencing (FHiTINGS). Journal of Basic Microbiology, 2014, 54, 315-321.	3.3	60
48	In situ assessment of active Thiobacillus species in corroding concrete sewers using fluorescent RNA probes. International Biodeterioration and Biodegradation, 2002, 49, 271-276.	3.9	59
49	Hand bacterial communities vary across two different human populations. Microbiology (United) Tj ETQq1 1 0.784314 rgBT /Overlock	1.8	55
50	Net energy production associated with pathogen inactivation during mesophilic and thermophilic anaerobic digestion of sewage sludge. Water Research, 2011, 45, 4758-4768.	11.3	54
51	Annual distribution of allergenic fungal spores in atmospheric particulate matter in the Eastern Mediterranean; a comparative study between ergosterol and quantitative PCR analysis. Atmospheric Chemistry and Physics, 2012, 12, 2681-2690.	4.9	52
52	Source Bioaerosol Concentration and rRNA Gene-Based Identification of Microorganisms Aerosolized at a Flood Irrigation Wastewater Reuse Site. Applied and Environmental Microbiology, 2005, 71, 804-810.	3.1	51
53	Emission Rates and Characterization of Aerosols Produced During the Spreading of Dewatered Class B Biosolids. Environmental Science & Technology, 2007, 41, 3537-3544.	10.0	51
54	Aligning SARS-CoV-2 indicators via an epidemic model: application to hospital admissions and RNA detection in sewage sludge. Health Care Management Science, 2021, 24, 320-329.	2.6	51

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55	A Role for Environmental Engineering and Science in Preventing Bioaerosol-Related Disease. Environmental Science & Technology, 2008, 42, 4631-4637.	10.0	42
56	Assessing the aerodynamic diameters of taxon-specific fungal bioaerosols by quantitative PCR and next-generation DNA sequencing. Journal of Aerosol Science, 2014, 78, 1-10.	3.8	41
57	Assessing allergenic fungi in house dust by floor wipe sampling and quantitative PCR. Indoor Air, 2011, 21, 521-530.	4.3	40
58	Comparison of quantitative airborne fungi measurements by active and passive sampling methods. Journal of Aerosol Science, 2011, 42, 499-507.	3.8	39
59	Evaluation of the enterococci indicator in biosolids using culture-based and quantitative PCR assays. Water Research, 2009, 43, 4878-4887.	11.3	37
60	UV-Induced Inactivation Rates for AirborneMycobacterium bovisBCG. Journal of Occupational and Environmental Hygiene, 2004, 1, 430-435.	1.0	36
61	New Directions: A revolution in DNA sequencing now allows for the meaningful integration of biology with aerosol science. Atmospheric Environment, 2011, 45, 1896-1897.	4.1	36
62	Degradation of phthalate esters in floor dust at elevated relative humidity. Environmental Sciences: Processes and Impacts, 2019, 21, 1268-1279.	3.5	35
63	The impact of ventilation rate on the fungal and bacterial ecology of home indoor air. Building and Environment, 2020, 177, 106800.	6.9	35
64	Gene expression of indoor fungal communities under damp building conditions: Implications for human health. Indoor Air, 2018, 28, 548-558.	4.3	34
65	Selectively biorefining astaxanthin and triacylglycerol co-products from microalgae with supercritical carbon dioxide extraction. Bioresource Technology, 2018, 269, 81-88.	9.6	33
66	DNA aptamers bind specifically and selectively to (1â†'3)-Î²-d-glucans. Biochemical and Biophysical Research Communications, 2009, 378, 701-705.	2.1	29
67	The allergenicity of Aspergillus fumigatus conidia is influenced by growth temperature. Fungal Biology, 2011, 115, 625-632.	2.5	29
68	Microbiology of Enhanced Biological Phosphorus Removal in Aerated-Anoxic Orbal Processes. Water Environment Research, 2002, 74, 428-436.	2.7	28
69	Buildings, Beneficial Microbes, and Health. Trends in Microbiology, 2016, 24, 595-597.	7.7	27
70	Indoor/Outdoor Relationships and Anthropogenic Elemental Signatures in Airborne PM_{2.5} at a High School: Impacts of Petroleum Refining Emissions on Lanthanoid Enrichment. Environmental Science & Technology, 2017, 51, 4851-4859.	10.0	25
71	Building and environmental factors that influence bacterial and fungal loading on air conditioning cooling coils. Indoor Air, 2018, 28, 689-696.	4.3	25
72	Changes in atmospheric <scp><scp>CO₂</scp></scp> influence the allergenicity of <i><scp>A</scp>spergillus fumigatus</i>. Global Change Biology, 2013, 19, 2381-2388.	9.5	24

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73	Prevalence of respiratory adenovirus species B and C in sewage sludge. Environmental Sciences: Processes and Impacts, 2013, 15, 336-338.	3.5	23
74	Particulate matter composition and emission rates from the disk incorporation of class B biosolids into soil. Atmospheric Environment, 2006, 40, 7034-7045.	4.1	22
75	Changes in Sewage Sludge Chemical Signatures During a COVIDâ€19 Community Lockdown, Part 1: Traffic, Drugs, Mental Health, and Disinfectants. Environmental Toxicology and Chemistry, 2022, 41, 1179-1192.	4.3	22
76	Estimating Solar and Nonsolar Inactivation Rates of Airborne Bacteria. Journal of Environmental Engineering, ASCE, 2005, 131, 512-517.	1.4	21
77	Rapid Immunoassays for Detection of UV-Induced Cyclobutane Pyrimidine Dimers in Whole Bacterial Cells. Applied and Environmental Microbiology, 2002, 68, 2542-2549.	3.1	20
78	The climate and health benefits from intensive building energy efficiency improvements. Science Advances, 2021, 7, .	10.3	20
79	Off-Site Exposure to Respirable Aerosols Produced during the Disk-Incorporation of Class B Biosolids. Journal of Environmental Engineering, ASCE, 2007, 133, 987-994.	1.4	19
80	The reestablishment of microbial communities after surface cleaning in schools. Journal of Applied Microbiology, 2018, 125, 897-906.	3.1	19
81	Predicting daily COVID-19 case rates from SARS-CoV-2 RNA concentrations across a diversity of wastewater catchments. FEMS Microbes, 2022, 2, xtab022.	2.1	19
82	Development and Application of a Polydimethylsiloxane-Based Passive Air Sampler to Assess Personal Exposure to SARS-CoV-2. Environmental Science and Technology Letters, 2022, 9, 153-159.	8.7	18
83	Physical Enrichment of Polyphosphate-Accumulating Organisms in Activated Sludge. Water Environment Research, 2002, 74, 354-361.	2.7	17
84	Bacterial and fungal ecology on air conditioning cooling coils is influenced by climate and building factors. Indoor Air, 2020, 30, 326-334.	4.3	17
85	Spatial Gradients of Fungal Abundance and Ecology throughout a Damp Building. Environmental Science and Technology Letters, 2019, 6, 329-333.	8.7	16
86	A DNA aptamer recognizes the Asp f 1 allergen of Aspergillus fumigatus. Biochemical and Biophysical Research Communications, 2009, 386, 544-548.	2.1	15
87	Associations between Quantitative Measures of Fungi in Home Floor Dust and Lung Function among Older Adults with Chronic Respiratory Disease: A Pilot Study. Journal of Asthma, 2012, 49, 502-509.	1.7	15
88	An accessible method for screening aerosol filtration identifies poor-performing commercial masks and respirators. Journal of Exposure Science and Environmental Epidemiology, 2021, 31, 943-952.	3.9	15
89	Identification accuracy and diversity reproducibility associated with internal transcribed spacerâ€based fungal taxonomic library preparation. Environmental Microbiology, 2014, 16, 2764-2776.	3.8	14
90	Evaluating Indoor Air Chemical Diversity, Indoor-to-Outdoor Emissions, and Surface Reservoirs Using High-Resolution Mass Spectrometry. Environmental Science & Technology, 2021, 55, 10255-10267.	10.0	14

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91	Development of CRISPR-Cas9 knock-in tools for free fatty acid production using the fast-growing cyanobacterial strain Synechococcus elongatus UTEX 2973. Journal of Microbiological Methods, 2021, 189, 106315.	1.6	12
92	Why Indoor Chemistry Matters: A National Academies Consensus Report. Environmental Science & Technology, 2022, 56, 10560-10563.	10.0	12
93	Using carbon dioxide to maintain an elevated oleaginous microalga concentration in mixed-culture photo-bioreactors. Bioresource Technology, 2015, 185, 178-184.	9.6	11
94	Respiratory Toxicity and Inflammatory Response in Human Bronchial Epithelial Cells Exposed to Biosolids, Animal Manure, and Agricultural Soil Particulate Matter. Environmental Science & Technology, 2010, 44, 3142-3148.	10.0	10
95	Emerging Pollutants â€“ Part I: Occurrence, Fate and Transport. Water Environment Research, 2012, 84, 1878-1908.	2.7	10
96	Scaling SARS-CoV-2 wastewater concentrations to population estimates of infection. Scientific Reports, 2022, 12, 3487.	3.3	10
97	Influence of collection region and site type on the composition of paved road dust. Air Quality, Atmosphere and Health, 2013, 6, 615-628.	3.3	8
98	Occurrence of respiratory viruses on school desks. American Journal of Infection Control, 2021, 49, 464-468.	2.3	8
99	DNA Sequence-Based Approach for Classifying the Mold Status of Buildings. Environmental Science & Technology, 2020, 54, 15968-15975.	10.0	7
100	Comparing bacterial, fungal, and human cell concentrations with rapid adenosine triphosphate measurements for indicating microbial surface contamination. American Journal of Infection Control, 2019, 47, 671-676.	2.3	6
101	Fecal coliform population dynamics associated with the thermophilic stabilization of treated sewage sludge. Journal of Environmental Monitoring, 2012, 14, 2755.	2.1	5
102	Modeling human off-site aerosol exposures to polybrominated flame retardants emitted during the land application of sewage sludge. Environment International, 2013, 60, 232-241.	10.0	5
103	Cryopreservation of Synechococcus elongatus UTEX 2973. Journal of Applied Phycology, 2019, 31, 2267-2276.	2.8	5
104	Changes in Sewage Sludge Chemical Signatures During a COVIDâ€19 Community Lockdown, Part 2: Nontargeted Analysis of Sludge and Evaluation with COVIDâ€19 Metrics. Environmental Toxicology and Chemistry, 2021, , .	4.3	4
105	How Narrow Is the Gas Phase Mobility Distribution of Enveloped Viruses? The Case of the Î¦6 Bacteriophage. Analytical Chemistry, 2021, 93, 12938-12943.	6.5	3
106	Practitioner-driven research for improving the outcomes of mold inspection and remediation. Science of the Total Environment, 2021, 762, 144190.	8.0	1
107	Next-Generation DNA Sequencing Identifies Pathogens in Biosolids. Proceedings of the Water Environment Federation, 2010, 2010, 5606-5613.	0.0	0