

Timothy R Julian

List of Publications by Year in descending order

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Version: 2024-02-01

50
papers

2,054
citations

279798

23
h-index

289244

40
g-index

59
all docs

59
docs citations

59
times ranked

2648
citing authors

#	ARTICLE	IF	CITATIONS
1	Longitudinal Monitoring of SARS-CoV-2 RNA on High-Touch Surfaces in a Community Setting. Environmental Science and Technology Letters, 2021, 8, 168-175.	8.7	156
2	Fecal Contamination and Diarrheal Pathogens on Surfaces and in Soils among Tanzanian Households with and without Improved Sanitation. Environmental Science & Technology, 2012, 46, 5736-5743.	10.0	149
3	Community Transmission of SARS-CoV-2 by Surfaces: Risks and Risk Reduction Strategies. Environmental Science and Technology Letters, 2021, 8, 263-269.	8.7	116
4	Virus transfer between fingerpads and fomites. Journal of Applied Microbiology, 2010, 109, 1868-1874.	3.1	103
5	Urban informal settlements as hotspots of antimicrobial resistance and the need to curb environmental transmission. Nature Microbiology, 2020, 5, 787-795.	13.3	101
6	Wastewater monitoring outperforms case numbers as a tool to track COVID-19 incidence dynamics when test positivity rates are high. Water Research, 2021, 200, 117252.	11.3	100
7	Wastewater-Based Estimation of the Effective Reproductive Number of SARS-CoV-2. Environmental Health Perspectives, 2022, 130, .	6.0	92
8	Bacterial hand contamination among Tanzanian mothers varies temporally and following household activities. Tropical Medicine and International Health, 2011, 16, 233-239.	2.3	85
9	Escherichia coli Contamination across Multiple Environmental Compartments (Soil, Hands, Drinking) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 2 Tropical Medicine and Hygiene, 2018, 98, 803-813.	1.4	81
10	Environmental transmission of diarrheal pathogens in low and middle income countries. Environmental Sciences: Processes and Impacts, 2016, 18, 944-955.	3.5	73
11	Early detection and surveillance of SARS-CoV-2 genomic variants in wastewater using COJAC. Nature Microbiology, 2022, 7, 1151-1160.	13.3	69
12	Comparison of Surface Sampling Methods for Virus Recovery from Fomites. Applied and Environmental Microbiology, 2011, 77, 6918-6925.	3.1	58
13	A Model of Exposure to Rotavirus from Nondietary Ingestion Iterated by Simulated Intermittent Contacts. Risk Analysis, 2009, 29, 617-632.	2.7	56
14	Hand bacterial communities vary across two different human populations. Microbiology (United) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 2 Microbiology (United), 2011, 151, 1055-1065.	1.8	55
15	Evolution on the Biophysical Fitness Landscape of an RNA Virus. Molecular Biology and Evolution, 2018, 35, 2390-2400.	8.9	45
16	Virus Transfer at the Skinâ€“Liquid Interface. Environmental Science & Technology, 2017, 51, 14417-14425.	10.0	42
17	Challenges in environmental detection of human viral pathogens. Current Opinion in Virology, 2012, 2, 78-83.	5.4	36
18	Fecal Colonization With Multidrug-Resistant E. coli Among Healthy Infants in Rural Bangladesh. Frontiers in Microbiology, 2019, 10, 640.	3.5	36

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19	Genotypic and Phenotypic Characterization of Escherichia coli Isolates from Feces, Hands, and Soils in Rural Bangladesh via the Colilert Quanti-Tray System. <i>Applied and Environmental Microbiology</i> , 2015, 81, 1735-1743.	3.1	31
20	Risk Factors for Detection, Survival, and Growth of Antibiotic-Resistant and Pathogenic Escherichia coli in Household Soils in Rural Bangladesh. <i>Applied and Environmental Microbiology</i> , 2018, 84, .	3.1	31
21	Health Risks for Sanitation Service Workers along a Container-Based Urine Collection System and Resource Recovery Value Chain. <i>Environmental Science & Technology</i> , 2019, 53, 7055-7067.	10.0	29
22	Colloidal Transformations in MS2 Virus Particles: Driven by pH, Influenced by Natural Organic Matter. <i>ACS Nano</i> , 2020, 14, 1879-1887.	14.6	27
23	Estimates of Nitrogen, Phosphorus, Biochemical Oxygen Demand, and Fecal Coliforms Entering the Environment Due to Inadequate Sanitation Treatment Technologies in 108 Low and Middle Income Countries. <i>Environmental Science & Technology</i> , 2015, 49, 11604-11611.	10.0	26
24	High Genomic Diversity and Heterogenous Origins of Pathogenic and Antibiotic-Resistant Escherichia coli in Household Settings Represent a Challenge to Reducing Transmission in Low-Income Settings. <i>MSphere</i> , 2020, 5, .	2.9	25
25	A Pilot Study on Integrating Videography and Environmental Microbial Sampling to Model Fecal Bacterial Exposures in Peri-Urban Tanzania. <i>PLoS ONE</i> , 2015, 10, e0136158.	2.5	23
26	A systematic review of chlorine-based surface disinfection efficacy to inform recommendations for low-resource outbreak settings. <i>American Journal of Infection Control</i> , 2021, 49, 90-103.	2.3	22
27	Handwashing, but how? Microbial effectiveness of existing handwashing practices in high-density suburbs of Harare, Zimbabwe. <i>American Journal of Infection Control</i> , 2017, 45, 228-233.	2.3	20
28	High time-resolution simulation of E. coli on hands reveals large variation in microbial exposures amongst Vietnamese farmers using human excreta for agriculture. <i>Science of the Total Environment</i> , 2018, 635, 120-131.	8.0	20
29	Evaluating a transfer gradient assumption in a fomite-mediated microbial transmission model using an experimental and Bayesian approach. <i>Journal of the Royal Society Interface</i> , 2020, 17, 20200121.	3.4	20
30	Fecal Indicator Bacteria Contamination of Fomites and Household Demand for Surface Disinfection Products: A Case Study from Peru. <i>American Journal of Tropical Medicine and Hygiene</i> , 2013, 89, 869-872.	1.4	19
31	Adaptation of Human Enterovirus to Warm Environments Leads to Resistance against Chlorine Disinfection. <i>Environmental Science & Technology</i> , 2020, 54, 11292-11300.	10.0	18
32	Transfer of Enteric Viruses Adenovirus and Coxsackievirus and Bacteriophage MS2 from Liquid to Human Skin. <i>Applied and Environmental Microbiology</i> , 2018, 84, .	3.1	16
33	Bacteriophage Treatment before Chemical Disinfection Can Enhance Removal of Plastic-Surface-Associated Pseudomonas aeruginosa. <i>Applied and Environmental Microbiology</i> , 2021, 87, e0098021.	3.1	15
34	Safely Managed Hygiene: A Risk-Based Assessment of Handwashing Water Quality. <i>Environmental Science & Technology</i> , 2019, 53, 2852-2861.	10.0	13
35	Competitive co-adsorption of bacteriophage MS2 and natural organic matter onto multiwalled carbon nanotubes. <i>Water Research X</i> , 2020, 9, 100058.	6.1	13
36	Enterococcus spp on fomites and hands indicate increased risk of respiratory illness in child care centers. <i>American Journal of Infection Control</i> , 2013, 41, 728-733.	2.3	12

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37	Inferring transmission fitness advantage of SARS-CoV-2 variants of concern from wastewater samples using digital PCR, Switzerland, December 2020 through March 2021. <i>Eurosurveillance</i> , 2022, 27, .	7.0	12
38	Silica nanoparticles with encapsulated DNA (SPED) – a novel surrogate tracer for microbial transmission in healthcare. <i>Antimicrobial Resistance and Infection Control</i> , 2020, 9, 152.	4.1	11
39	Evaluation of the novel substrate RUG ₂ for the detection of <i>Escherichia coli</i> in water from temperate (Zurich, Switzerland) and tropical (Bushenyi, Uganda) field sites. <i>Environmental Science: Water Research and Technology</i> , 2019, 5, 1082-1091.	2.4	10
40	Wastewater Reveals the Spatiotemporal Spread of SARS-CoV-2 in the Canton of Ticino (Switzerland) during the Onset of the COVID-19 Pandemic. <i>ACS ES&T Water</i> , 2022, 2, 2194-2200.	4.6	10
41	Evaluating Efficacy of Field-Generated Electrochemical Oxidants on Disinfection of Fomites Using Bacteriophage MS2 and Mouse Norovirus MNV-1 as Pathogenic Virus Surrogates. <i>Food and Environmental Virology</i> , 2014, 6, 145-155.	3.4	9
42	Drinking water chlorination has minor effects on the intestinal flora and resistomes of Bangladeshi children. <i>Nature Microbiology</i> , 2022, 7, 620-629.	13.3	9
43	Murine norovirus (MNV-1) exposure in vitro to the purine nucleoside analog Ribavirin increases quasispecies diversity. <i>Virus Research</i> , 2016, 211, 165-173.	2.2	7
44	Quantifying human-environment interactions using videography in the context of infectious disease transmission. <i>Geospatial Health</i> , 2018, 13, 631.	0.8	6
45	Retention of <i>E. coli</i> and water on the skin after liquid contact. <i>PLoS ONE</i> , 2020, 15, e0238998.	2.5	5
46	Identifying the Sources of Intestinal Colonization With Extended-Spectrum β -Lactamase-Producing <i>Escherichia coli</i> in Healthy Infants in the Community. <i>Frontiers in Microbiology</i> , 2022, 13, 803043.	3.5	2
47	Fecal Contamination in Child Play Spaces and on Child Hands Are Associated with Subsequent Adverse Child Developmental Outcomes in Rural Democratic Republic of the Congo: REDUCE Prospective Cohort Study. <i>American Journal of Tropical Medicine and Hygiene</i> , 2022, 106, 1141-1148.	1.4	2
48	Digital multiplex ligation assay for highly multiplexed screening of β -lactamase-encoding genes in bacterial isolates. <i>Communications Biology</i> , 2020, 3, 264.	4.4	1
49	Prider: multiplexed primer design using linearly scaling approximation of set coverage. <i>BMC Bioinformatics</i> , 2022, 23, 174.	2.6	1
50	How wastewater informs COVID-19 policy in Switzerland. , 2022, 3, .		0