Timothy R Julian

List of Publications by Year
in descending order

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	Identifying the Sources of Intestinal Colonization With Extended-Spectrum Î²-Lactamase-Producing Escherichia coli in Healthy Infants in the Community. Frontiers in Microbiology, 2022, 13, 803043.	3.5	2
2	How wastewater informs COVID-19 policy in Switzerland. , 2022, 3, .		0
3	Inferring transmission fitness advantage of SARS-CoV-2 variants of concern from wastewater samples using digital PCR, Switzerland, December 2020 through March 2021. Eurosurveillance, 2022, 27, .	7.0	12
4	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. American Journal of Tropical Medicine and Hygiene, 2022, 106, 1141-1148.	1.4	2
5	Drinking water chlorination has minor effects on the intestinal flora and resistomes of Bangladeshi children. Nature Microbiology, 2022, 7, 620-629.	13.3	9
6	Prider: multiplexed primer design using linearly scaling approximation of set coverage. BMC Bioinformatics, 2022, 23, 174.	2.6	1
7	Wastewater Reveals the Spatiotemporal Spread of SARS-CoV-2 in the Canton of Ticino (Switzerland) during the Onset of the COVID-19 Pandemic. ACS ES&T Water, 2022, 2, 2194-2200.	4.6	10
8	Wastewater-Based Estimation of the Effective Reproductive Number of SARS-CoV-2. Environmental Health Perspectives, 2022, 130, .	6.0	92
9	Early detection and surveillance of SARS-CoV-2 genomic variants in wastewater using COJAC. Nature Microbiology, 2022, 7, 1151-1160.	13.3	69
10	A systematic review of chlorine-based surface disinfection efficacy to inform recommendations for low-resource outbreak settings. American Journal of Infection Control, 2021, 49, 90-103.	2.3	22
11	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
12	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
13	Bacteriophage Treatment before Chemical Disinfection Can Enhance Removal of Plastic-Surface-Associated Pseudomonas aeruginosa. Applied and Environmental Microbiology, 2021, 87, e0098021.	3.1	15
14	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
15	Retention of E. coli and water on the skin after liquid contact. PLoS ONE, 2020, 15, e0238998.	2.5	5
16	Evaluating a transfer gradient assumption in a fomite-mediated microbial transmission model using an experimental and Bayesian approach. Journal of the Royal Society Interface, 2020, 17, 20200121.	3.4	20
17	Adaptation of Human Enterovirus to Warm Environments Leads to Resistance against Chlorine Disinfection. Environmental Science & Technology, 2020, 54, 11292-11300.	10.0	18
18	Silica nanoparticles with encapsulated DNA (SPED) â€“ a novel surrogate tracer for microbial transmission in healthcare. Antimicrobial Resistance and Infection Control, 2020, 9, 152.	4.1	11

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19	Competitive co-adsorption of bacteriophage MS2 and natural organic matter onto multiwalled carbon nanotubes. Water Research X, 2020, 9, 100058.	6.1	13
20	Digital multiplex ligation assay for highly multiplexed screening of Î²-lactamase-encoding genes in bacterial isolates. Communications Biology, 2020, 3, 264.	4.4	1
21	Colloidal Transformations in MS2 Virus Particles: Driven by pH, Influenced by Natural Organic Matter. ACS Nano, 2020, 14, 1879-1887.	14.6	27
22	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. MSphere, 2020, 5, .	2.9	25
23	Urban informal settlements as hotspots of antimicrobial resistance and the need to curb environmental transmission. Nature Microbiology, 2020, 5, 787-795.	13.3	101
24	Evaluation of the novel substrate RUGâ„¢ for the detection ofEscherichia coliin water from temperate (Zurich, Switzerland) and tropical (Bushenyi, Uganda) field sites. Environmental Science: Water Research and Technology, 2019, 5, 1082-1091.	2.4	10
25	Safely Managed Hygiene: A Risk-Based Assessment of Handwashing Water Quality. Environmental Science & Technology, 2019, 53, 2852-2861.	10.0	13
26	Health Risks for Sanitation Service Workers along a Container-Based Urine Collection System and Resource Recovery Value Chain. Environmental Science & Technology, 2019, 53, 7055-7067.	10.0	29
27	Fecal Colonization With Multidrug-Resistant E. coli Among Healthy Infants in Rural Bangladesh. Frontiers in Microbiology, 2019, 10, 640.	3.5	36
28	High time-resolution simulation of E. coli on hands reveals large variation in microbial exposures amongst Vietnamese farmers using human excreta for agriculture. Science of the Total Environment, 2018, 635, 120-131.	8.0	20
29	Quantifying human-environment interactions using videography in the context of infectious disease transmission. Geospatial Health, 2018, 13, 631.	0.8	6
30	Escherichia coli Contamination across Multiple Environmental Compartments (Soil, Hands, Drinking) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5 Tropical Medicine and Hygiene, 2018, 98, 803-813.	1.4	81
31	Risk Factors for Detection, Survival, and Growth of Antibiotic-Resistant and Pathogenic Escherichia coli in Household Soils in Rural Bangladesh. Applied and Environmental Microbiology, 2018, 84, .	3.1	31
32	Transfer of Enteric Viruses Adenovirus and Coxsackievirus and Bacteriophage MS2 from Liquid to Human Skin. Applied and Environmental Microbiology, 2018, 84, .	3.1	16
33	Evolution on the Biophysical Fitness Landscape of an RNA Virus. Molecular Biology and Evolution, 2018, 35, 2390-2400.	8.9	45
34	Virus Transfer at the Skinâ€“Liquid Interface. Environmental Science & Technology, 2017, 51, 14417-14425.	10.0	42
35	Handwashing, but how? Microbial effectiveness of existing handwashing practices in high-density suburbs of Harare, Zimbabwe. American Journal of Infection Control, 2017, 45, 228-233.	2.3	20
36	Environmental transmission of diarrheal pathogens in low and middle income countries. Environmental Sciences: Processes and Impacts, 2016, 18, 944-955.	3.5	73

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37	Murine norovirus (MNV-1) exposure in vitro to the purine nucleoside analog Ribavirin increases quasispecies diversity. Virus Research, 2016, 211, 165-173.	2.2	7
38	Genotypic and Phenotypic Characterization of Escherichia coli Isolates from Feces, Hands, and Soils in Rural Bangladesh via the Colilert Quanti-Tray System. Applied and Environmental Microbiology, 2015, 81, 1735-1743.	3.1	31
39	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. Environmental Science & Technology, 2015, 49, 11604-11611.	10.0	26
40	A Pilot Study on Integrating Videography and Environmental Microbial Sampling to Model Fecal Bacterial Exposures in Peri-Urban Tanzania. PLoS ONE, 2015, 10, e0136158.	2.5	23
41	Evaluating Efficacy of Field-Generated Electrochemical Oxidants on Disinfection of Fomites Using Bacteriophage MS2 and Mouse Norovirus MNV-1 as Pathogenic Virus Surrogates. Food and Environmental Virology, 2014, 6, 145-155.	3.4	9
42	Hand bacterial communities vary across two different human populations. Microbiology (United) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 5	1.8	55
43	Enterococcus spp on fomites and hands indicate increased risk of respiratory illness in child care centers. American Journal of Infection Control, 2013, 41, 728-733.	2.3	12
44	Fecal Indicator Bacteria Contamination of Fomites and Household Demand for Surface Disinfection Products: A Case Study from Peru. American Journal of Tropical Medicine and Hygiene, 2013, 89, 869-872.	1.4	19
45	Challenges in environmental detection of human viral pathogens. Current Opinion in Virology, 2012, 2, 78-83.	5.4	36
46	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
47	Bacterial hand contamination among Tanzanian mothers varies temporally and following household activities. Tropical Medicine and International Health, 2011, 16, 233-239.	2.3	85
48	Comparison of Surface Sampling Methods for Virus Recovery from Fomites. Applied and Environmental Microbiology, 2011, 77, 6918-6925.	3.1	58
49	Virus transfer between fingerpads and fomites. Journal of Applied Microbiology, 2010, 109, 1868-1874.	3.1	103
50	A Model of Exposure to Rotavirus from Nondietary Ingestion Iterated by Simulated Intermittent Contacts. Risk Analysis, 2009, 29, 617-632.	2.7	56