Kerry A Hamilton

List of Publications by Year
in descending order

59 papers	2,512 citations	279798 23 h-index	214800 47 g-index
62 all docs	62 docs citations	62 times ranked	3058 citing authors

#	Article	IF	Citations
1	Minimizing errors in RT-PCR detection and quantification of SARS-CoV-2 RNA for wastewater surveillance. Science of the Total Environment, 2022, 805, 149877.	8.0	153
2	Tenets of a holistic approach to drinking water-associated pathogen research, management, and communication. Water Research, 2022, 211, 117997.	11.3	21
3	Quantitative microbial risk assessment of outdoor aerosolized pathogens in cities with poor sanitation. Science of the Total Environment, 2022, 827, 154233.	8.0	8
4	Navigating Data Uncertainty and Modeling Assumptions in Quantitative Microbial Risk Assessment in an Informal Settlement in Kampala, Uganda. Environmental Science & Technology, 2021, 55, 5463-5474.	10.0	9
5	Physical, Chemical, and Microbiological Water Quality Variation between City and Building and within Multistory Building. ACS ES&T Water, 2021, 1, 1369-1379.	4.6	9
6	Antibiotic Resistance and Sewage-Associated Marker Genes in Untreated Sewage and a River Characterized During Baseflow and Stormflow. Frontiers in Microbiology, 2021, 12, 632850.	3.5	12
7	Discussion on â€œPotential discharge, attenuation and exposure risk of SARS-CoV-2 in natural water bodies receiving treated wastewaterâ€• Npj Clean Water, 2021, 4, .	8.0	2
8	Legionnairesâ€™ disease in dental offices: Quantifying aerosol risks to dental workers and patients. Journal of Occupational and Environmental Hygiene, 2021, 18, 378-393.	1.0	4
9	Quantitative analysis of horizontal gene transfer in complex systems. Current Opinion in Microbiology, 2021, 62, 103-109.	5.1	13
10	Systematic review of the relative concentrations of noroviruses and fecal indicator bacteria in wastewater: considerations for use in quantitative microbial risk assessment. Journal of Water and Health, 2021, 19, 918-932.	2.6	5
11	Differentiating between the possibility and probability of SARS-CoV-2 transmission associated with wastewater: empirical evidence is needed to substantiate risk. FEMS Microbes, 2021, 2, .	2.1	24
12	Computational framework for evaluating risk trade-offs in costs associated with legionnaires' disease risk, energy, and scalding risk for hospital hot water systems. Environmental Science: Water Research and Technology, 2021, 8, 76-97.	2.4	4
13	Towards risk assessment for antibiotic resistant pathogens in recycled water: a systematic review and summary of research needs. Environmental Microbiology, 2021, 23, 7355-7372.	3.8	17
14	Quantitative Microbial Risk Assessment of Antimicrobial Resistant and Susceptible Staphylococcus aureus in Reclaimed Wastewaters. Environmental Science & Technology, 2021, 55, 15246-15255.	10.0	18
15	Surveillance of SARS-CoV-2 RNA in wastewater: Methods optimization and quality control are crucial for generating reliable public health information. Current Opinion in Environmental Science and Health, 2020, 17, 82-93.	4.1	126
16	Detection of SARS-CoV-2 RNA in commercial passenger aircraft and cruise ship wastewater: a surveillance tool for assessing the presence of COVID-19 infected travellers. Journal of Travel Medicine, 2020, 27, .	3.0	146
17	Considerations for large building water quality after extended stagnation. AWWA Water Science, 2020, 2, e1186.	2.1	85
18	Full factorial study of pipe characteristics, stagnation times, and water quality. AWWA Water Science, 2020, 2, e1204.	2.1	13

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19	Editorial: Occupational safety and health: Emerging microbial contaminants and human health effects. Current Opinion in Environmental Science and Health, 2020, 16, A1-A3.	4.1	0
20	Tracking copper, chlorine, and occupancy in a new, multi-story, institutional green building. Environmental Science: Water Research and Technology, 2020, 6, 1672-1680.	2.4	14
21	Editorial Perspectives: will SARS-CoV-2 reset public health requirements in the water industry? Integrating lessons of the past and emerging research. Environmental Science: Water Research and Technology, 2020, 6, 1761-1764.	2.4	8
22	Antimicrobial-resistant microorganisms and their genetic determinants in stormwater: A systematic review. Current Opinion in Environmental Science and Health, 2020, 16, 101-112.	4.1	18
23	EMA-amplicon-based sequencing informs risk assessment analysis of water treatment systems. Science of the Total Environment, 2020, 743, 140717.	8.0	8
24	Identification of reliable marker genes for the detection of canine fecal contamination in sub-tropical Australia. Science of the Total Environment, 2020, 718, 137246.	8.0	6
25	Comparing microbial risks from multiple sustainable waste streams applied for agricultural use: Biosolids, manure, and diverted urine. Current Opinion in Environmental Science and Health, 2020, 14, 37-50.	4.1	13
26	SARS-CoV-2 in wastewater: State of the knowledge and research needs. Science of the Total Environment, 2020, 739, 139076.	8.0	599
27	Managing Water Quality in Premise Plumbing: Subject Matter Expertsâ€™ Perspectives and a Systematic Review of Guidance Documents. Water (Switzerland), 2020, 12, 347.	2.7	33
28	A review on microbial contaminants in stormwater runoff and outfalls: Potential health risks and mitigation strategies. Science of the Total Environment, 2019, 692, 1304-1321.	8.0	85
29	A quantitative risk assessment method for synthetic biology products in the environment. Science of the Total Environment, 2019, 696, 133940.	8.0	9
30	Synergy between quantitative microbial source tracking (qMST) and quantitative microbial risk assessment (QMRA): A review and prospectus. Environment International, 2019, 130, 104703.	10.0	58
31	Risk-Based Critical Concentrations of Legionella pneumophila for Indoor Residential Water Uses. Environmental Science & Technology, 2019, 53, 4528-4541.	10.0	77
32	Reverse QMRA as a Decision Support Tool: Setting Acceptable Concentration Limits for Pseudomonas aeruginosa and Naegleria fowleri. Water (Switzerland), 2019, 11, 1850.	2.7	22
33	A global review of the microbiological quality and potential health risks associated with roof-harvested rainwater tanks. Npj Clean Water, 2019, 2, .	8.0	67
34	Comparison of pathogen-derived â€˜total riskâ€™ with indicator-based correlations for recreational (swimming) exposure. Environmental Science and Pollution Research, 2019, 26, 30614-30624.	5.3	17
35	Protozoan pathogens Blastocystis and Giardia spp. in roof-harvested rainwater: the need to investigate the role of the common brushtail possum (Trichosurus vulpecula) and other potential sources of zoonotic transmission. Journal of Water Sanitation and Hygiene for Development, 2019, 9, 780-785.	1.8	8
36	Salmonella risks due to consumption of aquaculture-produced shrimp. Microbial Risk Analysis, 2018, 9, 22-32.	2.3	22

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37	Microfluidic quantification of multiple enteric and opportunistic bacterial pathogens in roof-harvested rainwater tank samples. Environmental Monitoring and Assessment, 2018, 190, 105.	2.7	11
38	Abundance of Naegleria fowleri in roof-harvested rainwater tank samples from two continents. Environmental Science and Pollution Research, 2018, 25, 5700-5710.	5.3	14
39	Health risks from exposure to Legionella in reclaimed water aerosols: Toilet flushing, spray irrigation, and cooling towers. Water Research, 2018, 134, 261-279.	11.3	93
40	Development of community of practice to support quantitative risk assessment for synthetic biology products: contaminant bioremediation and invasive carp control as cases. Environment Systems and Decisions, 2018, 38, 517-527.	3.4	17
41	Quantitative microbial risk assessment of microbial source tracking markers in recreational water contaminated with fresh untreated and secondary treated sewage. Environment International, 2018, 117, 243-249.	10.0	67
42	Assessment of Water Quality in Roof-Harvested Rainwater Barrels in Greater Philadelphia. Water (Switzerland), 2018, 10, 92.	2.7	10
43	Outbreaks of Legionnairesâ€™ Disease and Pontiac Fever 2006â€“2017. Current Environmental Health Reports, 2018, 5, 263-271.	6.7	59
44	Cryptosporidium and Giardia in Wastewater and Surface Water Environments. Journal of Environmental Quality, 2018, 47, 1006-1023.	2.0	36
45	Incorporating Timeâ€Doseâ€Response into Legionella Outbreak Models. Risk Analysis, 2017, 37, 291-304.	2.7	8
46	Microbial risk from source-separated urine used as liquid fertilizer in sub-tropical Australia. Microbial Risk Analysis, 2017, 5, 53-64.	2.3	8
47	Human health risks for Legionella and Mycobacterium avium complex (MAC) from potable and non-potable uses of roof-harvested rainwater. Water Research, 2017, 119, 288-303.	11.3	51
48	Rainwater harvesting in American Samoa: current practices and indicative health risks. Environmental Science and Pollution Research, 2017, 24, 12384-12392.	5.3	18
49	Dose response models and a quantitative microbial risk assessment framework for the Mycobacterium avium complex that account for recent developments in molecular biology, taxonomy, and epidemiology. Water Research, 2017, 109, 310-326.	11.3	28
50	Seasonal Assessment of Opportunistic Premise Plumbing Pathogens in Roof-Harvested Rainwater Tanks. Environmental Science & Technology, 2017, 51, 1742-1753.	10.0	31
51	Amplicon-based taxonomic characterization of bacteria in urban and peri-urban roof-harvested rainwater stored in tanks. Science of the Total Environment, 2017, 576, 326-334.	8.0	46
52	Drivers of Microbial Risk for Direct Potable Reuse and de Facto Reuse Treatment Schemes: The Impacts of Source Water Quality and Blending. International Journal of Environmental Research and Public Health, 2017, 14, 635.	2.6	37
53	Evidence of Avian and Possum Fecal Contamination in Rainwater Tanks as Determined by Microbial Source Tracking Approaches. Applied and Environmental Microbiology, 2016, 82, 4379-4386.	3.1	22
54	Critical review of mathematical approaches for quantitative microbial risk assessment (QMRA) of Legionella in engineered water systems: research gaps and a new framework. Environmental Science: Water Research and Technology, 2016, 2, 599-613.	2.4	41

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55	Public health implications of Acanthamoeba and multiple potential opportunistic pathogens in roof-harvested rainwater tanks. Environmental Research, 2016, 150, 320-327.	7.5	41
56	Utility of Helicobacter spp. associated GFD markers for detecting avian fecal pollution in natural waters of two continents. Water Research, 2016, 88, 613-622.	11.3	30
57	Evaluating the Potential for a Helicobacter pylori Drinking Water Guideline. Risk Analysis, 2014, 34, 1651-1662.	2.7	13
58	In Vitro Perturbations of Targets in Cancer Hallmark Processes Predict Rodent Chemical Carcinogenesis. Toxicological Sciences, 2013, 131, 40-55.	3.1	67
59	6-Alkyl-3,4-dihydro-2H-pyrans: Chemical Secretion Compounds in Neotropical Harvestmen. Journal of Natural Products, 2011, 74, 658-663.	3.0	23