

Kerry A Hamilton

List of Publications by Year in descending order

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59
papers

2,512
citations

318942

23
h-index

242451

47
g-index

62
all docs

62
docs citations

62
times ranked

3342
citing authors

#	ARTICLE	IF	CITATIONS
1	Minimizing errors in RT-PCR detection and quantification of SARS-CoV-2 RNA for wastewater surveillance. <i>Science of the Total Environment</i> , 2022, 805, 149877.	3.9	153
2	Tenets of a holistic approach to drinking water-associated pathogen research, management, and communication. <i>Water Research</i> , 2022, 211, 117997.	5.3	21
3	Quantitative microbial risk assessment of outdoor aerosolized pathogens in cities with poor sanitation. <i>Science of the Total Environment</i> , 2022, 827, 154233.	3.9	8
4	Navigating Data Uncertainty and Modeling Assumptions in Quantitative Microbial Risk Assessment in an Informal Settlement in Kampala, Uganda. <i>Environmental Science & Technology</i> , 2021, 55, 5463-5474.	4.6	9
5	Physical, Chemical, and Microbiological Water Quality Variation between City and Building and within Multistory Building. <i>ACS ES&T Water</i> , 2021, 1, 1369-1379.	2.3	9
6	Antibiotic Resistance and Sewage-Associated Marker Genes in Untreated Sewage and a River Characterized During Baseflow and Stormflow. <i>Frontiers in Microbiology</i> , 2021, 12, 632850.	1.5	12
7	Discussion on "Potential discharge, attenuation and exposure risk of SARS-CoV-2 in natural water bodies receiving treated wastewater". <i>Npj Clean Water</i> , 2021, 4, .	3.1	2
8	Legionnaires' disease in dental offices: Quantifying aerosol risks to dental workers and patients. <i>Journal of Occupational and Environmental Hygiene</i> , 2021, 18, 378-393.	0.4	4
9	Quantitative analysis of horizontal gene transfer in complex systems. <i>Current Opinion in Microbiology</i> , 2021, 62, 103-109.	2.3	13
10	Systematic review of the relative concentrations of noroviruses and fecal indicator bacteria in wastewater: considerations for use in quantitative microbial risk assessment. <i>Journal of Water and Health</i> , 2021, 19, 918-932.	1.1	5
11	Differentiating between the possibility and probability of SARS-CoV-2 transmission associated with wastewater: empirical evidence is needed to substantiate risk. <i>FEMS Microbes</i> , 2021, 2, .	0.8	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. <i>Environmental Science: Water Research and Technology</i> , 2021, 8, 76-97.	1.2	4
13	Towards risk assessment for antibiotic resistant pathogens in recycled water: a systematic review and summary of research needs. <i>Environmental Microbiology</i> , 2021, 23, 7355-7372.	1.8	17
14	Quantitative Microbial Risk Assessment of Antimicrobial Resistant and Susceptible <i>Staphylococcus aureus</i> in Reclaimed Wastewaters. <i>Environmental Science & Technology</i> , 2021, 55, 15246-15255.	4.6	18
15	Surveillance of SARS-CoV-2 RNA in wastewater: Methods optimization and quality control are crucial for generating reliable public health information. <i>Current Opinion in Environmental Science and Health</i> , 2020, 17, 82-93.	2.1	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. <i>Journal of Travel Medicine</i> , 2020, 27, .	1.4	146
17	Considerations for large building water quality after extended stagnation. <i>AWWA Water Science</i> , 2020, 2, e1186.	1.0	85
18	Full factorial study of pipe characteristics, stagnation times, and water quality. <i>AWWA Water Science</i> , 2020, 2, e1204.	1.0	13

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19	Editorial: Occupational safety and health: Emerging microbial contaminants and human health effects. <i>Current Opinion in Environmental Science and Health</i> , 2020, 16, A1-A3.	2.1	0
20	Tracking copper, chlorine, and occupancy in a new, multi-story, institutional green building. <i>Environmental Science: Water Research and Technology</i> , 2020, 6, 1672-1680.	1.2	14
21	Editorial Perspectives: will SARS-CoV-2 reset public health requirements in the water industry? Integrating lessons of the past and emerging research. <i>Environmental Science: Water Research and Technology</i> , 2020, 6, 1761-1764.	1.2	8
22	Antimicrobial-resistant microorganisms and their genetic determinants in stormwater: A systematic review. <i>Current Opinion in Environmental Science and Health</i> , 2020, 16, 101-112.	2.1	18
23	EMA-amplicon-based sequencing informs risk assessment analysis of water treatment systems. <i>Science of the Total Environment</i> , 2020, 743, 140717.	3.9	8
24	Identification of reliable marker genes for the detection of canine fecal contamination in sub-tropical Australia. <i>Science of the Total Environment</i> , 2020, 718, 137246.	3.9	6
25	Comparing microbial risks from multiple sustainable waste streams applied for agricultural use: Biosolids, manure, and diverted urine. <i>Current Opinion in Environmental Science and Health</i> , 2020, 14, 37-50.	2.1	13
26	SARS-CoV-2 in wastewater: State of the knowledge and research needs. <i>Science of the Total Environment</i> , 2020, 739, 139076.	3.9	599
27	Managing Water Quality in Premise Plumbing: Subject Matter Experts' Perspectives and a Systematic Review of Guidance Documents. <i>Water (Switzerland)</i> , 2020, 12, 347.	1.2	33
28	A review on microbial contaminants in stormwater runoff and outfalls: Potential health risks and mitigation strategies. <i>Science of the Total Environment</i> , 2019, 692, 1304-1321.	3.9	85
29	A quantitative risk assessment method for synthetic biology products in the environment. <i>Science of the Total Environment</i> , 2019, 696, 133940.	3.9	9
30	Synergy between quantitative microbial source tracking (qMST) and quantitative microbial risk assessment (QMRA): A review and prospectus. <i>Environment International</i> , 2019, 130, 104703.	4.8	58
31	Risk-Based Critical Concentrations of <i>Legionella pneumophila</i> for Indoor Residential Water Uses. <i>Environmental Science & Technology</i> , 2019, 53, 4528-4541.	4.6	77
32	Reverse QMRA as a Decision Support Tool: Setting Acceptable Concentration Limits for <i>Pseudomonas aeruginosa</i> and <i>Naegleria fowleri</i> . <i>Water (Switzerland)</i> , 2019, 11, 1850.	1.2	22
33	A global review of the microbiological quality and potential health risks associated with roof-harvested rainwater tanks. <i>Npj Clean Water</i> , 2019, 2, .	3.1	67
34	Comparison of pathogen-derived "total risk" with indicator-based correlations for recreational (swimming) exposure. <i>Environmental Science and Pollution Research</i> , 2019, 26, 30614-30624.	2.7	17
35	Protozoan pathogens <i>Blastocystis</i> and <i>Giardia</i> spp. in roof-harvested rainwater: the need to investigate the role of the common brushtail possum (<i>Trichosurus vulpecula</i>) and other potential sources of zoonotic transmission. <i>Journal of Water Sanitation and Hygiene for Development</i> , 2019, 9, 780-785.	0.7	8
36	Salmonella risks due to consumption of aquaculture-produced shrimp. <i>Microbial Risk Analysis</i> , 2018, 9, 22-32.	1.3	22

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37	Microfluidic quantification of multiple enteric and opportunistic bacterial pathogens in roof-harvested rainwater tank samples. <i>Environmental Monitoring and Assessment</i> , 2018, 190, 105.	1.3	11
38	Abundance of <i>Naegleria fowleri</i> in roof-harvested rainwater tank samples from two continents. <i>Environmental Science and Pollution Research</i> , 2018, 25, 5700-5710.	2.7	14
39	Health risks from exposure to <i>Legionella</i> in reclaimed water aerosols: Toilet flushing, spray irrigation, and cooling towers. <i>Water Research</i> , 2018, 134, 261-279.	5.3	93
40	Development of community of practice to support quantitative risk assessment for synthetic biology products: contaminant bioremediation and invasive carp control as cases. <i>Environment Systems and Decisions</i> , 2018, 38, 517-527.	1.9	17
41	Quantitative microbial risk assessment of microbial source tracking markers in recreational water contaminated with fresh untreated and secondary treated sewage. <i>Environment International</i> , 2018, 117, 243-249.	4.8	67
42	Assessment of Water Quality in Roof-Harvested Rainwater Barrels in Greater Philadelphia. <i>Water (Switzerland)</i> , 2018, 10, 92.	1.2	10
43	Outbreaks of Legionnaires' Disease and Pontiac Fever 2006–2017. <i>Current Environmental Health Reports</i> , 2018, 5, 263-271.	3.2	59
44	<i>Cryptosporidium</i> and <i>Giardia</i> in Wastewater and Surface Water Environments. <i>Journal of Environmental Quality</i> , 2018, 47, 1006-1023.	1.0	36
45	Incorporating Time–Dose–Response into <i>Legionella</i> Outbreak Models. <i>Risk Analysis</i> , 2017, 37, 291-304.	1.5	8
46	Microbial risk from source-separated urine used as liquid fertilizer in sub-tropical Australia. <i>Microbial Risk Analysis</i> , 2017, 5, 53-64.	1.3	8
47	Human health risks for <i>Legionella</i> and <i>Mycobacterium avium</i> complex (MAC) from potable and non-potable uses of roof-harvested rainwater. <i>Water Research</i> , 2017, 119, 288-303.	5.3	51
48	Rainwater harvesting in American Samoa: current practices and indicative health risks. <i>Environmental Science and Pollution Research</i> , 2017, 24, 12384-12392.	2.7	18
49	Dose response models and a quantitative microbial risk assessment framework for the <i>Mycobacterium avium</i> complex that account for recent developments in molecular biology, taxonomy, and epidemiology. <i>Water Research</i> , 2017, 109, 310-326.	5.3	28
50	Seasonal Assessment of Opportunistic Premise Plumbing Pathogens in Roof-Harvested Rainwater Tanks. <i>Environmental Science & Technology</i> , 2017, 51, 1742-1753.	4.6	31
51	Amplicon-based taxonomic characterization of bacteria in urban and peri-urban roof-harvested rainwater stored in tanks. <i>Science of the Total Environment</i> , 2017, 576, 326-334.	3.9	46
52	Drivers of Microbial Risk for Direct Potable Reuse and de Facto Reuse Treatment Schemes: The Impacts of Source Water Quality and Blending. <i>International Journal of Environmental Research and Public Health</i> , 2017, 14, 635.	1.2	37
53	Evidence of Avian and Possum Fecal Contamination in Rainwater Tanks as Determined by Microbial Source Tracking Approaches. <i>Applied and Environmental Microbiology</i> , 2016, 82, 4379-4386.	1.4	22
54	Critical review of mathematical approaches for quantitative microbial risk assessment (QMRA) of <i>Legionella</i> in engineered water systems: research gaps and a new framework. <i>Environmental Science: Water Research and Technology</i> , 2016, 2, 599-613.	1.2	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.	3.7	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.	5.3	30
57	Evaluating the Potential for a <i>Helicobacter pylori</i> Drinking Water Guideline. Risk Analysis, 2014, 34, 1651-1662.	1.5	13
58	In Vitro Perturbations of Targets in Cancer Hallmark Processes Predict Rodent Chemical Carcinogenesis. Toxicological Sciences, 2013, 131, 40-55.	1.4	67
59	6-Alkyl-3,4-dihydro-2<i>H</i>-pyrans: Chemical Secretion Compounds in Neotropical Harvestmen. Journal of Natural Products, 2011, 74, 658-663.	1.5	23