

Rob C Jamieson

List of Publications by Year in descending order

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92
papers

2,374
citations

236912
25
h-index

233409
45
g-index

94
all docs

94
docs citations

94
times ranked

2707
citing authors

#	ARTICLE	IF	CITATIONS
1	CrAssphage as an indicator of groundwater-borne pollution in coastal ecosystems. Environmental Research Communications, 2022, 4, 051001.	2.3	6
2	Biodegradation kinetics of individual and mixture non-steroidal anti-inflammatory drugs in an agricultural soil receiving alkaline treated biosolids. Science of the Total Environment, 2021, 755, 142520.	8.0	15
3	Detection of SARS-CoV-2 in wastewater in Halifax, Nova Scotia, Canada, using four RT-qPCR assays. Facets, 2021, 6, 959-965.	2.4	9
4	Hydrological Analysis of Municipal Source Water Availability in the Canadian Arctic Territory of Nunavut. Arctic, 2021, 74, 30-41.	0.4	3
5	Fate and distribution of determinants of antimicrobial resistance in lateral flow sand filters used for treatment of domestic wastewater. Science of the Total Environment, 2021, 767, 145481.	8.0	4
6	Comparative genomic analyses of β -lactamase (<i>bla</i> _{CMY-42})-encoding plasmids isolated from wastewater treatment plants in Canada. Canadian Journal of Microbiology, 2021, 67, 737-748.	1.7	3
7	Modeling Reactive Solute Transport in Permafrost-Affected Groundwater Systems. Water Resources Research, 2021, 57, e2020WR028771.	4.2	19
8	Changes in Bacterial Communities During Treatment of Municipal Wastewater in Arctic Wastewater Stabilization Ponds. Frontiers in Water, 2021, 3, .	2.3	2
9	Development of a rapid pre-concentration protocol and a magnetic beads-based RNA extraction method for SARS-CoV-2 detection in raw municipal wastewater. Environmental Science: Water Research and Technology, 2021, 8, 47-61.	2.4	14
10	Microbial risk assessment and mitigation options for wastewater treatment in Arctic Canada. Microbial Risk Analysis, 2021, , 100186.	2.3	1
11	Effect of different sediment dewatering techniques on subsequent particle sizes in industrial derived effluent. Canadian Journal of Civil Engineering, 2020, 47, 1145-1153.	1.3	8
12	Lateral flow sand filters are effective for removal of antibiotic resistance genes from domestic wastewater. Water Research, 2019, 162, 482-491.	11.3	22
13	Closure to "Low-Impact Development Effects on Aquifer Recharge Using Coupled Surface and Groundwater Models" by Eva W. Mooers, Rob C. Jamieson, Jenny L. Hayward, John Drage, and Craig B. Lake. Journal of Hydrologic Engineering - ASCE, 2019, 24, 07019003.	1.9	0
14	Screening-level microbial risk assessment of acute gastrointestinal illness attributable to wastewater treatment systems in Nunavut, Canada. Science of the Total Environment, 2019, 657, 1253-1264.	8.0	7
15	Operational Limitations of Arctic Waste Stabilization Ponds: Insights from Modeling Oxygen Dynamics and Carbon Removal. Journal of Environmental Engineering, ASCE, 2018, 144, 04018038.	1.4	2
16	Wastewater treatment and public health in Nunavut: a microbial risk assessment framework for the Canadian Arctic. Environmental Science and Pollution Research, 2018, 25, 32860-32872.	5.3	22
17	Disinfection and removal of human pathogenic bacteria in arctic waste stabilization ponds. Environmental Science and Pollution Research, 2018, 25, 32881-32893.	5.3	10
18	Chemical and microbial characteristics of municipal drinking water supply systems in the Canadian Arctic. Environmental Science and Pollution Research, 2018, 25, 32926-32937.	5.3	21

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19	Recommendations for the Use of Tundra Wetlands for Treatment of Municipal Wastewater in Canada's Far North. Environmental Contamination Remediation and Management, 2018, , 83-120.	1.0	2
20	Predicting microalgae growth and phosphorus removal in cold region waste stabilization ponds using a stochastic modelling approach. Environmental Science and Pollution Research, 2018, 25, 32952-32963.	5.3	2
21	Sources of Antibiotic Resistance Genes in a Rural River System. Journal of Environmental Quality, 2018, 47, 997-1005.	2.0	24
22	Microbial Water Quality: Monitoring and Modeling. Journal of Environmental Quality, 2018, 47, 931-938.	2.0	29
23	Development of a leaching procedure to assess the risk of uranium leaching due to construction and demolition waste disposal. Waste Management, 2018, 78, 144-150.	7.4	12
24	Removal of antibiotic resistance genes in two tertiary level municipal wastewater treatment plants. Science of the Total Environment, 2018, 643, 292-300.	8.0	86
25	Fate of antibiotic resistance genes in two Arctic tundra wetlands impacted by municipal wastewater. Science of the Total Environment, 2018, 642, 1415-1428.	8.0	27
26	Low-Impact Development Effects on Aquifer Recharge Using Coupled Surface and Groundwater Models. Journal of Hydrologic Engineering - ASCE, 2018, 23, .	1.9	19
27	Antimicrobial resistance gene surveillance in the receiving waters of an upgraded wastewater treatment plant. Facets, 2018, 3, 128-138.	2.4	19
28	Eco-efficient choice of cropping system for reducing nitrate-N leaching in an agricultural watershed. Journal of Bioeconomics, 2017, 19, 201-221.	3.3	0
29	Antibiotic resistance genes in municipal wastewater treatment systems and receiving waters in Arctic Canada. Science of the Total Environment, 2017, 598, 1085-1094.	8.0	71
30	Modifying SWAT with an energy balance module to simulate snowmelt for maritime regions. Environmental Modelling and Software, 2017, 93, 146-160.	4.5	49
31	Segment-based assessment of riparian buffers on stream water quality improvement by applying an integrated model. Ecological Modelling, 2017, 345, 1-9.	2.5	4
32	Environmental and operational factors affecting carbon removal in model arctic waste stabilization ponds. Ecological Engineering, 2017, 98, 91-97.	3.6	11
33	Bacterial Pathogen Occurrence and Persistence in Livestock Mortality Biopiles. Resources, 2017, 6, 49.	3.5	1
34	Modeling Impacts of Residential and Agricultural Development and Beneficial Management Practice Scenarios on Phosphorus Dynamics in a Small Watershed. Transactions of the ASABE, 2016, 59, 63-79.	1.1	0
35	Sensitivity of DEM, slope, aspect and watershed attributes to LiDAR measurement uncertainty. Remote Sensing of Environment, 2016, 179, 23-35.	11.0	35
36	Projecting In-stream Dissolved Organic Carbon and Total Mercury Concentrations in Small Watersheds Following Forest Growth and Clearcutting. Water, Air, and Soil Pollution, 2016, 227, 1.	2.4	4

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37	Microalgae growth and phosphorus uptake in wastewater under simulated cold region conditions. Ecological Engineering, 2016, 95, 588-593.	3.6	53
38	Geotextile biofiltration of primary treated municipal wastewater under simulated arctic summer conditions. Geotextiles and Geomembranes, 2016, 44, 824-831.	4.6	0
39	Characterizing phosphorus removal in passive waste stabilization ponds in Arctic communities. Arctic Science, 2016, 2, 1-14.	2.3	6
40	Using species traits to assess human impacts on near shore benthic ecosystems in the Canadian Arctic. Ecological Indicators, 2016, 60, 495-502.	6.3	18
41	Fecal Contamination in the Surface Waters of a Rural- and an Urban-Source Watershed. Journal of Environmental Quality, 2015, 44, 1556-1567.	2.0	20
42	Bacterial Pathogen Indicator Transport from Livestock Mortality Biopiles. Journal of Environmental Quality, 2015, 44, 1355-1365.	2.0	4
43	Water systems, sanitation, and public health risks in remote communities: Inuit resident perspectives from the Canadian Arctic. Social Science and Medicine, 2015, 135, 124-132.	3.8	60
44	Assessment of Arctic Community Wastewater Impacts on Marine Benthic Invertebrates.. Environmental Science & Technology, 2015, 49, 760-766.	10.0	23
45	Performance of municipal waste stabilization ponds in the Canadian Arctic. Ecological Engineering, 2015, 83, 413-421.	3.6	39
46	Comparison of the Prevalences and Diversities of Listeria Species and Listeria monocytogenes in an Urban and a Rural Agricultural Watershed. Applied and Environmental Microbiology, 2015, 81, 3812-3822.	3.1	53
47	Derivation of treatment rate constants for an arctic tundra wetland receiving primary treated municipal wastewater. Ecological Engineering, 2015, 82, 165-174.	3.6	12
48	Development of a Linear Program to Optimize Sludge Management Planning in Nunavut, Canada. Journal of Cold Regions Engineering - ASCE, 2015, 29, 04014016.	1.1	0
49	Comparison of Crop Yield and Pollution Production Response to Nitrogen Fertilization Models, Accounting for Crop Rotation Effect. Agroecology and Sustainable Food Systems, 2015, 39, 245-275.	1.9	15
50	Effect of Hillslope Position and Manure Application Rates on the Persistence of Fecal Source Tracking Indicators in an Agricultural Soil. Journal of Environmental Quality, 2014, 43, 450-458.	2.0	5
51	A Watershed Modeling Framework for Phosphorus Loading from Residential and Agricultural Sources. Journal of Environmental Quality, 2014, 43, 1356-1369.	2.0	5
52	Treatment performance assessment and hydrological characterization of an arctic tundra wetland receiving primary treated municipal wastewater. Ecological Engineering, 2014, 73, 786-797.	3.6	18
53	Characterizing spatial structure of sediment E. coli populations to inform sampling design. Environmental Monitoring and Assessment, 2014, 186, 277-291.	2.7	13
54	Sensitivity of watershed attributes to spatial resolution and interpolation method of LiDAR DEMs in three distinct landscapes. Water Resources Research, 2014, 50, 1908-1927.	4.2	29

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55	Reach specificity in sediment <i>E. coli</i> population turnover and interaction with waterborne populations. <i>Science of the Total Environment</i> , 2014, 496, 402-413.	8.0	15
56	Modeling Phosphorus Treatment Capacities of On-Site Wastewater Lateral Flow Sand Filters. <i>Journal of Environmental Engineering, ASCE</i> , 2014, 140, .	1.4	8
57	Baseline and storm event monitoring of Bacteroidales marker concentrations and enteric pathogen presence in a rural Canadian watershed. <i>Water Research</i> , 2014, 60, 278-288.	11.3	22
58	Municipal water quantities and health in Nunavut households: an exploratory case study in Coral Harbour, Nunavut, Canada. <i>International Journal of Circumpolar Health</i> , 2014, 73, 23843.	1.2	57
59	Effect of Nutrient Management Planning on Crop Yield, Nitrate Leaching and Sediment Loading in Thomas Brook Watershed. <i>Environmental Management</i> , 2013, 52, 1177-1191.	2.7	23
60	Evaluation of statistical models for predicting <i>Escherichia coli</i> particle attachment in fluvial systems. <i>Water Research</i> , 2013, 47, 6701-6711.	11.3	12
61	Simulation of monthly dissolved organic carbon concentrations in small forested watersheds. <i>Ecological Modelling</i> , 2013, 250, 205-213.	2.5	6
62	The Effects of Dosed versus Gravity-Fed Loading Methods on the Performance and Reliability of Contour Trench Disposal Fields Used for Onsite Wastewater Treatment. <i>Journal of Environmental Quality</i> , 2013, 42, 553-561.	2.0	5
63	Treatment Performance of Wastewater Stabilization Ponds in Canada's Far North. , 2012, , .		7
64	Modeling <i>E.coli</i> fate and transport in treatment wetlands using the water quality analysis and simulation program. <i>Journal of Environmental Science and Health - Part A Toxic/Hazardous Substances and Environmental Engineering</i> , 2011, 46, 680-691.	1.7	14
65	Effects of Hydraulic Loading Rate and Filter Length on the Performance of Lateral Flow Sand Filters for On-Site Wastewater Treatment. <i>Journal of Hydrologic Engineering - ASCE</i> , 2011, 16, 639-649.	1.9	16
66	Surface moisture and vegetation influences on lidar intensity data in an agricultural watershed. <i>Canadian Journal of Remote Sensing</i> , 2011, 37, 275-284.	2.4	22
67	Modeling Sediment and Nitrogen Export from a Rural Watershed in Eastern Canada Using the Soil and Water Assessment Tool. <i>Journal of Environmental Quality</i> , 2011, 40, 1182-1194.	2.0	61
68	Long-term forest-floor litter dynamics in Canada's boreal forest: Comparison of two model formulations. <i>Ecological Modelling</i> , 2011, 222, 1236-1244.	2.5	3
69	Survival of <i>Escherichia coli</i> in agricultural soil and presence in tile drainage and shallow groundwater. <i>Canadian Journal of Soil Science</i> , 2010, 90, 495-505.	1.2	24
70	Effects of winter storage conditions and subsequent agitation on gaseous emissions from liquid dairy manure. <i>Canadian Journal of Soil Science</i> , 2010, 90, 229-239.	1.2	25
71	Performance of Surface-Flow Domestic Wastewater Treatment Wetlands. <i>Wetlands</i> , 2010, 30, 795-804.	1.5	17
72	Litter decomposition and nitrogen mineralization from an annual to a monthly model. <i>Ecological Modelling</i> , 2010, 221, 1944-1953.	2.5	17

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73	Population dynamics of <i>Escherichia coli</i> inoculated by irrigation into the phyllosphere of spinach grown under commercial production conditions. <i>International Journal of Food Microbiology</i> , 2010, 143, 198-204.	4.7	57
74	Greenhouse Gas Emissions from Surface Flow and Subsurface Flow Constructed Wetlands Treating Dairy Wastewater. <i>Journal of Environmental Quality</i> , 2010, 39, 460-471.	2.0	45
75	Inactivation of <i>Escherichia coli</i> During Storage of Irrigation Water in Agricultural Reservoirs. <i>Canadian Water Resources Journal</i> , 2010, 35, 69-78.	1.2	3
76	Use of an oxygen-releasing compound to aerate eutrophic reservoir water. <i>Journal of Environmental Science and Health - Part A Toxic/Hazardous Substances and Environmental Engineering</i> , 2009, 44, 906-913.	1.7	1
77	Growing season surface water loading of fecal indicator organisms within a rural watershed. <i>Water Research</i> , 2009, 43, 1199-1206.	11.3	43
78	Adsorption, sedimentation, and inactivation of <i>E. coli</i> within wastewater treatment wetlands. <i>Water Research</i> , 2009, 43, 4370-4380.	11.3	89
79	Stream ecosystem health in rural mixed land-use watersheds. <i>Journal of Environmental Engineering and Science</i> , 2008, 7, 439-452.	0.8	14
80	Performance and Hydraulics of Lateral Flow Sand Filters for On-Site Wastewater Treatment. <i>Journal of Hydrologic Engineering - ASCE</i> , 2008, 13, 720-728.	1.9	14
81	Ammonia Emissions from Surface Flow and Subsurface Flow Constructed Wetlands Treating Dairy Wastewater. <i>Journal of Environmental Quality</i> , 2008, 37, 2028-2036.	2.0	22
82	Transport of Lithium Tracer and <i>E. coli</i> in Agricultural Wastewater Treatment Wetlands. <i>Water Quality Research Journal of Canada</i> , 2008, 43, 137-144.	2.7	4
83	Determination of first order rate constants for wetlands treating livestock wastewater in cold climates. <i>Journal of Environmental Engineering and Science</i> , 2007, 6, 65-72.	0.8	36
84	Resuspension of Sediment-Associated <i>Escherichia coli</i> in a Natural Stream. <i>Journal of Environmental Quality</i> , 2005, 34, 581-589.	2.0	197
85	Transport and deposition of sediment-associated in natural streams. <i>Water Research</i> , 2005, 39, 2665-2675.	11.3	165
86	Persistence of enteric bacteria in alluvial streams. <i>Journal of Environmental Engineering and Science</i> , 2004, 3, 203-212.	0.8	48
87	Assessing microbial pollution of rural surface waters. <i>Agricultural Water Management</i> , 2004, 70, 1-17.	5.6	219
88	Sources and Persistence of Fecal Coliform Bacteria in a Rural Watershed. <i>Water Quality Research Journal of Canada</i> , 2003, 38, 33-47.	2.7	70
89	Long-Term Effects of Milking Centre Wastewater Application on Soil and Groundwater Quality. <i>Canadian Water Resources Journal</i> , 2001, 26, 515-536.	1.2	2
90	Effects of surface manure application timing on ammonia volatilization. <i>Canadian Journal of Soil Science</i> , 2001, 81, 525-533.	1.2	32

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91	Subsurface Nitrate‐N Leaching Loss as Affected by Drainage Size and Depth in a Shallow Slowly‐Permeable Soil. Canadian Water Resources Journal, 2000, 25, 331-341.	1.2	10
92	Characterising sediment physical property variability for bench-scale dewatering purposes. Environmental Geotechnics, 0, , 1-9.	2.3	8