

Ed Topp

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

203
papers

11,460
citations

55
h-index

98
g-index

208
ext. papers

12,966
ext. citations

5.6
avg, IF

6.43
L-index

#	Paper	IF	Citations
203	Pharmaceuticals and personal care products in the environment: what are the big questions?. <i>Environmental Health Perspectives</i> , 2012 , 120, 1221-9	8.4	830
202	Management options for reducing the release of antibiotics and antibiotic resistance genes to the environment. <i>Environmental Health Perspectives</i> , 2013 , 121, 878-85	8.4	505
201	Human Health Risk Assessment (HHRA) for environmental development and transfer of antibiotic resistance. <i>Environmental Health Perspectives</i> , 2013 , 121, 993-1001	8.4	390
200	The scourge of antibiotic resistance: the important role of the environment. <i>Clinical Infectious Diseases</i> , 2013 , 57, 704-10	11.6	371
199	Impact of manure fertilization on the abundance of antibiotic-resistant bacteria and frequency of detection of antibiotic resistance genes in soil and on vegetables at harvest. <i>Applied and Environmental Microbiology</i> , 2013 , 79, 5701-9	4.8	286
198	Pharmaceuticals in the environment: biodegradation and effects on natural microbial communities. A review. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2015 , 106, 25-36	3.5	275
197	Seasonal relationships among indicator bacteria, pathogenic bacteria, Cryptosporidium oocysts, Giardia cysts, and hydrological indices for surface waters within an agricultural landscape. <i>Water Research</i> , 2009 , 43, 2209-23	12.5	244
196	Pharmaceutical and personal care products in groundwater, subsurface drainage, soil, and wheat grain, following a high single application of municipal biosolids to a field. <i>Chemosphere</i> , 2012 , 87, 194-203	8.4	191
195	Runoff of pharmaceuticals and personal care products following application of biosolids to an agricultural field. <i>Science of the Total Environment</i> , 2008 , 396, 52-9	10.2	170
194	Uptake of pharmaceuticals, hormones and parabens into vegetables grown in soil fertilized with municipal biosolids. <i>Science of the Total Environment</i> , 2012 , 431, 233-6	10.2	168
193	Persistence of estrogenic hormones in agricultural soils: I. 17Beta-estradiol and estrone. <i>Journal of Environmental Quality</i> , 2001 , 30, 2070-6	3.4	166
192	Characterization of S-triazine herbicide metabolism by a Nocardioidees sp. isolated from agricultural soils. <i>Applied and Environmental Microbiology</i> , 2000 , 66, 3134-41	4.8	164
191	Characterization of an atrazine-degrading Pseudaminobacter sp. isolated from Canadian and French agricultural soils. <i>Applied and Environmental Microbiology</i> , 2000 , 66, 2773-82	4.8	157
190	Impacts of climate change on indirect human exposure to pathogens and chemicals from agriculture. <i>Environmental Health Perspectives</i> , 2009 , 117, 508-14	8.4	156
189	Ecotoxicological assessment of antibiotics: A call for improved consideration of microorganisms. <i>Environment International</i> , 2015 , 85, 189-205	12.9	145
188	Dependence of accelerated degradation of atrazine on soil pH in French and Canadian soils. <i>Soil Biology and Biochemistry</i> , 2000 , 32, 615-625	7.5	130
187	Impact of feed supplementation with antimicrobial agents on growth performance of broiler chickens, Clostridium perfringens and enterococcus counts, and antibiotic resistance phenotypes and distribution of antimicrobial resistance determinants in Escherichia coli isolates. <i>Applied and Environmental Microbiology</i> , 2007 , 73, 6566-74	4.8	127

186	Impact of fertilizing with raw or anaerobically digested sewage sludge on the abundance of antibiotic-resistant coliforms, antibiotic resistance genes, and pathogenic bacteria in soil and on vegetables at harvest. <i>Applied and Environmental Microbiology</i> , 2014 , 80, 6898-907	4.8	124
185	Pharmaceutical and personal care products in tile drainage following land application of municipal biosolids. <i>Science of the Total Environment</i> , 2008 , 399, 50-65	10.2	122
184	Evaluation of molecular methods used for establishing the interactions and functions of microorganisms in anaerobic bioreactors. <i>Water Research</i> , 2008 , 42, 513-37	12.5	120
183	Evaluation of QIAamp DNA Stool Mini Kit for ecological studies of gut microbiota. <i>Journal of Microbiological Methods</i> , 2003 , 54, 13-20	2.8	119
182	Purification and characterization of a tetrachloro-p-hydroquinone reductive dehalogenase from a <i>Flavobacterium</i> sp. <i>Journal of Bacteriology</i> , 1992 , 174, 8003-7	3.5	118
181	Associations among pathogenic bacteria, parasites, and environmental and land use factors in multiple mixed-use watersheds. <i>Water Research</i> , 2011 , 45, 5807-25	12.5	117
180	Metabolism of the herbicide atrazine by <i>Rhodococcus</i> strains. <i>Applied and Environmental Microbiology</i> , 1993 , 59, 1955-9	4.8	114
179	Effect of subtherapeutic administration of antibiotics on the prevalence of antibiotic-resistant <i>Escherichia coli</i> bacteria in feedlot cattle. <i>Applied and Environmental Microbiology</i> , 2008 , 74, 4405-16	4.8	108
178	Distribution and characteristics of <i>Listeria monocytogenes</i> isolates from surface waters of the South Nation River watershed, Ontario, Canada. <i>Applied and Environmental Microbiology</i> , 2007 , 73, 5401-10	4.8	108
177	Accelerated Biodegradation of Veterinary Antibiotics in Agricultural Soil Following Long-Term Exposure, and Isolation of a Sulfamethazine-degrading sp. <i>Journal of Environmental Quality</i> , 2013 , 42, 173-8	3.4	103
176	Effect of nitrogen fertilizers and moisture content on CH ₄ and N ₂ O fluxes in a humisol: Measurements in the field and intact soil cores. <i>Biogeochemistry</i> , 1995 , 29, 199-222	3.8	100
175	Runoff of pharmaceuticals and personal care products following application of dewatered municipal biosolids to an agricultural field. <i>Science of the Total Environment</i> , 2009 , 407, 4596-604	10.2	99
174	Influence of humans on evolution and mobilization of environmental antibiotic resistome. <i>Emerging Infectious Diseases</i> , 2013 , 19,	10.2	99
173	Pharmaceutical and personal care products in tile drainage following surface spreading and injection of dewatered municipal biosolids to an agricultural field. <i>Science of the Total Environment</i> , 2009 , 407, 4220-30	10.2	96
172	Safely coupling livestock and crop production systems: how rapidly do antibiotic resistance genes dissipate in soil following a commercial application of swine or dairy manure?. <i>Applied and Environmental Microbiology</i> , 2014 , 80, 3258-65	4.8	94
171	Tracking host sources of <i>Cryptosporidium</i> spp. in raw water for improved health risk assessment. <i>Applied and Environmental Microbiology</i> , 2007 , 73, 3945-57	4.8	93
170	Strain-dependent variability in growth and survival of <i>Escherichia coli</i> in agricultural soil. <i>FEMS Microbiology Ecology</i> , 2003 , 44, 303-8	4.3	93
169	Isolation and characterisation of <i>Nocardioides</i> sp. SP12, an atrazine-degrading bacterial strain possessing the gene <i>trzN</i> from bulk- and maize rhizosphere soil. <i>FEMS Microbiology Letters</i> , 2003 , 221, 111-7	2.9	84

168	Back to the Future of Soil Metagenomics. <i>Frontiers in Microbiology</i> , 2016 , 7, 73	5.7	82
167	Distribution of antimicrobial resistance and virulence genes in <i>Enterococcus</i> spp. and characterization of isolates from broiler chickens. <i>Applied and Environmental Microbiology</i> , 2010 , 76, 8033-43	4.8	79
166	73 Antimicrobial Resistance, Agriculture, and the One Health Continuum. <i>Journal of Animal Science</i> , 2021 , 99, 40-40	0.7	78
165	Persistence of testosterone and 17beta-estradiol in soils receiving swine manure or municipal biosolids. <i>Journal of Environmental Quality</i> , 2005 , 34, 861-71	3.4	76
164	Molecular subtypes of <i>Campylobacter</i> spp., <i>Salmonella enterica</i> , and <i>Escherichia coli</i> O157:H7 isolated from faecal and surface water samples in the Oldman River watershed, Alberta, Canada. <i>Water Research</i> , 2011 , 45, 1247-57	12.5	75
163	Abundance of Antibiotic Resistance Genes in Bacteriophage following Soil Fertilization with Dairy Manure or Municipal Biosolids, and Evidence for Potential Transduction. <i>Applied and Environmental Microbiology</i> , 2015 , 81, 7905-13	4.8	72
162	Bioaccumulation of triclosan and triclocarban in plants grown in soils amended with municipal dewatered biosolids. <i>Environmental Toxicology and Chemistry</i> , 2014 , 33, 975-84	3.8	71
161	Development of a rapid quantitative PCR assay for direct detection and quantification of culturable and non-culturable <i>Escherichia coli</i> from agriculture watersheds. <i>Journal of Microbiological Methods</i> , 2007 , 69, 480-8	2.8	70
160	Characteristics and frequency of detection of fecal <i>Listeria monocytogenes</i> shed by livestock, wildlife, and humans. <i>Canadian Journal of Microbiology</i> , 2007 , 53, 1158-67	3.2	66
159	Distribution and diversity of <i>Escherichia coli</i> populations in the South Nation River drainage basin, eastern Ontario, Canada. <i>Applied and Environmental Microbiology</i> , 2010 , 76, 1486-96	4.8	62
158	Impact of biosolids on the persistence and dissipation pathways of triclosan and triclocarban in an agricultural soil. <i>Science of the Total Environment</i> , 2009 , 407, 5978-85	10.2	62
157	Pathotype and antibiotic resistance gene distributions of <i>Escherichia coli</i> isolates from broiler chickens raised on antimicrobial-supplemented diets. <i>Applied and Environmental Microbiology</i> , 2009 , 75, 6955-62	4.8	61
156	Diversity of denitrifying microflora and ability to reduce N ₂ O in two soils. <i>Biology and Fertility of Soils</i> , 1998 , 28, 19-26	6.1	61
155	Bacteria associated with cysts of the soybean cyst nematode (<i>Heterodera glycines</i>). <i>Applied and Environmental Microbiology</i> , 2003 , 69, 607-15	4.8	61
154	Longitudinal characterization of antimicrobial resistance genes in feces shed from cattle fed different subtherapeutic antibiotics. <i>BMC Microbiology</i> , 2011 , 11, 19	4.5	60
153	Selected antimicrobial resistance during composting of manure from cattle administered sub-therapeutic antimicrobials. <i>Journal of Environmental Quality</i> , 2009 , 38, 567-75	3.4	60
152	The nasopharyngeal microbiota of feedlot cattle that develop bovine respiratory disease. <i>Veterinary Microbiology</i> , 2015 , 180, 90-5	3.3	58
151	Comparative microscale analysis of the effects of triclosan and triclocarban on the structure and function of river biofilm communities. <i>Science of the Total Environment</i> , 2009 , 407, 3307-16	10.2	58

150	Class 1 integrons, selected virulence genes, and antibiotic resistance in <i>Escherichia coli</i> isolates from the Minjiang River, Fujian Province, China. <i>Applied and Environmental Microbiology</i> , 2011 , 77, 148-55	4.8	58
149	Persistence of estrogenic hormones in agricultural soils: II. 17Alpha-ethynylestradiol. <i>Journal of Environmental Quality</i> , 2001 , 30, 2077-80	3.4	58
148	A comparison of three atrazine-degrading bacteria for soil bioremediation. <i>Biology and Fertility of Soils</i> , 2001 , 33, 529-534	6.1	55
147	Quantitative <i>Campylobacter</i> spp., antibiotic resistance genes, and veterinary antibiotics in surface and ground water following manure application: Influence of tile drainage control. <i>Science of the Total Environment</i> , 2015 , 532, 138-53	10.2	54
146	Prolonged survival of <i>Campylobacter</i> species in bovine manure compost. <i>Applied and Environmental Microbiology</i> , 2010 , 76, 1110-9	4.8	53
145	Phosphorus and sediment loading to surface waters from liquid swine manure application under different drainage and tillage practices. <i>Agricultural Water Management</i> , 2012 , 104, 51-61	5.9	51
144	Effect of liquid municipal biosolid application method on tile and ground water quality. <i>Journal of Environmental Quality</i> , 2008 , 37, 925-36	3.4	51
143	Effect of subtherapeutic vs. therapeutic administration of macrolides on antimicrobial resistance in <i>Mannheimia haemolytica</i> and enterococci isolated from beef cattle. <i>Frontiers in Microbiology</i> , 2013 , 4, 133	5.7	49
142	Reduced persistence of the macrolide antibiotics erythromycin, clarithromycin and azithromycin in agricultural soil following several years of exposure in the field. <i>Science of the Total Environment</i> , 2016 , 562, 136-144	10.2	49
141	Molecular and microscopic assessment of the effects of caffeine, acetaminophen, diclofenac, and their mixtures on river biofilm communities. <i>Environmental Toxicology and Chemistry</i> , 2012 , 31, 508-17	3.8	48
140	The non-steroidal anti-inflammatory drug diclofenac is readily biodegradable in agricultural soils. <i>Science of the Total Environment</i> , 2010 , 409, 78-82	10.2	48
139	Triclocarban, triclosan and its transformation product methyl triclosan in native earthworm species four years after a commercial-scale biosolids application. <i>Science of the Total Environment</i> , 2014 , 472, 235-8	10.2	47
138	The occurrence and sources of <i>Campylobacter</i> spp., <i>Salmonella enterica</i> and <i>Escherichia coli</i> O157:H7 in the Salmon River, British Columbia, Canada. <i>Journal of Water and Health</i> , 2010 , 8, 374-86	2.2	47
137	Livestock waste treatment systems for reducing environmental exposure to hazardous enteric pathogens: some considerations. <i>Bioresource Technology</i> , 2009 , 100, 5395-8	11	46
136	Farm-to-fork characterization of <i>Escherichia coli</i> associated with feedlot cattle with a known history of antimicrobial use. <i>International Journal of Food Microbiology</i> , 2010 , 137, 40-8	5.8	46
135	Tile water quality following liquid swine manure application into standing corn. <i>Journal of Environmental Quality</i> , 2007 , 36, 580-7	3.4	46
134	Molecular and phylogenetic approaches for assessing sources of <i>Cryptosporidium</i> contamination in water. <i>Water Research</i> , 2012 , 46, 5135-50	12.5	44
133	Investigation of an <i>Escherichia coli</i> environmental benchmark for waterborne pathogens in agricultural watersheds in Canada. <i>Journal of Environmental Quality</i> , 2012 , 41, 21-30	3.4	44

132	Veterinary antimicrobials in feedlot manure: dissipation during composting and effects on composting processes. <i>Journal of Environmental Quality</i> , 2011 , 40, 188-98	3.4	44
131	Earthworm burrowing and feeding activity and the potential for atrazine transport by preferential flow. <i>Soil Biology and Biochemistry</i> , 2000 , 32, 479-488	7.5	44
130	Temporal dynamics and impact of manure storage on antibiotic resistance patterns and population structure of <i>Escherichia coli</i> isolates from a commercial swine farm. <i>Applied and Environmental Microbiology</i> , 2007 , 73, 5486-93	4.8	43
129	Spatial and temporal drivers of zoonotic pathogen contamination of an agricultural watershed. <i>Journal of Environmental Quality</i> , 2012 , 41, 242-52	3.4	42
128	Diversity and distribution of commensal fecal <i>Escherichia coli</i> bacteria in beef cattle administered selected subtherapeutic antimicrobials in a feedlot setting. <i>Applied and Environmental Microbiology</i> , 2008 , 74, 6178-86	4.8	42
127	Glutathione is the reducing agent for the reductive dehalogenation of tetrachloro-p-hydroquinone by extracts from a <i>Flavobacterium</i> sp. <i>Biochemical and Biophysical Research Communications</i> , 1992 , 182, 361-6	3.4	42
126	Isolation and characterization of an N-methylcarbamate insecticide-degrading methylotrophic bacterium. <i>Applied and Environmental Microbiology</i> , 1993 , 59, 3339-49	4.8	42
125	Quantitative multi-year elucidation of fecal sources of waterborne pathogen contamination in the South Nation River basin using bacteroidales microbial source tracking markers. <i>Water Research</i> , 2013 , 47, 2315-24	12.5	41
124	Factors influencing the concentration of volatile fatty acids, ammonia, and other nutrients in stored liquid pig manure. <i>Journal of Environmental Quality</i> , 2007 , 36, 440-7	3.4	41
123	Antibiotic resistance and diversity of <i>Salmonella enterica</i> serovars associated with broiler chickens. <i>Journal of Food Protection</i> , 2014 , 77, 40-9	2.5	40
122	Genomic Comparison of Non-Typhoidal <i>Salmonella enterica</i> Serovars Typhimurium, Enteritidis, Heidelberg, Hadar and Kentucky Isolates from Broiler Chickens. <i>PLoS ONE</i> , 2015 , 10, e0128773	3.7	39
121	Comparative examination of <i>Escherichia coli</i> O157:H7 survival on romaine lettuce and in soil at two independent experimental sites. <i>Journal of Food Protection</i> , 2012 , 75, 480-7	2.5	39
120	Pathogenic and multidrug-resistant <i>Escherichia fergusonii</i> from broiler chicken. <i>Poultry Science</i> , 2012 , 91, 512-25	3.9	39
119	Spatiotemporal analysis of <i>Cryptosporidium</i> species/genotypes and relationships with other zoonotic pathogens in surface water from mixed-use watersheds. <i>Applied and Environmental Microbiology</i> , 2013 , 79, 434-48	4.8	38
118	Identification of <i>Methanoculleus</i> spp. as active methanogens during anoxic incubations of swine manure storage tank samples. <i>Applied and Environmental Microbiology</i> , 2013 , 79, 424-33	4.8	38
117	A comparison of AFLP and ERIC-PCR analyses for discriminating <i>Escherichia coli</i> from cattle, pig and human sources. <i>FEMS Microbiology Ecology</i> , 2004 , 47, 111-9	4.3	38
116	Evaluation of different approaches for modeling <i>Escherichia coli</i> O157:H7 survival on field lettuce. <i>International Journal of Food Microbiology</i> , 2014 , 184, 74-85	5.8	37
115	Using vegetation indices from satellite remote sensing to assess corn and soybean response to controlled tile drainage. <i>Agricultural Water Management</i> , 2010 , 98, 261-270	5.9	37

114	Bacterial community dynamics in an anaerobic plug-flow type bioreactor treating swine manure. <i>Water Research</i> , 2009 , 43, 21-32	12.5	37
113	Effect of Co-Composting Cattle Manure with Construction and Demolition Waste on the Archaeal, Bacterial, and Fungal Microbiota, and on Antimicrobial Resistance Determinants. <i>PLoS ONE</i> , 2016 , 11, e0157539	3.7	37
112	Brominated flame retardants and perfluoroalkyl acids in groundwater, tile drainage, soil, and crop grain following a high application of municipal biosolids to a field. <i>Science of the Total Environment</i> , 2017 , 574, 1345-1359	10.2	36
111	A heuristic model to predict earthworm biomass in agroecosystems based on selected management and soil properties. <i>Applied Soil Ecology</i> , 2008 , 39, 35-45	5	36
110	Identifying host sources of fecal pollution: diversity of Escherichia coli in confined dairy and swine production systems. <i>Applied and Environmental Microbiology</i> , 2005 , 71, 5992-8	4.8	36
109	Biodegradation of the herbicide bromoxynil (3,5-dibromo-4-hydroxybenzonitrile) by purified pentachlorophenol hydroxylase and whole cells of Flavobacterium sp. strain ATCC 39723 is accompanied by cyanogenesis. <i>Applied and Environmental Microbiology</i> , 1992 , 58, 502-6	4.8	36
108	An enhanced technique combining pre-enrichment and passive filtration increases the isolation efficiency of Campylobacter jejuni and Campylobacter coli from water and animal fecal samples. <i>Journal of Microbiological Methods</i> , 2012 , 91, 506-13	2.8	35
107	Spatial variability of soil microbial biomass measured by the fumigation extraction method, and KEC as affected by depth and manure application. <i>Soil Biology and Biochemistry</i> , 1998 , 30, 1369-1377	7.5	35
106	Harnessing the theoretical foundations of the exponential and beta-Poisson dose-response models to quantify parameter uncertainty using Markov Chain Monte Carlo. <i>Risk Analysis</i> , 2013 , 33, 1677-93	3.9	34
105	Using SWAT, Bacteroidales microbial source tracking markers, and fecal indicator bacteria to predict waterborne pathogen occurrence in an agricultural watershed. <i>Water Research</i> , 2013 , 47, 6326-37 ^{12.5}	12.5	34
104	Long-term monitoring of waterborne pathogens and microbial source tracking markers in paired agricultural watersheds under controlled and conventional tile drainage management. <i>Applied and Environmental Microbiology</i> , 2014 , 80, 3708-20	4.8	34
103	Polybrominated diphenyl ethers, perfluorinated alkylated substances, and metals in tile drainage and groundwater following applications of municipal biosolids to agricultural fields. <i>Science of the Total Environment</i> , 2010 , 408, 873-83	10.2	34
102	Effects of marigold (Tagetes sp.) roots on soil microorganisms. <i>Biology and Fertility of Soils</i> , 1998 , 27, 149-154	6.1	34
101	Methanoculleus spp. as a biomarker of methanogenic activity in swine manure storage tanks. <i>FEMS Microbiology Ecology</i> , 2012 , 80, 427-40	4.3	33
100	Community-level assessment of the effects of the broad-spectrum antimicrobial chlorhexidine on the outcome of river microbial biofilm development. <i>Applied and Environmental Microbiology</i> , 2008 , 74, 3541-50	4.8	33
99	Aminobacter ciceronei sp. nov. and Aminobacter lissarensis sp. nov., isolated from various terrestrial environments. <i>International Journal of Systematic and Evolutionary Microbiology</i> , 2005 , 55, 1827-1832	2.2	33
98	The case for plant-made veterinary immunotherapeutics. <i>Biotechnology Advances</i> , 2016 , 34, 597-604	17.8	32
97	Coherence among different microbial source tracking markers in a small agricultural stream with or without livestock exclusion practices. <i>Applied and Environmental Microbiology</i> , 2013 , 79, 6207-19	4.8	32

96	Persistence of antibiotic resistance and plasmid-associated genes in soil following application of sewage sludge and abundance on vegetables at harvest. <i>Canadian Journal of Microbiology</i> , 2016 , 62, 600-7	3.2	30
95	Rainfall-induced runoff from exposed streambed sediments: an important source of water pollution. <i>Journal of Environmental Quality</i> , 2015 , 44, 236-47	3.4	30
94	Plant-based solutions for veterinary immunotherapeutics and prophylactics. <i>Veterinary Research</i> , 2014 , 45, 117	3.8	30
93	Persistence of the tricyclic antidepressant drugs amitriptyline and nortriptyline in agriculture soils. <i>Environmental Toxicology and Chemistry</i> , 2013 , 32, 509-16	3.8	30
92	Persistence and pathways of testosterone dissipation in agricultural soil. <i>Journal of Environmental Quality</i> , 2005 , 34, 854-60	3.4	30
91	The impact of plant residues on the soybean cyst nematode, <i>Heterodera glycines</i> . <i>Canadian Journal of Plant Pathology</i> , 2001 , 23, 168-173	1.6	30
90	Earthworms and the dissipation and distribution of atrazine in the soil profile. <i>Soil Biology and Biochemistry</i> , 2000 , 32, 23-33	7.5	30
89	Bringing plant-based veterinary vaccines to market: Managing regulatory and commercial hurdles. <i>Biotechnology Advances</i> , 2015 , 33, 1572-81	17.8	29
88	Physico-chemical characteristics and methanogen communities in swine and dairy manure storage tanks: spatio-temporal variations and impact on methanogenic activity. <i>Water Research</i> , 2013 , 47, 737-46	12.5	29
87	Longitudinal characterization of resistant <i>Escherichia coli</i> in fecal deposits from cattle fed subtherapeutic levels of antimicrobials. <i>Applied and Environmental Microbiology</i> , 2009 , 75, 7125-34	4.8	29
86	Biodegradation of benzalkonium chlorides singly and in mixtures by a <i>Pseudomonas</i> sp. isolated from returned activated sludge. <i>Journal of Hazardous Materials</i> , 2015 , 299, 595-602	12.8	28
85	Hormones, sterols, and fecal indicator bacteria in groundwater, soil, and subsurface drainage following a high single application of municipal biosolids to a field. <i>Chemosphere</i> , 2013 , 91, 275-86	8.4	28
84	Long-Term Observations of Nitrogen and Phosphorus Export in Paired-Agricultural Watersheds under Controlled and Conventional Tile Drainage. <i>Journal of Environmental Quality</i> , 2015 , 44, 1589-604	3.4	28
83	Impact of riparian zone protection from cattle on nutrient, bacteria, F-coliphage, and loading of an intermittent stream. <i>Journal of Environmental Quality</i> , 2012 , 41, 1301-14	3.4	28
82	Frequency of virulence genes and antibiotic resistances in <i>Enterococcus</i> spp. isolates from wastewater and feces of domesticated mammals and birds, and wildlife. <i>Canadian Journal of Microbiology</i> , 2010 , 56, 715-29	3.2	28
81	The impact of municipal sewage sludge stabilization processes on the abundance, field persistence, and transmission of antibiotic resistant bacteria and antibiotic resistance genes to vegetables at harvest. <i>Science of the Total Environment</i> , 2019 , 651, 1680-1687	10.2	28
80	Simulation of pharmaceutical and personal care product transport to tile drains after biosolids application. <i>Journal of Environmental Quality</i> , 2009 , 38, 1274-85	3.4	27
79	Identification and characterization of a <i>pseudomonas</i> strain capable of metabolizing phenoxybenzoates. <i>Applied and Environmental Microbiology</i> , 1991 , 57, 1294-300	4.8	27

78	Comprehensive nitrogen budgets for controlled tile drainage fields in eastern ontario, Canada. <i>Journal of Environmental Quality</i> , 2014 , 43, 617-30	3.4	26
77	Role of livestock in microbiological contamination of water: Commonly the blame, but not always the source. <i>Animal Frontiers</i> , 2012 , 2, 17-27	5.5	26
76	Using <i>Campylobacter</i> spp. and <i>Escherichia coli</i> data and Bayesian microbial risk assessment to examine public health risks in agricultural watersheds under tile drainage management. <i>Water Research</i> , 2013 , 47, 3255-72	12.5	26
75	Distribution and characterization of ampicillin- and tetracycline-resistant <i>Escherichia coli</i> from feedlot cattle fed subtherapeutic antimicrobials. <i>BMC Microbiology</i> , 2011 , 11, 78	4.5	26
74	Multiplex PCR-DNA probe assay for the detection of pathogenic <i>Escherichia coli</i> . <i>Journal of Microbiological Methods</i> , 2005 , 60, 93-105	2.8	26
73	The distribution of <i>Salmonella enterica</i> serovars and subtypes in surface water from five agricultural regions across Canada. <i>Water Research</i> , 2015 , 76, 120-31	12.5	25
72	A national investigation of the prevalence and diversity of thermophilic <i>Campylobacter</i> species in agricultural watersheds in Canada. <i>Water Research</i> , 2014 , 61, 243-52	12.5	25
71	Loss of virulence genes in <i>Escherichia coli</i> populations during manure storage on a commercial swine farm. <i>Applied and Environmental Microbiology</i> , 2008 , 74, 3935-42	4.8	25
70	A Canadian application of one health: integration of <i>Salmonella</i> data from various Canadian surveillance programs (2005-2010). <i>Foodborne Pathogens and Disease</i> , 2013 , 10, 747-56	3.8	24
69	A comparison of DNA extraction and purification methods to detect <i>Escherichia coli</i> O157:H7 in cattle manure. <i>Journal of Microbiological Methods</i> , 2003 , 54, 165-75	2.8	24
68	Towards a more accurate quantitative assessment of seasonal <i>Cryptosporidium</i> infection risks in surface waters using species and genotype information. <i>Water Research</i> , 2016 , 105, 625-637	12.5	23
67	Tile Drainage Management Influences on Surface-Water and Groundwater Quality following Liquid Manure Application. <i>Journal of Environmental Quality</i> , 2013 , 42, 881-92	3.4	23
66	Biosolids applied to agricultural land: Influence on structural and functional endpoints of soil fauna on a short- and long-term scale. <i>Science of the Total Environment</i> , 2016 , 562, 312-326	10.2	23
65	The detection of <i>Cryptosporidium</i> and the resolution of mixtures of species and genotypes from water. <i>Infection, Genetics and Evolution</i> , 2013 , 15, 3-9	4.5	22
64	Fecal source tracking in water using a mitochondrial DNA microarray. <i>Water Research</i> , 2013 , 47, 16-30	12.5	22
63	Continuous feeding of antimicrobial growth promoters to commercial swine during the growing/finishing phase does not modify faecal community erythromycin resistance or community structure. <i>Journal of Applied Microbiology</i> , 2011 , 110, 1414-25	4.7	22
62	Resilience and recovery: the effect of triclosan exposure timing during development, on the structure and function of river biofilm communities. <i>Aquatic Toxicology</i> , 2015 , 161, 253-66	5.1	21
61	Amending woodchip bioreactors with water treatment plant residuals to treat nitrogen, phosphorus, and veterinary antibiotic compounds in tile drainage. <i>Ecological Engineering</i> , 2016 , 95, 852-864	3.9	21

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