Ed Topp

List of Publications by Year in Descending Order

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	Responses of the Soil Bacterial Community, Resistome, and Mobilome to a Decade of Annual Exposure to Macrolide Antibiotics.. *Applied and Environmental Microbiology*, **2022**, e0031622	4.8	2
202	73 Antimicrobial Resistance, Agriculture, and the One Health Continuum. *Journal of Animal Science*, **2021**, 99, 40-40	0.7	78
201	Loop-mediated isothermal amplification: Development, validation and application of simple and rapid assays for quantitative detection of species of Arcobacteraceae family- and species-specific Aliarcobacter faecis and Aliarcobacter lanthieri. *Journal of Applied Microbiology*, **2021**, 131, 288-299	4.7	0
200	On-Farm Anaerobic Digestion of Dairy Manure Reduces the Abundance of Antibiotic Resistance-Associated Gene Targets and the Potential for Plasmid Transfer. *Applied and Environmental Microbiology*, **2021**, 87, e0298020	4.8	1
199	Antibiotic Resistance in Shiga Toxigenic Isolates from Surface Waters and Sediments in a Mixed Use Urban Agricultural Landscape. *Antibiotics*, **2021**, 10,	4.9	5
198	Impacts of multi-year field exposure of agricultural soil to macrolide antibiotics on the abundance of antibiotic resistance genes and selected mobile genetic elements. *Science of the Total Environment*, **2020**, 727, 138520	10.2	11
197	Do reductions in agricultural field drainage during the growing season impact bacterial densities and loads in small tile-fed watersheds?. *Water Research*, **2019**, 151, 423-438	12.5	4
196	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. *Science of the Total Environment*, **2019**, 651, 1680-1687	10.2	28
195	Enhanced Single-tube Multiplex PCR Assay for Detection and Identification of Six Arcobacter Species. *Journal of Applied Microbiology*, **2017**, 123, 1522-1532	4.7	9
194	Brominated flame retardants and perfluoroalkyl acids in groundwater, tile drainage, soil, and crop grain following a high application of municipal biosolids to a field. *Science of the Total Environment*, **2017**, 574, 1345-1359	10.2	36
193	Comparison of commercial DNA extraction kits and quantitative PCR systems for better sensitivity in detecting the causative agent of paratuberculosis in dairy cow fecal samples. *Journal of Dairy Science*, **2017**, 100, 572-581	4	21
192	Agriculture and Agri-Food Canada's research program on antimicrobial resistance. *Canada Communicable Disease Report*, **2017**, 43, 224-227	3.1	9
191	Towards a more accurate quantitative assessment of seasonal Cryptosporidium infection risks in surface waters using species and genotype information. *Water Research*, **2016**, 105, 625-637	12.5	23
190	Amending woodchip bioreactors with water treatment plant residuals to treat nitrogen, phosphorus, and veterinary antibiotic compounds in tile drainage. *Ecological Engineering*, **2016**, 95, 852-864	3.9	21
189	Monitoring Seven Potentially Pathogenic Escherichia coli Serogroups in a Closed Herd of Beef Cattle from Weaning to Finishing Phases. *Foodborne Pathogens and Disease*, **2016**, 13, 661-667	3.8	6
188	Persistence of antibiotic resistance and plasmid-associated genes in soil following application of sewage sludge and abundance on vegetables at harvest. *Canadian Journal of Microbiology*, **2016**, 62, 600-7	3.2	30
187	Detection of virulence, antibiotic resistance and toxin (VAT) genes in Campylobacter species using newly developed multiplex PCR assays. *Journal of Microbiological Methods*, **2016**, 124, 41-7	2.8	16

186	The case for plant-made veterinary immunotherapeutics. *Biotechnology Advances*, **2016**, 34, 597-604	17.8	32
185	Development and evaluation of multiplex PCR assays for rapid detection of virulence-associated genes in Arcobacter species. *Journal of Microbiological Methods*, **2016**, 121, 59-65	2.8	15
184	Back to the Future of Soil Metagenomics. *Frontiers in Microbiology*, **2016**, 7, 73	5.7	82
183	Effect of Co-Composting Cattle Manure with Construction and Demolition Waste on the Archaeal, Bacterial, and Fungal Microbiota, and on Antimicrobial Resistance Determinants. *PLoS ONE*, **2016**, 11, e0157539	3.7	37
182	Antimicrobial Resistance of Escherichia fergusonii Isolated from Broiler Chickens. *Journal of Food Protection*, **2016**, 79, 929-38	2.5	12
181	Incentives and disincentives identified by producers and drainage contractors/experts on the adoption of controlled tile drainage in eastern Ontario, Canada. *Water Quality Research Journal of Canada*, **2016**, 51, 1-16	1.7	5
180	Biosolids applied to agricultural land: Influence on structural and functional endpoints of soil fauna on a short- and long-term scale. *Science of the Total Environment*, **2016**, 562, 312-326	10.2	23
179	Reduced persistence of the macrolide antibiotics erythromycin, clarithromycin and azithromycin in agricultural soil following several years of exposure in the field. *Science of the Total Environment*, **2016**, 562, 136-144	10.2	49
178	An evaluation of logic regression-based biomarker discovery across multiple intergenic regions for predicting host specificity in Escherichia coli. *Molecular Phylogenetics and Evolution*, **2016**, 103, 133-142	4.1	6
177	Resilience and recovery: the effect of triclosan exposure timing during development, on the structure and function of river biofilm communities. *Aquatic Toxicology*, **2015**, 161, 253-66	5.1	21
176	The nasopharyngeal microbiota of feedlot cattle that develop bovine respiratory disease. *Veterinary Microbiology*, **2015**, 180, 90-5	3.3	58
175	Quantitative Campylobacter spp., antibiotic resistance genes, and veterinary antibiotics in surface and ground water following manure application: Influence of tile drainage control. *Science of the Total Environment*, **2015**, 532, 138-53	10.2	54
174	Assessing host-specificity of Escherichia coli using a supervised learning logic-regression-based analysis of single nucleotide polymorphisms in intergenic regions. *Molecular Phylogenetics and Evolution*, **2015**, 92, 72-81	4.1	13
173	The distribution of Salmonella enterica serovars and subtypes in surface water from five agricultural regions across Canada. *Water Research*, **2015**, 76, 120-31	12.5	25
172	Ecotoxicological assessment of antibiotics: A call for improved consideration of microorganisms. *Environment International*, **2015**, 85, 189-205	12.9	145
171	Two thousand year reconstruction of livestock production intensity in France using sediment-archived fecal Bacteroidales and source-specific mitochondrial markers. *Holocene*, **2015**, 25, 1384-1393	2.6	8
170	Biodegradation of benzalkonium chlorides singly and in mixtures by a Pseudomonas sp. isolated from returned activated sludge. *Journal of Hazardous Materials*, **2015**, 299, 595-602	12.8	28
169	Abundance of Antibiotic Resistance Genes in Bacteriophage following Soil Fertilization with Dairy Manure or Municipal Biosolids, and Evidence for Potential Transduction. *Applied and Environmental Microbiology*, **2015**, 81, 7905-13	4.8	72

168	Bringing plant-based veterinary vaccines to market: Managing regulatory and commercial hurdles. *Biotechnology Advances*, **2015**, 33, 1572-81	17.8	29
167	Pharmaceuticals in the environment: biodegradation and effects on natural microbial communities. A review. *Journal of Pharmaceutical and Biomedical Analysis*, **2015**, 106, 25-36	3.5	275
166	Rainfall-induced runoff from exposed streambed sediments: an important source of water pollution. *Journal of Environmental Quality*, **2015**, 44, 236-47	3.4	30
165	Multi-year and short-term responses of soil ammonia-oxidizing prokaryotes to zinc bacitracin, monensin, and ivermectin, singly or in combination. *Environmental Toxicology and Chemistry*, **2015**, 34, 618-25	3.8	10
164	Using AnnAGNPS to Predict the Effects of Tile Drainage Control on Nutrient and Sediment Loads for a River Basin. *Journal of Environmental Quality*, **2015**, 44, 629-41	3.4	15
163	Genomic Comparison of Non-Typhoidal Salmonella enterica Serovars Typhimurium, Enteritidis, Heidelberg, Hadar and Kentucky Isolates from Broiler Chickens. *PLoS ONE*, **2015**, 10, e0128773	3.7	39
162	Long-Term Observations of Nitrogen and Phosphorus Export in Paired-Agricultural Watersheds under Controlled and Conventional Tile Drainage. *Journal of Environmental Quality*, **2015**, 44, 1589-604	3.4	28
161	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. *Applied and Environmental Microbiology*, **2014**, 80, 6898-907	4.8	124
160	Bioaccumulation of triclosan and triclocarban in plants grown in soils amended with municipal dewatered biosolids. *Environmental Toxicology and Chemistry*, **2014**, 33, 975-84	3.8	71
159	A national investigation of the prevalence and diversity of thermophilic Campylobacter species in agricultural watersheds in Canada. *Water Research*, **2014**, 61, 243-52	12.5	25
158	Comprehensive nitrogen budgets for controlled tile drainage fields in eastern ontario, Canada. *Journal of Environmental Quality*, **2014**, 43, 617-30	3.4	26
157	Plant-based solutions for veterinary immunotherapeutics and prophylactics. *Veterinary Research*, **2014**, 45, 117	3.8	30
156	Duplex PCR methods for the molecular detection of Escherichia fergusonii isolates from broiler chickens. *Applied and Environmental Microbiology*, **2014**, 80, 1941-8	4.8	9
155	Antibiotic resistance and diversity of Salmonella enterica serovars associated with broiler chickens. *Journal of Food Protection*, **2014**, 77, 40-9	2.5	40
154	Long-term monitoring of waterborne pathogens and microbial source tracking markers in paired agricultural watersheds under controlled and conventional tile drainage management. *Applied and Environmental Microbiology*, **2014**, 80, 3708-20	4.8	34
153	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?. *Applied and Environmental Microbiology*, **2014**, 80, 3258-65	4.8	94
152	Triclocarban, triclosan and its transformation product methyl triclosan in native earthworm species four years after a commercial-scale biosolids application. *Science of the Total Environment*, **2014**, 472, 235-8	10.2	47
151	Evaluation of different approaches for modeling Escherichia coli O157:H7 survival on field lettuce. *International Journal of Food Microbiology*, **2014**, 184, 74-85	5.8	37

150	The detection of Cryptosporidium and the resolution of mixtures of species and genotypes from water. *Infection, Genetics and Evolution*, **2013**, 15, 3-9	4.5	22
149	Quantitative multi-year elucidation of fecal sources of waterborne pathogen contamination in the South Nation River basin using bacteroidales microbial source tracking markers. *Water Research*, **2013**, 47, 2315-24	12.5	41
148	The scourge of antibiotic resistance: the important role of the environment. *Clinical Infectious Diseases*, **2013**, 57, 704-10	11.6	371
147	Spatiotemporal analysis of Cryptosporidium species/genotypes and relationships with other zoonotic pathogens in surface water from mixed-use watersheds. *Applied and Environmental Microbiology*, **2013**, 79, 434-48	4.8	38
146	Measuring and modeling the effects of drainage water management on soil greenhouse gas fluxes from corn and soybean fields. *Journal of Environmental Management*, **2013**, 129, 652-64	7.9	18
145	Fecal source tracking in water using a mitochondrial DNA microarray. *Water Research*, **2013**, 47, 16-30	12.5	22
144	Physico-chemical characteristics and methanogen communities in swine and dairy manure storage tanks: spatio-temporal variations and impact on methanogenic activity. *Water Research*, **2013**, 47, 737-46	12.5	29
143	Harnessing the theoretical foundations of the exponential and beta-Poisson dose-response models to quantify parameter uncertainty using Markov Chain Monte Carlo. *Risk Analysis*, **2013**, 33, 1677-93	3.9	34
142	Hormones, sterols, and fecal indicator bacteria in groundwater, soil, and subsurface drainage following a high single application of municipal biosolids to a field. *Chemosphere*, **2013**, 91, 275-86	8.4	28
141	Using SWAT, Bacteroidales microbial source tracking markers, and fecal indicator bacteria to predict waterborne pathogen occurrence in an agricultural watershed. *Water Research*, **2013**, 47, 6326-37	12.5	34
140	Bacteria, viruses, and parasites in an intermittent stream protected from and exposed to pasturing cattle: prevalence, densities, and quantitative microbial risk assessment. *Water Research*, **2013**, 47, 6244-57	12.5	18
139	Using Campylobacter spp. and Escherichia coli data and Bayesian microbial risk assessment to examine public health risks in agricultural watersheds under tile drainage management. *Water Research*, **2013**, 47, 3255-72	12.5	26
138	Assessment of a new Bacteroidales marker targeting North American beaver (Castor canadensis) fecal pollution by real-time PCR. *Journal of Microbiological Methods*, **2013**, 95, 201-6	2.8	8
137	Human Health Risk Assessment (HHRA) for environmental development and transfer of antibiotic resistance. *Environmental Health Perspectives*, **2013**, 121, 993-1001	8.4	390
136	Evaluating the pathogenic potential of environmental Escherichia coli by using the Caenorhabditis elegans infection model. *Applied and Environmental Microbiology*, **2013**, 79, 2435-45	4.8	20
135	Management options for reducing the release of antibiotics and antibiotic resistance genes to the environment. *Environmental Health Perspectives*, **2013**, 121, 878-85	8.4	505
134	Persistence of the tricyclic antidepressant drugs amitriptyline and nortriptyline in agriculture soils. *Environmental Toxicology and Chemistry*, **2013**, 32, 509-16	3.8	30
133	A Canadian application of one health: integration of Salmonella data from various Canadian surveillance programs (2005-2010). *Foodborne Pathogens and Disease*, **2013**, 10, 747-56	3.8	24

132	Coherence among different microbial source tracking markers in a small agricultural stream with or without livestock exclusion practices. *Applied and Environmental Microbiology*, **2013**, 79, 6207-19	4.8	32
131	Identification of Methanoculleus spp. as active methanogens during anoxic incubations of swine manure storage tank samples. *Applied and Environmental Microbiology*, **2013**, 79, 424-33	4.8	38
130	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. *Applied and Environmental Microbiology*, **2013**, 79, 5701-9	4.8	286
129	Accelerated Biodegradation of Veterinary Antibiotics in Agricultural Soil following Long-Term Exposure, and Isolation of a Sulfamethazine-degrading sp. *Journal of Environmental Quality*, **2013**, 42, 173-8	3.4	103
128	Coagulation/flocculation pre-treatment of surface water used on dairy farms and evaluation of bacterial viability and gene transfer in treatment sludge. *Water Quality Research Journal of Canada*, **2013**, 48, 111-120	1.7	
127	Tile Drainage Management Influences on Surface-Water and Groundwater Quality following Liquid Manure Application. *Journal of Environmental Quality*, **2013**, 42, 881-92	3.4	23
126	Effect of subtherapeutic vs. therapeutic administration of macrolides on antimicrobial resistance in Mannheimia haemolytica and enterococci isolated from beef cattle. *Frontiers in Microbiology*, **2013**, 4, 133	5.7	49
125	Susceptibility to tulathromycin in Mannheimia haemolytica isolated from feedlot cattle over a 3-year period. *Frontiers in Microbiology*, **2013**, 4, 297	5.7	14
124	Influence of humans on evolution and mobilization of environmental antibiotic resistome. *Emerging Infectious Diseases*, **2013**, 19,	10.2	99
123	Uptake of pharmaceuticals, hormones and parabens into vegetables grown in soil fertilized with municipal biosolids. *Science of the Total Environment*, **2012**, 431, 233-6	10.2	168
122	Molecular and microscopic assessment of the effects of caffeine, acetaminophen, diclofenac, and their mixtures on river biofilm communities. *Environmental Toxicology and Chemistry*, **2012**, 31, 508-17	3.8	48
121	Comparative examination of Escherichia coli O157:H7 survival on romaine lettuce and in soil at two independent experimental sites. *Journal of Food Protection*, **2012**, 75, 480-7	2.5	39
120	Molecular and phylogenetic approaches for assessing sources of Cryptosporidium contamination in water. *Water Research*, **2012**, 46, 5135-50	12.5	44
119	The antihistamine diphenhydramine is extremely persistent in agricultural soil. *Science of the Total Environment*, **2012**, 439, 136-40	10.2	16
118	A comparison of enrichment and direct-plating methods for isolation of Listeria monocytogenes from surface water. *Canadian Journal of Microbiology*, **2012**, 58, 1405-10	3.2	2
117	Phosphorus and sediment loading to surface waters from liquid swine manure application under different drainage and tillage practices. *Agricultural Water Management*, **2012**, 104, 51-61	5.9	51
116	Nitrogen loading to offsite waters from liquid swine manure application under different drainage and tillage practices. *Agricultural Water Management*, **2012**, 104, 40-50	5.9	10
115	High-throughput species identification of enterococci using pyrosequencing. *Journal of Microbiological Methods*, **2012**, 89, 174-8	2.8	15

114	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. *Journal of Microbiological Methods*, **2012**, 91, 506-13	2.8	35
113	Characterization of Staphylococcus xylosus isolated from broiler chicken barn bioaerosol. *Poultry Science*, **2012**, 91, 3003-12	3.9	16
112	Spatial and temporal drivers of zoonotic pathogen contamination of an agricultural watershed. *Journal of Environmental Quality*, **2012**, 41, 242-52	3.4	42
111	Impact of riparian zone protection from cattle on nutrient, bacteria, F-coliphage, and loading of an intermittent stream. *Journal of Environmental Quality*, **2012**, 41, 1301-14	3.4	28
110	Role of livestock in microbiological contamination of water: Commonly the blame, but not always the source. *Animal Frontiers*, **2012**, 2, 17-27	5.5	26
109	Investigation of an Escherichia coli environmental benchmark for waterborne pathogens in agricultural watersheds in Canada. *Journal of Environmental Quality*, **2012**, 41, 21-30	3.4	44
108	Methanoculleus spp. as a biomarker of methanogenic activity in swine manure storage tanks. *FEMS Microbiology Ecology*, **2012**, 80, 427-40	4.3	33
107	Pharmaceutical and personal care products in groundwater, subsurface drainage, soil, and wheat grain, following a high single application of municipal biosolids to a field. *Chemosphere*, **2012**, 87, 194-203	8.4	191
106	Pharmaceuticals and personal care products in the environment: what are the big questions?. *Environmental Health Perspectives*, **2012**, 120, 1221-9	8.4	830
105	Pathogenic and multidrug-resistant Escherichia fergusonii from broiler chicken. *Poultry Science*, **2012**, 91, 512-25	3.9	39
104	Development and validation of a microbial source tracking marker for the detection of fecal pollution by muskrats. *Journal of Microbiological Methods*, **2011**, 87, 82-8	2.8	16
103	Molecular subtypes of Campylobacter spp., Salmonella enterica, and Escherichia coli O157:H7 isolated from faecal and surface water samples in the Oldman River watershed, Alberta, Canada. *Water Research*, **2011**, 45, 1247-57	12.5	75
102	Associations among pathogenic bacteria, parasites, and environmental and land use factors in multiple mixed-use watersheds. *Water Research*, **2011**, 45, 5807-25	12.5	117
101	Real-time quantification of mcrA, pmoA for methanogen, methanotroph estimations during composting. *Journal of Environmental Quality*, **2011**, 40, 199-205	3.4	15
100	Effect of backgrounding and transition diets on fecal concentration and strain types of commensalEscherichia coliin beef cattle. *Canadian Journal of Animal Science*, **2011**, 91, 449-458	0.9	3
99	Maintenance strategies for on-site water disinfection by ultraviolet lamps on dairy farms. *Water Quality Research Journal of Canada*, **2011**, 46, 2-12	1.7	3
98	Veterinary antimicrobials in feedlot manure: dissipation during composting and effects on composting processes. *Journal of Environmental Quality*, **2011**, 40, 188-98	3.4	44
97	Distribution of selected virulence genes and antibiotic resistance in Enterococcus species isolated from the South Nation River drainage basin, Ontario, Canada. *Journal of Applied Microbiology*, **2011**, 110, 407-21	4.7	21

96	Continuous feeding of antimicrobial growth promoters to commercial swine during the growing/finishing phase does not modify faecal community erythromycin resistance or community structure. *Journal of Applied Microbiology*, **2011**, 110, 1414-25	4.7	22
95	A novel fingerprint method to assess the diversity of methanogens in microbial systems. *FEMS Microbiology Letters*, **2011**, 325, 115-22	2.9	18
94	Distribution and characterization of ampicillin- and tetracycline-resistant Escherichia coli from feedlot cattle fed subtherapeutic antimicrobials. *BMC Microbiology*, **2011**, 11, 78	4.5	26
93	Longitudinal characterization of antimicrobial resistance genes in feces shed from cattle fed different subtherapeutic antibiotics. *BMC Microbiology*, **2011**, 11, 19	4.5	60
92	Fate of the antifungal drug clotrimazole in agricultural soil. *Environmental Toxicology and Chemistry*, **2011**, 30, 582-7	3.8	21
91	Development of a DNA microarray for enterococcal species, virulence, and antibiotic resistance gene determinations among isolates from poultry. *Applied and Environmental Microbiology*, **2011**, 77, 2625-33	4.8	21
90	Class 1 integrons, selected virulence genes, and antibiotic resistance in Escherichia coli isolates from the Minjiang River, Fujian Province, China. *Applied and Environmental Microbiology*, **2011**, 77, 148-55	4.8	58
89	Distribution of antimicrobial resistance and virulence genes in Enterococcus spp. and characterization of isolates from broiler chickens. *Applied and Environmental Microbiology*, **2010**, 76, 8033-43	4.8	79
88	The occurrence and sources of Campylobacter spp., Salmonella enterica and Escherichia coli O157:H7 in the Salmon River, British Columbia, Canada. *Journal of Water and Health*, **2010**, 8, 374-86	2.2	47
87	Prolonged survival of Campylobacter species in bovine manure compost. *Applied and Environmental Microbiology*, **2010**, 76, 1110-9	4.8	53
86	Enumeration and strain characterization of fecal Escherichia coli associated with feeding triticale dried distillers grain with solubles in beef cattle diets. *Foodborne Pathogens and Disease*, **2010**, 7, 1323-30	3.8	0
85	Dynamics of antimicrobial resistance and virulence genes in Enterococcus faecalis during swine manure storage. *Canadian Journal of Microbiology*, **2010**, 56, 683-91	3.2	9
84	Spatial distribution of some microbial trophic groups in a plug-flow-type anaerobic bioreactor treating swine manure. *Water Science and Technology*, **2010**, 61, 1147-55	2.2	8
83	Distribution and diversity of Escherichia coli populations in the South Nation River drainage basin, eastern Ontario, Canada. *Applied and Environmental Microbiology*, **2010**, 76, 1486-96	4.8	62
82	Using vegetation indices from satellite remote sensing to assess corn and soybean response to controlled tile drainage. *Agricultural Water Management*, **2010**, 98, 261-270	5.9	37
81	The non-steroidal anti-inflammatory drug diclofenac is readily biodegradable in agricultural soils. *Science of the Total Environment*, **2010**, 409, 78-82	10.2	48
80	Optimization and validation of rep-PCR genotypic libraries for microbial source tracking of environmental Escherichia coli isolates. *Canadian Journal of Microbiology*, **2010**, 56, 8-17	3.2	14
79	Frequency of virulence genes and antibiotic resistances in Enterococcus spp. isolates from wastewater and feces of domesticated mammals and birds, and wildlife. *Canadian Journal of Microbiology*, **2010**, 56, 715-29	3.2	28

78	Polybrominated diphenyl ethers, perfluorinated alkylated substances, and metals in tile drainage and groundwater following applications of municipal biosolids to agricultural fields. *Science of the Total Environment*, **2010**, 408, 873-83	10.2	34
77	Fate of the antiretroviral drug tenofovir in agricultural soil. *Science of the Total Environment*, **2010**, 408, 5559-64	10.2	20
76	Farm-to-fork characterization of Escherichia coli associated with feedlot cattle with a known history of antimicrobial use. *International Journal of Food Microbiology*, **2010**, 137, 40-8	5.8	46
75	Environmental risk assessment of human pharmaceuticals in the European Union: A case study with the β-blocker atenolol. *Integrated Environmental Assessment and Management*, **2010**, 6 Suppl, 514-23	2.5	12
74	Nitrogen, phosphorus, and bacteria tile and groundwater quality following direct injection of dewatered municipal biosolids into soil. *Journal of Environmental Quality*, **2009**, 38, 1066-75	3.4	20
73	Simulation of pharmaceutical and personal care product transport to tile drains after biosolids application. *Journal of Environmental Quality*, **2009**, 38, 1274-85	3.4	27
72	Commensal fecal Escherichia coli diversity in dairy cows at high and low risk for incurring subacute ruminal acidosis. *Foodborne Pathogens and Disease*, **2009**, 6, 973-80	3.8	4
71	Longitudinal characterization of resistant Escherichia coli in fecal deposits from cattle fed subtherapeutic levels of antimicrobials. *Applied and Environmental Microbiology*, **2009**, 75, 7125-34	4.8	29
70	Comparative microscale analysis of the effects of triclosan and triclocarban on the structure and function of river biofilm communities. *Science of the Total Environment*, **2009**, 407, 3307-16	10.2	58
69	Pharmaceutical and personal care products in tile drainage following surface spreading and injection of dewatered municipal biosolids to an agricultural field. *Science of the Total Environment*, **2009**, 407, 4220-30	10.2	96
68	Runoff of pharmaceuticals and personal care products following application of dewatered municipal biosolids to an agricultural field. *Science of the Total Environment*, **2009**, 407, 4596-604	10.2	99
67	Impact of biosolids on the persistence and dissipation pathways of triclosan and triclocarban in an agricultural soil. *Science of the Total Environment*, **2009**, 407, 5978-85	10.2	62
66	Multivariate statistical analyses of rDNA and rRNA fingerprint data to differentiate microbial communities in swine manure. *FEMS Microbiology Ecology*, **2009**, 70, 540-52	4.3	10
65	Livestock waste treatment systems for reducing environmental exposure to hazardous enteric pathogens: some considerations. *Bioresource Technology*, **2009**, 100, 5395-8	11	46
64	Pathotype and antibiotic resistance gene distributions of Escherichia coli isolates from broiler chickens raised on antimicrobial-supplemented diets. *Applied and Environmental Microbiology*, **2009**, 75, 6955-62	4.8	61
63	Bacterial community dynamics in an anaerobic plug-flow type bioreactor treating swine manure. *Water Research*, **2009**, 43, 21-32	12.5	37
62	Seasonal relationships among indicator bacteria, pathogenic bacteria, Cryptosporidium oocysts, Giardia cysts, and hydrological indices for surface waters within an agricultural landscape. *Water Research*, **2009**, 43, 2209-23	12.5	244
61	A methods comparison for the isolation and detection of thermophilic Campylobacter in agricultural watersheds. *Journal of Microbiological Methods*, **2009**, 79, 307-13	2.8	18

60	Impacts of climate change on indirect human exposure to pathogens and chemicals from agriculture. *Environmental Health Perspectives*, **2009**, 117, 508-14	8.4	156
59	Characterization of tetracycline- and ampicillin-resistant Escherichia coli isolated from the feces of feedlot cattle over the feeding period. *Canadian Journal of Microbiology*, **2009**, 55, 750-61	3.2	5
58	Selected antimicrobial resistance during composting of manure from cattle administered sub-therapeutic antimicrobials. *Journal of Environmental Quality*, **2009**, 38, 567-75	3.4	60
57	Runoff of pharmaceuticals and personal care products following application of biosolids to an agricultural field. *Science of the Total Environment*, **2008**, 396, 52-9	10.2	170
56	Pharmaceutical and personal care products in tile drainage following land application of municipal biosolids. *Science of the Total Environment*, **2008**, 399, 50-65	10.2	122
55	A heuristic model to predict earthworm biomass in agroecosystems based on selected management and soil properties. *Applied Soil Ecology*, **2008**, 39, 35-45	5	36
54	Evaluation of molecular methods used for establishing the interactions and functions of microorganisms in anaerobic bioreactors. *Water Research*, **2008**, 42, 513-37	12.5	120
53	Effect of subtherapeutic administration of antibiotics on the prevalence of antibiotic-resistant Escherichia coli bacteria in feedlot cattle. *Applied and Environmental Microbiology*, **2008**, 74, 4405-16	4.8	108
52	Diversity and distribution of commensal fecal Escherichia coli bacteria in beef cattle administered selected subtherapeutic antimicrobials in a feedlot setting. *Applied and Environmental Microbiology*, **2008**, 74, 6178-86	4.8	42
51	Loss of virulence genes in Escherichia coli populations during manure storage on a commercial swine farm. *Applied and Environmental Microbiology*, **2008**, 74, 3935-42	4.8	25
50	Community-level assessment of the effects of the broad-spectrum antimicrobial chlorhexidine on the outcome of river microbial biofilm development. *Applied and Environmental Microbiology*, **2008**, 74, 3541-50	4.8	33
49	Effect of liquid municipal biosolid application method on tile and ground water quality. *Journal of Environmental Quality*, **2008**, 37, 925-36	3.4	51
48	Using MACRO to Simulate Liquid Sewage Biosolid Transport to Tile Drains for Several Land Application Methods. *Transactions of the ASABE*, **2008**, 51, 1235-1245	0.9	5
47	Exposure Assessment Methods for Veterinary and Human-Use Medicines in the Environment: PEC vs. MEC Comparisons **2008**, 147-171		6
46	Distribution and characteristics of Listeria monocytogenes isolates from surface waters of the South Nation River watershed, Ontario, Canada. *Applied and Environmental Microbiology*, **2007**, 73, 5401-10	4.8	108
45	Factors influencing the concentration of volatile fatty acids, ammonia, and other nutrients in stored liquid pig manure. *Journal of Environmental Quality*, **2007**, 36, 440-7	3.4	41
44	Tile water quality following liquid swine manure application into standing corn. *Journal of Environmental Quality*, **2007**, 36, 580-7	3.4	46
43	Slurry-application implement tine modification of soil hydraulic properties under different soil water content conditions for silt□lay loam soils. *Soil and Tillage Research*, **2007**, 95, 120-132	6.5	13

42	Tine-influenced infiltration patterns and informing timing of liquid amendment applications using brilliant blue dye tracers. *Biosystems Engineering*, **2007**, 98, 235-247	4.8	16
41	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. *Applied and Environmental Microbiology*, **2007**, 73, 6566-76	4.8	127
40	Temporal dynamics and impact of manure storage on antibiotic resistance patterns and population structure of Escherichia coli isolates from a commercial swine farm. *Applied and Environmental Microbiology*, **2007**, 73, 5486-93	4.8	43
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