

Edward Topp

List of Publications by Year in descending order

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205
papers

13,179
citations

25014

57
h-index

27389

106
g-index

210
all docs

210
docs citations

210
times ranked

12650
citing authors

#	ARTICLE	IF	CITATIONS
1	Pharmaceuticals and Personal Care Products in the Environment: What Are the Big Questions?. <i>Environmental Health Perspectives</i> , 2012, 120, 1221-1229.	2.8	1,033
2	Management Options for Reducing the Release of Antibiotics and Antibiotic Resistance Genes to the Environment. <i>Environmental Health Perspectives</i> , 2013, 121, 878-885.	2.8	657
3	Human Health Risk Assessment (HHRA) for Environmental Development and Transfer of Antibiotic Resistance. <i>Environmental Health Perspectives</i> , 2013, 121, 993-1001.	2.8	508
4	The Scourge of Antibiotic Resistance: The Important Role of the Environment. <i>Clinical Infectious Diseases</i> , 2013, 57, 704-710.	2.9	487
5	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, 5701-5709.	1.4	371
6	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.	1.4	342
7	Seasonal relationships among indicator bacteria, pathogenic bacteria, <i>Cryptosporidium</i> oocysts, <i>Giardia</i> cysts, and hydrological indices for surface waters within an agricultural landscape. <i>Water Research</i> , 2009, 43, 2209-2223.	5.3	293
8	Critical knowledge gaps and research needs related to the environmental dimensions of antibiotic resistance. <i>Environment International</i> , 2018, 117, 132-138.	4.8	281
9	An omics-based framework for assessing the health risk of antimicrobial resistance genes. <i>Nature Communications</i> , 2021, 12, 4765.	5.8	248
10	Ecotoxicological assessment of antibiotics: A call for improved consideration of microorganisms. <i>Environment International</i> , 2015, 85, 189-205.	4.8	209
11	Uptake of pharmaceuticals, hormones and parabens into vegetables grown in soil fertilized with municipal biosolids. <i>Science of the Total Environment</i> , 2012, 431, 233-236.	3.9	196
12	Persistence of Estrogenic Hormones in Agricultural Soils: I. 17 β -Estradiol and Estrone. <i>Journal of Environmental Quality</i> , 2001, 30, 2070-2076.	1.0	194
13	Characterization of S-Triazine Herbicide Metabolism by a <i>Nocardioides</i> sp. Isolated from Agricultural Soils. <i>Applied and Environmental Microbiology</i> , 2000, 66, 3134-3141.	1.4	189
14	Runoff of pharmaceuticals and personal care products following application of biosolids to an agricultural field. <i>Science of the Total Environment</i> , 2008, 396, 52-59.	3.9	185
15	Soils as sources and sinks for atmospheric methane. <i>Canadian Journal of Soil Science</i> , 1997, 77, 167-177.	0.5	181
16	Impact of Feed Supplementation with Antimicrobial Agents on Growth Performance of Broiler Chickens, <i>Clostridium perfringens</i> and <i>Enterococcus</i> Counts, and Antibiotic Resistance Phenotypes and Distribution of Antimicrobial Resistance Determinants in <i>Escherichia coli</i> Isolates. <i>Applied and Environmental Microbiology</i> , 2007, 73, 6566-6576.	1.4	167
17	Characterization of an Atrazine-Degrading <i>Pseudaminobacter</i> sp. Isolated from Canadian and French Agricultural Soils. <i>Applied and Environmental Microbiology</i> , 2000, 66, 2773-2782.	1.4	165
18	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, 6898-6907.	1.4	164

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19	Impact of dairy manure pre-application treatment on manure composition, soil dynamics of antibiotic resistance genes, and abundance of antibiotic-resistance genes on vegetables at harvest. <i>Science of the Total Environment</i> , 2017, 581-582, 32-39.	3.9	148
20	Dependence of accelerated degradation of atrazine on soil pH in French and Canadian soils. <i>Soil Biology and Biochemistry</i> , 2000, 32, 615-625.	4.2	144
21	Evaluation of QIAamp® DNA Stool Mini Kit for ecological studies of gut microbiota. <i>Journal of Microbiological Methods</i> , 2003, 54, 13-20.	0.7	135
22	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, 5401-5410.	1.4	135
23	Accelerated Biodegradation of Veterinary Antibiotics in Agricultural Soil following Long-Term Exposure, and Isolation of a Sulfamethazine-degrading <i>Microbacterium</i> sp.. <i>Journal of Environmental Quality</i> , 2013, 42, 173-178.	1.0	126
24	Survey of hormone activities in municipal biosolids and animal manures. <i>Environmental Toxicology</i> , 2004, 19, 216-225.	2.1	121
25	Back to the Future of Soil Metagenomics. <i>Frontiers in Microbiology</i> , 2016, 7, 73.	1.5	120
26	Strain-dependent variability in growth and survival of <i>Escherichia coli</i> in agricultural soil. <i>FEMS Microbiology Ecology</i> , 2003, 44, 303-308.	1.3	115
27	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, 3258-3265.	1.4	114
28	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, 4596-4604.	3.9	110
29	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.	1.7	108
30	Tracking Host Sources of <i>Cryptosporidium</i> spp. in Raw Water for Improved Health Risk Assessment. <i>Applied and Environmental Microbiology</i> , 2007, 73, 3945-3957.	1.4	107
31	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, 8033-8043.	1.4	107
32	The triazine hydrolase gene <i>trzN</i> from <i>Nocardia</i> sp. strain C190: Cloning and construction of gene-specific primers. <i>FEMS Microbiology Letters</i> , 2002, 206, 75-79.	0.7	105
33	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, 7905-7913.	1.4	101
34	Antibiotic Resistance Genes in the Human-Impacted Environment: A One Health Perspective. <i>Pedosphere</i> , 2019, 29, 273-282.	2.1	100
35	Antibiotic Resistance and Virulence Genes in Commensal <i>Escherichia coli</i> and <i>Salmonella</i> Isolates from Commercial Broiler Chicken Farms. <i>Journal of Food Protection</i> , 2007, 70, 1316-1327.	0.8	92
36	Persistence of Testosterone and 17 β -Estradiol in Soils Receiving Swine Manure or Municipal Biosolids. <i>Journal of Environmental Quality</i> , 2005, 34, 861-871.	1.0	88

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37	Bioaccumulation of triclosan and triclocarban in plants grown in soils amended with municipal dewatered biosolids. <i>Environmental Toxicology and Chemistry</i> , 2014, 33, 975-984.	2.2	88
38	The nasopharyngeal microbiota of feedlot cattle that develop bovine respiratory disease. <i>Veterinary Microbiology</i> , 2015, 180, 90-95.	0.8	88
39	Bacteria Associated with Cysts of the Soybean Cyst Nematode (<i>Heterodera glycines</i>). <i>Applied and Environmental Microbiology</i> , 2003, 69, 607-615.	1.4	82
40	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, 1158-1167.	0.8	77
41	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, 6955-6962.	1.4	77
42	Bacterial community dynamics in liquid swine manure during storage: molecular analysis using DGGE/PCR of 16S rDNA. <i>FEMS Microbiology Ecology</i> , 2001, 38, 169-177.	1.3	74
43	Rapid mineralization of the endocrine-disrupting chemical 4-nonylphenol in soil. <i>Environmental Toxicology and Chemistry</i> , 2000, 19, 313-318.	2.2	71
44	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, 1486-1496.	1.4	71
45	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.	1.5	71
46	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.	3.9	71
47	Antimicrobial resistance and the environment: assessment of advances, gaps and recommendations for agriculture, aquaculture and pharmaceutical manufacturing. <i>FEMS Microbiology Ecology</i> , 2018, 94, .	1.3	71
48	Environmental contamination in a high-income country (France) by antibiotics, antibiotic-resistant bacteria, and antibiotic resistance genes: Status and possible causes. <i>Environment International</i> , 2022, 159, 107047.	4.8	70
49	Persistence of Estrogenic Hormones in Agricultural Soils: II. 17 β -Ethinylestradiol. <i>Journal of Environmental Quality</i> , 2001, 30, 2077-2080.	1.0	69
50	Selected Antimicrobial Resistance during Composting of Manure from Cattle Administered Sub-Therapeutic Antimicrobials. <i>Journal of Environmental Quality</i> , 2009, 38, 567-575.	1.0	68
51	A comparison of three atrazine-degrading bacteria for soil bioremediation. <i>Biology and Fertility of Soils</i> , 2001, 33, 529-534.	2.3	66
52	Dairy manure incorporation stimulates rapid atrazine mineralization in an agricultural soil. <i>Canadian Journal of Soil Science</i> , 1996, 76, 403-409.	0.5	65
53	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, 148-155.	1.4	65
54	Prolonged Survival of <i>Campylobacter</i> Species in Bovine Manure Compost. <i>Applied and Environmental Microbiology</i> , 2010, 76, 1110-1119.	1.4	64

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55	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, 5978-5985.	3.9	63
56	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, 138-153.	3.9	63
57	Novel Antibiotic Resistance Determinants from Agricultural Soil Exposed to Antibiotics Widely Used in Human Medicine and Animal Farming. <i>Applied and Environmental Microbiology</i> , 2017, 83, .	1.4	62
58	Evidence of Naturalized Stress-Tolerant Strains of <i>Escherichia coli</i> in Municipal Wastewater Treatment Plants. <i>Applied and Environmental Microbiology</i> , 2016, 82, 5505-5518.	1.4	61
59	Spatial and Temporal Drivers of Zoonotic Pathogen Contamination of an Agricultural Watershed. <i>Journal of Environmental Quality</i> , 2012, 41, 242-252.	1.0	59
60	RAPID MINERALIZATION OF THE ENDOCRINE-DISRUPTING CHEMICAL 4-NONYLPHENOL IN SOIL. <i>Environmental Toxicology and Chemistry</i> , 2000, 19, 313.	2.2	59
61	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, 235-238.	3.9	58
62	The non-steroidal anti-inflammatory drug diclofenac is readily biodegradable in agricultural soils. <i>Science of the Total Environment</i> , 2010, 409, 78-82.	3.9	57
63	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, 6178-6186.	1.4	55
64	A global multinational survey of cefotaxime-resistant coliforms in urban wastewater treatment plants. <i>Environment International</i> , 2020, 144, 106035.	4.8	55
65	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, 424-433.	1.4	54
66	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.	1.1	54
67	The potential of using <i>E. coli</i> as an indicator for the surveillance of antimicrobial resistance (AMR) in the environment. <i>Current Opinion in Microbiology</i> , 2021, 64, 152-158.	2.3	54
68	Antibiotic Resistance and Diversity of <i>Salmonella enterica</i> Serovars Associated with Broiler Chickens. <i>Journal of Food Protection</i> , 2014, 77, 40-49.	0.8	53
69	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.	1.1	53
70	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, 374-386.	1.1	51
71	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.	3.9	51
72	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, 111-119.	1.3	50

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73	Impact of pre-application treatment on municipal sludge composition, soil dynamics of antibiotic resistance genes, and abundance of antibiotic-resistance genes on vegetables at harvest. <i>Science of the Total Environment</i> , 2017, 587-588, 214-222.	3.9	50
74	Molecular and phylogenetic approaches for assessing sources of <i>Cryptosporidium</i> contamination in water. <i>Water Research</i> , 2012, 46, 5135-5150.	5.3	49
75	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, 2315-2324.	5.3	49
76	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, 5486-5493.	1.4	48
77	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, 440-447.	1.0	48
78	STRUCTURAL AND FUNCTIONAL RESPONSES OF RIVER BIOFILM COMMUNITIES TO THE NONSTEROIDAL ANTI-INFLAMMATORY DICLOFENAC. <i>Environmental Toxicology and Chemistry</i> , 2007, 26, 573.	2.2	48
79	Long-term antibiotic exposure in soil is associated with changes in microbial community structure and prevalence of class 1 integrons. <i>FEMS Microbiology Ecology</i> , 2016, 92, fiw159.	1.3	46
80	The case for plant-made veterinary immunotherapeutics. <i>Biotechnology Advances</i> , 2016, 34, 597-604.	6.0	46
81	Fate of the nonsteroidal anti-inflammatory drug naproxen in agricultural soil receiving liquid municipal biosolids. <i>Environmental Toxicology and Chemistry</i> , 2008, 27, 2005-2010.	2.2	44
82	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, 434-448.	1.4	44
83	<i>Arcobacter lanthieri</i> sp. nov., isolated from pig and dairy cattle manure. <i>International Journal of Systematic and Evolutionary Microbiology</i> , 2015, 65, 2709-2716.	0.8	44
84	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.	6.5	44
85	Controlling tile drainage during the growing season in Eastern Canada to reduce nitrogen, phosphorus, and bacteria loading to surface water. <i>Agricultural Water Management</i> , 2016, 178, 159-170.	2.4	44
86	Aquatic Bacterial Communities Associated With Land Use and Environmental Factors in Agricultural Landscapes Using a Metabarcoding Approach. <i>Frontiers in Microbiology</i> , 2018, 9, 2301.	1.5	44
87	An enhanced technique combining pre-enrichment and passive filtration increases the isolation efficiency of <i>Campylobacter jejuni</i> and <i>Campylobacter coli</i> from water and animal fecal samples. <i>Journal of Microbiological Methods</i> , 2012, 91, 506-513.	0.7	43
88	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, 6207-6219.	1.4	43
89	Antibiotic resistance in the soil ecosystem: A One Health perspective. <i>Current Opinion in Environmental Science and Health</i> , 2021, 20, 100230.	2.1	43
90	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, 3708-3720.	1.4	42

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91	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, 600-607.	0.8	42
92	Dissipation of triclosan, triclocarban, carbamazepine and naproxen in agricultural soil following surface or sub-surface application of dewatered municipal biosolids. Science of the Total Environment, 2015, 512-513, 480-488.	3.9	41
93	Dissipation of part per trillion concentrations of estrogenic hormones from agricultural soils. Canadian Journal of Soil Science, 2002, 82, 335-340.	0.5	40
94	Identifying Host Sources of Fecal Pollution: Diversity of Escherichia coli in Confined Dairy and Swine Production Systems. Applied and Environmental Microbiology, 2005, 71, 5992-5998.	1.4	39
95	Bacterial community dynamics in an anaerobic plug-flow type bioreactor treating swine manure. Water Research, 2009, 43, 21-32.	5.3	39
96	Using SWAT, Bacteroidales microbial source tracking markers, and fecal indicator bacteria to predict waterborne pathogen occurrence in an agricultural watershed. Water Research, 2013, 47, 6326-6337.	5.3	38
97	Environmental risk assessment of antibiotics in agroecosystems: ecotoxicological effects on aquatic microbial communities and dissemination of antimicrobial resistances and antibiotic biodegradation potential along the soil-water continuum. Environmental Science and Pollution Research, 2019, 26, 18930-18937.	2.7	38
98	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, 737-746.	5.3	37
99	Methanoculleus spp. as a biomarker of methanogenic activity in swine manure storage tanks. FEMS Microbiology Ecology, 2012, 80, 427-440.	1.3	36
100	Persistence and Pathways of Testosterone Dissipation in Agricultural Soil. Journal of Environmental Quality, 2005, 34, 854-860.	1.0	35
101	Persistence of the tricyclic antidepressant drugs amitriptyline and nortriptyline in agriculture soils. Environmental Toxicology and Chemistry, 2013, 32, 509-516.	2.2	35
102	Effects of Nitrapyrin [2-Chloro-6-(Trichloromethyl) Pyridine] on the Obligate Methanotroph <i>Methylosinus trichosporium</i> OB3b. Applied and Environmental Microbiology, 1984, 47, 258-262.	1.4	35
103	An effective bioremediation approach for enhanced microbial degradation of the veterinary antibiotic sulfamethazine in an agricultural soil. Chemical and Biological Technologies in Agriculture, 2016, 3, .	1.9	34
104	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.	3.9	33
105	Frequency of virulence genes and antibiotic resistances in <i>Enterococcus</i> spp. isolates from wastewater and feces of domesticated mammals and birds, and wildlife. Canadian Journal of Microbiology, 2010, 56, 715-729.	0.8	32
106	Bringing plant-based veterinary vaccines to market: Managing regulatory and commercial hurdles. Biotechnology Advances, 2015, 33, 1572-1581.	6.0	32
107	Enrichment of antibiotic resistance genes in soil receiving composts derived from swine manure, yard wastes, or food wastes, and evidence for multiyear persistence of swine <i>Clostridium</i> spp.. Canadian Journal of Microbiology, 2018, 64, 201-208.	0.8	32
108	Identification and Characterization of a Pseudomonas Strain Capable of Metabolizing Phenoxybenzoates. Applied and Environmental Microbiology, 1991, 57, 1294-1300.	1.4	32

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109	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, 243-252.	5.3	31
110	Identification, characterization and description of <i>Arcobacter faecis</i> sp. nov., isolated from a human waste septic tank. <i>Systematic and Applied Microbiology</i> , 2016, 39, 93-99.	1.2	31
111	Nitrapyrin inhibits the obligate methylotrophs <i>Methylosinus trichosporium</i> and <i>Methylococcus capsulatus</i> . <i>FEMS Microbiology Letters</i> , 1982, 14, 47-49.	0.7	30
112	Characterization of antibiotic-resistant and potentially pathogenic <i>Escherichia coli</i> from soil fertilized with litter of broiler chickens fed antimicrobial-supplemented diets. <i>Canadian Journal of Microbiology</i> , 2012, 58, 1084-1098.	0.8	30
113	Multiplex PCR-DNA probe assay for the detection of pathogenic <i>Escherichia coli</i> . <i>Journal of Microbiological Methods</i> , 2005, 60, 93-105.	0.7	29
114	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, 3935-3942.	1.4	29
115	Simulation of Pharmaceutical and Personal Care Product Transport to Tile Drains after Biosolids Application. <i>Journal of Environmental Quality</i> , 2009, 38, 1274-1285.	1.0	29
116	Composting of chicken litter from commercial broiler farms reduces the abundance of viable enteric bacteria, Firmicutes, and selected antibiotic resistance genes. <i>Science of the Total Environment</i> , 2020, 746, 141113.	3.9	29
117	Effects of selected agrochemicals on methane oxidation by an organic agricultural soil. <i>Canadian Journal of Soil Science</i> , 1993, 73, 287-291.	0.5	28
118	Fate of Clostridia and other spore-forming Firmicute bacteria during feedstock anaerobic digestion and aerobic composting. <i>Journal of Environmental Management</i> , 2022, 309, 114643.	3.8	28
119	Rapid mineralization of the herbicide atrazine in alluvial sediments and enrichment cultures. <i>Environmental Toxicology and Chemistry</i> , 1995, 14, 743-747.	2.2	27
120	Fate of the antiretroviral drug tenofovir in agricultural soil. <i>Science of the Total Environment</i> , 2010, 408, 5559-5564.	3.9	27
121	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.	1.0	27
122	Fecal source tracking in water using a mitochondrial DNA microarray. <i>Water Research</i> , 2013, 47, 16-30.	5.3	26
123	Evaluating the Pathogenic Potential of Environmental <i>Escherichia coli</i> by Using the <i>Caenorhabditis elegans</i> Infection Model. <i>Applied and Environmental Microbiology</i> , 2013, 79, 2435-2445.	1.4	26
124	Spectral Counting Approach to Measure Selectivity of High-Resolution LC-MS Methods for Environmental Analysis. <i>Analytical Chemistry</i> , 2017, 89, 2747-2754.	3.2	26
125	Genotypes and Phenotypes of Enterococci Isolated From Broiler Chickens. <i>Frontiers in Sustainable Food Systems</i> , 2018, 2, .	1.8	26
126	Atrazine and Metolachlor Dissipation in Soils Incubated in Undisturbed Cores, Repacked Cores, and Flasks. <i>Journal of Environmental Quality</i> , 1994, 23, 693-700.	1.0	25

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127	Phenotypic and Genotypic Characteristics of Shiga Toxin-Producing <i>Escherichia coli</i> Isolated from Surface Waters and Sediments in a Canadian Urban-Agricultural Landscape. <i>Frontiers in Cellular and Infection Microbiology</i> , 2016, 6, 36.	1.8	25
128	Mineralization of 3-phenoxybenzoate by a two-membered bacterial co-culture. <i>Canadian Journal of Microbiology</i> , 1990, 36, 495-499.	0.8	24
129	A methods comparison for the isolation and detection of thermophilic <i>Campylobacter</i> in agricultural watersheds. <i>Journal of Microbiological Methods</i> , 2009, 79, 307-313.	0.7	23
130	Isolation and Characterization of <i>Acinetobacter baumannii</i> Recovered from <i>Campylobacter</i> Selective Medium. <i>Frontiers in Microbiology</i> , 2016, 7, 1871.	1.5	23
131	Antimicrobial Resistance of <i>Escherichia fergusonii</i> Isolated from Broiler Chickens. <i>Journal of Food Protection</i> , 2016, 79, 929-938.	0.8	23
132	Editorial: The Environmental Dimension of Antibiotic Resistance. <i>FEMS Microbiology Ecology</i> , 2020, 96, .	1.3	23
133	Characterization of <i>Staphylococcus xylosus</i> isolated from broiler chicken barn bioaerosol. <i>Poultry Science</i> , 2012, 91, 3003-3012.	1.5	22
134	Novel virulence, antibiotic resistance and toxin gene-specific PCR-based assays for rapid pathogenicity assessment of <i>Arcobacter faecis</i> and <i>Arcobacter lanthieri</i> . <i>BMC Microbiology</i> , 2019, 19, 11.	1.3	22
135	Fate of the antifungal drug clotrimazole in agricultural soil. <i>Environmental Toxicology and Chemistry</i> , 2011, 30, 582-587.	2.2	21
136	Waterborne Viruses and F-Specific Coliphages in Mixed-Use Watersheds: Microbial Associations, Host Specificities, and Affinities with Environmental/Land Use Factors. <i>Applied and Environmental Microbiology</i> , 2017, 83, .	1.4	21
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