Jiyoung Lee

List of Publications by Citations

80 papers	1,325 citations	19 h-index	33 g-index
82 ext. papers	1,741 ext. citations	5 avg, IF	5.1 L-index

#	Paper	IF	Citations
80	Toxin-producing cyanobacteria in freshwater: a review of the problems, impact on drinking water safety, and efforts for protecting public health. *Journal of Microbiology*, **2013**, 51, 1-10	3	132
79	Performance of human fecal anaerobe-associated PCR-based assays in a multi-laboratory method evaluation study. *Water Research*, **2013**, 47, 6897-908	12.5	106
78	Beneficial bacteria and fungi in hydroponic systems: Types and characteristics of hydroponic food production methods. *Scientia Horticulturae*, **2015**, 195, 206-215	4.1	72
77	Cyanobacteria blooms and non-alcoholic liver disease: evidence from a county level ecological study in the United States. *Environmental Health*, **2015**, 14, 41	6	58
76	The microbiome and antibiotic resistance in integrated fishfarm water: Implications of environmental public health. *Science of the Total Environment*, **2019**, 649, 1491-1501	10.2	56
75	Arcobacter in Lake Erie beach waters: an emerging gastrointestinal pathogen linked with human-associated fecal contamination. *Applied and Environmental Microbiology*, **2012**, 78, 5511-9	4.8	52
74	Cyanobacterial Toxins in Freshwater and Food: Important Sources of Exposure to Humans. *Annual Review of Food Science and Technology*, **2017**, 8, 281-304	14.7	47
73	The threat of carbapenem-resistant bacteria in the environment: Evidence of widespread contamination of reservoirs at a global scale. *Environmental Pollution*, **2019**, 255, 113143	9.3	47
72	Evaluation of new gyrB-based real-time PCR system for the detection of B. fragilis as an indicator of human-specific fecal contamination. *Journal of Microbiological Methods*, **2010**, 82, 311-8	2.8	47
71	Fresh produce and their soils accumulate cyanotoxins from irrigation water: Implications for public health and food security. *Food Research International*, **2017**, 102, 234-245	7	40
70	Development and application of a quantitative PCR assay targeting Catellicoccus marimammalium for assessing gull-associated fecal contamination at Lake Erie beaches. *Science of the Total Environment*, **2013**, 454-455, 1-8	10.2	37
69	The impact of extreme weather events on Salmonella internalization in lettuce and green onion. *Food Research International*, **2012**, 45, 1118-1122	7	37
68	The Microbiota of Recreational Freshwaters and the Implications for Environmental and Public Health. *Frontiers in Microbiology*, **2016**, 7, 1826	5.7	33
67	In vivo phycocyanin flourometry as a potential rapid screening tool for predicting elevated microcystin concentrations at eutrophic lakes. *Environmental Science & Technology*, **2012**, 46, 4523-31	10.3	32
66	Occurrence of human enteric viruses at freshwater beaches during swimming season and its link to water inflow. *Science of the Total Environment*, **2014**, 472, 757-66	10.2	27
65	Ten-year survey of cyanobacterial blooms in Ohio's waterbodies using satellite remote sensing. *Harmful Algae*, **2017**, 66, 13-19	5.3	26
64	Efficiency of peracetic acid in inactivating bacteria, viruses, and spores in water determined with ATP bioluminescence, quantitative PCR, and culture-based methods. *Journal of Water and Health*, **2014**, 12, 13-23	2.2	23

63	Residential urban stormwater runoff: A comprehensive profile of microbiome and antibiotic resistance. *Science of the Total Environment*, **2020**, 723, 138033	10.2	21
62	Towards sustainable protection of public health: The role of an urban wetland as a frontline safeguard of pathogen and antibiotic resistance spread. *Ecological Engineering*, **2017**, 108, 547-555	3.9	20
61	Wastewater SARS-CoV-2 monitoring as a community-level COVID-19 trend tracker and variants in Ohio, United States. *Science of the Total Environment*, **2021**, 801, 149757	10.2	19
60	Methicillin-resistant Staphylococcus aureus in public transportation vehicles (buses): another piece to the epidemiologic puzzle. *American Journal of Infection Control*, **2014**, 42, 1285-90	3.8	18
59	Optimization of extraction methods for quantification of microcystin-LR and microcystin-RR in fish, vegetable, and soil matrices using UPLC-MS/MS. *Harmful Algae*, **2018**, 76, 47-57	5.3	17
58	Impact of phytopathogen infection and extreme weather stress on internalization of Salmonella Typhimurium in lettuce. *International Journal of Food Microbiology*, **2014**, 168-169, 24-31	5.8	15
57	Associations between county-level land cover classes and cyanobacteria blooms in the United States. *Ecological Engineering*, **2017**, 108, 556-563	3.9	15
56	Drinking water treatment residuals from cyanobacteria bloom-affected areas: Investigation of potential impact on agricultural land application. *Science of the Total Environment*, **2020**, 706, 135756	10.2	15
55	Neighborhood diversity of potentially pathogenic bacteria in drinking water from the city of Maroua, Cameroon. *Journal of Water and Health*, **2016**, 14, 559-70	2.2	14
54	Muddying the waters: a new area of concern for drinking water contamination in Cameroon. *International Journal of Environmental Research and Public Health*, **2014**, 11, 12454-72	4.6	14
53	Microcystin in Lake Erie fish: Risk to human health and relationship to cyanobacterial blooms. *Journal of Great Lakes Research*, **2017**, 43, 1084-1090	3	13
52	Satellite Remote Sensing of Drinking Water Intakes in Lake Erie for Cyanobacteria Population Using Two MODIS-Based Indicators as a Potential Tool for Toxin Tracking. *Frontiers in Marine Science*, **2017**, 4,	4.5	13
51	The Influence of Loading Rate and Variable Temperatures on Microbial Communities in Anaerobic Digesters. *Energies*, **2014**, 7, 785-803	3.1	13
50	Tile Drainage and Anthropogenic Land Use Contribute to Harmful Algal Blooms and Microbiota Shifts in Inland Water Bodies. *Environmental Science & Technology*, **2018**, 52, 8215-8223	10.3	13
49	Microbial Community Response to Seasonal Temperature Variation in a Small-Scale Anaerobic Digester. *Energies*, **2013**, 6, 5182-5199	3.1	12
48	High volume hydraulic fracturing operations: potential impacts on surface water and human health. *International Journal of Environmental Health Research*, **2016**, 26, 361-80	3.6	11
47	Water Access, Sanitation, and Hygiene Conditions and Health Outcomes among Two Settlement Types in Rural Far North Cameroon. *International Journal of Environmental Research and Public Health*, **2017**, 14,	4.6	11
46	Integrating bacterial and viral water quality assessment to predict swimming-associated illness at a freshwater beach: a cohort study. *PLoS ONE*, **2014**, 9, e112029	3.7	11

45	Impact of Microcystin-LR on Liver Function Varies by Dose and Sex in Mice. *Toxins*, **2018**, 10,	4.9	11
44	Sustainable Methods for Decontamination of Microcystin in Water Using Cold Plasma and UV with Reusable TiO2 Nanoparticle Coating. *International Journal of Environmental Research and Public Health*, **2017**, 14,	4.6	10
43	Comparison of survivability of Staphylococcus aureus and spores of Aspergillus niger on commonly used floor materials. *American Journal of Infection Control*, **2017**, 45, 717-722	3.8	9
42	Indoor Microbiome and Antibiotic Resistance on Floor Surfaces: An Exploratory Study in Three Different Building Types. *International Journal of Environmental Research and Public Health*, **2019**, 16,	4.6	9
41	Harmful algal blooms and liver diseases: focusing on the areas near the four major rivers in South Korea. *Journal of Environmental Science and Health, Part C: Environmental Carcinogenesis and Ecotoxicology Reviews*, **2019**, 37, 356-370	4.5	9
40	Relationship between cyanobacterial bloom impacted drinking water sources and hepatocellular carcinoma incidence rates. *Harmful Algae*, **2020**, 95, 101801	5.3	8
39	Characterization of Cyanophages in Lake Erie: Interaction Mechanisms and Structural Damage of Toxic Cyanobacteria. *Toxins*, **2019**, 11,	4.9	8
38	A novel genetic marker for the rapid detection of Bacteroides fragilis in recreational water as a human-specific faecal indicator. *Journal of Water and Health*, **2011**, 9, 253-64	2.2	8
37	Human health-related ecosystem services of avian-dense coastal wetlands adjacent to a Western Lake Erie swimming beach. *EcoHealth*, **2015**, 12, 77-87	3.1	7
36	Enhancing plant productivity while suppressing biofilm growth in a windowfarm system using beneficial bacteria and ultraviolet irradiation. *Canadian Journal of Microbiology*, **2015**, 61, 457-66	3.2	7
35	Associations among Human-Associated Fecal Contamination, Microcystis aeruginosa, and Microcystin at Lake Erie Beaches. *International Journal of Environmental Research and Public Health*, **2015**, 12, 11466-85	4.6	7
34	Cyanobacterial blooms modify food web structure and interactions in western Lake Erie. *Harmful Algae*, **2020**, 92, 101586	5.3	7
33	Mycosporine-like amino acids (MAAs)-producing Microcystis in Lake Erie: Development of a qPCR assay and insight into its ecology. *Harmful Algae*, **2018**, 77, 1-10	5.3	6
32	Salmonella internalization in mung bean sprouts and pre- and postharvest intervention methods in a hydroponic system. *Journal of Food Protection*, **2014**, 77, 752-7	2.5	6
31	Characterization of the gut microbiota of Nicaraguan children in a water insecure context. *American Journal of Human Biology*, **2020**, 32, e23371	2.7	6
30	Wastewater-based epidemiology for tracking COVID-19 trend and variants of concern in Ohio, United States		6
29	Prevalence and diversity of Shiga toxin genes in Canada geese and water in western Lake Erie Region. *Journal of Great Lakes Research*, **2016**, 42, 476-481	3	6
28	Microcystis toxin-mediated tumor promotion and toxicity lead to shifts in mouse gut microbiome. *Ecotoxicology and Environmental Safety*, **2020**, 206, 111204	7	5

27	Pulsed electric field application reduces carbapenem- and colistin-resistant microbiota and bla spread in urban wastewater. *Journal of Environmental Management*, **2020**, 265, 110529	7.9	5
26	Spatiotemporal variability and environmental factors of harmful algal blooms (HABs) over western Lake Erie. *PLoS ONE*, **2017**, 12, e0179622	3.7	5
25	Assessment of temperature and ultraviolet radiation effects on sunburn incidence at an inland U.S. Beach: A cohort study. *Environmental Research*, **2018**, 161, 479-484	7.9	5
24	Colonization of toxic cyanobacteria on the surface and inside of leafy green: A hidden source of cyanotoxin production and exposure. *Food Microbiology*, **2021**, 94, 103655	6	5
23	Changes in Microbial Water Quality Associated with an Extreme Recreational Water Event in Ohio, United States. *Water Quality, Exposure, and Health*, **2015**, 7, 491-501		3
22	Real-time determination of the efficacy of residual disinfection to limit wastewater contamination in a water distribution system using filtration-based luminescence. *Water Environment Research*, **2010**, 82, 475-8	2.8	3
21	Detection of SARS-CoV-2 in urban stormwater: An environmental reservoir and potential interface between human and animal sources. *Science of the Total Environment*, **2021**, 151046	10.2	3
20	Longitudinal health outcomes for enteric pathogens in preweaned calves on Ohio dairy farms. *Preventive Veterinary Medicine*, **2021**, 190, 105323	3.1	3
19	Removal of the algal toxin microcystin-LR in permeable coastal sediments: Physical and numerical models. *Limnology and Oceanography*, **2018**, 63, 1593-1604	4.8	2
18	Application of host-specific source-tracking tools for rapid identification of fecal contamination in fresh produce by humans and livestock. *Journal of the Science of Food and Agriculture*, **2013**, 93, 1089-96	4.3	2
17	Rapid detection of bacteria in drinking water and water contamination case studies. *Frontiers of Earth Science*, **2011**, 5, 378-389	1.7	2
16	Acute cyanotoxin poisoning reveals a marginal effect on mouse gut microbiome composition but indicates metabolic shifts related to liver and gut inflammation. *Ecotoxicology and Environmental Safety*, **2021**, 215, 112126	7	2
15	Earth observation for public health: Biodiversity change and emerging disease surveillance. *Acta Astronautica*, **2019**, 160, 433-441	2.9	2
14	Modeling household transmission dynamics: Application to waterborne diarrheal disease in Central Africa. *PLoS ONE*, **2018**, 13, e0206418	3.7	2
13	Fecal indicator bacteria along multiple environmental exposure pathways (water, food, and soil) and intestinal parasites among children in the rural northwest Ethiopia.. *BMC Gastroenterology*, **2022**, 22, 84	3	2
12	Simple and practical on-site treatment of high microcystin levels in water using polypropylene plastic. *Journal of Environmental Science and Health - Part A Toxic/Hazardous Substances and Environmental Engineering*, **2018**, 53, 1000-1005	2.3	1
11	A Novel Proof-of-Concept Sandwich Immunoassay for Screening Microcystin in Cyanobacteria Based on Michael Addition Reaction. *Analytical Sciences*, **2019**, 35, 107-111	1.7	1
10	Bacterial Movement in Subsurface Soil during Winter Irrigation of Reclaimed Wastewater. *Sustainability*, **2021**, 13, 9594	3.6	1

9	Effects of local handwashing agents on microbial contamination of hands in the rural settings of northwest Ethiopia: protocol for a two-arm, clustered-randomised controlled trial. *BMJ Open*, **2021**, 11, e046828	3	1
8	Effects of local handwashing agents on microbial contamination of the hands in a rural setting in Northwest Ethiopia: a cluster randomised controlled trial.. *BMJ Open*, **2022**, 12, e056411	3	1
7	Correlation Between Levels of Humic Acid and Fecal Indicator Bacteria: A Potential Predictor of Biosolids Stabilization. *Environmental Engineering Science*, **2018**, 35, 663-672	2	0
6	Fecal biomarkers of environmental enteric dysfunction and associated factors among children aged 24-59 months in east Dembiya district, northwest Ethiopia.. *BMC Gastroenterology*, **2022**, 22, 172	3	0
5	Wastewater surveillance of SARS-CoV-2 in dormitories as a part of comprehensive university campus COVID-19 monitoring. *Environmental Research*, **2022**, 113580	7.9	0
4	Potential environmental and health risk when returning to normal amidst COVID-19 vaccination.. *Current Opinion in Environmental Science and Health*, **2022**, 26, 100328	8.1	
3	Enteric Pathogens and Carbapenem Resistance Genes are Widespread in the Fecal Contaminated Soils of Cattle Farms in the United States. *Environmental Advances*, **2021**, 100137	3.5	
2	Rapid detection of enterococci in marine beach water by immunomagnetic capture and bioluminescence and its comparison with conventional methods. *Journal of Environmental Health*, **2010**, 72, 8-13; quiz 39	0.4	
1	Development and validation of questionnaire to assess exposure of children to enteric infections in the rural northwest Ethiopia.. *Scientific Reports*, **2022**, 12, 6740	4.9	