

Mark Hanson

List of Publications by Year in descending order

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112
papers

3,628
citations

147566

31
h-index

161609

54
g-index

114
all docs

114
docs citations

114
times ranked

3900
citing authors

#	ARTICLE	IF	CITATIONS
1	Microplastic contamination in Lake Winnipeg, Canada. <i>Environmental Pollution</i> , 2017, 225, 223-231.	3.7	306
2	Microcosm evaluation of the effects of an eight pharmaceutical mixture to the aquatic macrophytes <i>Lemna gibba</i> and <i>Myriophyllum sibiricum</i> . <i>Aquatic Toxicology</i> , 2004, 70, 23-40.	1.9	146
3	Development and Calibration of an Organic-Diffusive Gradients in Thin Films Aquatic Passive Sampler for a Diverse Suite of Polar Organic Contaminants. <i>Analytical Chemistry</i> , 2016, 88, 10583-10591.	3.2	139
4	An analysis of influencing factors on municipal solid waste source-separated collection behavior in Guilin, China by Using the Theory of Planned Behavior. <i>Sustainable Cities and Society</i> , 2018, 37, 336-343.	5.1	117
5	Aquatic Plants Exposed to Pharmaceuticals: Effects and Risks. <i>Reviews of Environmental Contamination and Toxicology</i> , 2008, 192, 67-115.	0.7	116
6	A critical assessment of the photodegradation of pharmaceuticals in aquatic environments: defining our current understanding and identifying knowledge gaps. <i>Environmental Sciences: Processes and Impacts</i> , 2014, 16, 672.	1.7	112
7	Indirect Evidence of Transposon-Mediated Selection of Antibiotic Resistance Genes in Aquatic Systems at Low-Level Oxytetracycline Exposures. <i>Environmental Science & Technology</i> , 2008, 42, 5348-5353.	4.6	111
8	Effects of Atrazine in Fish, Amphibians, and Reptiles: An Analysis Based on Quantitative Weight of Evidence. <i>Critical Reviews in Toxicology</i> , 2014, 44, 1-66.	1.9	100
9	The fate and persistence of trifluoroacetic and chloroacetic acids in pond waters. <i>Chemosphere</i> , 2001, 42, 309-318.	4.2	92
10	Influence of isolation on the recovery of pond mesocosms from the application of an insecticide. II. Benthic macroinvertebrate responses. <i>Environmental Toxicology and Chemistry</i> , 2007, 26, 1280-1290.	2.2	76
11	Presence and hazards of nutrients and emerging organic micropollutants from sewage lagoon discharges into Dead Horse Creek, Manitoba, Canada. <i>Science of the Total Environment</i> , 2013, 445-446, 64-78.	3.9	70
12	New Technique for Estimating Thresholds of Toxicity in Ecological Risk Assessment. <i>Environmental Science & Technology</i> , 2002, 36, 3257-3264.	4.6	67
13	Performance of a constructed wetland in Grand Marais, Manitoba, Canada: Removal of nutrients, pharmaceuticals, and antibiotic resistance genes from municipal wastewater. <i>Chemistry Central Journal</i> , 2013, 7, 54.	2.6	67
14	Comprehensive characterization of the acute and chronic toxicity of the neonicotinoid insecticide thiamethoxam to a suite of aquatic primary producers, invertebrates, and fish. <i>Environmental Toxicology and Chemistry</i> , 2017, 36, 2838-2848.	2.2	67
15	Macrophytes may not contribute significantly to removal of nutrients, pharmaceuticals, and antibiotic resistance in model surface constructed wetlands. <i>Science of the Total Environment</i> , 2014, 482-483, 294-304.	3.9	66
16	Field Evaluation and in Situ Stress Testing of the Organic-Diffusive Gradients in Thin-Films Passive Sampler. <i>Environmental Science & Technology</i> , 2018, 52, 12573-12582.	4.6	64
17	How we can make ecotoxicology more valuable to environmental protection. <i>Science of the Total Environment</i> , 2017, 578, 228-235.	3.9	60
18	Effects of a mixture of tetracyclines to <i>Lemna gibba</i> and <i>Myriophyllum sibiricum</i> evaluated in aquatic microcosms. <i>Environmental Pollution</i> , 2005, 138, 425-442.	3.7	56

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19	Aquatic photochemistry of the sulfonamide antibiotic sulfapyridine. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2013, 262, 14-21.	2.0	52
20	Influence of isolation on the recovery of pond mesocosms from the application of an insecticide. I. Study design and planktonic community responses. <i>Environmental Toxicology and Chemistry</i> , 2007, 26, 1265-1279.	2.2	49
21	Wastewater sources of per- and polyfluorinated alkyl substances (PFAS) and pharmaceuticals in four Canadian Arctic communities. <i>Science of the Total Environment</i> , 2020, 708, 134494.	3.9	49
22	Stability of pharmaceuticals and other polar organic compounds stored on polar organic chemical integrative samplers and solid-phase extraction cartridges. <i>Environmental Toxicology and Chemistry</i> , 2013, 32, 337-344.	2.2	46
23	Haloacetic acids in the aquatic environment. Part I: macrophyte toxicity. <i>Environmental Pollution</i> , 2004, 130, 371-383.	3.7	45
24	A review of the effectiveness of vegetated buffers to mitigate pesticide and nutrient transport into surface waters from agricultural areas. <i>Journal of Environmental Management</i> , 2020, 261, 110210.	3.8	45
25	Detection of Chlorodifluoroacetic Acid in Precipitation: A Possible Product of Fluorocarbon Degradation. <i>Environmental Science & Technology</i> , 2000, 34, 274-281.	4.6	44
26	Haloacetic acids in the aquatic environment. Part II: ecological risk assessment. <i>Environmental Pollution</i> , 2004, 130, 385-401.	3.7	43
27	Synergy in microcosms with environmentally realistic concentrations of prochloraz and esfenvalerate. <i>Aquatic Toxicology</i> , 2011, 101, 412-422.	1.9	43
28	Synergy between prochloraz and esfenvalerate in <i>Daphnia magna</i> from acute and subchronic exposures in the laboratory and microcosms. <i>Aquatic Toxicology</i> , 2012, 110-111, 17-24.	1.9	43
29	Indirect effects of herbicides on biota in terrestrial edge-of-field habitats: A critical review of the literature. <i>Agriculture, Ecosystems and Environment</i> , 2016, 232, 59-72.	2.5	43
30	Variation, replication, and power analysis of <i>Myriophyllum</i> spp. microcosm toxicity data. <i>Environmental Toxicology and Chemistry</i> , 2003, 22, 1318-1329.	2.2	36
31	Inputs, source apportionment, and transboundary transport of pesticides and other polar organic contaminants along the lower Red River, Manitoba, Canada. <i>Science of the Total Environment</i> , 2018, 635, 803-816.	3.9	36
32	The role of vegetated buffers in agriculture and their regulation across Canada and the United States. <i>Journal of Environmental Management</i> , 2019, 243, 12-21.	3.8	33
33	Monensin Is Not Toxic to Aquatic Macrophytes at Environmentally Relevant Concentrations. <i>Archives of Environmental Contamination and Toxicology</i> , 2007, 53, 541-551.	2.1	32
34	ENVIRONMENTAL FATE OF THREE NOVEL BROMINATED FLAME RETARDANTS IN AQUATIC MESOCOSMS. <i>Environmental Toxicology and Chemistry</i> , 2013, 32, 1060-1068.	2.2	31
35	Aquatic microcosm assessment of the effects of tylosin on <i>Lemna gibba</i> and <i>Myriophyllum spicatum</i> . <i>Environmental Pollution</i> , 2005, 133, 389-401.	3.7	29
36	The release of wastewater contaminants in the Arctic: A case study from Cambridge Bay, Nunavut, Canada. <i>Environmental Pollution</i> , 2016, 218, 542-550.	3.7	29

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37	Influence of light, nutrients, and temperature on the toxicity of atrazine to the algal species <i>Raphidocelis subcapitata</i> : Implications for the risk assessment of herbicides. <i>Ecotoxicology and Environmental Safety</i> , 2016, 132, 250-259.	2.9	28
38	Simulating a Spill of Diluted Bitumen: Environmental Weathering and Submergence in a Model Freshwater System. <i>Environmental Toxicology and Chemistry</i> , 2019, 38, 2621-2628.	2.2	28
39	Atrazine does not affect algal biomass or snail populations in microcosm communities at environmentally relevant concentrations. <i>Environmental Toxicology and Chemistry</i> , 2011, 30, 1689-1696.	2.2	27
40	Pharmaceuticals and pesticides archived on polar passive sampling devices can be stable for up to 6 years. <i>Environmental Toxicology and Chemistry</i> , 2018, 37, 762-767.	2.2	27
41	Evaluation of monochloroacetic acid (MCA) degradation and toxicity to <i>Lemna gibba</i> , <i>Myriophyllum spicatum</i> , and <i>Myriophyllum sibiricum</i> in aquatic microcosms. <i>Aquatic Toxicology</i> , 2002, 61, 251-273.	1.9	26
42	Trichloroacetic acid (TCA) and trifluoroacetic acid (TFA) mixture toxicity to the macrophytes <i>Myriophyllum spicatum</i> and <i>Myriophyllum sibiricum</i> in aquatic microcosms. <i>Science of the Total Environment</i> , 2002, 285, 247-259.	3.9	26
43	Microcosm Evaluation of the Toxicity and Risk to Aquatic Macrophytes from Perfluorooctane Sulfonic Acid. <i>Archives of Environmental Contamination and Toxicology</i> , 2005, 48, 329-337.	2.1	26
44	Selenium concentration, speciation and behavior in surface waters of the Canadian prairies. <i>Science of the Total Environment</i> , 2009, 407, 5869-5876.	3.9	26
45	Effects of planting system design on the toxicological sensitivity of <i>Myriophyllum spicatum</i> and <i>Elodea canadensis</i> to atrazine. <i>Chemosphere</i> , 2008, 73, 249-260.	4.2	25
46	Reducing nutrients, organic micropollutants, antibiotic resistance, and toxicity in rural wastewater effluent with subsurface filtration treatment technology. <i>Ecological Engineering</i> , 2015, 84, 375-385.	1.6	24
47	Improving environmental risk assessments of chemicals: Steps towards evidence-based ecotoxicology. <i>Environment International</i> , 2019, 128, 210-217.	4.8	24
48	Effects of atrazine on fish, amphibians, and reptiles: update of the analysis based on quantitative weight of evidence. <i>Critical Reviews in Toxicology</i> , 2019, 49, 670-709.	1.9	24
49	Chlorodifluoroacetic acid fate and toxicity to the macrophytes <i>Lemna gibba</i> , <i>Myriophyllum spicatum</i> , and <i>Myriophyllum sibiricum</i> in aquatic microcosms. <i>Environmental Toxicology and Chemistry</i> , 2001, 20, 2758-2767.	2.2	23
50	Microcosm Evaluation of the Fate, Toxicity, and Risk to Aquatic Macrophytes from Perfluorooctanoic Acid (PFOA). <i>Archives of Environmental Contamination and Toxicology</i> , 2005, 49, 307-316.	2.1	23
51	Fathead minnow (<i>Pimephales promelas</i> Rafinesque) exposure to three novel brominated flame retardants in outdoor mesocosms: bioaccumulation and biotransformation. <i>Environmental Toxicology and Chemistry</i> , 2014, 33, 1148-1155.	2.2	23
52	Response of water column microbial communities to sudden exposure to deltamethrin in aquatic mesocosms. <i>FEMS Microbiology Ecology</i> , 2005, 54, 157-165.	1.3	21
53	Field assessment of oxytetracycline exposure to the freshwater macrophytes <i>Egeria densa</i> Planch. and <i>Ceratophyllum demersum</i> L. <i>Environmental Pollution</i> , 2006, 141, 434-442.	3.7	21
54	AMEG: the new SETAC advisory group on aquatic macrophyte ecotoxicology. <i>Environmental Science and Pollution Research</i> , 2010, 17, 820-823.	2.7	20

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55	Field level evaluation and risk assessment of the toxicity of dichloroacetic acid to the aquatic macrophytes <i>Lemna gibba</i> , <i>Myriophyllum spicatum</i> , and <i>Myriophyllum sibiricum</i> . <i>Ecotoxicology and Environmental Safety</i> , 2003, 55, 46-63.	2.9	19
56	Chitobiase activity as an indicator of aquatic ecosystem health. <i>Aquatic Ecosystem Health and Management</i> , 2005, 8, 441-450.	0.3	19
57	Assessing sensitivity and recovery of field-collected periphyton acutely exposed to atrazine using PSII inhibition under laboratory conditions. <i>Ecotoxicology</i> , 2013, 22, 1367-1383.	1.1	19
58	Aquatic hazard assessment of MON 0818, a commercial mixture of alkylamine ethoxylates commonly used in glyphosate-containing herbicide formulations. Part 1: Species sensitivity distribution from laboratory acute exposures. <i>Environmental Toxicology and Chemistry</i> , 2017, 36, 501-511.	2.2	19
59	Zooplankton Chitobiase Activity as an Endpoint of Pharmaceutical Effect. <i>Archives of Environmental Contamination and Toxicology</i> , 2008, 54, 637-644.	2.1	18
60	Life under an oil slick: response of a freshwater food web to simulated spills of diluted bitumen in field mesocosms. <i>Canadian Journal of Fisheries and Aquatic Sciences</i> , 2020, 77, 779-788.	0.7	18
61	Assessment of risks to listed species from the use of atrazine in the USA: a perspective. <i>Journal of Toxicology and Environmental Health - Part B: Critical Reviews</i> , 2021, 24, 223-306.	2.9	18
62	Simulating diluted bitumen spills in boreal lake limnocorrals - part 2: Factors affecting the physical characteristics and submergence of diluted bitumen. <i>Science of the Total Environment</i> , 2021, 790, 148580.	3.9	18
63	Sensitivity of a green alga to atrazine is not enhanced by previous acute exposure. <i>Environmental Pollution</i> , 2013, 181, 325-328.	3.7	17
64	Does GLP enhance the quality of toxicological evidence for regulatory decisions?: TABLE 1.. <i>Toxicological Sciences</i> , 2016, 151, 206-213.	1.4	17
65	Response of the mayfly (<i>Cloeon dipterum</i>) to chronic exposure to thiamethoxam in outdoor mesocosms. <i>Environmental Toxicology and Chemistry</i> , 2018, 37, 1040-1050.	2.2	17
66	Interactions between atrazine and phosphorus in aquatic systems: Effects on phytoplankton and periphyton. <i>Chemosphere</i> , 2013, 90, 1069-1076.	4.2	16
67	Dissipation of a commercial mixture of polyoxyethylene amine surfactants in aquatic outdoor microcosms: Effect of water depth and sediment organic carbon. <i>Science of the Total Environment</i> , 2016, 550, 449-458.	3.9	16
68	Public participation in municipal solid waste source-separated collection in Guilin, China: status and influencing factors. <i>Journal of Environmental Planning and Management</i> , 2017, 60, 2174-2191.	2.4	16
69	Evidence of citation bias in the pesticide ecotoxicology literature. <i>Ecotoxicology</i> , 2018, 27, 1039-1045.	1.1	16
70	Simulating diluted bitumen spills in boreal lake limnocorrals - Part 1: Experimental design and responses of hydrocarbons, metals, and water quality parameters. <i>Science of the Total Environment</i> , 2021, 790, 148537.	3.9	16
71	The influence of the Mackenzie River plume on distribution and diversity of marine larval fish assemblages on the Canadian Beaufort Shelf. <i>Journal of Marine Systems</i> , 2013, 127, 36-45.	0.9	15
72	Assessing temporal and spatial variation in sensitivity of communities of periphyton sampled from agroecosystem to, and ability to recover from, atrazine exposure. <i>Ecotoxicology and Environmental Safety</i> , 2015, 118, 204-216.	2.9	15

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73	Chronic toxicity of technical atrazine to the fathead minnow (<i>Pimephales promelas</i>) during a full life-cycle exposure and an evaluation of the consistency of responses. <i>Science of the Total Environment</i> , 2021, 755, 142589.	3.9	15
74	On the impact of wastewater effluent on phytoplankton in the Arctic coastal zone: A case study in the Kitikmeot Sea of the Canadian Arctic. <i>Science of the Total Environment</i> , 2021, 764, 143861.	3.9	15
75	Trichloroacetic acid fate and toxicity to the macrophytes <i>Myriophyllum spicatum</i> and <i>Myriophyllum sibiricum</i> under field conditions. <i>Aquatic Toxicology</i> , 2002, 56, 241-255.	1.9	14
76	Selective serotonin reuptake inhibitors and β -blocker transformation products may not pose a significant risk of toxicity to aquatic organisms in wastewater effluent-dominated receiving waters. <i>Integrated Environmental Assessment and Management</i> , 2015, 11, 618-639.	1.6	14
77	Effects of atrazine on egg masses of the yellow-spotted salamander (<i>Ambystoma maculatum</i>) and its endosymbiotic alga (<i>Oophila amblystomatis</i>). <i>Environmental Pollution</i> , 2015, 206, 324-331.	3.7	13
78	Attenuation of pharmaceuticals, nutrients and toxicity in a rural sewage lagoon system integrated with a subsurface filtration technology. <i>Chemosphere</i> , 2018, 209, 767-775.	4.2	13
79	Aquatic hazard assessment of MON 0818, a commercial mixture of alkylamine ethoxylates commonly used in glyphosate-containing herbicide formulations. Part 2: Roles of sediment, temperature, and capacity for recovery following a pulsed exposure. <i>Environmental Toxicology and Chemistry</i> , 2017, 36, 512-521.	2.2	12
80	Growth Recovery of <i>Lemna gibba</i> and <i>Lemna minor</i> Following a 7-Day Exposure to the Herbicide Diuron. <i>Bulletin of Environmental Contamination and Toxicology</i> , 2015, 95, 150-156.	1.3	11
81	An evaluation of the social dimensions in public participation in rural domestic waste source-separated collection in Guilin, China. <i>Environmental Monitoring and Assessment</i> , 2018, 190, 35.	1.3	11
82	Fate of thiamethoxam in mesocosms and response of the zooplankton community. <i>Science of the Total Environment</i> , 2018, 637-638, 1150-1157.	3.9	11
83	A freshwater mesocosm study into the effects of the neonicotinoid insecticide thiamethoxam at multiple trophic levels. <i>Environmental Pollution</i> , 2018, 242, 1444-1457.	3.7	11
84	Strength of methods assessment for aquatic primary producer toxicity data: A critical review of atrazine studies from the peer-reviewed literature. <i>Science of the Total Environment</i> , 2019, 685, 1221-1239.	3.9	11
85	Surface-Dwelling Aquatic Insects in Low-Energy Freshwater Environments Are Highly Impacted by Oil Spills and the Surface Washing Agent Corexit EC9580A Used in Oil Spill Response. <i>Environmental Toxicology and Chemistry</i> , 2021, 40, 1298-1307.	2.2	11
86	Duckweed Toxicity Tests ARE Appropriate For ERA. <i>Integrated Environmental Assessment and Management</i> , 2009, 5, 350.	1.6	10
87	Response of the green alga <i>Oophila</i> sp., a salamander endosymbiont, to a PSII-inhibitor under laboratory conditions. <i>Environmental Toxicology and Chemistry</i> , 2014, 33, 1858-1864.	2.2	10
88	Phylogeny of the egg-loving green alga <i>Oophila amblystomatis</i> (Chlamydomonadales) and its response to the herbicides atrazine and 2,4-D. <i>Symbiosis</i> , 2019, 77, 23-39.	1.2	10
89	Acute and early life-stage toxicity of atrazine in sheepshead minnow (<i>Cyprinodon variegatus</i>). <i>Ecotoxicology and Environmental Safety</i> , 2021, 218, 112303.	2.9	10
90	Improving regulatory risk assessment using aquatic macrophytes. <i>Integrated Environmental Assessment and Management</i> , 2007, 3, 466-467.	1.6	9

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91	Aquatic toxicology studies with macrophytes and algae should balance experimental pragmatism with environmental realism. <i>Science of the Total Environment</i> , 2015, 536, 406-407.	3.9	9
92	Extended fish short term reproduction assays with the fathead minnow and Japanese medaka: No evidence of impaired fecundity from exposure to atrazine. <i>Chemosphere</i> , 2018, 205, 126-136.	4.2	9
93	Toxicity of Atrazine to Marine Invertebrates Under Flow-Through Conditionsâ€”Eastern Oyster (<i>Crassostrea virginica</i>) and Mysid Shrimp (<i>Americamysis bahia</i>). <i>Water, Air, and Soil Pollution</i> , 2021, 232, 1.	1.1	9
94	Yield to the data: some perspective on crop productivity and pesticides. <i>Pest Management Science</i> , 2022, 78, 1765-1771.	1.7	9
95	Optimization of culturing conditions for toxicity testing with the alga <i>Oophila</i> sp. (Chlorophyceae), an amphibian endosymbiont. <i>Environmental Toxicology and Chemistry</i> , 2014, 33, 2566-2575.	2.2	8
96	CHLORODIFLUOROACETIC ACID FATE AND TOXICITY TO THE MACROPHYTES LEMNA GIBBA, MYRIOPHYLLUM SPICATUM, AND MYRIOPHYLLUM SIBIRICUM IN AQUATIC MICROCOSMS. <i>Environmental Toxicology and Chemistry</i> , 2001, 20, 2758.	2.2	8
97	VARIATION, REPLICATION, AND POWER ANALYSIS OF MYRIOPHYLLUM SPP. MICROCOSM TOXICITY DATA. <i>Environmental Toxicology and Chemistry</i> , 2003, 22, 1318.	2.2	8
98	Surface oil is the primary driver of macroinvertebrate impacts following spills of diluted bitumen in freshwater. <i>Environmental Pollution</i> , 2021, 290, 117929.	3.7	7
99	Is ambient chitobiase activity a monitoring tool for impacts on secondary production in lotic systems?. <i>Canadian Journal of Fisheries and Aquatic Sciences</i> , 2009, 66, 1274-1281.	0.7	6
100	Context and Perspective in Ecotoxicology. <i>Environmental Toxicology and Chemistry</i> , 2020, 39, 1655-1655.	2.2	5
101	The Press Sells Newspapers, We Should Not Sell Ecotoxicology. <i>Environmental Toxicology and Chemistry</i> , 2021, 40, 1239-1240.	2.2	5
102	Crushed recycled glass as a substrate for constructed wetland wastewater treatment: a case study of its potential to facilitate pharmaceutical removal. <i>Environmental Science and Pollution Research</i> , 2021, 28, 52306-52318.	2.7	4
103	Taxonomic Chauvinism in Pesticide Ecotoxicology. <i>Environmental Toxicology and Chemistry</i> , 2021, 40, 3223-3225.	2.2	4
104	Late season pharmaceutical fate in wetland mesocosms with and without phosphorous addition. <i>Environmental Science and Pollution Research</i> , 2016, 23, 22678-22690.	2.7	3
105	A Critical Review of the Availability, Reliability, and Ecological Relevance of Arctic Species Toxicity Tests for Use in Environmental Risk Assessment. <i>Environmental Toxicology and Chemistry</i> , 2021, , .	2.2	3
106	Resilience of larval wood frogs (<i>Rana sylvatica</i>) to hydrocarbons and other compounds released from naturally weathered diluted bitumen in a boreal lake. <i>Aquatic Toxicology</i> , 2022, 245, 106128.	1.9	3
107	Using zooplankton metabarcoding to assess the efficacy of different techniques to clean-up an oil-spill in a boreal lake. <i>Aquatic Toxicology</i> , 2021, 236, 105847.	1.9	2
108	A Method to Screen for Consistency of Effect in Laboratory Toxicity Tests: A Case Study with Anurans and the Herbicide Atrazine. <i>Archives of Environmental Contamination and Toxicology</i> , 2021, 81, 123-132.	2.1	1

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109	Fate of thiamethoxam from treated seeds in mesocosms and response of aquatic invertebrate communities. <i>Ecotoxicology</i> , 2022, 31, 341-356.	1.1	1
110	As We Were Saying. <i>Toxicological Sciences</i> , 2016, 154, kfw201.	1.4	0
111	Effect of spilled diluted bitumen on chemical air-water exchange in boreal lake limnocorrals. <i>Chemosphere</i> , 2021, , 132708.	4.2	0
112	Performance of a Constructed Wetland in Grand Marais, Manitoba, Canada: Removal of Nutrients, Pharmaceuticals, and Antibiotic Resistance Genes from Municipal Wastewater. , 2015, , 235-269.		0