

# Charles S Wong

## List of Publications by Year in descending order

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112  
papers

5,667  
citations

57758

44  
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82547

72  
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117  
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117  
docs citations

117  
times ranked

5578  
citing authors

#	ARTICLE	IF	CITATIONS
1	Interaction of toxic chemicals with microplastics: A critical review. <i>Water Research</i> , 2018, 139, 208-219.	11.3	612
2	A review of methods for measuring microplastics in aquatic environments. <i>Environmental Science and Pollution Research</i> , 2018, 25, 11319-11332.	5.3	231
3	Laboratory calibration and field deployment of the Polar organic chemical integrative sampler for pharmaceuticals and personal care products in wastewater and surface water. <i>Environmental Toxicology and Chemistry</i> , 2007, 26, 2517-2529.	4.3	184
4	Environmental fate processes and biochemical transformations of chiral emerging organic pollutants. <i>Analytical and Bioanalytical Chemistry</i> , 2006, 386, 544-558.	3.7	181
5	Stereoisomer quantification of the $\beta$ -blocker drugs atenolol, metoprolol, and propranolol in wastewaters by chiral high-performance liquid chromatography-tandem mass spectrometry. <i>Journal of Chromatography A</i> , 2006, 1131, 103-109.	3.7	150
6	Stereoisomer analysis of wastewater-derived $\beta$ -blockers, selective serotonin re-uptake inhibitors, and salbutamol by high-performance liquid chromatography-tandem mass spectrometry. <i>Journal of Chromatography A</i> , 2007, 1170, 23-33.	3.7	145
7	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.	6.5	139
8	Sediment Records of Polycyclic Aromatic Hydrocarbons (PAHs) in the Continental Shelf of China: Implications for Evolving Anthropogenic Impacts. <i>Environmental Science &amp; Technology</i> , 2012, 46, 6497-6504.	10.0	136
9	Biotransformation of polychlorinated biphenyls (PCBs) and bioformation of hydroxylated PCBs in fish. <i>Aquatic Toxicology</i> , 2006, 78, 176-185.	4.0	134
10	Accumulation, Inventory, and Diagenesis of Chlorinated Hydrocarbons in Lake Ontario Sediments. <i>Environmental Science &amp; Technology</i> , 1995, 29, 2661-2672.	10.0	123
11	Chiral Polychlorinated Biphenyl Transport, Metabolism, and Distribution: A Review. <i>Environmental Science &amp; Technology</i> , 2010, 44, 2757-2766.	10.0	120
12	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.	3.5	112
13	Rainbow Trout ( <i>Oncorhynchus mykiss</i> ) Can Eliminate Chiral Organochlorine Compounds Enantioselectively. <i>Environmental Science &amp; Technology</i> , 2002, 36, 1257-1262.	10.0	96
14	Perfluorooctane sulfonate toxicity, isomer-specific accumulation, and maternal transfer in zebrafish ( <i>Danio rerio</i> ) and rainbow trout ( <i>Oncorhynchus mykiss</i> ). <i>Environmental Toxicology and Chemistry</i> , 2010, 29, 1957-1966.	4.3	96
15	Loadings, trends, comparisons, and fate of achiral and chiral pharmaceuticals in wastewaters from urban tertiary and rural aerated lagoon treatments. <i>Water Research</i> , 2010, 44, 533-544.	11.3	93
16	National-Scale, Field-Based Evaluation of the Biota-Sediment Accumulation Factor Model. <i>Environmental Science &amp; Technology</i> , 2001, 35, 1709-1715.	10.0	92
17	Organochlorine Compounds in Lake Superior: Chiral Polychlorinated Biphenyls and Biotransformation in the Aquatic Food Web. <i>Environmental Science &amp; Technology</i> , 2004, 38, 84-92.	10.0	90
18	Chiral Polychlorinated Biphenyls Are Biotransformed Enantioselectively by Mammalian Cytochrome P-450 Isozymes to Form Hydroxylated Metabolites. <i>Environmental Science &amp; Technology</i> , 2009, 43, 114-121.	10.0	83

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19	Quantum Yields for Direct Photolysis of Neonicotinoid Insecticides in Water: Implications for Exposure to Nontarget Aquatic Organisms. <i>Environmental Science and Technology Letters</i> , 2015, 2, 188-192.	8.7	83
20	Solid phase microextraction of macrolide, trimethoprim, and sulfonamide antibiotics in wastewaters. <i>Journal of Chromatography A</i> , 2007, 1169, 53-62.	3.7	76
21	Stereoselective Formation of Mono- and Dihydroxylated Polychlorinated Biphenyls by Rat Cytochrome P450 2B1. <i>Environmental Science &amp; Technology</i> , 2013, 47, 12184-12192.	10.0	76
22	Enantiomeric Composition of Chiral Polychlorinated Biphenyl Atropisomers in Aquatic Bed Sediment. <i>Environmental Science &amp; Technology</i> , 2001, 35, 33-39.	10.0	72
23	Enantiomer separation of polychlorinated biphenyl atropisomers and polychlorinated biphenyl retention behavior on modified cyclodextrin capillary gas chromatography columns. <i>Journal of Chromatography A</i> , 2000, 866, 213-220.	3.7	71
24	Enantiomeric Composition of Chiral Polychlorinated Biphenyl Atropisomers in Aquatic and Riparian Biota. <i>Environmental Science &amp; Technology</i> , 2001, 35, 2448-2454.	10.0	71
25	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.	8.0	70
26	Removal of antibiotic sulfamethoxazole by anoxic/anaerobic/oxic granular and suspended activated sludge processes. <i>Bioresource Technology</i> , 2018, 251, 151-157.	9.6	68
27	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
28	Variation in bacterial community structure of aerobic granular and suspended activated sludge in the presence of the antibiotic sulfamethoxazole. <i>Bioresource Technology</i> , 2018, 261, 322-328.	9.6	67
29	Distribution and fate of pharmaceuticals and their metabolite conjugates in a municipal wastewater treatment plant. <i>Water Research</i> , 2018, 144, 774-783.	11.3	67
30	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.	8.0	66
31	Field Evaluation and in Situ Stress Testing of the Organic-Diffusive Gradients in Thin-Films Passive Sampler. <i>Environmental Science &amp; Technology</i> , 2018, 52, 12573-12582.	10.0	64
32	Aquatic Global Passive Sampling (AQUA-GAPS) Revisited: First Steps toward a Network of Networks for Monitoring Organic Contaminants in the Aquatic Environment. <i>Environmental Science &amp; Technology</i> , 2017, 51, 1060-1067.	10.0	61
33	Isomer-Specific Biotransformation of Perfluorooctane Sulfonamide in Sprague-Dawley Rats. <i>Environmental Science &amp; Technology</i> , 2012, 46, 3196-3203.	10.0	60
34	Enantiomer fractions of chiral organochlorine pesticides and polychlorinated biphenyls in standard and certified reference materials. <i>Chemosphere</i> , 2002, 49, 1339-1347.	8.2	58
35	Size-Dependent Dry Deposition of Airborne Polybrominated Diphenyl Ethers in Urban Guangzhou, China. <i>Environmental Science &amp; Technology</i> , 2012, 46, 7207-7214.	10.0	54
36	Enantiospecific Perfluorooctane Sulfonate (PFOS) Analysis Reveals Evidence for the Source Contribution of PFOS-Precursors to the Lake Ontario Foodweb. <i>Environmental Science &amp; Technology</i> , 2012, 46, 7653-7660.	10.0	53

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37	Aquatic photochemistry of the sulfonamide antibiotic sulfapyridine. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2013, 262, 14-21.	3.9	52
38	Calculated respiratory exposure to indoor size-fractioned polycyclic aromatic hydrocarbons in an urban environment. <i>Science of the Total Environment</i> , 2012, 431, 245-251.	8.0	50
39	Chronic exposure to perfluorinated compounds: Impact on airway hyperresponsiveness and inflammation. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 2014, 307, L765-L774.	2.9	50
40	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.	8.0	49
41	Enantiomer-Specific Accumulation of PCB Atropisomers in the Bowhead Whale ( <i>Balaena mysticetus</i> ). <i>Environmental Science &amp; Technology</i> , 2002, 36, 1419-1425.	10.0	48
42	ENANTIOMERIC FRACTIONS OF CHIRAL POLYCHLORINATED BIPHENYLS PROVIDE INSIGHTS ON BIOTRANSFORMATION CAPACITY OF ARCTIC BIOTA. <i>Environmental Toxicology and Chemistry</i> , 2005, 24, 2763.	4.3	48
43	Aggregation of fine particles at the sediment-water interface. <i>Journal of Geophysical Research</i> , 1992, 97, 17889-17898.	3.3	46
44	Chiral Source Apportionment of Polychlorinated Biphenyls to the Hudson River Estuary Atmosphere and Food Web. <i>Environmental Science &amp; Technology</i> , 2007, 41, 6163-6169.	10.0	46
45	Factors Affecting Phase I Stereoselective Biotransformation of Chiral Polychlorinated Biphenyls by Rat Cytochrome P-450 2B1 Isozyme. <i>Environmental Science &amp; Technology</i> , 2011, 45, 8298-8305.	10.0	46
46	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.	4.3	46
47	Changes in Enantiomeric Fractions during Microbial Reductive Dechlorination of PCB132, PCB149, and Aroclor 1254 in Lake Hartwell Sediment Microcosms. <i>Environmental Science &amp; Technology</i> , 2003, 37, 1100-1107.	10.0	44
48	Chiral Organochlorine Contaminants in Blood and Eggs of Glaucous Gulls ( <i>Larus</i> ) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 307 Td (hyper 7181-7186.	10.0	43
49	Comparison of peak integration methods for the determination of enantiomeric fraction in environmental samples. <i>Chemosphere</i> , 2009, 75, 1042-1048.	8.2	41
50	JEM Spotlight: Recent advances in analysis of pharmaceuticals in the aquatic environment. <i>Journal of Environmental Monitoring</i> , 2009, 11, 923.	2.1	41
51	The influence of pH on sampler uptake for an improved configuration of the organic-diffusive gradients in thin films passive sampler. <i>Analytica Chimica Acta</i> , 2018, 1018, 45-53.	5.4	40
52	Organophosphate flame retardants emitted from thermal treatment and open burning of e-waste. <i>Journal of Hazardous Materials</i> , 2019, 367, 390-396.	12.4	38
53	Differential Enantioselective Transformation of Atropisomeric Polychlorinated Biphenyls by Multiple Bacterial Strains with Different Inducing Compounds. <i>Applied and Environmental Microbiology</i> , 2002, 68, 5756-5759.	3.1	37
54	Airborne Haloacetic Acids. <i>Environmental Science &amp; Technology</i> , 2003, 37, 2889-2897.	10.0	36

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55	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.	8.0	36
56	Development and Validation of an Efficient Method for Processing Microplastics in Biota Samples. <i>Environmental Toxicology and Chemistry</i> , 2019, 38, 1400-1408.	4.3	35
57	Developing Unique Nontarget High-Resolution Mass Spectrometry Signatures to Track Contaminant Sources in Urban Waters. <i>Environmental Science and Technology Letters</i> , 2020, 7, 923-930.	8.7	32
58	Profile of persistent chlorinated contaminants, including selected chiral compounds, in wolverine ( <i>Gulo gulo</i> ) livers from the Canadian Arctic. <i>Chemosphere</i> , 2003, 53, 551-560.	8.2	30
59	Current-use pesticides in New Zealand streams: Comparing results from grab samples and three types of passive samplers. <i>Environmental Pollution</i> , 2019, 254, 112973.	7.5	30
60	The release of wastewater contaminants in the Arctic: A case study from Cambridge Bay, Nunavut, Canada. <i>Environmental Pollution</i> , 2016, 218, 542-550.	7.5	29
61	The Freshwater Invertebrate <i>Mysis relicta</i> Can Eliminate Chiral Organochlorine Compounds Enantioselectively. <i>Environmental Science &amp; Technology</i> , 2006, 40, 4158-4164.	10.0	28
62	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.	4.3	27
63	Absorption, tissue distribution, metabolism, and elimination of decabrominated diphenyl ether (BDE-209) in rats after multi-dose oral exposure. <i>Chemosphere</i> , 2017, 186, 749-756.	8.2	26
64	Associations between concentrations of perfluoroalkyl substances in human plasma and maternal, infant, and home characteristics in Winnipeg, Canada. <i>Environmental Pollution</i> , 2019, 249, 758-766.	7.5	26
65	Calibration of organic-diffusive gradients in thin films (o-DGT) passive samplers for perfluorinated alkyl acids in water. <i>Chemosphere</i> , 2021, 263, 128325.	8.2	26
66	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.	3.6	24
67	ENANTIOMERIC COMPOSITION OF CHIRAL POLYCHLORINATED BIPHENYL ATROPISOMERS IN DATED SEDIMENT CORES. <i>Environmental Toxicology and Chemistry</i> , 2007, 26, 254.	4.3	22
68	Performance of the organic-diffusive gradients in thin-films passive sampler for measurement of target and suspect wastewater contaminants. <i>Environmental Pollution</i> , 2020, 261, 114092.	7.5	22
69	Anthropogenic Activities Have Contributed Moderately to Increased Inputs of Organic Materials in Marginal Seas off China. <i>Environmental Science &amp; Technology</i> , 2013, 47, 11414-11422.	10.0	21
70	Application of multiple geochemical markers to investigate organic pollution in a dynamic coastal zone. <i>Environmental Toxicology and Chemistry</i> , 2013, 32, 312-319.	4.3	21
71	Enantioselective accumulation of chiral polychlorinated biphenyls in lotus plant ( <i>Nelumbo</i> )	12.4	21
72	Simultaneous quantification of propranolol and sulfamethoxazole and major human metabolite conjugates 4-hydroxy-propranolol sulfate and sulfamethoxazole- $\beta$ -glucuronide in municipal wastewater – A framework for multiple classes of drugs and conjugates. <i>Journal of Chromatography A</i> , 2016, 1471, 34-44.	3.7	19

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73	Intake, distribution, and metabolism of decabromodiphenyl ether and its main metabolites in chickens and implications for human dietary exposure. <i>Environmental Pollution</i> , 2017, 231, 795-801.	7.5	19
74	Sorption of radon-222 to natural sediments. <i>Geochimica Et Cosmochimica Acta</i> , 1992, 56, 3923-3932.	3.9	18
75	Enantiomer fractions of polychlorinated biphenyls in three selected Standard Reference Materials. <i>Chemosphere</i> , 2007, 66, 326-331.	8.2	17
76	Comparison of electrospray ionization, atmospheric pressure photoionization, and anion attachment atmospheric pressure photoionization for the analysis of hexabromocyclododecane enantiomers in environmental samples. <i>Journal of Chromatography A</i> , 2010, 1217, 7855-7863.	3.7	17
77	Microplastics in the Terrestrial Environment. , 2018, , 365-378.		17
78	Enantioselectivity of polychlorinated biphenyl atropisomers in sediment and biota from the Turtle/Brunswick River estuary, Georgia, USA. <i>Marine Pollution Bulletin</i> , 2011, 63, 548-555.	5.0	16
79	Temporal and spatial variation in polychlorinated biphenyl chiral signatures of the Greenland shark ( <i>Somniosus microcephalus</i> ) and its arctic marine food web. <i>Environmental Pollution</i> , 2014, 186, 216-225.	7.5	16
80	Prophylactic benefits of systemically delivered simvastatin treatment in a house dust mite challenged murine model of allergic asthma. <i>British Journal of Pharmacology</i> , 2018, 175, 1004-1016.	5.4	15
81	Current trends in environmental analysis of human metabolite conjugates of pharmaceuticals. <i>Trends in Environmental Analytical Chemistry</i> , 2015, 5, 8-17.	10.3	14
82	Selective serotonin reuptake inhibitors and Î²-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.	2.9	14
83	Effects of gemfibrozil on the growth, reproduction, and energy stores of <i>Daphnia magna</i> in the presence of varying food concentrations. <i>Chemosphere</i> , 2018, 192, 75-80.	8.2	14
84	Recognizing the Limitations of Performance Reference Compound (PRC)-Calibration Technique in Passive Water Sampling. <i>Environmental Science &amp; Technology</i> , 2013, 47, 130829091606006.	10.0	13
85	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.	8.2	13
86	The effects of diltiazem on growth, reproduction, energy reserves, and calcium-dependent physiology in <i>Daphnia magna</i> . <i>Chemosphere</i> , 2019, 232, 424-429.	8.2	12
87	In situ kinetics of human pharmaceutical conjugates and the impact of transformation, deconjugation, and sorption on persistence in wastewater batch bioreactors. <i>Environmental Pollution</i> , 2020, 265, 114852.	7.5	12
88	Fate of thiamethoxam in mesocosms and response of the zooplankton community. <i>Science of the Total Environment</i> , 2018, 637-638, 1150-1157.	8.0	11
89	The effects of prosperity indices and land use indicators of an urban conurbation on the occurrence of hexabromocyclododecanes and tetrabromobisphenol A in surface soil in South China. <i>Environmental Pollution</i> , 2019, 252, 1810-1818.	7.5	11
90	Simultaneous quantification of simvastatin and simvastatin hydroxy acid in blood serum at physiological pH by ultrahigh performance liquid chromatography-tandem mass spectrometry (UHPLC/MS/MS). <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2014, 947-948, 145-150.	2.3	10

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91	Quantification of achiral and chiral methylsulfonyl polychlorinated biphenyl metabolites by column-switching liquid chromatography-atmospheric pressure photoionization-tandem mass spectrometry. <i>Journal of Chromatography A</i> , 2012, 1268, 64-73.	3.7	9
92	Tracking chiral polychlorinated biphenyl sources near a hazardous waste incinerator: Fresh emissions or weathered revolatilization?. <i>Environmental Toxicology and Chemistry</i> , 2012, 31, 1453-1460.	4.3	9
93	Advancing passive sampling of contaminants in environmental science. <i>Environmental Sciences: Processes and Impacts</i> , 2014, 16, 366.	3.5	9
94	Measurement of <sup>13</sup> C/ <sup>12</sup> C of chloroacetic acids by gas chromatography/combustion/isotope ratio mass spectrometry. <i>Chemosphere</i> , 2003, 50, 903-909.	8.2	8
95	Sedimentary loadings and ecological significance of polycyclic aromatic hydrocarbons in a typical mariculture zone of South China. <i>Journal of Environmental Monitoring</i> , 2012, 14, 2685.	2.1	7
96	Disruption of biomolecule function by nanoparticles: How do gold nanoparticles affect Phase I biotransformation of persistent organic pollutants?. <i>Chemosphere</i> , 2013, 93, 123-132.	8.2	7
97	Determination of Polychlorinated Biphenyl Enantiomers in Lotus Root and Sediment by Chiral Gas Chromatography-Mass Spectrometry. <i>Chinese Journal of Analytical Chemistry</i> , 2012, 40, 1758-1763.	1.7	6
98	Fugacity gradients of hydrophobic organics across the air-water interface measured with a novel passive sampler. <i>Environmental Pollution</i> , 2016, 218, 1108-1115.	7.5	5
99	Development and field evaluation of the organic-diffusive gradients in thin-films (o-DGT) passive water sampler for microcystins. <i>Chemosphere</i> , 2022, 287, 132079.	8.2	5
100	Scrutinizing surficial sediment along a 600-km-long urban coastal zone: Occurrence and risk assessment of fipronil and its three degradates. <i>Science of the Total Environment</i> , 2022, 807, 151071.	8.0	5
101	Measurement of thyroxine and its glucuronide in municipal wastewater and solids using weak anion exchange solid phase extraction and ultrahigh performance liquid chromatography-tandem mass spectrometry. <i>Journal of Chromatography A</i> , 2017, 1525, 71-78.	3.7	4
102	Impact of passive sampler protection apparatus on sediment porewater profiles of hydrophobic organic compounds. <i>Chemosphere</i> , 2020, 252, 126534.	8.2	4
103	Evaluating the estrogenicity of an effluent-dominated river in California, USA: Comparisons of in vitro and in vivo bioassays. <i>Science of the Total Environment</i> , 2021, 758, 143965.	8.0	4
104	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.	5.3	4
105	Late season pharmaceutical fate in wetland mesocosms with and without phosphorous addition. <i>Environmental Science and Pollution Research</i> , 2016, 23, 22678-22690.	5.3	3
106	Photolysis of the nonsteroidal anti-inflammatory drug sulindac: elucidation of kinetic behaviour and photodegradation pathways in water. <i>Environmental Sciences: Processes and Impacts</i> , 2021, 23, 1405-1417.	3.5	3
107	Evaluation of cold-weather wastewater nitrification technology for removal of polar chemicals of emerging concern from rural Manitoba wastewaters. <i>Chemosphere</i> , 2020, 253, 126711.	8.2	3
108	Effects of biofouling on the uptake of perfluorinated alkyl acids by organic-diffusive gradients in thin films passive samplers. <i>Environmental Sciences: Processes and Impacts</i> , 2022, 24, 242-251.	3.5	3

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109	Comparison of the Enantiomer Distribution of Chiral Organochlorine Contaminants in Captive West Greenland Sled Dogs and Polar Bears from Baffin Bay. ACS Symposium Series, 2011, , 45-63.	0.5	2
110	Response to "Letter to the Editor Concerning the Viewpoint; "Recognizing the Limitations of Performance Reference Compound (PRC)-Calibration Technique in Passive Water Sampling"	10.0	2
111	Photodegradation of bitumen-derived organics in oil sands process-affected water. Environmental Sciences: Processes and Impacts, 2020, 22, 1243-1255.	3.5	2
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