

# R Stephen Brown

## List of Publications by Year in descending order

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Version: 2024-02-01

60  
papers

2,145  
citations

218677

26  
h-index

233421

45  
g-index

60  
all docs

60  
docs citations

60  
times ranked

2571  
citing authors

#	ARTICLE	IF	CITATIONS
1	A Blue Luminescent Star-Shaped ZnII Complex that Can Detect Benzene This work was supported by the Natural Sciences and Engineering Research Council of Canada and the Xerox Research Foundation.. Angewandte Chemie - International Edition, 2001, 40, 4042.	13.8	217
2	Antibiotic resistance genes as an emerging environmental contaminant. Environmental Reviews, 2016, 24, 205-218.	4.5	138
3	Fiber-loop ring-down spectroscopy. Journal of Chemical Physics, 2002, 117, 10444-10447.	3.0	132
4	Altering cytochrome P4501A activity affects polycyclic aromatic hydrocarbon metabolism and toxicity in rainbow trout ( <i>Oncorhynchus mykiss</i> ). Environmental Toxicology and Chemistry, 2002, 21, 1845-1853.	4.3	105
5	Switchable anionic surfactants for the remediation of oil-contaminated sand by soil washing. RSC Advances, 2014, 4, 4638-4645.	3.6	100
6	Measuring the toxicity of alkyl-phenanthrenes to early life stages of medaka ( <i>Oryzias latipes</i> ) using partition-controlled delivery. Environmental Toxicology and Chemistry, 2011, 30, 487-495.	4.3	96
7	Partition Controlled Delivery of Hydrophobic Substances in Toxicity Tests Using Poly(dimethylsiloxane) (PDMS) Films. Environmental Science & Technology, 2001, 35, 4097-4102.	10.0	92
8	Toxicity of hydroxylated alkyl-phenanthrenes to the early life stages of Japanese medaka ( <i>Oryzias latipes</i> ) using partition-controlled delivery. Environmental Toxicology and Chemistry, 2011, 30, 487-495.	4.0	78
9	Separation of PAHs by Capillary Electrophoresis with Laser-Induced Fluorescence Detection Using Mixtures of Neutral and Anionic .beta.-Cyclodextrins. Analytical Chemistry, 1995, 67, 3004-3010.	6.5	75
10	Cyclodextrin-Modified Capillary Electrophoresis: Determination of Polycyclic Aromatic Hydrocarbons in Contaminated Soils. Analytical Chemistry, 1996, 68, 287-292.	6.5	74
11	Partition-Controlled Delivery of Toxicants: A Novel In Vivo Approach for Embryo Toxicity Testing. Environmental Science & Technology, 2003, 37, 2262-2266.	10.0	71
12	Identification of compounds in heavy fuel oil that are chronically toxic to rainbow trout embryos by effects-driven chemical fractionation. Environmental Toxicology and Chemistry, 2014, 33, 825-835.	4.3	68
13	Chemical sensor based on a long-period fibre grating modified by a functionalized polydimethylsiloxane coating. Analyst, The, 2008, 133, 1541.	3.5	58
14	Inhibition of CYP1A enzymes by 1-naphthoflavone causes both synergism and antagonism of retene toxicity to rainbow trout ( <i>Oncorhynchus mykiss</i> ). Aquatic Toxicology, 2007, 81, 275-285.	4.0	57
15	Quantitative structure-activity relationships for chronic toxicity of alkyl-chrysenes and alkyl-benz[a]anthracenes to Japanese medaka embryos ( <i>Oryzias latipes</i> ). Aquatic Toxicology, 2015, 159, 109-118.	4.0	56
16	Self-quenching of nitrobenzoxadiazole labeled phospholipids in lipid membranes. Journal of Chemical Physics, 1994, 100, 6019-6027.	3.0	51
17	Identification of Estrogenic Compounds in Oil Sands Process Waters by Effect Directed Analysis. Environmental Science & Technology, 2015, 49, 570-577.	10.0	45
18	Oil toxicity test methods must be improved. Environmental Toxicology and Chemistry, 2019, 38, 302-311.	4.3	44

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19	Chronic toxicity of heavy fuel oils to fish embryos using multiple exposure scenarios. <i>Environmental Toxicology and Chemistry</i> , 2014, 33, 677-687.	4.3	43
20	Gas sensing using polymer-functionalized deformable Fabry-Perot interferometers. <i>Sensors and Actuators B: Chemical</i> , 2013, 182, 45-52.	7.8	38
21	Effects-driven chemical fractionation of heavy fuel oil to isolate compounds toxic to trout embryos. <i>Environmental Toxicology and Chemistry</i> , 2014, 33, 814-824.	4.3	34
22	A multi-dimensional high performance liquid chromatographic method for fingerprinting polycyclic aromatic hydrocarbons and their alkyl-homologs in the heavy gas oil fraction of Alaskan North Slope crude. <i>Journal of Chromatography A</i> , 2007, 1156, 124-133.	3.7	31
23	Comparative genomics of multidrug-resistant <i>Enterococcus</i> spp. isolated from wastewater treatment plants. <i>BMC Microbiology</i> , 2020, 20, 20.	3.3	31
24	Kinetics of mixed function oxygenase induction and retene excretion in retene-exposed rainbow trout ( <i>Oncorhynchus mykiss</i> ). <i>Environmental Toxicology and Chemistry</i> , 1999, 18, 2268-2274.	4.3	30
25	Enzyme reactions in the presence of cyclodextrins: biosensors and enzyme assays. <i>Trends in Biotechnology</i> , 1995, 13, 457-463.	9.3	28
26	Analysis of a large spatiotemporal groundwater quality dataset, Ontario 2010-2017: Informing human health risk assessment and testing guidance for private drinking water wells. <i>Science of the Total Environment</i> , 2020, 738, 140382.	8.0	27
27	A rapid and sensitive fluorimetric $\beta$ -galactosidase assay for coliform detection using chlorophenol red- $\beta$ -D-galactopyranoside. <i>Analytical and Bioanalytical Chemistry</i> , 2014, 406, 5395-5403.	3.7	24
28	Trends of persistent organic pollutants in American eel ( <i>Anguilla rostrata</i> ) from eastern Lake Ontario, Canada, and their potential effects on recruitment. <i>Science of the Total Environment</i> , 2015, 529, 231-242.	8.0	23
29	Spatial trends of dioxin-like compounds in Atlantic anguillid eels. <i>Chemosphere</i> , 2013, 91, 1439-1446.	8.2	19
30	Fecal indicator bacteria levels at beaches in the Florida Keys after Hurricane Irma. <i>Marine Pollution Bulletin</i> , 2019, 138, 266-273.	5.0	19
31	Exploration of <i>E. coli</i> contamination drivers in private drinking water wells: An application of machine learning to a large, multivariable, geo-spatio-temporal dataset. <i>Water Research</i> , 2021, 197, 117089.	11.3	19
32	Selective electrochemical biosensors from state-switching of bilayer and monolayer lipid membranes by lectin-polysaccharide complexes. <i>Analyst</i> , 1989, 114, 33.	3.5	17
33	New electrochemical sensors. <i>Analytical Proceedings</i> , 1991, 28, 366.	0.4	16
34	The Walkerton tragedy—issues for water quality monitoring. <i>Analyst</i> , 2003, 128, 320-322.	3.5	15
35	Determining binding of sulfonamide antibiotics to CTABr micelles using semi-equilibrium dialysis. <i>Separation and Purification Technology</i> , 2016, 162, 134-141.	7.9	13
36	Environmental adaptation of <i>E. coli</i> within private groundwater sources in southeastern Ontario: Implications for groundwater quality monitoring and human health. <i>Environmental Pollution</i> , 2021, 285, 117263.	7.5	13

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37	A new, automated rapid fluorometric method for the detection of Escherichia coli in recreational waters. <i>Journal of Great Lakes Research</i> , 2015, 41, 298-302.	1.9	12
38	1994 McBryde Medal Award Lecture Investigations of organized monolayer films for biosensor development. <i>Canadian Journal of Chemistry</i> , 1995, 73, 1239-1250.	1.1	11
39	Developing a toll-like receptor biosensor for Gram-positive bacterial detection and its storage strategies. <i>Analyst, The</i> , 2020, 145, 6024-6031.	3.5	11
40	Examining influential drivers of private well users' perceptions in Ontario: A cross-sectional population study. <i>Science of the Total Environment</i> , 2021, 763, 142952.	8.0	11
41	Metagenomics of Wastewater Influent from Wastewater Treatment Facilities across Ontario in the Era of Emerging SARS-CoV-2 Variants of Concern. <i>Microbiology Resource Announcements</i> , 2022, 11, .	0.6	11
42	Optimization of the Self-Quenching Response of Nitrobenzoxadiazole Dipalmitoylphosphatidylethanolamine in Phospholipid Membranes for Biosensor Development. <i>Applied Spectroscopy</i> , 1995, 49, 304-313.	2.2	10
43	Comparison of biochemical and genotypic speciation methods for vancomycin-resistant enterococci isolated from urban wastewater treatment plants. <i>Journal of Microbiological Methods</i> , 2019, 161, 102-110.	1.6	10
44	Antimicrobial Resistant Genes and Organisms as Environmental Contaminants of Emerging Concern: Addressing Global Public Health Risks. , 2019, , 147-187.		9
45	Qualitative analysis of halogenated organic contaminants in American eel by gas chromatography/time-of-flight mass spectrometry. <i>Chemosphere</i> , 2014, 116, 98-103.	8.2	8
46	Binding of Sulfonamide Antibiotics to CTABr Micelles Characterized Using <sup>1</sup> H NMR Spectroscopy. <i>Langmuir</i> , 2016, 32, 7814-7820.	3.5	7
47	Quantification and Multidrug Resistance Profiles of Vancomycin-Resistant Enterococci Isolated from Two Wastewater Treatment Plants in the Same Municipality. <i>Microorganisms</i> , 2019, 7, 626.	3.6	7
48	The bioavailability of oil droplets trapped in river gravel by hyporheic flows. <i>Environmental Pollution</i> , 2021, 269, 116110.	7.5	7
49	Effects on Trout Alevins of Chronic Exposures to Chemically Dispersed Access Western Blend and Cold Lake Blend Diluted Bitumens. <i>Environmental Toxicology and Chemistry</i> , 2020, 39, 1620-1633.	4.3	5
50	Automation of simple instrumentation for Langmuir-Blodgett technology. <i>Analyst, The</i> , 1987, 112, 1165.	3.5	4
51	Mass spectrometric detection of proteins in non-aqueous media " The case of prion proteins in biodiesel. <i>Canadian Journal of Chemistry</i> , 2008, 86, 774-781.	1.1	4
52	Drinking Water Consumption Patterns among Private Well Users in Ontario: Implications for Exposure Assessment of Waterborne Infection. <i>Risk Analysis</i> , 2021, 41, 1890-1910.	2.7	4
53	Determining binding of polycyclic aromatic hydrocarbons to CTABr micelles using semi-equilibrium dialysis techniques. <i>Ecotoxicology and Environmental Safety</i> , 2019, 172, 114-119.	6.0	3
54	Effects of Environmentally Relevant Residual Levels of Diluted Bitumen on Wild Fathead Minnows ( <i>Pimephales promelas</i> ). <i>Bulletin of Environmental Contamination and Toxicology</i> , 2020, 105, 699-704.	2.7	3

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55	A Fibre-Optic Coupled Fluorescence Multiwavelength Sensor for Automated Monitoring of Bacteria Culture from Drinking Water. , 2013, , .		3
56	The adsorption of benzo[k]fluoranthene on self assembled films of octadecyltrichlorosilane. Journal of Materials Chemistry, 2001, 11, 2282-2286.	6.7	2
57	Detection of volatile organic compounds with functionalized long-period gratings and micro-ring resonators. , 2011, , .		2
58	Dioxin-like contaminants are no longer a risk to the American eel ( <i>Anguilla rostrata</i> ) in Lake Ontario. Environmental Toxicology and Chemistry, 2018, 37, 1061-1070.	4.3	2
59	An Automated Detection Technology for On-Site <i>E. coli</i> and Coliform Bacteria Monitoring. Proceedings of the Water Environment Federation, 2010, 2010, 7433-7442.	0.0	1
60	Determining binding of polycyclic aromatic hydrocarbons to micelles formed by SDS and SOL using semi-equilibrium dialysis. Ecotoxicology and Environmental Safety, 2021, 208, 111635.	6.0	1