

Thomas F Parkerton

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

89
papers

4,097
citations

31
h-index

62
g-index

91
ext. papers

4,595
ext. citations

5.3
avg, IF

5.22
L-index

#	Paper	IF	Citations
89	The environmental fate of phthalate esters: A literature review. <i>Chemosphere</i> , 1997 , 35, 667-749	8.4	1123
88	An equilibrium model of organic chemical accumulation in aquatic food webs with sediment interaction. <i>Environmental Toxicology and Chemistry</i> , 1992 , 11, 615-629	3.8	276
87	Aquatic toxicity of eighteen phthalate esters. <i>Environmental Toxicology and Chemistry</i> , 1997 , 16, 875-891	3.8	151
86	Passive sampling methods for contaminated sediments: scientific rationale supporting use of freely dissolved concentrations. <i>Integrated Environmental Assessment and Management</i> , 2014 , 10, 197-209	2.5	122
85	Kinetics of chromium transformations in the environment. <i>Science of the Total Environment</i> , 1989 , 86, 25-41	10.2	108
84	A database of fish biotransformation rates for organic chemicals. <i>Environmental Toxicology and Chemistry</i> , 2008 , 27, 2263-70	3.8	105
83	Base-line model for identifying the bioaccumulation potential of chemicals. <i>SAR and QSAR in Environmental Research</i> , 2005 , 16, 531-54	3.5	86
82	PETROTOX: an aquatic toxicity model for petroleum substances. <i>Environmental Toxicology and Chemistry</i> , 2012 , 31, 2498-506	3.8	75
81	A proposed multigeneration protocol for Japanese medaka (<i>Oryzias latipes</i>) to evaluate effects of endocrine disruptors. <i>Science of the Total Environment</i> , 1999 , 233, 211-20	10.2	75
80	Evaluation of bioaccumulation using in vivo laboratory and field studies. <i>Integrated Environmental Assessment and Management</i> , 2009 , 5, 598-623	2.5	68
79	A risk assessment of selected phthalate esters in North American and Western European surface waters. <i>Chemosphere</i> , 2000 , 40, 885-91	8.4	68
78	Polyacrylate-Coated SPME Fibers as a Tool To Simulate Body Residues and Target Concentrations of Complex Organic Mixtures for Estimation of Baseline Toxicity. <i>Environmental Science & Technology</i> , 2000 , 34, 324-331	10.3	68
77	Guidance for improving comparability and relevance of oil toxicity tests. <i>Marine Pollution Bulletin</i> , 2015 , 98, 156-70	6.7	66
76	Validation of the narcosis target lipid model for petroleum products: gasoline as a case study. <i>Environmental Toxicology and Chemistry</i> , 2005 , 24, 2382-94	3.8	64
75	The primary aerobic biodegradation of gasoline hydrocarbons. <i>Environmental Science & Technology</i> , 2007 , 41, 3316-21	10.3	63
74	Application of quantitative structure--activity relationships for assessing the aquatic toxicity of phthalate esters. <i>Ecotoxicology and Environmental Safety</i> , 2000 , 45, 61-78	7	56
73	Comparing laboratory and field measured bioaccumulation endpoints. <i>Integrated Environmental Assessment and Management</i> , 2012 , 8, 17-31	2.5	54

72	Application of the narcosis target lipid model to algal toxicity and deriving predicted-no-effect concentrations. <i>Environmental Toxicology and Chemistry</i> , 2004 , 23, 2503-17	3.8	54
71	A new biodegradation prediction model specific to petroleum hydrocarbons. <i>Environmental Toxicology and Chemistry</i> , 2005 , 24, 1847-60	3.8	54
70	Assessing the aquatic toxicity of complex hydrocarbon mixtures using solid phase microextraction. <i>Toxicology Letters</i> , 2000 , 112-113, 273-82	4.4	50
69	A review of the tissue residue approach for organic and organometallic compounds in aquatic organisms. <i>Integrated Environmental Assessment and Management</i> , 2011 , 7, 50-74	2.5	44
68	Comparative Risk Assessment of spill response options for a deepwater oil well blowout: Part 1. Oil spill modeling. <i>Marine Pollution Bulletin</i> , 2018 , 133, 1001-1015	6.7	40
67	Passive sampling methods for contaminated sediments: risk assessment and management. <i>Integrated Environmental Assessment and Management</i> , 2014 , 10, 224-36	2.5	40
66	Improving the quality and scientific understanding of trophic magnification factors (TMFs). <i>Environmental Science & Technology</i> , 2013 , 47, 1186-7	10.3	40
65	A novel passive dosing system for determining the toxicity of phenanthrene to early life stages of zebrafish. <i>Science of the Total Environment</i> , 2013 , 463-464, 952-8	10.2	40
64	An assessment of the toxicity of phthalate esters to freshwater benthos. 1. Aqueous exposures. <i>Environmental Toxicology and Chemistry</i> , 2001 , 20, 1798-1804	3.8	39
63	Guidance for evaluating in vivo fish bioaccumulation data. <i>Integrated Environmental Assessment and Management</i> , 2008 , 4, 139-55	2.5	38
62	Multimedia modeling of human exposure to chemical substances: the roles of food web biomagnification and biotransformation. <i>Environmental Toxicology and Chemistry</i> , 2010 , 29, 45-55	3.8	35
61	Applications of contaminant fate and bioaccumulation models in assessing ecological risks of chemicals: a case study for gasoline hydrocarbons. <i>Environmental Science & Technology</i> , 2004 , 38, 6225-33	10.3	33
60	Re-evaluation of target lipid model-derived HC5 predictions for hydrocarbons. <i>Environmental Toxicology and Chemistry</i> , 2018 , 37, 1579-1593	3.8	31
59	Temporal patterns in the transcriptomic response of rainbow trout, <i>Oncorhynchus mykiss</i> , to crude oil. <i>Aquatic Toxicology</i> , 2010 , 99, 320-9	5.1	31
58	A kinetic model for predicting biodegradation. <i>SAR and QSAR in Environmental Research</i> , 2007 , 18, 443-53.5	3.5	30
57	Review of Polycyclic Aromatic Hydrocarbons (PAHs) Sediment Quality Guidelines for the Protection of Benthic Life. <i>Integrated Environmental Assessment and Management</i> , 2019 , 15, 505-518	2.5	28
56	Oil dispersants do facilitate biodegradation of spilled oil. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016 , 113, E1421	11.5	26
55	PETORISK: a risk assessment framework for petroleum substances. <i>Integrated Environmental Assessment and Management</i> , 2014 , 10, 437-48	2.5	26

54	Evaluating toxicity of heavy fuel oil fractions using complementary modeling and biomimetic extraction methods. <i>Environmental Toxicology and Chemistry</i> , 2014 , 33, 2094-104	3.8	26
53	Use of passive samplers for improving oil toxicity and spill effects assessment. <i>Marine Pollution Bulletin</i> , 2014 , 86, 274-282	6.7	26
52	The treatment of biodegradation in models of sub-surface oil spills: A review and sensitivity study. <i>Marine Pollution Bulletin</i> , 2019 , 143, 204-219	6.7	25
51	A chemical activity approach to exposure and risk assessment of chemicals: Focus articles are part of a regular series intended to sharpen understanding of current and emerging topics of interest to the scientific community. <i>Environmental Toxicology and Chemistry</i> , 2018 , 37, 1235-1251	3.8	25
50	Sediment sorption coefficient measurements for four phthalate esters: Experimental results and model theory. <i>Environmental Toxicology and Chemistry</i> , 1995 , 14, 1477-1486	3.8	25
49	In Vivo Biotransformation Rates of Organic Chemicals in Fish: Relationship with Bioconcentration and Biomagnification Factors. <i>Environmental Science & Technology</i> , 2016 , 50, 13299-13308	10.3	24
48	Chronic toxicity of selected polycyclic aromatic hydrocarbons to algae and crustaceans using passive dosing. <i>Environmental Toxicology and Chemistry</i> , 2016 , 35, 2948-2957	3.8	24
47	Comparing laboratory- and field-measured biota-sediment accumulation factors. <i>Integrated Environmental Assessment and Management</i> , 2012 , 8, 32-41	2.5	24
46	Recommendations for Improving Methods and Models for Aquatic Hazard Assessment of Ionizable Organic Chemicals. <i>Environmental Toxicology and Chemistry</i> , 2020 , 39, 269-286	3.8	24
45	A re-evaluation of PETROTOX for predicting acute and chronic toxicity of petroleum substances. <i>Environmental Toxicology and Chemistry</i> , 2017 , 36, 2245-2252	3.8	23
44	Five-stage environmental exposure assessment strategy for mixtures: gasoline as a case study. <i>Environmental Science & Technology</i> , 2005 , 39, 2711-8	10.3	23
43	Physical-Chemical Properties and Evaluative Fate Modelling of Phthalate Esters. <i>Handbook of Environmental Chemistry</i> , 2003 , 57-84	0.8	23
42	Assessing Aromatic-Hydrocarbon Toxicity to Fish Early Life Stages Using Passive-Dosing Methods and Target-Lipid and Chemical-Activity Models. <i>Environmental Science & Technology</i> , 2016 , 50, 8305-15 ³	10.3	23
41	The sensitivity of a deep-sea fish species (<i>Anoplopoma fimbria</i>) to oil-associated aromatic compounds, dispersant, and Alaskan North Slope crude oil. <i>Environmental Toxicology and Chemistry</i> , 2018 , 37, 2210-2221	3.8	22
40	Hazard evaluation of diisononyl phthalate and diisodecyl phthalate in a Japanese medaka multigenerational assay. <i>Ecotoxicology and Environmental Safety</i> , 2006 , 65, 36-47	7	22
39	An assessment of the toxicity of phthalate esters to freshwater benthos. 2. Sediment exposures. <i>Environmental Toxicology and Chemistry</i> , 2001 , 20, 1805-1815	3.8	22
38	Do aquatic effects or human health end points govern the development of sediment-quality criteria for nonionic organic chemicals?. <i>Environmental Toxicology and Chemistry</i> , 1993 , 12, 507-523	3.8	22
37	Comparative toxicity and speciation of two hexavalent chromium salts in acute toxicity tests. <i>Environmental Toxicology and Chemistry</i> , 1987 , 6, 697-703	3.8	22

36	Investigating the role of dissolved and droplet oil in aquatic toxicity using dispersed and passive dosing systems. <i>Environmental Toxicology and Chemistry</i> , 2017 , 36, 1020-1028	3.8	20
35	Slow-stir water solubility measurements of selected alcohols and diesters. <i>Chemosphere</i> , 2002 , 48, 257-654	3.4	19
34	Application of the Target Lipid Model and Passive Samplers to Characterize the Toxicity of Bioavailable Organics in Oil Sands Process-Affected Water. <i>Environmental Science & Technology</i> , 2018 , 52, 8039-8049	10.3	18
33	Passive dosing yields dissolved aqueous exposures of crude oil comparable to the CROSERF (Chemical Response to Oil Spill: Ecological Effects Research Forum) water accommodated fraction method. <i>Environmental Toxicology and Chemistry</i> , 2018 , 37, 2810-2819	3.8	18
32	Technical basis for using passive sampling as a biomimetic extraction procedure to assess bioavailability and predict toxicity of petroleum substances. <i>Chemosphere</i> , 2018 , 199, 585-594	8.4	17
31	Application of the target lipid model for deriving predicted no-effect concentrations for wastewater organisms. <i>Environmental Toxicology and Chemistry</i> , 2007 , 26, 2317-31	3.8	16
30	Passive sampling in contaminated sediment assessment: building consensus to improve decision making. <i>Integrated Environmental Assessment and Management</i> , 2014 , 10, 163-6	2.5	15
29	Extension and validation of the target lipid model for deriving predicted no-effect concentrations for soils and sediments. <i>Environmental Toxicology and Chemistry</i> , 2014 , 33, 2679-87	3.8	15
28	Hepatic gene expression in rainbow trout (<i>Oncorhynchus mykiss</i>) exposed to different hydrocarbon mixtures. <i>Environmental Toxicology and Chemistry</i> , 2010 , 29, 2034-43	3.8	15
27	Bioaccumulation of Phthalate Esters in Aquatic Food-Webs. <i>Handbook of Environmental Chemistry</i> , 2003 , 201-225	0.8	15
26	Water solubility of selected C9-C18 alkanes using a slow-stir technique: Comparison to structure - property models. <i>Chemosphere</i> , 2016 , 150, 416-423	8.4	14
25	Assessing the aquatic hazard of commercial hydrocarbon resins. <i>Ecotoxicology and Environmental Safety</i> , 2007 , 66, 159-68	7	12
24	Alternative Management of Oil and Gas Produced Water Requires More Research on Its Hazards and Risks. <i>Integrated Environmental Assessment and Management</i> , 2019 , 15, 677-682	2.5	11
23	Aquatic exposures of chemical mixtures in urban environments: Approaches to impact assessment. <i>Environmental Toxicology and Chemistry</i> , 2018 , 37, 703-714	3.8	11
22	Modeling the toxicity of dissolved crude oil exposures to characterize the sensitivity of cod (<i>Gadus morhua</i>) larvae and role of individual and unresolved hydrocarbons. <i>Marine Pollution Bulletin</i> , 2019 , 138, 286-294	6.7	10
21	Use of <i>Selenastrum capricornutum</i> and Microfeast as food for <i>Daphnia pulex</i> . <i>Bulletin of Environmental Contamination and Toxicology</i> , 1990 , 44, 59-66	2.7	9
20	An evaluation of cumulative risks from offshore produced water discharges in the Bass Strait. <i>Marine Pollution Bulletin</i> , 2018 , 126, 610-621	6.7	9
19	An equilibrium model of organic chemical accumulation in aquatic food webs with sediment interaction 1992 , 11, 615		8

18	A Toxicokinetic Framework and Analysis Tool for Interpreting Organisation for Economic Co-operation and Development Guideline 305 Dietary Bioaccumulation Tests. <i>Environmental Toxicology and Chemistry</i> , 2020 , 39, 171-188	3.8	8
17	The sensitivity of the deepsea species northern shrimp (<i>Pandalus borealis</i>) and the cold-water coral (<i>Lophelia pertusa</i>) to oil-associated aromatic compounds, dispersant, and Alaskan North Slope crude oil. <i>Marine Pollution Bulletin</i> , 2020 , 156, 111202	6.7	6
16	Comment on "Toxicity and mutagenicity of Gulf of Mexico waters during and after the deepwater horizon oil spill". <i>Environmental Science & Technology</i> , 2014 , 48, 3591-2	10.3	6
15	Environmental fate factors and human intake fractions for risk assessment of petroleum products. <i>Integrated Environmental Assessment and Management</i> , 2010 , 6, 135-44	2.5	6
14	Bioconcentration factors for hydrocarbons and petrochemicals: Understanding processes, uncertainty and predictive model performance. <i>Chemosphere</i> , 2019 , 226, 472-482	8.4	4
13	An Assessment of the Potential Environmental Risks Posed by Phthalates in Soil and Sediment. <i>Handbook of Environmental Chemistry</i> , 2003 , 317-349	0.8	4
12	Comparison of In Situ and Ex Situ Equilibrium Passive Sampling for Measuring Freely Dissolved Concentrations of Parent and Alkylated Polycyclic Aromatic Hydrocarbons in Sediments. <i>Environmental Toxicology and Chemistry</i> , 2020 , 39, 2169-2179	3.8	4
11	Aqueous solubility and <i>Daphnia magna</i> chronic toxicity of di(2-ethylhexyl) adipate. <i>Bulletin of Environmental Contamination and Toxicology</i> , 2008 , 80, 539-43	2.7	3
10	Miniaturised marine tests as indicators of aromatic hydrocarbon toxicity: Potential applicability to oil spill assessment. <i>Marine Pollution Bulletin</i> , 2021 , 165, 112151	6.7	3
9	Preparing the Hydrocarbon/Crude Oil. <i>Springer Protocols</i> , 2016 , 15-32	0.3	3
8	Toxicity of two representative petroleum hydrocarbons, toluene and phenanthrene, to five Atlantic coral species. <i>Marine Pollution Bulletin</i> , 2021 , 169, 112560	6.7	3
7	Assessing the Fate of an Aromatic Hydrocarbon Fluid in Agricultural Spray Applications Using the Three-Stage ADVOCATE Model Framework. <i>Journal of Agricultural and Food Chemistry</i> , 2015 , 63, 6866-75	5.7	2
6	Modeling bioaccumulation in coupled pelagic-benthic food chains: past insights and future directions. <i>Environmental Toxicology and Chemistry</i> , 2013 , 32, 1931-4	3.8	1
5	Development of a Multimedia Model for the Fate Prediction of Hydrocarbon Fluids in Agrochemical Formulations. <i>Journal of ASTM International</i> , 2008 , 5, 101637		1
4	Assessing toxicity of hydrophobic aliphatic and monoaromatic hydrocarbons at the solubility limit using novel dosing methods. <i>Chemosphere</i> , 2021 , 265, 129174	8.4	1
3	Assessing the Toxicity of Individual Aromatic Compounds and Mixtures to American Lobster (<i>Homarus americanus</i>) Larvae Using a Passive Dosing System. <i>Environmental Toxicology and Chemistry</i> , 2021 , 40, 1379-1388	3.8	0
2	Derivation of toxicity thresholds for gas condensate oils protective of tropical species using experimental and modelling approaches. <i>Marine Pollution Bulletin</i> , 2021 , 172, 112899	6.7	0
1	Response to Comment on "Assessing Aromatic-Hydrocarbon Toxicity to Fish Early Life Stages Using Passive-Dosing Methods and Target-Lipid and Chemical-Activity Models". <i>Environmental Science & Technology</i> , 2017 , 51, 3586-3587	10.3	

