Jon A Arnot

List of Publications by Year
in descending order

91	5,557	100601 38	93651 72
papers	citations	h-index	g-index

91	91	91	4874
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	A weight of evidence approach for bioaccumulation assessment. Integrated Environmental Assessment and Management, 2023, 19, 1235-1253.	1.6	15
2	Riskâ€based prioritization of organic substances in the Canadian National Pollutant Release Inventory using an evaluative regionalâ€scale multimedia mass balance model. Integrated Environmental Assessment and Management, 2022, 18, 1722-1732.	1.6	5
3	<i>In Vivo</i> Bioconcentration of 10 Anionic Surfactants in Rainbow Trout Explained by <i>In Vitro</i> Data on Partitioning and S9 Clearance. Environmental Science & Technology, 2022, 56, 6305-6314.	4.6	8
4	Addressing uncertainty in mouthing-mediated ingestion of chemicals on indoor surfaces, objects, and dust. Environment International, 2021, 146, 106266.	4.8	25
5	Normalizing the Biomagnification Factor. Environmental Toxicology and Chemistry, 2021, 40, 1204-1211.	2.2	8
6	A critical review and weight of evidence approach for assessing the bioaccumulation of phenanthrene in aquatic environments. Integrated Environmental Assessment and Management, 2021, 17, 911-925.	1.6	8
7	Bioconcentration of Several Series of Cationic Surfactants in Rainbow Trout. Environmental Science & Technology, 2021, 55, 8888-8897.	4.6	18
8	Biotransformation Potential of Cationic Surfactants in Fish Assessed with Rainbow Trout Liver S9 Fractions. Environmental Toxicology and Chemistry, 2021, 40, 3123-3136.	2.2	10
9	Development and intercomparison of single and multicompartment physiologically-based toxicokinetic models: Implications for model selection and tiered modeling frameworks. Environment International, 2021, 154, 106557.	4.8	12
10	Update and Evaluation of a High-Throughput In Vitro Mass Balance Distribution Model: IV-MBM EQP v2.0. Toxics, 2021, 9, 315.	1.6	13
11	Screening the baseline fish bioconcentration factor of various types of surfactants using phospholipid binding data. Environmental Sciences: Processes and Impacts, 2021, 23, 1930-1948.	1.7	4
12	Development and Evaluation of a Holistic and Mechanistic Modeling Framework for Chemical Emissions, Fate, Exposure, and Risk. Environmental Health Perspectives, 2021, 129, 127006.	2.8	15
13	Clarifying Temporal Trend Variability in Human Biomonitoring of Polybrominated Diphenyl Ethers through Mechanistic Modeling. Environmental Science & Technology, 2020, 54, 166-175.	4.6	19
14	Exposure to selected preservatives in personal care products: case study comparison of exposure models and observational biomonitoring data. Journal of Exposure Science and Environmental Epidemiology, 2020, 30, 28-41.	1.8	10
15	Examining Uncertainty in In Vitroâ€"In Vivo Extrapolation Applied in Fish Bioconcentration Models. Environmental Science & Technology, 2020, 54, 9483-9494.	4.6	27
16	Tissue Distribution of Several Series of Cationic Surfactants in Rainbow Trout (<i>Oncorhynchus) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 1 4190-4199.	4.6	24
17	A perspective on the role of fugacity and activity for evaluating the PBT properties of organic chemicals and providing a multi-media synoptic indicator of environmental contamination. Environmental Sciences: Processes and Impacts, 2020, 22, 518-527.	1.7	5
18	How are Humans Exposed to Organic Chemicals Released to Indoor Air?. Environmental Science & Technology, 2019, 53, 11276-11284.	4.6	49

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19	Application of an Iterative Fragment Selection (IFS) Method to Estimate Entropies of Fusion and Melting Points of Organic Chemicals. Molecular Informatics, 2019, 38, e1800160.	1.4	9
20	Development and Evaluation of a Combined Bioenergetics and Organic Chemical Mass-Balance Bioaccumulation Model for Fish. Environmental Science & Technology, 2019, 53, 752-759.	4.6	9
21	Consensus Modeling of Median Chemical Intake for the U.S. Population Based on Predictions of Exposure Pathways. Environmental Science & Technology, 2019, 53, 719-732.	4.6	78
22	Characterization of age-based trends to identify chemical biomarkers of higher levels in children. Environment International, 2019, 122, 117-129.	4.8	13
23	The influence of chemical degradation during dietary exposures to fish on biomagnification factors and bioaccumulation factors. Environmental Sciences: Processes and Impacts, 2018, 20, 86-97.	1.7	5
24	Towards a systematic understanding of the dynamic fate of polychlorinated biphenyls in indoor, urban and rural environments. Environment International, 2018, 117, 57-68.	4.8	38
25	Development of human biotransformation QSARs and application for PBT assessment refinement. Food and Chemical Toxicology, 2018, 112, 535-543.	1.8	27
26	A weight-of-evidence approach for the bioaccumulation assessment of triclosan in aquatic species. Science of the Total Environment, 2018, 618, 1506-1518.	3.9	21
27	A review of measured bioaccumulation data on terrestrial plants for organic chemicals: Metrics, variability, and the need for standardized measurement protocols. Environmental Toxicology and Chemistry, 2018, 37, 21-33.	2.2	72
28	A Model for Risk-Based Screening and Prioritization of Human Exposure to Chemicals from Near-Field Sources. Environmental Science & Technology, 2018, 52, 14235-14244.	4.6	38
29	Revisiting the Contributions of Far- and Near-Field Routes to Aggregate Human Exposure to Polychlorinated Biphenyls (PCBs). Environmental Science & Technology, 2018, 52, 6974-6984.	4.6	40
30	Linking algal growth inhibition to chemical activity: Excess toxicity below 0.1% of saturation. Chemosphere, 2018, 208, 880-886.	4.2	10
31	The chemical exposure toxicity space (CETS) model: Displaying exposure time, aqueous and organic concentration, activity, and onset of toxicity. Environmental Toxicology and Chemistry, 2017, 36, 1389-1396.	2.2	8
32	Assessing the bioaccumulation potential of ionizable organic compounds: Current knowledge and research priorities. Environmental Toxicology and Chemistry, 2017, 36, 882-897.	2.2	106
33	In Silico Approaches for the Prediction of In Vivo Biotransformation Rates. Challenges and Advances in Computational Chemistry and Physics, 2017, , 425-451.	0.6	1
34	Processes influencing chemical biomagnification and trophic magnification factors in aquatic ecosystems: Implications for chemical hazard and risk assessment. Chemosphere, 2016, 154, 99-108.	4.2	45
35	Mechanistic polychlorinated biphenyl exposure modeling of mothers in the Canadian Arctic: the challenge of reliably establishing dietary composition. Environment International, 2016, 92-93, 256-268.	4.8	18
36	Dermal permeation data and models for the prioritization and screening-level exposure assessment of organic chemicals. Environment International, 2016, 94, 424-435.	4.8	30

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37	Review of existing terrestrial bioaccumulation models and terrestrial bioaccumulation modeling needs for organic chemicals. Integrated Environmental Assessment and Management, 2016, 12, 123-134.	1.6	50
38	Improving plant bioaccumulation science through consistent reporting of experimental data. Journal of Environmental Management, 2016, 181, 374-384.	3.8	42
39	Which Molecular Features Affect the Intrinsic Hepatic Clearance Rate of Ionizable Organic Chemicals in Fish?. Environmental Science & Technology, 2016, 50, 12722-12731.	4.6	23
40	Evaluating the roles of biotransformation, spatial concentration differences, organism home range, and field sampling design on trophic magnification factors. Science of the Total Environment, 2016, 551-552, 438-451.	3.9	43
41	A fugacityâ€based toxicokinetic model for narcotic organic chemicals in fish. Environmental Toxicology and Chemistry, 2016, 35, 1257-1267.	2.2	5
42	Quantifying uncertainty in the trophic magnification factor related to spatial movements of organisms in a food web. Integrated Environmental Assessment and Management, 2015, 11, 306-318.	1.6	37
43	Towards an improved understanding of processes controlling absorption efficiency and biomagnification of organic chemicals by fish. Chemosphere, 2015, 138, 89-95.	4.2	12
44	Risk-Based High-Throughput Chemical Screening and Prioritization using Exposure Models and in Vitro Bioactivity Assays. Environmental Science & Technology, 2015, 49, 6760-6771.	4.6	63
45	Development and Evaluation of a Database of Dietary Bioaccumulation Test Data for Organic Chemicals in Fish. Environmental Science & Technology, 2015, 49, 4783-4796.	4.6	38
46	Application of the Activity Framework for Assessing Aquatic Ecotoxicology Data for Organic Chemicals. Environmental Science & Technology, 2015, 49, 12289-12296.	4.6	26
47	Model for Screening-Level Assessment of Near-Field Human Exposure to Neutral Organic Chemicals Released Indoors. Environmental Science & Technology, 2014, 48, 12312-12319.	4.6	60
48	Relationships between exposure and dose in aquatic toxicity tests for organic chemicals. Environmental Toxicology and Chemistry, 2014, 33, 2038-2046.	2.2	20
49	Using Model-Based Screening to Help Discover Unknown Environmental Contaminants. Environmental Science & Technology, 2014, 48, 7264-7271.	4.6	29
50	Estimating Screening-Level Organic Chemical Half-Lives in Humans. Environmental Science & Technology, 2014, 48, 723-730.	4.6	52
51	Application of Mass Balance Models and the Chemical Activity Concept To Facilitate the Use of in Vitro Toxicity Data for Risk Assessment. Environmental Science & Technology, 2014, 48, 9770-9779.	4.6	130
52	Metabolic biotransformation half-lives in fish: QSAR modeling and consensus analysis. Science of the Total Environment, 2014, 470-471, 1040-1046.	3.9	74
53	Comparison of modeling approaches to prioritize chemicals based on estimates of exposure and exposure potential. Science of the Total Environment, 2013, 458-460, 555-567.	3.9	49
54	Evaluating the environmental fate of short-chain chlorinated paraffins (SCCPs) in the Nordic environment using a dynamic multimedia model. Environmental Sciences: Processes and Impacts, 2013, 15, 2240.	1.7	20

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55	Development and evaluation of a mechanistic bioconcentration model for ionogenic organic chemicals in fish. Environmental Toxicology and Chemistry, 2013, 32, 115-128.	2.2	144
56	High-Throughput Models for Exposure-Based Chemical Prioritization in the ExpoCast Project. Environmental Science & Technology, 2013, 47, 130711145716006.	4.6	132
57	Toward improved models for predicting bioconcentration of well‐metabolized compounds by rainbow trout using measured rates of in vitro intrinsic clearance. Environmental Toxicology and Chemistry, 2013, 32, 1611-1622.	2.2	97
58	Mathematical relationships between metrics of chemical bioaccumulation in fish. Environmental Toxicology and Chemistry, 2013, 32, 1459-1466.	2.2	57
59	Prioritizing Chemicals and Data Requirements for Screening-Level Exposure and Risk Assessment. Environmental Health Perspectives, 2012, 120, 1565-1570.	2.8	87
60	Selecting and designing chemicals: application of a mass balance model of chemical fate, exposure and effects in the environment. Green Chemistry, 2012, 14, 1094.	4.6	7
61	Screening organic chemicals in commerce for emissions in the context of environmental and human exposure. Journal of Environmental Monitoring, 2012, 14, 2028.	2.1	25
62	Potential Role of Phospholipids in Determining the Internal Tissue Distribution of Perfluoroalkyl Acids in Biota. Environmental Science & Technology, 2012, 46, 12285-12286.	4.6	62
63	Iterative Fragment Selection: A Group Contribution Approach to Predicting Fish Biotransformation Half-Lives. Environmental Science & Technology, 2012, 46, 8253-8260.	4.6	67
64	Use of the bioaccumulation factor to screen chemicals for bioaccumulation potential. Environmental Toxicology and Chemistry, 2012, 31, 2261-2268.	2.2	64
65	Comparing laboratory‐and field‐measured biota–sediment accumulation factors. Integrated Environmental Assessment and Management, 2012, 8, 32-41.	1.6	31
66	Comparing laboratory and field measured bioaccumulation endpoints. Integrated Environmental Assessment and Management, 2012, 8, 17-31.	1.6	71
67	Toxic Organic Chemicals. , 2012, , 41-63.		0
68	Bioaccumulation of Organic Contaminants in Humans: A Multimedia Perspective and the Importance of Biotransformation. Environmental Science & Technology, 2011, 45, 197-202.	4.6	49
69	The Application of Fugacity and Activity to Simulating the Environmental Fate of Organic Contaminants. Journal of Chemical & Engineering Data, 2011, 56, 1348-1355.	1.0	39
70	Toward a Consistent Evaluative Framework for POP Risk Characterization. Environmental Science & Technology, 2011, 45, 97-103.	4.6	24
71	Hexabromocyclododecane: Current Understanding of Chemistry, Environmental Fate and Toxicology and Implications for Global Management. Environmental Science & Technology, 2011, 45, 8613-8623.	4.6	277
72	Dechlorane Plus and Related Compounds in the Environment: A Review. Environmental Science & Technology, 2011, 45, 5088-5098.	4.6	330

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73	Chemical activity as an integrating concept in environmental assessment and management of contaminants. Integrated Environmental Assessment and Management, 2011, 7, 248-255.	1.6	38
74	Molecular size cutoff criteria for screening bioaccumulation potential: Fact or fiction?. Integrated Environmental Assessment and Management, 2010, 6, 210-224.	1.6	46
75	Multimedia modeling of human exposure to chemical substances: The roles of food web biomagnification and biotransformation. Environmental Toxicology and Chemistry, 2010, 29, 45-55.	2.2	40
76	Food web bioaccumulation model for polychlorinated biphenyls in San Francisco Bay, California, USA. Environmental Toxicology and Chemistry, 2010, 29, 1385-1395.	2.2	61
77	Estimating farfield organic chemical exposures, intake rates and intake fractions to human age classes. Environmental Modelling and Software, 2010, 25, 1166-1175.	1.9	5
78	MODELING BIOACCUMULATION USING CHARACTERISTIC TIMES. Environmental Toxicology and Chemistry, 2009, 28, 272.	2.2	3
79	A quantitative structure–activity relationship for predicting metabolic biotransformation rates for organic chemicals in fish. Environmental Toxicology and Chemistry, 2009, 28, 1168-1177.	2.2	128
80	A CAUTIONARY NOTE ON IMPLICATIONS OF THE WELL-MIXED COMPARTMENT ASSUMPTION AS APPLIED TO MASS BALANCE MODELS OF CHEMICAL FATE IN FLOWING SYSTEMS. Environmental Toxicology and Chemistry, 2009, 28, 1858.	2.2	15
81	Modeling Exposure to Persistent Chemicals in Hazard and Risk Assessment. Integrated Environmental Assessment and Management, 2009, 5, 662.	1.6	40
82	The Evolution and Future of Environmental Fugacity Models. Emerging Topics in Ecotoxicology, 2009, , 355-375.	1.5	12
83	Mass Balance Models for Chemical Fate, Bioaccumulation, Exposure and Risk Assessment. NATO Science for Peace and Security Series C: Environmental Security, 2009, , 69-91.	0.1	3
84	Exposure and Risk Assessment Modeling to Screen and Prioritize Commercial Chemical Inventories. NATO Science for Peace and Security Series C: Environmental Security, 2009, , 93-109.	0.1	0
85	Estimating metabolic biotransformation rates in fish from laboratory data. Environmental Toxicology and Chemistry, 2008, 27, 341-351.	2.2	121
86	A database of fish biotransformation rates for organic chemicals. Environmental Toxicology and Chemistry, 2008, 27, 2263-2270.	2.2	118
87	Guidance for evaluating in vivo fish bioaccumulation data. Integrated Environmental Assessment and Management, 2008, 4, 139-155.	1.6	46
88	Policies for Chemical Hazard and Risk Priority Setting: Can Persistence, Bioaccumulation, Toxicity, and Quantity Information Be Combined?. Environmental Science & Technology, 2008, 42, 4648-4654.	4.6	133
89	Screening Level Risk Assessment Model for Chemical Fate and Effects in the Environment. Environmental Science & Technology, 2006, 40, 2316-2323.	4.6	119
90	A review of bioconcentration factor (BCF) and bioaccumulation factor (BAF) assessments for organic chemicals in aquatic organisms. Environmental Reviews, 2006, 14, 257-297.	2.1	1,013

#	ARTICLE	IF	CITATIONS
91	A FOOD WEB BIOACCUMULATION MODEL FOR ORGANIC CHEMICALS IN AQUATIC ECOSYSTEMS. Environmental Toxicology and Chemistry, 2004, 23, 2343.	2.2	437