

Katrine Borga

List of Publications by Year in descending order

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98
papers

3,818
citations

126858

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#	ARTICLE	IF	CITATIONS
1	BIOLOGICAL AND CHEMICAL FACTORS OF IMPORTANCE IN THE BIOACCUMULATION AND TROPHIC TRANSFER OF PERSISTENT ORGANOCHLORINE CONTAMINANTS IN ARCTIC MARINE FOOD WEBS. <i>Environmental Toxicology and Chemistry</i> , 2004, 23, 2367.	2.2	383
2	Trophic magnification factors: Considerations of ecology, ecosystems, and study design. <i>Integrated Environmental Assessment and Management</i> , 2012, 8, 64-84.	1.6	365
3	Food Web Magnification of Persistent Organic Pollutants in Poikilotherms and Homeotherms from the Barents Sea. <i>Environmental Science & Technology</i> , 2002, 36, 2589-2597.	4.6	229
4	Past, Present, and Future Controls on Levels of Persistent Organic Pollutants in the Global Environment. <i>Environmental Science & Technology</i> , 2010, 44, 6526-6531.	4.6	214
5	Volatile Siloxanes in the European Arctic: Assessment of Sources and Spatial Distribution. <i>Environmental Science & Technology</i> , 2010, 44, 7705-7710.	4.6	125
6	Biological Pump Control of the Fate and Distribution of Hydrophobic Organic Pollutants in Water and Plankton. <i>Environmental Science & Technology</i> , 2012, 46, 3204-3211.	4.6	119
7	Bioaccumulation of PCBs in Arctic seabirds: influence of dietary exposure and congener biotransformation. <i>Environmental Pollution</i> , 2005, 134, 397-409.	3.7	94
8	Use of trophic magnification factors and related measures to characterize bioaccumulation potential of chemicals. <i>Integrated Environmental Assessment and Management</i> , 2012, 8, 85-97.	1.6	87
9	Food Web Accumulation of Cyclic Siloxanes in Lake Mjøsa, Norway. <i>Environmental Science & Technology</i> , 2012, 46, 6347-6354.	4.6	83
10	Evaluation of Bioaccumulation Using In Vivo Laboratory and Field Studies. <i>Integrated Environmental Assessment and Management</i> , 2009, 5, 598-623.	1.6	81
11	Consistency in Trophic Magnification Factors of Cyclic Methyl Siloxanes in Pelagic Freshwater Food Webs Leading to Brown Trout. <i>Environmental Science & Technology</i> , 2013, 47, 14394-14402.	4.6	78
12	Bioaccumulation Factors for PCBs Revisited. <i>Environmental Science & Technology</i> , 2005, 39, 4523-4532.	4.6	75
13	Seasonality in contaminant accumulation in Arctic marine pelagic food webs using trophic magnification factor as a measure of bioaccumulation. <i>Environmental Toxicology and Chemistry</i> , 2011, 30, 1026-1035.	2.2	71
14	Essential and non-essential element concentrations in two sleeper shark species collected in arctic waters. <i>Environmental Pollution</i> , 2007, 148, 281-290.	3.7	70
15	Simulating climate change-induced alterations in bioaccumulation of organic contaminants in an Arctic marine food web. <i>Environmental Toxicology and Chemistry</i> , 2010, 29, 1349-1357.	2.2	63
16	Influence of wintering area on persistent organic pollutants in a breeding migratory seabird. <i>Marine Ecology - Progress Series</i> , 2013, 491, 277-293.	0.9	63
17	REGIONAL AND SPECIES SPECIFIC BIOACCUMULATION OF MAJOR AND TRACE ELEMENTS IN ARCTIC SEABIRDS. <i>Environmental Toxicology and Chemistry</i> , 2006, 25, 2927.	2.2	62
18	Strongly increasing blood concentrations of lipid-soluble organochlorines in high arctic common eiders during incubation fast. <i>Chemosphere</i> , 2010, 79, 320-325.	4.2	59

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19	A comparison of PCB bioaccumulation factors between an arctic and a temperate marine food web. <i>Science of the Total Environment</i> , 2010, 408, 2753-2760.	3.9	56
20	Improving the Quality and Scientific Understanding of Trophic Magnification Factors (TMFs). <i>Environmental Science & Technology</i> , 2013, 47, 1186-1187.	4.6	54
21	Methylmercury biomagnification in an Arctic pelagic food web. <i>Environmental Toxicology and Chemistry</i> , 2015, 34, 2636-2643.	2.2	53
22	Differences between Arctic and Atlantic fjord systems on bioaccumulation of persistent organic pollutants in zooplankton from Svalbard. <i>Science of the Total Environment</i> , 2011, 409, 2783-2795.	3.9	50
23	Individual variation in biomarkers of health: Influence of persistent organic pollutants in Great skuas (<i>Stercorarius skua</i>) breeding at different geographical locations. <i>Environmental Research</i> , 2012, 118, 31-39.	3.7	46
24	Influence of season, location, and feeding strategy on bioaccumulation of halogenated organic contaminants in Arctic marine zooplankton. <i>Environmental Toxicology and Chemistry</i> , 2011, 30, 77-87.	2.2	45
25	Geographic distribution of selected elements in the livers of polar bears from Greenland, Canada and the United States. <i>Environmental Pollution</i> , 2008, 153, 618-626.	3.7	42
26	Practical advice for selecting or determining trophic magnification factors for application under the European Union Water Framework Directive. <i>Integrated Environmental Assessment and Management</i> , 2019, 15, 266-277.	1.6	42
27	Maternal transfer of perfluoroalkyl substances in hooded seals. <i>Environmental Toxicology and Chemistry</i> , 2017, 36, 763-770.	2.2	41
28	Enantiomer Fractions of Organic Chlorinated Pesticides in Arctic Marine Ice Fauna, Zooplankton, and Benthos. <i>Environmental Science & Technology</i> , 2005, 39, 3464-3473.	4.6	40
29	Halogenated organic contaminants and mercury in northern fulmars (<i>Fulmarus glacialis</i>): levels, relationships to dietary descriptors and blood to liver comparison. <i>Environmental Pollution</i> , 2007, 146, 25-33.	3.7	40
30	Quantifying uncertainty in the trophic magnification factor related to spatial movements of organisms in a food web. <i>Integrated Environmental Assessment and Management</i> , 2015, 11, 306-318.	1.6	37
31	Perfluorinated, brominated, and chlorinated contaminants in a population of lesser black-backed gulls (<i>Larus fuscus</i>). <i>Environmental Toxicology and Chemistry</i> , 2008, 27, 1383-1392.	2.2	36
32	Temporal Dynamics of Circulating Persistent Organic Pollutants in a Fasting Seabird under Different Environmental Conditions. <i>Environmental Science & Technology</i> , 2012, 46, 10287-10294.	4.6	36
33	Effects of environmental exposure and diet on levels of persistent organic pollutants (POPs) in eggs of a top predator in the North Atlantic in 1980 and 2008. <i>Environmental Pollution</i> , 2011, 159, 1222-1228.	3.7	33
34	New brominated flame retardants and dechlorane plus in the Arctic: Local sources and bioaccumulation potential in marine benthos. <i>Chemosphere</i> , 2018, 211, 1193-1202.	4.2	33
35	The influence of global climate change on accumulation and toxicity of persistent organic pollutants and chemicals of emerging concern in Arctic food webs. <i>Environmental Sciences: Processes and Impacts</i> , 2022, 24, 1544-1576.	1.7	33
36	Dietary versus Maternal Sources of Organochlorines in Top Predator Seabird Chicks: An Experimental Approach. <i>Environmental Science & Technology</i> , 2013, 47, 5963-5970.	4.6	31

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37	Multiple Stressors in a Top Predator Seabird: Potential Ecological Consequences of Environmental Contaminants, Population Health and Breeding Conditions. PLoS ONE, 2015, 10, e0131769.	1.1	31
38	Comparing measured and predicted PCB concentrations in Arctic seawater and marine biota. Science of the Total Environment, 2005, 342, 281-300.	3.9	28
39	Latitudinal Distribution of Persistent Organic Pollutants in Pelagic and Demersal Marine Fish on the Norwegian Coast. Environmental Science & Technology, 2012, 46, 7836-7843.	4.6	27
40	Trophic Magnification of Legacy (PCB, DDT and Hg) and Emerging Pollutants (PFAS) in the Fish Community of a Small Protected Southern Alpine Lake (Lake Mergozzo, Northern Italy). Water (Switzerland), 2020, 12, 1591.	1.2	27
41	Isotopic niche differs between seal and fish-eating killer whales (<i>Orcinus orca</i>) in northern Norway. Ecology and Evolution, 2020, 10, 4115-4127.	0.8	27
42	Perfluoroalkyl substances in eggs and plasma of an avian top predator, great skua (<i>Stercorarius</i>)	2.2	26
43	Estimating Trophic Levels and Trophic Magnification Factors Using Bayesian Inference. Environmental Science & Technology, 2013, 47, 11599-11606.	4.6	24
44	Terrestrial organic matter increases zooplankton methylmercury accumulation in a brown-water boreal lake. Science of the Total Environment, 2019, 674, 9-18.	3.9	22
45	Potential Effect of Migration Strategy on Pollutant Occurrence in Eggs of Arctic Breeding Barnacle Geese (<i>Branta leucopsis</i>). Environmental Science & Technology, 2019, 53, 5427-5435.	4.6	21
46	Organohalogen contaminants and Blood plasma clinical-chemical parameters in three colonies of North Atlantic Great skua (<i>Stercorarius skua</i>). Ecotoxicology and Environmental Safety, 2013, 92, 245-251.	2.9	20
47	Individual variability in contaminants and physiological status in a resident Arctic seabird species. Environmental Pollution, 2019, 249, 191-199.	3.7	20
48	Size-related bioaccumulation and between-year variation of organochlorines in ice-associated amphipods from the Arctic Ocean. Chemosphere, 2002, 46, 1383-1392.	4.2	19
49	Why Do Organochlorine Differences between Arctic Regions Vary among Trophic Levels?. Environmental Science & Technology, 2005, 39, 4343-4352.	4.6	19
50	Effect of diet, location and sampling year on bioaccumulation of mercury, selenium and cadmium in pelagic feeding seabirds in Svalbard. Chemosphere, 2015, 122, 14-22.	4.2	19
51	Preying on seals pushes killer whales from Norway above pollution effects thresholds. Scientific Reports, 2020, 10, 11888.	1.6	19
52	High Levels of Legacy and Emerging Contaminants in Killer Whales (<i>Orcinus orca</i>) from Norway, 2015 to 2017. Environmental Toxicology and Chemistry, 2021, 40, 1848-1858.	2.2	19
53	Maternal transfer and occurrence of siloxanes, chlorinated paraffins, metals, PFAS and legacy POPs in herring gulls (<i>Larus argentatus</i>) of different urban influence. Environment International, 2021, 152, 106478.	4.8	19
54	Additive Models Reveal Sources of Metals and Organic Pollutants in Norwegian Marine Sediments. Environmental Science & Technology, 2017, 51, 12764-12773.	4.6	18

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55	Elevated Mobility of Persistent Organic Pollutants in the Soil of a Tropical Rainforest. <i>Environmental Science & Technology</i> , 2015, 49, 4302-4309.	4.6	16
56	Effects of Maternal Reproductive Investment on Sex-Specific Pollutant Accumulation in Seabirds: A Meta-Analysis. <i>Environmental Science & Technology</i> , 2019, 53, 7821-7829.	4.6	16
57	The Occurrence of Organochlorines in Marine Avian Top Predators along a Latitudinal Gradient. <i>Environmental Science & Technology</i> , 2006, 40, 5139-5146.	4.6	15
58	The effect of long-range transport, trophic position and diet specialization on legacy contaminant occurrence in great skuas, <i>Stercorarius skua</i> , breeding across the Northeast Atlantic. <i>Environmental Pollution</i> , 2019, 244, 55-65.	3.7	15
59	Toxic and essential elements changed in black-legged kittiwakes (<i>Rissa tridactyla</i>) during their stay in an Arctic breeding area. <i>Science of the Total Environment</i> , 2015, 502, 548-556.	3.9	13
60	DNA damage in Arctic seabirds: Baseline, sensitivity to a genotoxic stressor, and association with organohalogen contaminants. <i>Environmental Toxicology and Chemistry</i> , 2018, 37, 1084-1091.	2.2	13
61	Predation Risk Potentiates Toxicity of a Common Metal Contaminant in a Coastal Copepod. <i>Environmental Science & Technology</i> , 2018, 52, 13535-13542.	4.6	13
62	Implications of Coastal Darkening for Contaminant Transport, Bioavailability, and Trophic Transfer in Northern Coastal Waters. <i>Environmental Science & Technology</i> , 2019, 53, 7180-7182.	4.6	13
63	Polyaromatic hydrocarbons, chlorinated and brominated organic contaminants as tracers of feeding ecology in polar benthic amphipods. <i>Marine Ecology - Progress Series</i> , 2007, 337, 155-164.	0.9	13
64	Relationship between persistent halogenated organic contaminants and TCDD-toxic equivalents on EROD activity and retinoid and thyroid hormone status in northern fulmars. <i>Science of the Total Environment</i> , 2010, 408, 6117-6123.	3.9	12
65	Effects of a complex contaminant mixture on thyroid hormones in breeding hooded seal mothers and their pups. <i>Environmental Pollution</i> , 2018, 240, 10-16.	3.7	11
66	Seabird-Transported Contaminants Are Reflected in the Arctic Tundra, But Not in Its Soil-Dwelling Springtails (<i>Collembola</i>). <i>Environmental Science & Technology</i> , 2019, 53, 12835-12845.	4.6	11
67	In vivo bioaccumulation of contaminants from historically polluted sediments – Relation to bioavailability estimates. <i>Science of the Total Environment</i> , 2013, 442, 336-343.	3.9	10
68	Within and between breeding-season changes in contaminant occurrence and body condition in the Antarctic breeding south polar skua. <i>Environmental Pollution</i> , 2021, 284, 117434.	3.7	10
69	Spatial trends of chlorinated paraffins and dechloranes in air and soil in a tropical urban, suburban, and rural environment. <i>Environmental Pollution</i> , 2022, 292, 118298.	3.7	10
70	Persistent organic pollutant concentrations in fledglings of two arctic seabird species. <i>Environmental Pollution</i> , 2014, 184, 414-418.	3.7	9
71	Effects on Life-History Traits of <i>Hypogastrura viatica</i> (<i>Collembola</i>) Exposed to Imidacloprid Through Soil or Diet. <i>Environmental Toxicology and Chemistry</i> , 2021, 40, 3111-3122.	2.2	9
72	Biomagnification. <i>Marine Pollution Bulletin</i> , 2003, 46, 522-524.	2.3	8

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73	Genotoxic Response and Mortality in 3 Marine Copepods Exposed to Waterborne Copper. <i>Environmental Toxicology and Chemistry</i> , 2019, 38, 2224-2232.	2.2	8
74	The Arctic ecosystem: A canary in the coal mine for global multiple stressors. <i>Environmental Toxicology and Chemistry</i> , 2019, 38, 487-488.	2.2	8
75	Common Eider and Herring Gull as Contaminant Indicators of Different Ecological Niches of an Urban Fjord System. <i>Integrated Environmental Assessment and Management</i> , 2021, 17, 422-433.	1.6	8
76	Seasonal rainfall affects occurrence of organohalogen contaminants in tropical marine fishes and prawns from Zanzibar, Tanzania. <i>Science of the Total Environment</i> , 2021, 774, 145652.	3.9	8
77	Critical evaluation of a new passive exchange-meter for assessing multimedia fate of persistent organic pollutants at the air-soil interface. <i>Environmental Pollution</i> , 2013, 181, 144-150.	3.7	7
78	Mercury in Barents Sea fish in the Arctic polar night: Species and spatial comparison. <i>Marine Pollution Bulletin</i> , 2021, 169, 112501.	2.3	7
79	Effects of reproductive strategies on pollutant concentrations in pinnipeds: a meta-analysis. <i>Oikos</i> , 2017, 126, 772-781.	1.2	6
80	Assessing Air-Surface Exchange and Fate of Mercury in a Subtropical Forest Using a Novel Passive Exchange-Meter Device. <i>Environmental Science & Technology</i> , 2019, 53, 4869-4879.	4.6	6
81	An affordable and automated imaging approach to acquire highly resolved individual data—an example of copepod growth in response to multiple stressors. <i>PeerJ</i> , 2019, 7, e6776.	0.9	6
82	Increasing Trends of Legacy and Emerging Organic Contaminants in a Dated Sediment Core From East-Africa. <i>Frontiers in Environmental Science</i> , 2022, 9, .	1.5	6
83	Small Arctic rivers transport legacy contaminants from thawing catchments to coastal areas in Kongsfjorden, Svalbard. <i>Environmental Pollution</i> , 2022, 304, 119191.	3.7	6
84	Mercury in air and soil on an urban-rural transect in East Africa. <i>Environmental Sciences: Processes and Impacts</i> , 2022, , .	1.7	6
85	Improving Data Reporting in Ecotoxicological Studies. <i>Environmental Science & Technology</i> , 2018, 52, 8061-8062.	4.6	5
86	Partitioning of persistent hydrophobic contaminants to different storage lipid classes. <i>Chemosphere</i> , 2021, 263, 127890.	4.2	5
87	Is Glacial Meltwater a Secondary Source of Legacy Contaminants to Arctic Coastal Food Webs?. <i>Environmental Science & Technology</i> , 2022, 56, 6337-6348.	4.6	5
88	Comparison of organochlorine concentrations and patterns between free-ranging zooplankton and zooplankton sampled from seabirds'™ stomachs. <i>Chemosphere</i> , 2003, 53, 685-689.	4.2	4
89	Identification of the most influential factors in the Norwegian guidelines for risk assessment of dispersion of contaminants from sediments. <i>Integrated Environmental Assessment and Management</i> , 2011, 7, 657-667.	1.6	4
90	Quantifying Bioaccumulation in the Aquatic Environment. <i>Methods in Pharmacology and Toxicology</i> , 2019, , 1.	0.1	4

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91	A Multiple Lifeâ€History Traitâ€Based and Timeâ€Resolved Assessment of Imidacloprid Effects and Recovery in the Widely Distributed Collembolan <i>Folsomia quadrioculata</i> . <i>Environmental Toxicology and Chemistry</i> , 2021, 40, 139-147.	2.2	4
92	Bioaccumulation of Per and Polyfluoroalkyl Substances in Antarctic Breeding South Polar Skuas (<i>Catharacta maccormicki</i>) and Their Prey. <i>Frontiers in Marine Science</i> , 2022, 9, .	1.2	4
93	Seasonal pollutant levels in littoral high-Arctic amphipods in relation to food sources and terrestrial run-off. <i>Environmental Pollution</i> , 2022, 306, 119361.	3.7	4
94	Spatial Variation in Contaminant Occurrence in Marine Fishes and Prawns from Coastal Tanzania. <i>Environmental Toxicology and Chemistry</i> , 2022, 41, 321-333.	2.2	2
95	Contrasting Effects of Predation Risk and Copper on Copepod Respiration Rates. <i>Environmental Toxicology and Chemistry</i> , 2020, 39, 1765-1773.	2.2	1
96	Densityâ€Dependent Metabolic Costs of Copper Exposure in a Coastal Copepod. <i>Environmental Toxicology and Chemistry</i> , 2021, 40, 2538-2546.	2.2	1
97	Analysing individual growth curves for the copepod <i>Tigriopus brevicornis</i> , while considering changes in shape. <i>Journal of Sea Research</i> , 2021, 174, 102075.	0.6	1
98	Withinâ€Body Distributions and Feeding Effects of the Neonicotinoid Insecticide Clothianidin in Bumblebees (<i>Bombus terrestris</i>). <i>Environmental Toxicology and Chemistry</i> , 2021, 40, 2781-2790.	2.2	1