Catherine K King

List of Publications by Year
in descending order

74 papers	2,759 citations	218592 26 h-index	189801 50 g-index
74 all docs	74 docs citations	74 times ranked	3306 citing authors

#	Article	IF	Citations
1	Turning microplastics into nanoplastics through digestive fragmentation by Antarctic krill. Nature Communications, 2018, 9, 1001.	5.8	632
2	Management and remediation of contaminated sites at Casey Station, Antarctica. Polar Record, 2001, 37, 199-214.	0.4	160
3	Uptake and Depuration Kinetics Influence Microplastic Bioaccumulation and Toxicity in Antarctic Krill (Euphausia superba). Environmental Science & Technology, 2018, 52, 3195-3201.	4.6	129
4	Effects of metal contaminants on the development of the common Antarctic sea urchin Sterechinus neumayeri and comparisons of sensitivity with tropical and temperate echinoids. Marine Ecology - Progress Series, 2001, 215, 143-154.	0.9	102
5	Reproductive potential of a marine ecosystem engineer at the edge of a newly expanded range. Global Change Biology, 2008, 14, 907-915.	4.2	98
6	An Antarctic Research Station as a Source of Brominated and Perfluorinated Persistent Organic Pollutants to the Local Environment. Environmental Science & Technology, 2015, 49, 103-112.	4.6	93
7	Sensitivities of Australian and New Zealand amphipods to copper and zinc in waters and metal-spiked sediments. Chemosphere, 2006, 63, 1466-1476.	4.2	79
8	Vulnerability of the calcifying larval stage of the Antarctic sea urchin Sterechinus neumayeri to nearâ€future ocean acidification and warming. Global Change Biology, 2013, 19, 2264-2275.	4.2	77
9	Combined effects of two ocean change stressors, warming and acidification, on fertilization and early development of the Antarctic echinoid Sterechinus neumayeri. Polar Biology, 2012, 35, 1027-1034.	0.5	71
10	Exposure-Pathway Models Explain Causality in Whole-Sediment Toxicity Tests. Environmental Science & Technology, 2005, 39, 837-843.	4.6	69
11	An Assessment of Five Australian Polychaetes and Bivalves for Use in Whole-Sediment Toxicity Tests: Toxicity and Accumulation of Copper and Zinc from Water and Sediment. Archives of Environmental Contamination and Toxicology, 2004, 47, 314-23.	2.1	63
12	Short-term accumulation of Cd and Cu from water, sediment and algae by the amphipod Melita plumulosa and the bivalve Tellina deltoidalis. Marine Ecology - Progress Series, 2005, 287, 177-188.	0.9	59
13	Phytoremediation of hydrocarbon contaminants in subantarctic soils: An effective management option. Journal of Environmental Management, 2014, 142, 60-69.	3.8	50
14	The environmental impact of sewage and wastewater outfalls in Antarctica: An example from Davis station, East Antarctica. Water Research, 2016, 105, 602-614.	5.3	48
15	LABORATORY CULTURE AND LIFE-CYCLE EXPERIMENTS WITH THE BENTHIC AMPHIPOD MELITA PLUMULOSA (ZEIDLER). Environmental Toxicology and Chemistry, 2005, 24, 2065.	2.2	47
16	Effects of ocean acidification on Antarctic marine organisms: A metaâ€analysis. Ecology and Evolution, 2020, 10, 4495-4514.	0.8	39
17	CHRONIC SUBLETHAL SEDIMENT TOXICITY TESTING USING THE ESTUARINE AMPHIPOD, MELITA PLUMULOSA (ZEIDLER): EVALUATION USING METAL-SPIKED AND FIELD-CONTAMINATED SEDIMENTS. Environmental Toxicology and Chemistry, 2006, 25, 1887.	2.2	37
18	Ecosystem effects and the management of petroleum-contaminated soils on subantarctic islands. Chemosphere, 2018, 194, 200-210.	4.2	36

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19	Acute toxicity and bioaccumulation of aqueous and sediment-bound metals in the estuarine amphipodMelita plumulosa. Environmental Toxicology, 2006, 21, 489-504.	2.1	35
20	Chronic toxicity of five metals to the polar marine microalga Cryothecomonas armigera â€“ Application of a new bioassay. Environmental Pollution, 2017, 228, 211-221.	3.7	34
21	Contaminated suspended sediments toxic to an Antarctic filter feeder: Aqueousâ€•and particulateâ€phase effects. Environmental Toxicology and Chemistry, 2009, 28, 409-417.	2.2	33
22	Larval development and metamorphosis of the Australian diadematid sea urchinCentrostephanus rodgersii. Invertebrate Reproduction and Development, 2005, 47, 197-204.	0.3	32
23	Physical, chemical, biological and ecotoxicological properties of wastewater discharged from Davis Station, Antarctica. Cold Regions Science and Technology, 2015, 113, 52-62.	1.6	32
24	Sensitivity and response time of three common Antarctic marine copepods to metal exposure. Chemosphere, 2015, 120, 267-272.	4.2	31
25	Microfluidic qPCR Enables High Throughput Quantification of Microbial Functional Genes but Requires Strict Curation of Primers. Frontiers in Environmental Science, 2018, 6, .	1.5	31
26	Chronic toxicity of an environmentally relevant and equitoxic ratio of five metals to two Antarctic marine microalgae shows complex mixture interactivity. Environmental Pollution, 2018, 242, 1319-1330.	3.7	29
27	Temporal changes in the sensitivity of coastal Antarctic zooplankton communities to diesel fuel: A comparison between singleâ€•and multiâ€species toxicity tests. Environmental Toxicology and Chemistry, 2014, 33, 882-890.	2.2	27
28	Assessing fuel spill risks in polar waters: Temporal dynamics and behaviour of hydrocarbons from Antarctic diesel, marine gas oil and residual fuel oil. Marine Pollution Bulletin, 2016, 110, 343-353.	2.3	26
29	Effects of ocean warming and acidification on fertilization in the Antarctic echinoid Sterechinus neumayeri across a range of sperm concentrations. Marine Environmental Research, 2013, 90, 136-141.	1.1	25
30	A robust bioassay to assess the toxicity of metals to the Antarctic marine microalga Phaeocystis antarctica. Environmental Toxicology and Chemistry, 2015, 34, 1578-1587.	2.2	25
31	Dispersal and dilution of wastewater from an ocean outfall at Davis Station, Antarctica, and resulting environmental contamination. Chemosphere, 2016, 152, 142-157.	4.2	25
32	Toxicity of Metals to the Bivalve Tellina deltoidalis and Relationships Between Metal Bioaccumulation and Metal Partitioning Between Seawater and Marine Sediments. Archives of Environmental Contamination and Toxicology, 2010, 58, 657-665.	2.1	23
33	Fuel oil and dispersant toxicity to the Antarctic sea urchin (Sterechinus neumayeri). Environmental Toxicology and Chemistry, 2017, 36, 1563-1571.	2.2	23
34	The influence of vegetation and soil properties on springtail communities in a diesel-contaminated soil. Science of the Total Environment, 2018, 619-620, 1098-1104.	3.9	22
35	Toxicity of diesel contaminated soils to the subantarctic earthworm Microscolex macquariensis. Environmental Toxicology and Chemistry, 2013, 32, 370-377.	2.2	21
36	Sensitivity of six subantarctic marine invertebrates to common metal contaminants. Environmental Toxicology and Chemistry, 2016, 35, 2245-2251.	2.2	20

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37	Impact of hydrocarbons from a diesel fuel on the germination and early growth of subantarctic plants. Environmental Sciences: Processes and Impacts, 2015, 17, 1238-1248.	1.7	19
38	Comparative copper sensitivity between life stages of common subantarctic marine invertebrates. Environmental Toxicology and Chemistry, 2018, 37, 807-815.	2.2	19
39	Diffusive Gradients in Thin Films Can Predict the Toxicity of Metal Mixtures to Two Microalgae: Validation for Environmental Monitoring in Antarctic Marine Conditions. Environmental Toxicology and Chemistry, 2019, 38, 1323-1333.	2.2	19
40	Basal tolerance but not plasticity gives invasive springtails the advantage in an assemblage setting. , 2020, 8, coaa049.		19
41	Direct evidence of histopathological impacts of wastewater discharge on resident Antarctic fish () Tj ETQq1 1 0.784314 rgBT /Overlock	2.3	18
42	Toxicity of fuelâ€contaminated soil to Antarctic moss and terrestrial algae. Environmental Toxicology and Chemistry, 2015, 34, 2004-2012.	2.2	18
43	Increased sensitivity of subantarctic marine invertebrates to copper under a changing climate - Effects of salinity and temperature. Environmental Pollution, 2019, 249, 54-62.	3.7	17
44	Preliminary study of cellular metal accumulation in two Antarctic marine microalgae â€“ implications for mixture interactivity and dietary risk. Environmental Pollution, 2019, 252, 1582-1592.	3.7	15
45	Assessing the Risk of Metals and Their Mixtures in the Antarctic Nearshore Marine Environment with Diffusive Gradients in Thin-Films. Environmental Science & Technology, 2020, 54, 306-315.	4.6	14
46	Behavioural sensitivity of a key Southern Ocean species (Antarctic krill, Euphausia superba) to p,pâ€²-DDE exposure. Ecotoxicology and Environmental Safety, 2012, 75, 163-170.	2.9	13
47	Determining the sensitivity of the Antarctic amphipod Orchomenella pinguides to metals using a joint model of survival response to exposure concentration and duration. Ecotoxicology, 2015, 24, 583-594.	1.1	13
48	Application of a quantitative histological health index for Antarctic rock cod (Trematomus) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 302 Td	1.1	12
49	The use of microbial gene abundance in the development of fuel remediation guidelines in polar soils. Integrated Environmental Assessment and Management, 2015, 11, 235-241.	1.6	12
50	Soil invertebrate community change over fuelâ€contaminated sites on a subantarctic island: An ecological fieldâ€based line of evidence for site risk assessment. Integrated Environmental Assessment and Management, 2016, 12, 306-314.	1.6	12
51	Physico-chemical changes in metal-spiked sediments deployed in the field: Implications for the interpretation of in situ studies. Chemosphere, 2011, 83, 400-408.	4.2	11
52	Lethal and behavioral impacts of diesel and fuel oil on the Antarctic amphipod Paramoera walkeri. Environmental Toxicology and Chemistry, 2017, 36, 2444-2455.	2.2	11
53	Sensitivity of a Large and Representative Sample of Antarctic Marine Invertebrates to Metals. Environmental Toxicology and Chemistry, 2019, 38, 1560-1568.	2.2	11
54	Tracking spatial distribution of human-derived wastewater from Davis Station, East Antarctica, using Î´15N and Î´13C stable isotopes. Marine Pollution Bulletin, 2015, 90, 41-47.	2.3	10

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55	Toxicity of copper to three common subantarctic marine gastropods. Ecotoxicology and Environmental Safety, 2017, 136, 70-77.	2.9	10
56	Application of a Bayesian nonparametric model to derive toxicity estimates based on the response of Antarctic microbial communities to fuelâ€contaminated soil. Ecology and Evolution, 2015, 5, 2633-2645.	0.8	9
57	Applying microbial indicators of hydrocarbon toxicity to contaminated sites undergoing bioremediation on subantarctic Macquarie Island. Environmental Pollution, 2020, 259, 113780.	3.7	9
58	Abundance and diversity of soil invertebrates in the Windmill Islands region, East Antarctica. Polar Biology, 2015, 38, 1391-1400.	0.5	8
59	Oil Pollution in Antarctica. , 2017, , 759-803.		8
60	Sensitivity to Copper and Development of Culturing and Toxicity Test Procedures for the Antarctic Terrestrial NematodePlectus murrayi. Environmental Toxicology and Chemistry, 2020, 39, 482-491.	2.2	8
61	Seawater temperature effect on metal accumulation and toxicity in the subantarctic Macquarie Island isopod, Exosphaeroma gigas. Aquatic Toxicology, 2016, 177, 333-342.	1.9	7
62	Assessing metal contaminants in Antarctic soils using diffusive gradients in thin-films. Chemosphere, 2021, 269, 128675.	4.2	7
63	Response of stream invertebrate communities to vegetation damage from overgrazing by exotic rabbits on subantarctic Macquarie Island. Marine and Freshwater Research, 2011, 62, 404.	0.7	6
64	Reproduction, growth and early life history of the Antarctic gammarid amphipod Paramoera walkeri. Polar Biology, 2015, 38, 1583-1596.	0.5	6
65	Complex genetic structure revealed in the circum-Antarctic broadcast spawning sea urchin Sterechinus neumayeri. Marine Ecology - Progress Series, 2018, 601, 153-166.	0.9	5
66	Modelling grouped survival times in toxicological studies using Generalized Additive Models. Environmental and Ecological Statistics, 2015, 22, 465-491.	1.9	4
67	Integrated Modeling of Survival Data from Multiple Stressor Ecotoxicology Experiments. Environmental Science & Technology, 2017, 51, 7271-7277.	4.6	4
68	Impacts of Petroleum Fuels on Fertilization and Development of the Antarctic Sea UrchinSterechinus neumayeri. Environmental Toxicology and Chemistry, 2020, 39, 2527-2539.	2.2	4
69	The microalgaPhaeocystis antarcticais tolerant to salinity and metal mixture toxicity interactions. Environmental Sciences: Processes and Impacts, 2021, 23, 1362-1375.	1.7	4
70	Preliminary investigation of effects of copper on a terrestrial population of the antarctic rotifer Philodina sp.. Chemosphere, 2022, 300, 134413.	4.2	4
71	Response of the Native Springtail Parisotoma insularis to Diesel Fuelâ€“Contaminated Soils Under Fieldâ€Realistic Exposure Conditions at Subantarctic Macquarie Island. Integrated Environmental Assessment and Management, 2019, 15, 565-574.	1.6	3
72	Metal lability and environmental risk in anthropogenically disturbed Antarctic melt streams. Environmental Pollution, 2021, 287, 117627.	3.7	3

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73	Using an expert judgment response matrix to assess the risk of groundwater discharges from remediated fuel spill sites to the marine environment at subâ€Antarctic Macquarie Island, Australia. Integrated Environmental Assessment and Management, 2021, 17, 785-801.	1.6	2
74	Population structure and long-term decline in three species of heart urchins Abatus spp. near-shore in the Vestfold Hills region, East Antarctica. Marine Ecology - Progress Series, 2016, 545, 227-238.	0.9	2