

# J C Xavier

## List of Publications by Year in descending order

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Version: 2024-02-01

116  
papers

4,191  
citations

126708

33  
h-index

128067

60  
g-index

119  
all docs

119  
docs citations

119  
times ranked

3983  
citing authors

#	ARTICLE	IF	CITATIONS
1	Climate change and Southern Ocean ecosystems I: how changes in physical habitats directly affect marine biota. <i>Global Change Biology</i> , 2014, 20, 3004-3025.	4.2	448
2	EFFECTS OF SATELLITE TRANSMITTERS ON ALBATROSSES AND PETRELS. <i>Auk</i> , 2003, 120, 1082.	0.7	445
3	The Southern Ocean ecosystem under multiple climate change stresses –an integrated circumpolar assessment. <i>Global Change Biology</i> , 2015, 21, 1434-1453.	4.2	190
4	Choosing the future of Antarctica. <i>Nature</i> , 2018, 558, 233-241.	13.7	172
5	Microplastics in gentoo penguins from the Antarctic region. <i>Scientific Reports</i> , 2019, 9, 14191.	1.6	156
6	Tracking of marine predators to protect Southern Ocean ecosystems. <i>Nature</i> , 2020, 580, 87-92.	13.7	156
7	Patterns in the distribution of myctophid fish in the northern Scotia Sea ecosystem. <i>Polar Biology</i> , 2008, 31, 837-851.	0.5	112
8	Foraging ecology and interactions with fisheries of wandering albatrosses ( <i>Diomedea exulans</i> ) breeding at South Georgia. <i>Fisheries Oceanography</i> , 2004, 13, 324-344.	0.9	89
9	Latitudinal and bathymetric patterns in the distribution and abundance of mesopelagic fish in the Scotia Sea. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 2012, 59-60, 189-198.	0.6	80
10	Interannual variation in the diets of two albatross species breeding at South Georgia: implications for breeding performance. <i>Ibis</i> , 2003, 145, 593-610.	1.0	75
11	Future challenges in cephalopod research. <i>Journal of the Marine Biological Association of the United Kingdom</i> , 2015, 95, 999-1015.	0.4	75
12	Short- and long-term consistency in the foraging niche of wandering albatrosses. <i>Marine Biology</i> , 2012, 159, 1581-1591.	0.7	74
13	Cross-disciplinarity in the advance of Antarctic ecosystem research. <i>Marine Genomics</i> , 2018, 37, 1-17.	0.4	70
14	Feeding strategies and diets of breeding grey-headed and wandering albatrosses at South Georgia. <i>Marine Biology</i> , 2003, 143, 221-232.	0.7	68
15	Antarctic environmental protection: Strengthening the links between science and governance. <i>Environmental Science and Policy</i> , 2018, 83, 86-95.	2.4	55
16	Applying new tools to cephalopod trophic dynamics and ecology: perspectives from the Southern Ocean Cephalopod Workshop, February 2-3, 2006. <i>Reviews in Fish Biology and Fisheries</i> , 2007, 17, 79-99.	2.4	54
17	Distribution of cephalopods recorded in the diet of the Patagonian toothfish ( <i>Dissostichus</i> )	0.5	53
18	Future Challenges in Southern Ocean Ecology Research. <i>Frontiers in Marine Science</i> , 2016, 3, .	1.2	53

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19	Microplastics and other anthropogenic particles in Antarctica: Using penguins as biological samplers. <i>Science of the Total Environment</i> , 2021, 788, 147698.	3.9	53
20	Antarctic ecosystems in transition – life between stresses and opportunities. <i>Biological Reviews</i> , 2021, 96, 798-821.	4.7	53
21	Influence of age, sex and breeding status on mercury accumulation patterns in the wandering albatross <i>Diomedea exulans</i> . <i>Environmental Pollution</i> , 2013, 181, 315-320.	3.7	52
22	Extraction and characterization of collagen from Antarctic and Sub-Antarctic squid and its potential application in hybrid scaffolds for tissue engineering. <i>Materials Science and Engineering C</i> , 2017, 78, 787-795.	3.8	52
23	A review on the biodiversity, distribution and trophic role of cephalopods in the Arctic and Antarctic marine ecosystems under a changing ocean. <i>Marine Biology</i> , 2018, 165, 1.	0.7	50
24	The diet of toothfish species <i>Dissostichus eleginoides</i> and <i>Dissostichus mawsoni</i> with overlapping distributions. <i>Journal of Fish Biology</i> , 2011, 79, 138-154.	0.7	49
25	The stomach contents of Patagonian toothfish around South Georgia (South Atlantic). <i>Journal of Fish Biology</i> , 2001, 59, 1370-1384.	0.7	47
26	Inter-annual variation in the cephalopod component of the diet of the wandering albatross, <i>Diomedea exulans</i> , breeding at Bird Island, South Georgia. <i>Marine Biology</i> , 2003, 142, 611-622.	0.7	46
27	Biogeography of Cephalopods in the Southern Ocean Using Habitat Suitability Prediction Models. <i>Ecosystems</i> , 2016, 19, 220-247.	1.6	45
28	Projected distributions of Southern Ocean albatrosses, petrels and fisheries as a consequence of climatic change. <i>Ecography</i> , 2018, 41, 195-208.	2.1	44
29	Foraging ecology of Cory's shearwaters in different oceanic environments of the North Atlantic. <i>Marine Ecology - Progress Series</i> , 2010, 410, 257-268.	0.9	43
30	Cephalopods in marine predator diet assessments: why identifying upper and lower beaks is important. <i>ICES Journal of Marine Science</i> , 2011, 68, 1857-1864.	1.2	40
31	Mercury biomagnification in a Southern Ocean food web. <i>Environmental Pollution</i> , 2021, 275, 116620.	3.7	39
32	A Synergistic Approach for Evaluating Climate Model Output for Ecological Applications. <i>Frontiers in Marine Science</i> , 2017, 4, .	1.2	37
33	Sexual and individual foraging segregation in Gentoo penguins <i>Pygoscelis papua</i> from the Southern Ocean during an abnormal winter. <i>PLoS ONE</i> , 2017, 12, e0174850.	1.1	36
34	Predator-prey interactions: why do larger albatrosses eat bigger squid?. <i>Journal of Zoology</i> , 2007, 271, 408-417.	0.8	35
35	Age-Related Variation in Foraging Behaviour in the Wandering Albatross at South Georgia: No Evidence for Senescence. <i>PLoS ONE</i> , 2015, 10, e0116415.	1.1	32
36	Feeding ecology of conger eels ( <i>Conger conger</i> ) in north-east Atlantic waters. <i>Journal of the Marine Biological Association of the United Kingdom</i> , 2010, 90, 493-501.	0.4	30

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37	Mercury levels in Southern Ocean squid: Variability over the last decade. <i>Chemosphere</i> , 2020, 239, 124785.	4.2	30
38	The diet of black-browed albatrosses at the Diego Ramirez Islands, Chile. <i>Polar Biology</i> , 2003, 26, 638-647.	0.5	28
39	Boluses: An Effective Method for Assessing the Proportions of Cephalopods in the Diet of Albatrosses. <i>Auk</i> , 2005, 122, 1182-1190.	0.7	28
40	Determining prey distribution patterns from stomach-contents of satellite-tracked high-predators of the Southern Ocean. <i>Ecography</i> , 2006, 29, 260-272.	2.1	28
41	Global Connectivity of Southern Ocean Ecosystems. <i>Frontiers in Ecology and Evolution</i> , 2021, 9, .	1.1	28
42	The retrospective analysis of Antarctic tracking data project. <i>Scientific Data</i> , 2020, 7, 94.	2.4	27
43	Life cycle, distribution and trophodynamics of the lanternfish <i>Krefftichthys anderssoni</i> (L�nnberg). <i>Tj ETQq1 1 0.784314 rgBT /Overl</i>	0.5	26
44	Isotopic niches of sympatric Gentoo and Chinstrap Penguins: evidence of competition for Antarctic krill?. <i>Polar Biology</i> , 2018, 41, 1655-1669.	0.5	26
45	Ontogenic changes in habitat and trophic ecology in the Antarctic squid <i>Kondakovia longimana</i> derived from isotopic analysis on beaks. <i>Polar Biology</i> , 2018, 41, 2409-2421.	0.5	25
46	Sex-related variation in the vulnerability of wandering albatrosses to pelagic longline fleets. <i>Animal Conservation</i> , 2016, 19, 281-295.	1.5	24
47	The first global deep-sea stable isotope assessment reveals the unique trophic ecology of Vampire Squid <i>Vampyroteuthis infernalis</i> (Cephalopoda). <i>Scientific Reports</i> , 2019, 9, 19099.	1.6	24
48	Comparison of methods for determining key marine areas from tracking data. <i>Marine Biology</i> , 2013, 160, 15-26.	0.7	23
49	Distribution, habitat and trophic ecology of Antarctic squid <i>Kondakovia longimana</i> and <i>Moroteuthis knipovitchi</i> : inferences from predators and stable isotopes. <i>Polar Biology</i> , 2016, 39, 167-175.	0.5	22
50	Seasonal changes in the diet and feeding behaviour of a top predator indicate a flexible response to deteriorating oceanographic conditions. <i>Marine Biology</i> , 2013, 160, 1597-1606.	0.7	21
51	Cephalopods in the diet of nonbreeding black-browed and grey-headed albatrosses from South Georgia. <i>Polar Biology</i> , 2015, 38, 631-641.	0.5	21
52	Identification of candidate pelagic marine protected areas through a seabird seasonal, multispecific and extinction risk-based approach. <i>Animal Conservation</i> , 2017, 20, 409-424.	1.5	21
53	Spatial variability in total and organic mercury levels in Antarctic krill <i>Euphausia superba</i> across the Scotia Sea. <i>Environmental Pollution</i> , 2019, 247, 332-339.	3.7	20
54	A switch in the Atlantic Oscillation correlates with inter-annual changes in foraging location and food habits of Macaronesian shearwaters ( <i>Puffinus baroli</i> ) nesting on two islands of the sub-tropical Atlantic Ocean. <i>Deep-Sea Research Part I: Oceanographic Research Papers</i> , 2015, 104, 60-71.	0.6	19

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55	BOLUSES: AN EFFECTIVE METHOD FOR ASSESSING THE PROPORTIONS OF CEPHALOPODS IN THE DIET OF ALBATROSSES. <i>Auk</i> , 2005, 122, 1182.	0.7	18
56	Analysis of stable isotope ratios in blood of tracked wandering albatrosses fails to distinguish a $\delta^{13}\text{C}$ gradient within their winter foraging areas in the southwest Atlantic Ocean. <i>Rapid Communications in Mass Spectrometry</i> , 2015, 29, 2328-2336.	0.7	18
57	The significance of cephalopod beaks in marine ecology studies: Can we use beaks for DNA analyses and mercury contamination assessment?. <i>Marine Pollution Bulletin</i> , 2016, 103, 220-226.	2.3	18
58	Long-term trends in albatross diets in relation to prey availability and breeding success. <i>Marine Biology</i> , 2020, 167, 1.	0.7	18
59	Productivity and Change in Fish and Squid in the Southern Ocean. <i>Frontiers in Ecology and Evolution</i> , 2021, 9, .	1.1	18
60	The devil is in the detail: small-scale sexual segregation despite large-scale spatial overlap in the wandering albatross. <i>Marine Biology</i> , 2018, 165, 1.	0.7	17
61	Interannual variations in cephalopod consumption by albatrosses at South Georgia: implications for future commercial exploitation of cephalopods. <i>Marine and Freshwater Research</i> , 2007, 58, 1136.	0.7	16
62	How do cephalopods become available to seabirds: can fish gut contents from tuna fishing vessels be a major food source of deep-dwelling cephalopods?. <i>ICES Journal of Marine Science</i> , 2013, 70, 46-49.	1.2	16
63	Biology and ecology of the world's largest invertebrate, the colossal squid ( <i>Mesonychoteuthis</i> ) <i>Tj ETQq1 1 0.784314 rgBT /Overlo</i>	0.5	16
64	Mercury biomagnification in an Antarctic food web of the Antarctic Peninsula. <i>Environmental Pollution</i> , 2022, 304, 119199.	3.7	16
65	Polar marine biology science in Portugal and Spain: Recent advances and future perspectives. <i>Journal of Sea Research</i> , 2013, 83, 9-29.	0.6	15
66	Show your beaks and we tell you what you eat: Different ecology in sympatric Antarctic benthic octopods under a climate change context. <i>Marine Environmental Research</i> , 2019, 150, 104757.	1.1	15
67	Feeding ecology of the deep-sea lanternshark <i>Etmopterus pusillus</i> (Elasmobranchii) <i>Tj ETQq1 1 0.784314 rgBT /Overlo</i>	0.3	15
68	Mercury accumulation in gentoo penguins <i>Pygoscelis papua</i> : spatial, temporal and sexual intraspecific variations. <i>Polar Biology</i> , 2015, 38, 1335-1343.	0.5	14
69	Conventional and molecular analysis of the diet of gentoo penguins: contributions to assess scats for non-invasive penguin diet monitoring. <i>Polar Biology</i> , 2018, 41, 2275-2287.	0.5	14
70	Climate change and polar range expansions: Could cuttlefish cross the Arctic?. <i>Marine Biology</i> , 2016, 163, 1.	0.7	13
71	The cephalopod prey of the Weddell seal, <i>Leptonychotes weddellii</i> , a biological sampler of the Antarctic marine ecosystem. <i>Polar Biology</i> , 2016, 39, 561-564.	0.5	13
72	Eastern rockhopper penguins <i>Eudyptes filholi</i> as biological samplers of juvenile and sub-adult cephalopods around Campbell Island, New Zealand. <i>Polar Biology</i> , 2018, 41, 1937-1949.	0.5	13

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73	New insights in Southwestern Atlantic Ocean Oegopsid squid distribution based on juvenile green turtle ( <i>Chelonia mydas</i> ) diet analysis. <i>Marine Biodiversity</i> , 2015, 45, 701-709.	0.3	12
74	Age and growth of Brauer's lanternfish <i>Gymnoscopelus braueri</i> and rhombic lanternfish <i>Krefflichthys anderssoni</i> (Family Myctophidae) in the Scotia Sea, Southern Ocean. <i>Journal of Fish Biology</i> , 2020, 96, 364-377.	0.7	12
75	Main drivers of mercury levels in Southern Ocean lantern fish Myctophidae. <i>Environmental Pollution</i> , 2020, 264, 114711.	3.7	12
76	Feathers as a Tool to Assess Mercury Contamination in Gentoo Penguins: Variations at the Individual Level. <i>PLoS ONE</i> , 2015, 10, e0137622.	1.1	12
77	Diet of grey-headed albatrosses at the Diego Ram�rez Islands, Chile: ecological implications. <i>Antarctic Science</i> , 2004, 16, 263-275.	0.5	11
78	Seasonal prey switching in non-breeding gentoo penguins related to a wintertime environmental anomaly around South Georgia. <i>Polar Biology</i> , 2018, 41, 2323-2335.	0.5	11
79	Diet and life history reduce interspecific and intraspecific competition among three sympatric Arctic cephalopods. <i>Scientific Reports</i> , 2020, 10, 21506.	1.6	11
80	Diet of the blue marlin, <i>Makaira nigricans</i> , off the south coast of Portugal. <i>Marine Biology Research</i> , 2011, 7, 820-825.	0.3	9
81	Distribution of short-finned squid <i>Illex argentinus</i> (Cephalopoda: Ommastrephidae) inferred from the diets of Southern Ocean albatrosses using stable isotope analyses. <i>Journal of the Marine Biological Association of the United Kingdom</i> , 2016, 96, 1211-1215.	0.4	9
82	Habitat, trophic levels and migration patterns of the short-finned squid <i>Illex argentinus</i> from stable isotope analysis of beak regions. <i>Polar Biology</i> , 2019, 42, 2299-2304.	0.5	9
83	Long-term changes in habitat and trophic level of Southern Ocean squid in relation to environmental conditions. <i>Scientific Reports</i> , 2020, 10, 15215.	1.6	9
84	Ontogenetic changes in habitat and trophic ecology of the giant Antarctic octopus <i>Megaleledone setebos</i> inferred from stable isotope analyses in beaks. <i>Marine Biology</i> , 2020, 167, 1.	0.7	9
85	Cephalopod fauna of the Pacific Southern Ocean using Antarctic toothfish ( <i>Dissostichus mawsoni</i> ) as biological samplers and fisheries bycatch specimens. <i>Deep-Sea Research Part I: Oceanographic Research Papers</i> , 2021, 174, 103571.	0.6	9
86	Does the trophic habitat influence the biochemical quality of the gonad of <i>Octopus vulgaris</i> ? Stable isotopes and lipid class contents as bio-indicators of different life-cycle strategies. <i>Hydrobiologia</i> , 2014, 725, 33-46.	1.0	8
87	Education on Biodiversity in the Polar Regions. <i>World Sustainability Series</i> , 2016, , 43-56.	0.3	8
88	Life Beyond the Ice. , 2015, , 229-252.		7
89	Inter-specific niche partitioning and overlap in albatrosses and petrels: dietary divergence and the role of fishing discards. <i>Marine Biology</i> , 2017, 164, 1.	0.7	7
90	The rise of Portuguese Antarctic research: implications for Portugal's status under the Antarctic Treaty. <i>Polar Record</i> , 2018, 54, 11-17.	0.4	7

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91	Education and outreach by the Antarctic Treaty Parties, Observers and Experts under the framework of the Antarctic Treaty Consultative Meetings. <i>Polar Record</i> , 2019, 55, 241-244.	0.4	7
92	Feeding and trophic ecology of Antarctic toothfish <i>Dissostichus mawsoni</i> in the Amundsen and Dumont D'Urville Seas (Antarctica). <i>Hydrobiologia</i> , 2022, 849, 2317-2333.	1.0	7
93	Intra-population variability of the non-breeding distribution of southern giant petrels <i>Macronectes giganteus</i> is mediated by individual body size. <i>Antarctic Science</i> , 2018, 30, 271-277.	0.5	6
94	Cephalopod beak sections used to trace mercury levels throughout the life of cephalopods: The giant warty squid <i>Moroteuthopsis longimana</i> as a case study. <i>Marine Environmental Research</i> , 2020, 161, 105049.	1.1	6
95	Narrowing the science/policy gap for environmental management. <i>Antarctic Science</i> , 2016, 28, 325-325.	0.5	5
96	Predator-derived bioregions in the Southern Ocean: Characteristics, drivers and representation in marine protected areas. <i>Biological Conservation</i> , 2022, 272, 109630.	1.9	5
97	Antarctic: Climate Change, Fisheries, and Governance. <i>Encyclopedia of the UN Sustainable Development Goals</i> , 2020, , 1-12.	0.0	4
98	Length-weight and otolith size to standard length relationships in 12 species of Southern Ocean Myctophidae: A tool for predator diet studies. <i>Journal of Applied Ichthyology</i> , 2021, 37, 140-144.	0.3	4
99	The stomach contents of Patagonian toothfish around South Georgia (South Atlantic). , 2001, 59, 1370.		4
100	From Ice to Penguins: The Role of Mathematics in Antarctic Research. <i>CIM Series in Mathematical Sciences</i> , 2015, , 389-414.	0.4	4
101	Dwarf males of giant warty squid <i>Kondakovia longimana</i> and a description of their spermatophores. <i>Polar Biology</i> , 2017, 40, 2469-2474.	0.5	3
102	International Polar Week as an educational activity to boost science-educational links: Portugal as a case study. <i>Polar Record</i> , 2018, 54, 360-365.	0.4	3
103	Building collaborative networks across disciplines: A review of polar educators international's first five years. <i>Polar Record</i> , 2019, 55, 220-226.	0.4	3
104	Antarctic octopod beaks as proxy for mercury concentrations in soft tissues. <i>Marine Pollution Bulletin</i> , 2020, 158, 111447.	2.3	3
105	High mercury levels in Antarctic toothfish <i>Dissostichus mawsoni</i> from the Southwest Pacific sector of the Southern Ocean. <i>Environmental Research</i> , 2020, 187, 109680.	3.7	3
106	Oxidative stress, metabolic activity and mercury concentrations in Antarctic krill <i>Euphausia superba</i> and myctophid fish of the Southern Ocean. <i>Marine Pollution Bulletin</i> , 2021, 166, 112178.	2.3	3
107	Variability in tissue-specific trophic discrimination factors ( $\delta^{13}C$ and $\delta^{15}N$ ) between Antarctic krill <i>Euphausia superba</i> and free-ranging <i>Pygoscelis</i> penguins. <i>Polar Biology</i> , 2021, 44, 1541-1551.	0.5	3
108	Cephalopods habitat and trophic ecology: historical data using snares penguin as biological sampler. <i>Polar Biology</i> , 2021, 44, 73-84.	0.5	2

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109	Untangling local and remote influences in two major petrel habitats in the oligotrophic Southern Ocean. <i>Global Change Biology</i> , 2021, 27, 5773-5785.	4.2	2
110	Sexual differences in foraging behaviour and diets: a case study of wandering albatrosses. , 0, , 74-91.		2
111	Sex identification in Gentoo ( <i>Pygoscelis papua</i> ) and Chinstrap ( <i>Pygoscelis antarctica</i> ) penguins: Can flow cytometry be used as a reliable identification method?. <i>Journal of Experimental Marine Biology and Ecology</i> , 2014, 461, 364-370.	0.7	1
112	South American sea lions <i>Otaria byronia</i> as biological samplers of local cephalopod fauna in the Patagonian shelf marine ecosystem. <i>Journal of the Marine Biological Association of the United Kingdom</i> , 2019, 99, 1459-1463.	0.4	1
113	The role of Malcolm Clarke (1930â€“2013) in the Azores as a scientist and educationist. <i>Journal of the Marine Biological Association of the United Kingdom</i> , 2017, 97, 821-828.	0.4	0
114	Penguins: Diversity, Threats, and Role in Marine Ecosystems. <i>Encyclopedia of the UN Sustainable Development Goals</i> , 2020, , 1-10.	0.0	0
115	Antarctic: Climate Change, Fisheries, and Governance. <i>Encyclopedia of the UN Sustainable Development Goals</i> , 2022, , 15-26.	0.0	0
116	Penguins: Diversity, Threats, and Role in Marine Ecosystems. <i>Encyclopedia of the UN Sustainable Development Goals</i> , 2022, , 791-800.	0.0	0