

Heike K Lotze

List of Publications by Year in descending order

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Version: 2024-02-01

114
papers

21,200
citations

26630

56
h-index

24982

109
g-index

122
all docs

122
docs citations

122
times ranked

20574
citing authors

#	ARTICLE	IF	CITATIONS
1	A climate-resilient marine conservation network for Canada. <i>Facets</i> , 2022, 7, 571-590.	2.4	25
2	Incorporating anthropogenic thresholds to improve understanding of cumulative effects on seagrass beds. <i>Facets</i> , 2022, 7, 966-987.	2.4	3
3	From coast to coast to coast: ecology and management of seagrass ecosystems across Canada. <i>Facets</i> , 2021, 6, 139-179.	2.4	28
4	Effects of climate change on food production (fishing). , 2021, , 205-231.		3
5	Challenges of Gauging the Impact of Area-Based Fishery Closures and OECMs: A Case Study Using Long-Standing Canadian Groundfish Closures. <i>Frontiers in Marine Science</i> , 2021, 8, .	2.5	8
6	Phytoplankton nutritional quality is altered by shifting Si:N ratios and selective grazing. <i>Journal of Plankton Research</i> , 2021, 43, 325-337.	1.8	4
7	The status of climate change adaptation in fisheries management: Policy, legislation and implementation. <i>Fish and Fisheries</i> , 2021, 22, 1248-1273.	5.3	38
8	Interactions between finfish aquaculture and American lobster in Atlantic Canada. <i>Ocean and Coastal Management</i> , 2021, 210, 105664.	4.4	3
9	Marine biodiversity and climate change. , 2021, , 445-464.		28
10	Next-generation ensemble projections reveal higher climate risks for marine ecosystems. <i>Nature Climate Change</i> , 2021, 11, 973-981.	18.8	96
11	Marine biodiversity conservation. <i>Current Biology</i> , 2021, 31, R1190-R1195.	3.9	20
12	Ten new insights in climate science 2021: a horizon scan. <i>Global Sustainability</i> , 2021, 4, .	3.3	26
13	WTO must ban harmful fisheries subsidies. <i>Science</i> , 2021, 374, 544-544.	12.6	45
14	Advancing Global Ecological Modeling Capabilities to Simulate Future Trajectories of Change in Marine Ecosystems. <i>Frontiers in Marine Science</i> , 2020, 7, .	2.5	43
15	Future ocean biomass losses may widen socioeconomic equity gaps. <i>Nature Communications</i> , 2020, 11, 2235.	12.8	43
16	Incorporating climate change adaptation into marine protected area planning. <i>Global Change Biology</i> , 2020, 26, 3251-3267.	9.5	103
17	Rebuilding marine life. <i>Nature</i> , 2020, 580, 39-51.	27.8	560
18	Decrease in diatom dominance at lower Si:N ratios alters plankton food webs. <i>Journal of Plankton Research</i> , 2020, 42, 411-424.	1.8	6

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19	Differing marine animal biomass shifts under 21st century climate change between Canada's three oceans. <i>Facets</i> , 2020, 5, 105-122.	2.4	20
20	Climate-change impacts and fisheries management challenges in the North Atlantic Ocean. <i>Marine Ecology - Progress Series</i> , 2020, 648, 1-17.	1.9	16
21	Combining love and knowledge to heal the ocean. <i>Ethics in Science and Environmental Politics</i> , 2020, 20, 33-39.	7.9	3
22	Eelgrass (<i>Zostera marina</i>) and benthic habitat mapping in Atlantic Canada using high-resolution SPOT 6/7 satellite imagery. <i>Estuarine, Coastal and Shelf Science</i> , 2019, 226, 106292.	2.1	23
23	Ecosystem-based management of seaweed harvesting. <i>Botanica Marina</i> , 2019, 62, 395-409.	1.2	30
24	Global ensemble projections reveal trophic amplification of ocean biomass declines with climate change. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 12907-12912.	7.1	357
25	Spatiotemporal bycatch analysis of the Atlantic halibut (<i>Hippoglossus hippoglossus</i>) longline fishery survey indicates hotspots for species of conservation concern. <i>Conservation Science and Practice</i> , 2019, 1, e3.	2.0	1
26	Projected 21st-century distribution of canopy-forming seaweeds in the Northwest Atlantic with climate change. <i>Diversity and Distributions</i> , 2019, 25, 582-602.	4.1	70
27	State-of-the-art global models underestimate impacts from climate extremes. <i>Nature Communications</i> , 2019, 10, 1005.	12.8	168
28	Integrating climate adaptation and biodiversity conservation in the global ocean. <i>Science Advances</i> , 2019, 5, eaay9969.	10.3	133
29	Twenty-first-century climate change impacts on marine animal biomass and ecosystem structure across ocean basins. <i>Global Change Biology</i> , 2019, 25, 459-472.	9.5	151
30	Linking eutrophication indicators in eelgrass habitats to nitrogen loading and mitigating site characteristics in eastern New Brunswick, Canada. <i>Marine Environmental Research</i> , 2019, 144, 141-153.	2.5	9
31	A human impact metric for coastal ecosystems with application to seagrass beds in Atlantic Canada. <i>Facets</i> , 2019, 4, 210-237.	2.4	25
32	Climate change projections reveal range shifts of eelgrass <i>Zostera marina</i> in the Northwest Atlantic. <i>Marine Ecology - Progress Series</i> , 2019, 620, 47-62.	1.9	36
33	Spatiotemporal bycatch analysis of the Atlantic halibut (<i>Hippoglossus hippoglossus</i>) longline fishery survey indicates hotspots for species of conservation concern. <i>Conservation Science and Practice</i> , 2019, 1, e3.	2.0	1
34	Large-Scale Differences in Community Structure and Ecosystem Services of Eelgrass (<i>Zostera marina</i>) Beds Across Three Regions in Eastern Canada. <i>Estuaries and Coasts</i> , 2018, 41, 177-192.	2.2	12
35	Public perceptions of marine threats and protection from around the world. <i>Ocean and Coastal Management</i> , 2018, 152, 14-22.	4.4	133
36	Spatial Variation of Macroinfaunal Communities Associated with <i>Zostera marina</i> Beds Across Three Biogeographic Regions in Atlantic Canada. <i>Estuaries and Coasts</i> , 2018, 41, 1381-1396.	2.2	8

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37	A protocol for the intercomparison of marine fishery and ecosystem models: Fish-MIP v1.0. Geoscientific Model Development, 2018, 11, 1421-1442.	3.6	116
38	Sea-cage aquaculture impacts market and berried lobster (<i>Homarus americanus</i>) catches. Marine Ecology - Progress Series, 2018, 598, 85-97.	1.9	8
39	Potential impacts of finfish aquaculture on eelgrass (<i>Zostera marina</i>) beds and possible monitoring metrics for management: a case study in Atlantic Canada. PeerJ, 2018, 6, e5630.	2.0	13
40	Critical factors for the recovery of marine mammals. Conservation Biology, 2017, 31, 1301-1311.	4.7	14
41	Regional-Scale Differences in Eutrophication Effects on Eelgrass-Associated (<i>Zostera marina</i>) Macrofauna. Estuaries and Coasts, 2017, 40, 1096-1112.	2.2	22
42	Plastic as a Persistent Marine Pollutant. Annual Review of Environment and Resources, 2017, 42, 1-26.	13.4	497
43	Linked sustainability challenges and trade-offs among fisheries, aquaculture and agriculture. Nature Ecology and Evolution, 2017, 1, 1240-1249.	7.8	161
44	Effectiveness of lobster fisheries management in New Zealand and Nova Scotia from multi-species and ecosystem perspectives. ICES Journal of Marine Science, 2017, 74, 146-157.	2.5	6
45	Ecosystem effects of invertebrate fisheries. Fish and Fisheries, 2017, 18, 40-53.	5.3	52
46	Assessing the impacts of 1.5°C global warming simulation protocol of the Inter-Sectoral Impact Model Intercomparison Project (ISIMIP2b). Geoscientific Model Development, 2017, 10, 4321-4345.	3.6	410
47	The Vulnerability, Impacts, Adaptation and Climate Services Advisory Board (VIACS AB v1.0) contribution to CMIP6. Geoscientific Model Development, 2016, 9, 3493-3515.	3.6	31
48	Marine Biodiversity and Climate Change. , 2016, , 195-212.		24
49	Regional differences and linkage between canopy structure and community composition of rockweed habitats in Atlantic Canada. Marine Biology, 2016, 163, 1.	1.5	9
50	Ecological Indicators and Food-Web Models as Tools to Study Historical Changes in Marine Ecosystems. , 2016, , 103-132.		3
51	Historical abundance of juvenile commercial fish in coastal habitats: Implications for fish habitat management in Canada. Marine Policy, 2016, 73, 235-243.	3.2	9
52	Interactive effects of increasing temperature and nutrient loading on the habitat-forming rockweed <i>Ascophyllum nodosum</i> . Aquatic Botany, 2016, 133, 70-78.	1.6	11
53	Long-term shift in coastal fish communities before and after the collapse of Atlantic cod (<i>Gadus</i>) Tj ETQq1 1 0.784314 rgBT /Overlock	2.5	14
54	Comparative analysis of different survey methods for monitoring fish assemblages in coastal habitats. PeerJ, 2016, 4, e1832.	2.0	32

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55	Marine extinction risk shaped by trait–environment interactions over 500 million years. <i>Global Change Biology</i> , 2015, 21, 3595-3607.	9.5	31
56	Trade-offs between invertebrate fisheries catches and ecosystem impacts in coastal New Zealand. <i>ICES Journal of Marine Science</i> , 2015, 72, 1380-1388.	2.5	17
57	Youth and the sea: Ocean literacy in Nova Scotia, Canada. <i>Marine Policy</i> , 2015, 58, 98-107.	3.2	107
58	Paleontological baselines for evaluating extinction risk in the modern oceans. <i>Science</i> , 2015, 348, 567-570.	12.6	111
59	Land use and nitrogen loading in seven estuaries along the southern Gulf of St. Lawrence, Canada. <i>Estuarine, Coastal and Shelf Science</i> , 2015, 165, 137-148.	2.1	29
60	Effects of increasing water temperatures on survival and growth of ecologically and economically important seaweeds in Atlantic Canada: implications for climate change. <i>Marine Biology</i> , 2015, 162, 2431-2444.	1.5	43
61	Expansion of hagfish fisheries in Atlantic Canada and worldwide. <i>Fisheries Research</i> , 2015, 161, 24-33.	1.7	6
62	Predator decline leads to decreased stability in a coastal fish community. <i>Ecology Letters</i> , 2014, 17, 1518-1525.	6.4	85
63	Long-term change in a meso-predator community in response to prolonged and heterogeneous human impact. <i>Scientific Reports</i> , 2013, 3, 1057.	3.3	97
64	Recovery Trends in Marine Mammal Populations. <i>PLoS ONE</i> , 2013, 8, e77908.	2.5	145
65	Assessing global marine fishery status with a revised dynamic catch-based method and stock-assessment reference points. <i>ICES Journal of Marine Science</i> , 2012, 69, 1491-1500.	2.5	19
66	Regional-scale effects of eutrophication on ecosystem structure and services of seagrass beds. <i>Limnology and Oceanography</i> , 2012, 57, 1389-1402.	3.1	72
67	Extinctions in ancient and modern seas. <i>Trends in Ecology and Evolution</i> , 2012, 27, 608-617.	8.7	221
68	Recovery potential and conservation options for elasmobranchs. <i>Journal of Fish Biology</i> , 2012, 80, 1844-1869.	1.6	91
69	Recovery of marine animal populations and ecosystems. <i>Trends in Ecology and Evolution</i> , 2011, 26, 595-605.	8.7	338
70	Rapid Global Expansion of Invertebrate Fisheries: Trends, Drivers, and Ecosystem Effects. <i>PLoS ONE</i> , 2011, 6, e14735.	2.5	176
71	Food-Web Structure of Seagrass Communities across Different Spatial Scales and Human Impacts. <i>PLoS ONE</i> , 2011, 6, e22591.	2.5	66
72	Assessing the Value of Recreational Divers for Censusing Elasmobranchs. <i>PLoS ONE</i> , 2011, 6, e25609.	2.5	47

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73	Serial exploitation of global sea cucumber fisheries. <i>Fish and Fisheries</i> , 2011, 12, 317-339.	5.3	244
74	Spatial and temporal trends in yellow stingray abundance: evidence from diver surveys. <i>Environmental Biology of Fishes</i> , 2011, 90, 263-276.	1.0	24
75	Historical Changes in Marine Resources, Food-web Structure and Ecosystem Functioning in the Adriatic Sea, Mediterranean. <i>Ecosystems</i> , 2011, 14, 198-222.	3.4	212
76	Ecosystem structure and services in eelgrass <i>Zostera marina</i> and rockweed <i>Ascophyllum nodosum</i> habitats. <i>Marine Ecology - Progress Series</i> , 2011, 437, 51-68.	1.9	69
77	Acute effects of removing large fish from a near-pristine coral reef. <i>Marine Biology</i> , 2010, 157, 2739-2750.	1.5	50
78	Global patterns and predictors of marine biodiversity across taxa. <i>Nature</i> , 2010, 466, 1098-1101.	27.8	1,131
79	Patterns and ecosystem consequences of shark declines in the ocean. <i>Ecology Letters</i> , 2010, 13, 1055-1071.	6.4	706
80	The Biodiversity of the Mediterranean Sea: Estimates, Patterns, and Threats. <i>PLoS ONE</i> , 2010, 5, e11842.	2.5	1,439
81	Historical Reconstruction of Human-Induced Changes in U.S. Estuaries. <i>Oceanography and Marine Biology</i> , 2010, , 267-338.	1.0	25
82	Overestimating Fish Counts by Non-Instantaneous Visual Censuses: Consequences for Population and Community Descriptions. <i>PLoS ONE</i> , 2010, 5, e11722.	2.5	119
83	Large-Scale Absence of Sharks on Reefs in the Greater-Caribbean: A Footprint of Human Pressures. <i>PLoS ONE</i> , 2010, 5, e11968.	2.5	173
84	Changes in Marine Biodiversity as an Indicator of Climate Change. , 2009, , 263-279.		11
85	Historical baselines for large marine animals. <i>Trends in Ecology and Evolution</i> , 2009, 24, 254-262.	8.7	278
86	Rebuilding Global Fisheries. <i>Science</i> , 2009, 325, 578-585.	12.6	1,722
87	Structural Degradation in Mediterranean Sea Food Webs: Testing Ecological Hypotheses Using Stochastic and Mass-Balance Modelling. <i>Ecosystems</i> , 2008, 11, 939-960.	3.4	92
88	Loss of Large Predatory Sharks from the Mediterranean Sea. <i>Conservation Biology</i> , 2008, 22, 952-964.	4.7	398
89	Evaluating the knowledge base for expanding low-trophic-level fisheries in Atlantic Canada. <i>Canadian Journal of Fisheries and Aquatic Sciences</i> , 2008, 65, 2553-2571.	1.4	36
90	Rise and fall of fishing and marine resource use in the Wadden Sea, southern North Sea. <i>Fisheries Research</i> , 2007, 87, 208-218.	1.7	62

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91	Impacts of Biodiversity Loss on Ocean Ecosystem Services. <i>Science</i> , 2006, 314, 787-790.	12.6	3,422
92	Depletion, Degradation, and Recovery Potential of Estuaries and Coastal Seas. <i>Science</i> , 2006, 312, 1806-1809.	12.6	2,550
93	Effects of eutrophication, grazing, and algal blooms on rocky shores. <i>Limnology and Oceanography</i> , 2006, 51, 569-579.	3.1	195
94	Ecological history of the Wadden Sea. <i>Helgoland Marine Research</i> , 2005, 59, 1-1.	1.3	2
95	Radical changes in the Wadden Sea fauna and flora over the last 2,000½years. <i>Helgoland Marine Research</i> , 2005, 59, 71-83.	1.3	79
96	Human transformations of the Wadden Sea ecosystem through time: a synthesis. <i>Helgoland Marine Research</i> , 2005, 59, 84-95.	1.3	123
97	Global Patterns of Predator Diversity in the Open Oceans. <i>Science</i> , 2005, 309, 1365-1369.	12.6	324
98	UV effects that come and go: a global comparison of marine benthic community level impacts. <i>Global Change Biology</i> , 2004, 10, 1962-1972.	9.5	52
99	TWO CENTURIES OF MULTIPLE HUMAN IMPACTS AND SUCCESSIVE CHANGES IN A NORTH ATLANTIC FOOD WEB. , 2004, 14, 1428-1447.		185
100	Predator diversity hotspots in the blue ocean. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2003, 100, 9884-9888.	7.1	230
101	Complex interactions of climatic and ecological controls on macroalgal recruitment. <i>Limnology and Oceanography</i> , 2002, 47, 1734-1741.	3.1	121
102	Consumer versus resource control of species diversity and ecosystem functioning. <i>Nature</i> , 2002, 417, 848-851.	27.8	417
103	Effects of UV radiation and consumers on recruitment and succession of a marine macrobenthic community. <i>Marine Ecology - Progress Series</i> , 2002, 243, 57-66.	1.9	40
104	Algal propagule banks modify competition, consumer and resource control on Baltic rocky shores. <i>Oecologia</i> , 2001, 128, 281-293.	2.0	106
105	Ecophysiological traits explain species dominance patterns in macroalgal blooms. <i>Journal of Phycology</i> , 2001, 36, 287-295.	2.3	91
106	Strong bottom-up and top-down control of early life stages of macroalgae. <i>Limnology and Oceanography</i> , 2001, 46, 749-757.	3.1	124
107	Coastal food web structure, carbon storage, and nitrogen retention regulated by consumer pressure and nutrient loading. <i>Limnology and Oceanography</i> , 2000, 45, 339-349.	3.1	146
108	In situ Nutrient Enrichment: Methods for Marine Benthic Ecology. <i>International Review of Hydrobiology</i> , 2000, 85, 359-375.	0.9	143

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109	COMMON FRESHWATER ALGAE OF THE UNITED STATES. <i>Journal of Phycology</i> , 2000, 36, 622-622.	2.3	0
110	Propagule banks, herbivory and nutrient supply control population development and dominance patterns in macroalgal blooms. <i>Oikos</i> , 2000, 89, 46-58.	2.7	132
111	Variable and complementary effects of herbivores on different life stages of bloom-forming macroalgae. <i>Marine Ecology - Progress Series</i> , 2000, 200, 167-175.	1.9	74
112	Marine microbenthic community structure regulated by nitrogen loading and grazing pressure. <i>Marine Ecology - Progress Series</i> , 2000, 204, 27-38.	1.9	151
113	Control of macroalgal blooms at early developmental stages: <i>Pilayella littoralis</i> versus <i>Enteromorpha</i> spp.. <i>Oecologia</i> , 1999, 119, 46-54.	2.0	110
114	Marine diversity shift linked to interactions among grazers, nutrients and propagule banks. <i>Marine Ecology - Progress Series</i> , 1999, 185, 309-314.	1.9	142