Heike K Lotze

List of Publications by Year
in descending order

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	Impacts of Biodiversity Loss on Ocean Ecosystem Services. Science, 2006, 314, 787-790.	12.6	3,422
2	Depletion, Degradation, and Recovery Potential of Estuaries and Coastal Seas. Science, 2006, 312, 1806-1809.	12.6	2,550
3	Rebuilding Global Fisheries. Science, 2009, 325, 578-585.	12.6	1,722
4	The Biodiversity of the Mediterranean Sea: Estimates, Patterns, and Threats. PLoS ONE, 2010, 5, e11842.	2.5	1,439
5	Global patterns and predictors of marine biodiversity across taxa. Nature, 2010, 466, 1098-1101.	27.8	1,131
6	Patterns and ecosystem consequences of shark declines in the ocean. Ecology Letters, 2010, 13, 1055-1071.	6.4	706
7	Rebuilding marine life. Nature, 2020, 580, 39-51.	27.8	560
8	Plastic as a Persistent Marine Pollutant. Annual Review of Environment and Resources, 2017, 42, 1-26.	13.4	497
9	Consumer versus resource control of species diversity and ecosystem functioning. Nature, 2002, 417, 848-851.	27.8	417
10	Assessing the impacts of 1.5â€¯Â°C global warming â€“ simulation protocol of the Inter-Sectoral Impact Model Intercomparison Project (ISIMIP2b). Geoscientific Model Development, 2017, 10, 4321-4345.	3.6	410
11	Loss of Large Predatory Sharks from the Mediterranean Sea. Conservation Biology, 2008, 22, 952-964.	4.7	398
12	Global ensemble projections reveal trophic amplification of ocean biomass declines with climate change. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 12907-12912.	7.1	357
13	Recovery of marine animal populations and ecosystems. Trends in Ecology and Evolution, 2011, 26, 595-605.	8.7	338
14	Global Patterns of Predator Diversity in the Open Oceans. Science, 2005, 309, 1365-1369.	12.6	324
15	Historical baselines for large marine animals. Trends in Ecology and Evolution, 2009, 24, 254-262.	8.7	278
16	Serial exploitation of global sea cucumber fisheries. Fish and Fisheries, 2011, 12, 317-339.	5.3	244
17	Predator diversity hotspots in the blue ocean. Proceedings of the National Academy of Sciences of the United States of America, 2003, 100, 9884-9888.	7.1	230
18	Extinctions in ancient and modern seas. Trends in Ecology and Evolution, 2012, 27, 608-617.	8.7	221

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19	Historical Changes in Marine Resources, Food-web Structure and Ecosystem Functioning in the Adriatic Sea, Mediterranean. Ecosystems, 2011, 14, 198-222.	3.4	212
20	Effects of eutrophication, grazing, and algal blooms on rocky shores. Limnology and Oceanography, 2006, 51, 569-579.	3.1	195
21	TWO CENTURIES OF MULTIPLE HUMAN IMPACTS AND SUCCESSIVE CHANGES IN A NORTH ATLANTIC FOOD WEB. , 2004, 14, 1428-1447.		185
22	Rapid Global Expansion of Invertebrate Fisheries: Trends, Drivers, and Ecosystem Effects. PLoS ONE, 2011, 6, e14735.	2.5	176
23	Large-Scale Absence of Sharks on Reefs in the Greater-Caribbean: A Footprint of Human Pressures. PLoS ONE, 2010, 5, e11968.	2.5	173
24	State-of-the-art global models underestimate impacts from climate extremes. Nature Communications, 2019, 10, 1005.	12.8	168
25	Linked sustainability challenges and trade-offs among fisheries, aquaculture and agriculture. Nature Ecology and Evolution, 2017, 1, 1240-1249.	7.8	161
26	Twentyâ€firstâ€century climate change impacts on marine animal biomass and ecosystem structure across ocean basins. Global Change Biology, 2019, 25, 459-472.	9.5	151
27	Marine microbenthic community structure regulated by nitrogen loading and grazing pressure. Marine Ecology - Progress Series, 2000, 204, 27-38.	1.9	151
28	Coastal food web structure, carbon storage, and nitrogen retention regulated by consumer pressure and nutrient loading. Limnology and Oceanography, 2000, 45, 339-349.	3.1	146
29	Recovery Trends in Marine Mammal Populations. PLoS ONE, 2013, 8, e77908.	2.5	145
30	In situNutrient Enrichment: Methods for Marine Benthic Ecology. International Review of Hydrobiology, 2000, 85, 359-375.	0.9	143
31	Marine diversity shift linked to interactions among grazers, nutrients and propagule banks. Marine Ecology - Progress Series, 1999, 185, 309-314.	1.9	142
32	Public perceptions of marine threats and protection from around the world. Ocean and Coastal Management, 2018, 152, 14-22.	4.4	133
33	Integrating climate adaptation and biodiversity conservation in the global ocean. Science Advances, 2019, 5, eaay9969.	10.3	133
34	Propagule banks, herbivory and nutrient supply control population development and dominance patterns in macroalgal blooms. Oikos, 2000, 89, 46-58.	2.7	132
35	Strong bottomâ€up and topâ€down control of early life stages of macroalgae. Limnology and Oceanography, 2001, 46, 749-757.	3.1	124
36	Human transformations of the Wadden Sea ecosystem through time: a synthesis. Helgoland Marine Research, 2005, 59, 84-95.	1.3	123

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37	Complex interactions of climatic and ecological controls on macroalgal recruitment. Limnology and Oceanography, 2002, 47, 1734-1741.	3.1	121
38	Overestimating Fish Counts by Non-Instantaneous Visual Censuses: Consequences for Population and Community Descriptions. PLoS ONE, 2010, 5, e11722.	2.5	119
39	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
40	Paleontological baselines for evaluating extinction risk in the modern oceans. Science, 2015, 348, 567-570.	12.6	111
41	Control of macroalgal blooms at early developmental stages: Pilayella littoralis versus Enteromorpha spp.. Oecologia, 1999, 119, 46-54.	2.0	110
42	Youth and the sea: Ocean literacy in Nova Scotia, Canada. Marine Policy, 2015, 58, 98-107.	3.2	107
43	Algal propagule banks modify competition, consumer and resource control on Baltic rocky shores. Oecologia, 2001, 128, 281-293.	2.0	106
44	Incorporating climate change adaptation into marine protected area planning. Global Change Biology, 2020, 26, 3251-3267.	9.5	103
45	Long-term change in a meso-predator community in response to prolonged and heterogeneous human impact. Scientific Reports, 2013, 3, 1057.	3.3	97
46	Next-generation ensemble projections reveal higher climate risks for marine ecosystems. Nature Climate Change, 2021, 11, 973-981.	18.8	96
47	Structural Degradation in Mediterranean Sea Food Webs: Testing Ecological Hypotheses Using Stochastic and Mass-Balance Modelling. Ecosystems, 2008, 11, 939-960.	3.4	92
48	Ecophysiological traits explain species dominance patterns in macroalgal blooms. Journal of Phycology, 2001, 36, 287-295.	2.3	91
49	Recovery potential and conservation options for elasmobranchs. Journal of Fish Biology, 2012, 80, 1844-1869.	1.6	91
50	Predator decline leads to decreased stability in a coastal fish community. Ecology Letters, 2014, 17, 1518-1525.	6.4	85
51	Radical changes in the Wadden Sea fauna and flora over the last 2,000ï¿½years. Helgoland Marine Research, 2005, 59, 71-83.	1.3	79
52	Variable and complementary effects of herbivores on different life stages of bloom-forming macroalgae. Marine Ecology - Progress Series, 2000, 200, 167-175.	1.9	74
53	Regionalâ€scale effects of eutrophication on ecosystem structure and services of seagrass beds. Limnology and Oceanography, 2012, 57, 1389-1402.	3.1	72
54	Projected 21stâ€century distribution of canopyâ€forming seaweeds in the Northwest Atlantic with climate change. Diversity and Distributions, 2019, 25, 582-602.	4.1	70

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55	Ecosystem structure and services in eelgrass Zostera marina and rockweed Ascophyllum nodosum habitats. Marine Ecology - Progress Series, 2011, 437, 51-68.	1.9	69
56	Food-Web Structure of Seagrass Communities across Different Spatial Scales and Human Impacts. PLoS ONE, 2011, 6, e22591.	2.5	66
57	Rise and fall of fishing and marine resource use in the Wadden Sea, southern North Sea. Fisheries Research, 2007, 87, 208-218.	1.7	62
58	UV effects that come and go: a global comparison of marine benthic community level impacts. Global Change Biology, 2004, 10, 1962-1972.	9.5	52
59	Ecosystem effects of invertebrate fisheries. Fish and Fisheries, 2017, 18, 40-53.	5.3	52
60	Acute effects of removing large fish from a near-pristine coral reef. Marine Biology, 2010, 157, 2739-2750.	1.5	50
61	Assessing the Value of Recreational Divers for Censusing Elasmobranchs. PLoS ONE, 2011, 6, e25609.	2.5	47
62	WTO must ban harmful fisheries subsidies. Science, 2021, 374, 544-544.	12.6	45
63	Effects of increasing water temperatures on survival and growth of ecologically and economically important seaweeds in Atlantic Canada: implications for climate change. Marine Biology, 2015, 162, 2431-2444.	1.5	43
64	Advancing Global Ecological Modeling Capabilities to Simulate Future Trajectories of Change in Marine Ecosystems. Frontiers in Marine Science, 2020, 7, .	2.5	43
65	Future ocean biomass losses may widen socioeconomic equity gaps. Nature Communications, 2020, 11, 2235.	12.8	43
66	Effects of UV radiation and consumers on recruitment and succession of a marine macrobenthic community. Marine Ecology - Progress Series, 2002, 243, 57-66.	1.9	40
67	The status of climate change adaptation in fisheries management: Policy, legislation and implementation. Fish and Fisheries, 2021, 22, 1248-1273.	5.3	38
68	Evaluating the knowledge base for expanding low-trophic-level fisheries in Atlantic Canada. Canadian Journal of Fisheries and Aquatic Sciences, 2008, 65, 2553-2571.	1.4	36
69	Climate change projections reveal range shifts of eelgrass Zostera marina in the Northwest Atlantic. Marine Ecology - Progress Series, 2019, 620, 47-62.	1.9	36
70	Comparative analysis of different survey methods for monitoring fish assemblages in coastal habitats. PeerJ, 2016, 4, e1832.	2.0	32
71	Marine extinction risk shaped by traitâ€“environment interactions over 500Âmillion years. Global Change Biology, 2015, 21, 3595-3607.	9.5	31
72	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

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73	Ecosystem-based management of seaweed harvesting. Botanica Marina, 2019, 62, 395-409.	1.2	30
74	Land use and nitrogen loading in seven estuaries along the southern Gulf of St. Lawrence, Canada. Estuarine, Coastal and Shelf Science, 2015, 165, 137-148.	2.1	29
75	From coast to coast to coast: ecology and management of seagrass ecosystems across Canada. Facets, 2021, 6, 139-179.	2.4	28
76	Marine biodiversity and climate change. , 2021, , 445-464.		28
77	Ten new insights in climate science 2021: a horizon scan. Global Sustainability, 2021, 4, .	3.3	26
78	A human impact metric for coastal ecosystems with application to seagrass beds in Atlantic Canada. Facets, 2019, 4, 210-237.	2.4	25
79	Historical Reconstruction of Human-Induced Changes in U.S. Estuaries. Oceanography and Marine Biology, 2010, , 267-338.	1.0	25
80	A climate-resilient marine conservation network for Canada. Facets, 2022, 7, 571-590.	2.4	25
81	Spatial and temporal trends in yellow stingray abundance: evidence from diver surveys. Environmental Biology of Fishes, 2011, 90, 263-276.	1.0	24
82	Marine Biodiversity and Climate Change. , 2016, , 195-212.		24
83	Eelgrass (Zostera marina) and benthic habitat mapping in Atlantic Canada using high-resolution SPOT 6/7 satellite imagery. Estuarine, Coastal and Shelf Science, 2019, 226, 106292.	2.1	23
84	Regional-Scale Differences in Eutrophication Effects on Eelgrass-Associated (Zostera marina) Macrofauna. Estuaries and Coasts, 2017, 40, 1096-1112.	2.2	22
85	Differing marine animal biomass shifts under 21st century climate change between Canadaâ€™s three oceans. Facets, 2020, 5, 105-122.	2.4	20
86	Marine biodiversity conservation. Current Biology, 2021, 31, R1190-R1195.	3.9	20
87	Assessing global marine fishery status with a revised dynamic catch-based method and stock-assessment reference points. ICES Journal of Marine Science, 2012, 69, 1491-1500.	2.5	19
88	Trade-offs between invertebrate fisheries catches and ecosystem impacts in coastal New Zealand. ICES Journal of Marine Science, 2015, 72, 1380-1388.	2.5	17
89	Climate-change impacts and fisheries management challenges in the North Atlantic Ocean. Marine Ecology - Progress Series, 2020, 648, 1-17.	1.9	16
90	Long-term shift in coastal fish communities before and after the collapse of Atlantic cod (Gadus) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 6	2.5	14

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91	Critical factors for the recovery of marine mammals. Conservation Biology, 2017, 31, 1301-1311.	4.7	14
92	Potential impacts of finfish aquaculture on eelgrass (Zostera marina) beds and possible monitoring metrics for management: a case study in Atlantic Canada. PeerJ, 2018, 6, e5630.	2.0	13
93	Large-Scale Differences in Community Structure and Ecosystem Services of Eelgrass (Zostera marina) Beds Across Three Regions in Eastern Canada. Estuaries and Coasts, 2018, 41, 177-192.	2.2	12
94	Changes in Marine Biodiversity as an Indicator of Climate Change. , 2009, , 263-279.		11
95	Interactive effects of increasing temperature and nutrient loading on the habitat-forming rockweed Ascophyllum nodosum. Aquatic Botany, 2016, 133, 70-78.	1.6	11
96	Regional differences and linkage between canopy structure and community composition of rockweed habitats in Atlantic Canada. Marine Biology, 2016, 163, 1.	1.5	9
97	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
98	Linking eutrophication indicators in eelgrass habitats to nitrogen loading and mitigating site characteristics in eastern New Brunswick, Canada. Marine Environmental Research, 2019, 144, 141-153.	2.5	9
99	Spatial Variation of Macroinfaunal Communities Associated with Zostera marina Beds Across Three Biogeographic Regions in Atlantic Canada. Estuaries and Coasts, 2018, 41, 1381-1396.	2.2	8
100	Challenges of Gauging the Impact of Area-Based Fishery Closures and OECMs: A Case Study Using Long-Standing Canadian Groundfish Closures. Frontiers in Marine Science, 2021, 8, .	2.5	8
101	Sea-cage aquaculture impacts market and berried lobster (Homarus americanus) catches. Marine Ecology - Progress Series, 2018, 598, 85-97.	1.9	8
102	Expansion of hagfish fisheries in Atlantic Canada and worldwide. Fisheries Research, 2015, 161, 24-33.	1.7	6
103	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
104	Decrease in diatom dominance at lower Si:N ratios alters plankton food webs. Journal of Plankton Research, 2020, 42, 411-424.	1.8	6
105	Phytoplankton nutritional quality is altered by shifting Si:N ratios and selective grazing. Journal of Plankton Research, 2021, 43, 325-337.	1.8	4
106	Ecological Indicators and Food-Web Models as Tools to Study Historical Changes in Marine Ecosystems. , 2016, , 103-132.		3
107	Effects of climate change on food production (fishing). , 2021, , 205-231.		3
108	Interactions between finfish aquaculture and American lobster in Atlantic Canada. Ocean and Coastal Management, 2021, 210, 105664.	4.4	3

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109	Combining love and knowledge to heal the ocean. Ethics in Science and Environmental Politics, 2020, 20, 33-39.	7.9	3
110	Incorporating anthropogenic thresholds to improve understanding of cumulative effects on seagrass beds. Facets, 2022, 7, 966-987.	2.4	3
111	Ecological history of the Wadden Sea. Helgoland Marine Research, 2005, 59, 1-1.	1.3	2
112	Spatiotemporal bycatch analysis of the Atlantic halibut (Hippoglossus hippoglossus) longline fishery survey indicates hotspots for species of conservation concern. Conservation Science and Practice, 2019, 1, e3.	2.0	1
113	Spatiotemporal bycatch analysis of the Atlantic halibut (Hippoglossus hippoglossus) longline fishery survey indicates hotspots for species of conservation concern. Conservation Science and Practice, 2019, 1, e3.	2.0	1
114	COMMON FRESHWATER ALGAE OF THE UNITED STATES. Journal of Phycology, 2000, 36, 622-622.	2.3	0