Boris Worm

List of Publications by Year in descending order

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		13099	9103
147	31,110	68	144
papers	citations	h-index	g-index

177	177	177	26217
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Impacts of Biodiversity Loss on Ocean Ecosystem Services. Science, 2006, 314, 787-790.	12.6	3,422
2	Rapid worldwide depletion of predatory fish communities. Nature, 2003, 423, 280-283.	27.8	2,283
3	How Many Species Are There on Earth and in the Ocean?. PLoS Biology, 2011, 9, e1001127.	5.6	1,970
4	Rebuilding Global Fisheries. Science, 2009, 325, 578-585.	12.6	1,722
5	Global patterns and predictors of marine biodiversity across taxa. Nature, 2010, 466, 1098-1101.	27.8	1,131
6	Predicting ecological consequences of marine top predator declines. Trends in Ecology and Evolution, 2008, 23, 202-210.	8.7	1,032
7	Global phytoplankton decline over the past century. Nature, 2010, 466, 591-596.	27.8	1,031
8	Marine Taxa Track Local Climate Velocities. Science, 2013, 341, 1239-1242.	12.6	1,025
9	Ecosystem recovery after climatic extremes enhanced by genotypic diversity. Proceedings of the National Academy of Sciences of the United States of America, 2005, 102, 2826-2831.	7.1	957
10	Collapse and Conservation of Shark Populations in the Northwest Atlantic. Science, 2003, 299, 389-392.	12.6	949
11	Patterns and ecosystem consequences of shark declines in the ocean. Ecology Letters, 2010, 13, 1055-1071.	6.4	706
12	Tracking the global footprint of fisheries. Science, 2018, 359, 904-908.	12.6	687
13	Cascading topâ€down effects of changing oceanic predator abundances. Journal of Animal Ecology, 2009, 78, 699-714.	2.8	676
14	ECOLOGY: Globalization, Roving Bandits, and Marine Resources. Science, 2006, 311, 1557-1558.	12.6	592
15	Rebuilding marine life. Nature, 2020, 580, 39-51.	27.8	560
16	Plastic as a Persistent Marine Pollutant. Annual Review of Environment and Resources, 2017, 42, 1-26.	13.4	497
17	Global catches, exploitation rates, and rebuilding options for sharks. Marine Policy, 2013, 40, 194-204.	3.2	485
18	Marine reserves can mitigate and promote adaptation to climate change. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 6167-6175.	7.1	450

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19	Consumer versus resource control of species diversity and ecosystem functioning. Nature, 2002, 417, 848-851.	27.8	417
20	META-ANALYSIS OF CODâ€“SHRIMP INTERACTIONS REVEALS TOP-DOWN CONTROL IN OCEANIC FOOD WEBS. Ecology, 2003, 84, 162-173.	3.2	397
21	Protecting the global ocean for biodiversity, food and climate. Nature, 2021, 592, 397-402.	27.8	359
22	Extinction, survival or recovery of large predatory fishes. Philosophical Transactions of the Royal Society B: Biological Sciences, 2005, 360, 13-20.	4.0	357
23	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
24	Biodiversity, productivity and stability in real food webs. Trends in Ecology and Evolution, 2003, 18, 628-632.	8.7	324
25	Global Patterns of Predator Diversity in the Open Oceans. Science, 2005, 309, 1365-1369.	12.6	324
26	Management Effectiveness of the World's Marine Fisheries. PLoS Biology, 2009, 7, e1000131.	5.6	310
27	Historical baselines for large marine animals. Trends in Ecology and Evolution, 2009, 24, 254-262.	8.7	278
28	Importance of genetic diversity in eelgrass Zostera marina for its resilience to global warming. Marine Ecology - Progress Series, 2008, 355, 1-7.	1.9	250
29	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
30	The future of fish. Trends in Ecology and Evolution, 2012, 27, 594-599.	8.7	222
31	Deep-sea diversity patterns are shaped by energy availability. Nature, 2016, 533, 393-396.	27.8	202
32	Effects of eutrophication, grazing, and algal blooms on rocky shores. Limnology and Oceanography, 2006, 51, 569-579.	3.1	195
33	Creation of a Gilded Trap by the High Economic Value of the Maine Lobster Fishery. Conservation Biology, 2011, 25, 904-912.	4.7	193
34	Effects of sea surface warming on marine plankton. Ecology Letters, 2014, 17, 614-623.	6.4	188
35	Ending hide and seek at sea. Science, 2016, 351, 1148-1150.	12.6	182
36	Current and Future Patterns of Global Marine Mammal Biodiversity. PLoS ONE, 2011, 6, e19653.	2.5	170

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37	Megafaunal Impacts on Structure and Function of Ocean Ecosystems. Annual Review of Environment and Resources, 2016, 41, 83-116.	13.4	153
38	Marine microbenthic community structure regulated by nitrogen loading and grazing pressure. Marine Ecology - Progress Series, 2000, 204, 27-38.	1.9	151
39	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
40	In situNutrient Enrichment: Methods for Marine Benthic Ecology. International Review of Hydrobiology, 2000, 85, 359-375.	0.9	143
41	Marine diversity shift linked to interactions among grazers, nutrients and propagule banks. Marine Ecology - Progress Series, 1999, 185, 309-314.	1.9	142
42	Biodiversity and human well-being: an essential link for sustainable development. Proceedings of the Royal Society B: Biological Sciences, 2016, 283, 20162091.	2.6	137
43	Integrating climate adaptation and biodiversity conservation in the global ocean. Science Advances, 2019, 5, eaay9969.	10.3	133
44	Propagule banks, herbivory and nutrient supply control population development and dominance patterns in macroalgal blooms. Oikos, 2000, 89, 46-58.	2.7	132
45	Range contraction in large pelagic predators. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 11942-11947.	7.1	127
46	Improving Fishing Pattern Detection from Satellite AIS Using Data Mining and Machine Learning. PLoS ONE, 2016, 11, e0158248.	2.5	126
47	Strong bottomâ€up and topâ€down control of early life stages of macroalgae. Limnology and Oceanography, 2001, 46, 749-757.	3.1	124
48	Human transformations of the Wadden Sea ecosystem through time: a synthesis. Helgoland Marine Research, 2005, 59, 84-95.	1.3	123
49	Complex interactions of climatic and ecological controls on macroalgal recruitment. Limnology and Oceanography, 2002, 47, 1734-1741.	3.1	121
50	Global Diversity Hotspots and Conservation Priorities for Sharks. PLoS ONE, 2011, 6, e19356.	2.5	121
51	Changing recruitment capacity in global fish stocks. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 134-139.	7.1	120
52	Control of macroalgal blooms at early developmental stages: Pilayella littoralis versus Enteromorpha spp.. Oecologia, 1999, 119, 46-54.	2.0	110
53	Are we eating the world's megafauna to extinction?. Conservation Letters, 2019, 12, e12627.	5.7	108
54	Algal propagule banks modify competition, consumer and resource control on Baltic rocky shores. Oecologia, 2001, 128, 281-293.	2.0	106

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55	Ecological role of large benthic decapods in marine ecosystems: a review. Marine Ecology - Progress Series, 2012, 469, 195-213.	1.9	105
56	Estimating global chlorophyll changes over the past century. Progress in Oceanography, 2014, 122, 163-173.	3.2	104
57	Incorporating climate change adaptation into marine protected area planning. Global Change Biology, 2020, 26, 3251-3267.	9.5	103
58	Applying Bayesian spatiotemporal models to fisheries bycatch in the Canadian Arctic. Canadian Journal of Fisheries and Aquatic Sciences, 2015, 72, 186-197.	1.4	101
59	Effects of temperature on global patterns of tuna and billfish richness. Marine Ecology - Progress Series, 2008, 355, 267-276.	1.9	100
60	Global Population Trends and Human Use Patterns of Manta and Mobula Rays. PLoS ONE, 2013, 8, e74835.	2.5	97
61	Elevated trawling inside protected areas undermines conservation outcomes in a global fishing hot spot. Science, 2018, 362, 1403-1407.	12.6	95
62	Recovery potential and conservation options for elasmobranchs. Journal of Fish Biology, 2012, 80, 1844-1869.	1.6	91
63	Humans as a Hyperkeystone Species. Trends in Ecology and Evolution, 2016, 31, 600-607.	8.7	86
64	Rapid direct and indirect effects of a single nutrient pulse in a seaweed-epiphyte-grazer system. Marine Ecology - Progress Series, 2000, 202, 283-288.	1.9	84
65	Adaptive Management of the Great Barrier Reef and the Grand Canyon World Heritage Areas. Ambio, 2007, 36, 586-592.	5.5	77
66	Combining marine macroecology and palaeoecology in understanding biodiversity: microfossils as a model. Biological Reviews, 2017, 92, 199-215.	10.4	76
67	Unraveling the Ecological Importance of Elasmobranchs. Marine Biology, 2010, , 611-637.	0.1	75
68	Worldwide distributions of tuna larvae: revisiting hypotheses on environmental requirements for spawning habitats. Marine Ecology - Progress Series, 2014, 501, 207-224.	1.9	74
69	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
70	Diversity of deepâ€water cetaceans in relation to temperature: implications for ocean warming. Ecology Letters, 2008, 11, 1198-1207.	6.4	68
71	Top-down control of lobster in the Gulf of Maine: insights from local ecological knowledge and research surveys. Marine Ecology - Progress Series, 2010, 403, 181-191.	1.9	59
72	Do nutrient availability and plant density limit seagrass colonization in the Baltic Sea?. Marine Ecology - Progress Series, 2000, 200, 159-166.	1.9	59

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73	Human impacts on the speciesâ€“area relationship in reef fish assemblages. Ecology Letters, 2007, 10, 760-772.	6.4	57
74	Trends in the exploitation of South Atlantic shark populations. Conservation Biology, 2016, 30, 792-804.	4.7	54
75	Global evaluation of shark sanctuaries. Global Environmental Change, 2017, 47, 174-189.	7.8	54
76	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
77	Spatial patterns in the diversity of sharks, rays, and chimaeras (Chondrichthyes) in the Southwest Atlantic. Biodiversity and Conservation, 2012, 21, 407-419.	2.6	51
78	Spatial patterns and predictors of trophic control in marine ecosystems. Ecology Letters, 2015, 18, 1001-1011.	6.4	51
79	Averting a global fisheries disaster. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 4895-4897.	7.1	51
80	Acute effects of removing large fish from a near-pristine coral reef. Marine Biology, 2010, 157, 2739-2750.	1.5	50
81	Mapping species richness and human impact drivers to inform global pelagic conservation prioritisation. Biological Conservation, 2011, 144, 1758-1766.	4.1	48
82	Integrating global chlorophyll data from 1890 to 2010. Limnology and Oceanography: Methods, 2012, 10, 840-852.	2.0	48
83	Interactions of tuna fisheries with the GalÃ¡pagos marine reserve. Marine Ecology - Progress Series, 2017, 585, 1-15.	1.9	47
84	Extended fisheries recovery timelines in a changing environment. Nature Communications, 2017, 8, 15325.	12.8	45
85	WTO must ban harmful fisheries subsidies. Science, 2021, 374, 544-544.	12.6	45
86	Relative effects of elevated grazing pressure and competition from a red algal turf on two post-settlement stages of Fucus evanescens C. Ag.. Journal of Experimental Marine Biology and Ecology, 1998, 220, 247-268.	1.5	43
87	Biodiversity Loss in the Ocean: How Bad Is It?. Science, 2007, 316, 1281b-1284b.	12.6	43
88	Productivity dynamics of Atlantic cod. Canadian Journal of Fisheries and Aquatic Sciences, 2014, 71, 203-216.	1.4	43
89	Future ocean biomass losses may widen socioeconomic equity gaps. Nature Communications, 2020, 11, 2235.	12.8	43
90	Competition and Coexistence. Ecological Studies, 2002, , .	1.2	43

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91	Emergent research and priorities for shark and ray conservation. Endangered Species Research, 2022, 47, 171-203.	2.4	43
92	Declining ocean chlorophyll under unabated anthropogenic CO ₂ emissions. Environmental Research Letters, 2011, 6, 034035.	5.2	41
93	Interactions between small pelagic fish and young cod across the North Atlantic. Ecology, 2012, 93, 2139-2154.	3.2	41
94	Topâ€down and bottomâ€up forces interact at thermal range extremes on American lobster. Journal of Animal Ecology, 2015, 84, 840-850.	2.8	40
95	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
96	Global hot spots of transshipment of fish catch at sea. Science Advances, 2018, 4, eaat7159.	10.3	39
97	The environmental niche of the global high seas pelagic longline fleet. Science Advances, 2018, 4, eaat3681.	10.3	38
98	Not all who wander are lost: Improving spatial protection for large pelagic fishes. Marine Policy, 2019, 105, 80-90.	3.2	38
99	Cascading effects of climate change on plankton community structure. Ecology and Evolution, 2020, 10, 2170-2181.	1.9	38
100	Seasonal variability in global industrial fishing effort. PLoS ONE, 2019, 14, e0216819.	2.5	37
101	Managing fisheries in a changing climate. Nature, 2004, 429, 15-15.	27.8	36
102	Aggregate patterns of macrofaunal diversity: An interocean comparison. Global Ecology and Biogeography, 2017, 26, 823-834.	5.8	36
103	Rebuilding global fisheries under uncertainty. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 15985-15990.	7.1	35
104	No effect from rare-earth metal deterrent on shark bycatch in a commercial pelagic longline trial. Fisheries Research, 2013, 143, 131-135.	1.7	34
105	How to heal an ocean. Nature, 2017, 543, 630-631.	27.8	33
106	A neutralâ€metabolic theory of latitudinal biodiversity. Global Ecology and Biogeography, 2016, 25, 630-641.	5.8	32
107	Boyce et al. reply. Nature, 2011, 472, E8-E9.	27.8	31
108	Ecosystem-based management of seaweed harvesting. Botanica Marina, 2019, 62, 395-409.	1.2	30

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109	Marine biodiversity and climate change. , 2021, , 445-464.		28
110	Give Shark Sanctuaries a Chance. Science, 2013, 339, 757-757.	12.6	27
111	A climate-resilient marine conservation network for Canada. Facets, 2022, 7, 571-590.	2.4	25
112	Marine Biodiversity and Climate Change. , 2016, , 195-212.		24
113	Making ocean literacy inclusive and accessible. Ethics in Science and Environmental Politics, 2021, 21, 1-9.	7.9	24
114	Recovery of assessed global fish stocks remains uncertain. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	7.1	24
115	Patterns and ecological implications of historical marine phytoplankton change. Marine Ecology - Progress Series, 2015, 534, 251-272.	1.9	24
116	Interference competition among two intertidal seaweeds:Chondrus crispus strongly affects survival of Fucus evanescens recruits. Marine Ecology - Progress Series, 1996, 145, 297-301.	1.9	24
117	Decomposing the effects of ocean warming on chlorophyll a concentrations into physically and biologically driven contributions. Environmental Research Letters, 2013, 8, 014043.	5.2	23
118	Top-down interactions and temperature control of snow crab abundance in the northwest Atlantic Ocean. Marine Ecology - Progress Series, 2011, 429, 169-183.	1.9	21
119	Environmental structuring of marine plankton phenology. Nature Ecology and Evolution, 2017, 1, 1484-1494.	7.8	20
120	Saving endangered whales at no cost. Current Biology, 2007, 17, R10-R11.	3.9	19
121	Competition, Coexistence and Diversity on Rocky Shores. Ecological Studies, 2002, , 133-163.	1.2	19
122	The Conservation of the Greenland Shark (Somniosus microcephalus): Setting Scientific, Law, and Policy Coordinates for Avoiding a Species at Risk. Journal of International Wildlife Law and Policy, 2013, 16, 300-330.	0.5	18
123	Diversity of deep-water cetaceans and primary productivity. Marine Ecology - Progress Series, 2010, 408, 1-5.	1.9	18
124	Keeping the lead: How to strengthen shark conservation and management policies in Canada. Marine Policy, 2010, 34, 995-1001.	3.2	17
125	Silent spring in the ocean. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 11752-11753.	7.1	17
126	Evolution of the Galapagos in the Anthropocene. Nature Climate Change, 2020, 10, 380-382.	18.8	17

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127	Tracking jellyfish and leatherback sea turtle seasonality through citizen science observers. Marine Ecology - Progress Series, 2019, 620, 15-32.	1.9	16
128	Predation on Prerecruits Can Delay Rebuilding of Depleted Cod Stocks. Bulletin of Marine Science, 2013, 89, 107-122.	0.8	15
129	A most unusual (super)predator. Science, 2015, 349, 784-785.	12.6	15
130	Response to Comment on â€œTracking the global footprint of fisheriesâ€• Science, 2018, 361, .	12.6	14
131	Estimating growth from tagging data: an application to northâ€east Atlantic tope shark Galeorhinus galeus. Journal of Fish Biology, 2015, 87, 1389-1410.	1.6	12
132	Changes in Marine Biodiversity as an Indicator of Climate Change. , 2009, , 263-279.		11
133	Macroecological Changes in Exploited Marine Systems. , 0, , 310-338.		11
134	The International Plan of Action for Sharks: How does national implementation measure up?. Marine Policy, 2013, 38, 312-320.	3.2	10
135	Saving the North Atlantic right whale in a changing ocean: Gauging scientific and law and policy responses. Ocean and Coastal Management, 2021, 200, 105109.	4.4	9
136	Leading or lagging: How well are climate change considerations being incorporated into Canadian fisheries management?. Canadian Journal of Fisheries and Aquatic Sciences, 2021, 78, 1120-1129.	1.4	7
137	Jellyfish distribution in space and time predicts leatherback sea turtle hot spots in the Northwest Atlantic. PLoS ONE, 2020, 15, e0232628.	2.5	6
138	Integrating global chlorophyll data from 1890 to 2010. Limnology and Oceanography: Methods, 2012, 10, 840-852.	2.0	4
139	SPRAT: A spatially-explicit marine ecosystem model based on population balance equations. Ecological Modelling, 2017, 349, 11-25.	2.5	4
140	Distributions of threatened skates and commercial fisheries inform conservation hotspots. Marine Ecology - Progress Series, 2021, 679, 1-18.	1.9	3
141	Reply to Szuwalski: Recognizing ecological income inequality in the ocean. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, E1775-E1776.	7.1	2
142	Ecosystem Effects of Fishing and Whaling in the North Pacific and Atlantic Oceans. , 2007, , 335-343.		2
143	Endangered Blue Whale Survival in the North Atlantic: Lagging Scientific and Governance Responses, Charting Future Courses. International Journal of Marine and Coastal Law, 2022, 37, 89-136.	0.7	2
144	Decline of Pacific tuna populations exaggerated?. Nature, 2005, 434, E2-E2.	27.8	1

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145	ZoologyHandbook of Marine Fisheries Conservation and Management. Edited by R.QuentinGrafton, RayHilborn, DaleSquires, MareeTait, and, MerylWilliams. Oxford and New York: Oxford University Press. $199.00. xiv 770 p.; ill.; index. ISBN: 9780195370287. 2010.. Quarterly Review of Biology, 2010, 85, 374-375.	0.1	0
146	Overfishing in a nutshell. Trends in Ecology and Evolution, 2013, 28, 133.	8.7	0
147	The catch with global fisheries. Current Biology, 2020, 30, R140-R141.	3.9	0