Martin Edwards

List of Publications by Year
in descending order

69 papers	8,396 citations	101543 36 h-index	106344 65 g-index
69 all docs	69 docs citations	69 times ranked	10869 citing authors

#	Article	IF	Citations
1	Impact of climate change on marine pelagic phenology and trophic mismatch. Nature, 2004, 430, 881-884.	27.8	1,740
2	Phenological sensitivity to climate across taxa and trophic levels. Nature, 2016, 535, 241-245.	27.8	705
3	Trophic level asynchrony in rates of phenological change for marine, freshwater and terrestrial environments. Global Change Biology, 2010, 16, 3304-3313.	9.5	690
4	From plankton to top predators: bottom-up control of a marine food web across four trophic levels. Journal of Animal Ecology, 2006, 75, 1259-1268.	2.8	444
5	Climate influence on Vibrio and associated human diseases during the past half-century in the coastal North Atlantic. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, E5062-71.	7.1	316
6	Phytoplankton change in the North Atlantic. Nature, 1998, 391, 546-546.	27.8	290
7	Changes in marine dinoflagellate and diatom abundance under climate change. Nature Climate Change, 2012, 2, 271-275.	18.8	249
8	Causes and projections of abrupt climateâ€driven ecosystem shifts in the North Atlantic. Ecology Letters, 2008, 11, 1157-1168.	6.4	225
9	Marine biodiversity, ecosystem functioning, and carbon cycles. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 10120-10124.	7.1	220
10	Marine plankton phenology and life history in a changing climate: current research and future directions. Journal of Plankton Research, 2010, 32, 1355-1368.	1.8	201
11	A longâ€term chlorophyll dataset reveals regime shift in North Sea phytoplankton biomass unconnected to nutrient levels. Limnology and Oceanography, 2007, 52, 635-648.	3.1	170
12	Climateâ€related increases in jellyfish frequency suggest a more gelatinous future for the North Sea. Limnology and Oceanography, 2007, 52, 480-485.	3.1	168
13	Periodic changes in the zooplankton of the North Sea during the twentieth century linked to oceanic inflow. Fisheries Oceanography, 2003, 12, 260-269.	1.7	167
14	A biological consequence of reducing Arctic ice cover: arrival of the Pacific diatom Neodenticula seminae in the North Atlantic for the first time in 800â€ƒ000 years. Global Change Biology, 2007, 13, 1910-1921.	9.5	157
15	The Mediterranean Sea Regime Shift at the End of the 1980s, and Intriguing Parallelisms with Other European Basins. PLoS ONE, 2010, 5, e10633.	2.5	156
16	An overview of Calanus helgolandicus ecology in European waters. Progress in Oceanography, 2005, 65, 1-53.	3.2	136
17	Multi-decadal oceanic ecological datasets and their application in marine policy and management. Trends in Ecology and Evolution, 2010, 25, 602-610.	8.7	134
18	Ocean community warming responses explained by thermal affinities and temperature gradients. Nature Climate Change, 2019, 9, 959-963.	18.8	134

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19	A holistic view of marine regime shifts. Philosophical Transactions of the Royal Society B: Biological Sciences, 2015, 370, 20130279.	4.0	131
20	Future vulnerability of marine biodiversity compared with contemporary and past changes. Nature Climate Change, 2015, 5, 695-701.	18.8	120
21	Chapter 1 Impacts of the Oceans on Climate Change. Advances in Marine Biology, 2009, 56, 1-150.	1.4	110
22	Is there a decline in marine phytoplankton?. Nature, 2011, 472, E6-E7.	27.8	108
23	Marine Ecosystem Response to the Atlantic Multidecadal Oscillation. PLoS ONE, 2013, 8, e57212.	2.5	105
24	Marine regime shifts around the globe: theory, drivers and impacts. Philosophical Transactions of the Royal Society B: Biological Sciences, 2015, 370, 20130260.	4.0	102
25	Warming shelf seas drive the subtropicalization of European pelagic fish communities. Global Change Biology, 2015, 21, 144-153.	9.5	96
26	Developing priority variables (â€œecosystem Essential Ocean Variablesâ€•â€” eEOVs) for observing dynamics and change in Southern Ocean ecosystems. Journal of Marine Systems, 2016, 161, 26-41.	2.1	89
27	Long-term changes in the pelagos, benthos and fisheries of the North Sea. Senckenbergiana Maritima, 2001, 31, 107-115.	0.5	85
28	Long-term responses of North Atlantic calcifying plankton to climate change. Nature Climate Change, 2013, 3, 263-267.	18.8	85
29	Coccolithophore bloom size variation in response to the regional environment of the subarctic North Atlantic. Limnology and Oceanography, 2006, 51, 2122-2130.	3.1	83
30	Toxic marine microalgae and shellfish poisoning in the British isles: history, review of epidemiology, and future implications. Environmental Health, 2011, 10, 54.	4.0	75
31	Extending the SeaWiFS chlorophyll data set back 50 years in the northeast Atlantic. Geophysical Research Letters, 2005, 32, .	4.0	73
32	Strategies for the sustainability of online open-access biodiversity databases. Biological Conservation, 2014, 173, 155-165.	4.1	69
33	A Global Plankton Diversity Monitoring Program. Frontiers in Marine Science, 2019, 6, .	2.5	57
34	Multiâ€decadal range changes vs. thermal adaptation for north east Atlantic oceanic copepods in the face of climate change. Global Change Biology, 2014, 20, 140-146.	9.5	48
35	Multidecadal Atlantic climate variability and its impact on marine pelagic communities. Journal of Marine Systems, 2014, 133, 55-69.	2.1	47
36	A functional size-spectrum model of the global marine ecosystem that resolves zooplankton composition. Ecological Modelling, 2020, 435, 109265.	2.5	44

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37	The Continuous Plankton Recorder survey: How can long-term phytoplankton datasets contribute to the assessment of Good Environmental Status?. Estuarine, Coastal and Shelf Science, 2015, 162, 88-97.	2.1	42
38	Methods for the Study of Marine Biodiversity. , 2017, , 129-163.		34
39	Influence of Climate Change and Trophic Coupling across Four Trophic Levels in the Celtic Sea. PLoS ONE, 2012, 7, e47408.	2.5	34
40	Synchronous response of marine plankton ecosystems to climate in the Northeast Atlantic and the North Sea. Journal of Marine Systems, 2014, 129, 189-202.	2.1	31
41	Spatial distributions and seasonality of four Calanus species in the Northeast Atlantic. Progress in Oceanography, 2020, 185, 102344.	3.2	29
42	Long-Term Retrospective Analysis of Mackerel Spawning in the North Sea: A New Time Series and Modeling Approach to CPR Data. PLoS ONE, 2012, 7, e38758.	2.5	28
43	Testing Bergmann's rule in marine copepods. Ecography, 2021, 44, 1283-1295.	4.5	28
44	Differences in performance among four indices used to evaluate diversity in planktonic ecosystems. Oceanologica Acta: European Journal of Oceanology - Revue Europeene De Oceanologie, 2001, 24, 467-477.	0.7	23
45	An Integrated All-Atlantic Ocean Observing System in 2030. Frontiers in Marine Science, 2019, 6, .	2.5	23
46	Spatial patterns and trends in abundance of larval sandeels in the North Sea: 1950â€“2005. ICES Journal of Marine Science, 2013, 70, 540-553.	2.5	22
47	Novel lineage patterns from an automated water sampler to probe marine microbial biodiversity with ships of opportunity. Progress in Oceanography, 2015, 137, 409-420.	3.2	21
48	Annual phytoplankton succession results from niche-environment interaction. Journal of Plankton Research, 2021, 43, 85-102.	1.8	21
49	Stepping stones towards Antarctica: Switch to southern spawning grounds explains an abrupt range shift in krill. Global Change Biology, 2022, 28, 1359-1375.	9.5	21
50	Comparative analysis of European wide marine ecosystem shifts: a large-scale approach for developing the basis for ecosystem-based management. Biology Letters, 2011, 7, 484-486.	2.3	18
51	Long-term changes in abundance and distribution of microzooplankton in the NE Atlantic and North Sea. Journal of Plankton Research, 2012, 34, 83-91.	1.8	18
52	Understanding Long-Term Changes in Species Abundance Using a Niche-Based Approach. PLoS ONE, 2013, 8, e79186.	2.5	18
53	An ecological partition of the Atlantic Ocean and its adjacent seas. Progress in Oceanography, 2019, 173, 86-102.	3.2	15
54	North Atlantic warming over six decades drives decreases in krill abundance with no associated range shift. Communications Biology, 2021, 4, 644.	4.4	15

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55	Climate variability and multi-decadal diatom abundance in the Northeast Atlantic. Communications Earth & Environment, 2022, 3, .	6.8	15
56	Phenological shuffling of major marine phytoplankton groups over the last six decades. Diversity and Distributions, 2020, 26, 536-548.	4.1	14
57	Multidecadal spatial reorganisation of plankton communities in the North East Atlantic. Journal of Marine Systems, 2015, 142, 16-24.	2.1	12
58	Overwintering distribution, inflow patterns and sustainability of Calanus finmarchicus in the North Sea. Progress in Oceanography, 2021, 194, 102567.	3.2	12
59	Reply to Haddock, S.H.D. Reconsidering evidence for potential climateâ€related increases in jellyfish. Limnology and Oceanography, 2008, 53, 2763-2766.	3.1	11
60	Harmful algal blooms in the Eastern North Atlantic Ocean. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, E9763-E9764.	7.1	11
61	Trans-Arctic Invasion in Modern Times. Science, 2008, 322, 528-528.	12.6	10
62	Morphological traits, niche-environment interaction and temporal changes in diatoms. Progress in Oceanography, 2022, 201, 102747.	3.2	10
63	Seasonal cycles and long-term trends of plankton in shelf and oceanic habitats of the Norwegian Sea in relation to environmental variables. Deep-Sea Research Part II: Topical Studies in Oceanography, 2009, 56, 1895-1909.	1.4	9
64	Macroscale factors affecting diatom abundance: a synergistic use of Continuous Plankton Recorder and satellite remote sensing data. International Journal of Remote Sensing, 2011, 32, 2081-2094.	2.9	9
65	Sea Life (Pelagic and Planktonic Ecosystems) as an Indicator of Climate and Global Change. , 2009, , 233-251.		5
66	Plankton biogeography in the North Atlantic Ocean and its adjacent seas: Species assemblages and environmental signatures. Ecology and Evolution, 2021, 11, 5135-5149.	1.9	5
67	Change at the community level. Nature Climate Change, 2011, 1, 398-399.	18.8	3
68	Sea Life (Pelagic Ecosystems). , 2016, , 167-182.		0
69	Sea life (pelagic ecosystems). , 2021, , 409-425.		0