Nina Bednarsek

List of Publications by Year
in descending order

48 papers	2,459 citations	218677 26 h-index	223800 46 g-index
50 all docs	50 docs citations	50 times ranked	2684 citing authors

#	Article	IF	Citations
1	Extensive dissolution of live pteropods in the Southern Ocean. Nature Geoscience, 2012, 5, 881-885.	12.9	266
2	Limacina helicinashell dissolution as an indicator of declining habitat suitability owing to ocean acidification in the California Current Ecosystem. Proceedings of the Royal Society B: Biological Sciences, 2014, 281, 20140123.	2.6	194
3	MAREDAT: towards a world atlas of MARine Ecosystem DATa. Earth System Science Data, 2013, 5, 227-239.	9.9	145
4	Chemical and biological impacts of ocean acidification along the west coast of North America. Estuarine, Coastal and Shelf Science, 2016, 183, 260-270.	2.1	121
5	Dissolution Dominating Calcification Process in Polar Pteropods Close to the Point of Aragonite Undersaturation. PLoS ONE, 2014, 9, e109183.	2.5	100
6	The combined effects of acidification and hypoxia on pH and aragonite saturation in the coastal waters of the California current ecosystem and the northern Gulf of Mexico. Continental Shelf Research, 2018, 152, 50-60.	1.8	94
7	Description and quantification of pteropod shell dissolution: a sensitive bioindicator of ocean acidification. Global Change Biology, 2012, 18, 2378-2388.	9.5	91
8	The global distribution of pteropods and their contribution to carbonate and carbon biomass in the modern ocean. Earth System Science Data, 2012, 4, 167-186.	9.9	91
9	Pteropods on the edge: Cumulative effects of ocean acidification, warming, and deoxygenation. Progress in Oceanography, 2016, 145, 1-24.	3.2	86
10	Shelled pteropods in peril: Assessing vulnerability in a high CO2 ocean. Earth-Science Reviews, 2017, 169, 132-145.	9.1	78
11	Global Observational Needs and Resources for Marine Biodiversity. Frontiers in Marine Science, 2019, 6, .	2.5	77
12	Systematic Review and Meta-Analysis Toward Synthesis of Thresholds of Ocean Acidification Impacts on Calcifying Pteropods and Interactions With Warming. Frontiers in Marine Science, 2019, 6, .	2.5	69
13	Natural and Anthropogenic Drivers of Acidification in Large Estuaries. Annual Review of Marine Science, 2021, 13, 23-55.	11.6	68
14	Changes in pteropod distributions and shell dissolution across a frontal system in the California Current System. Marine Ecology - Progress Series, 2015, 523, 93-103.	1.9	67
15	Exposure history determines pteropod vulnerability to ocean acidification along the US West Coast. Scientific Reports, 2017, 7, 4526.	3.3	66
16	Large Contribution of Pteropods to Shallow CaCO₃ Export. Global Biogeochemical Cycles, 2019, 33, 458-468.	4.9	66
17	Poles Apart: The â€œBipolarâ€•Pteropod Species Limacina helicina Is Genetically Distinct Between the Arctic and Antarctic Oceans. PLoS ONE, 2010, 5, e9835.	2.5	65
18	Understanding Ocean Acidification Impacts on Organismal to Ecological Scales. Oceanography, 2015, 25, 16-27.	1.0	61

#	Article	IF	Citations
19	Interpretation and design of ocean acidification experiments in upwelling systems in the context of carbonate chemistry co-variation with temperature and oxygen. ICES Journal of Marine Science, 2016, 73, 582-595.	2.5	58
20	New ocean, new needs: Application of pteropod shell dissolution as a biological indicator for marine resource management. Ecological Indicators, 2017, 76, 240-244.	6.3	55
21	Exoskeleton dissolution with mechanoreceptor damage in larval Dungeness crab related to severity of present-day ocean acidification vertical gradients. Science of the Total Environment, 2020, 716, 136610.	8.0	54
22	Population dynamics and biogeochemical significance of Limacina helicina antarctica in the Scotia Sea (Southern Ocean). Deep-Sea Research Part II: Topical Studies in Oceanography, 2012, 59-60, 105-116.	1.4	52
23	Sink and swim: a status review of thecosome pteropod culture techniques. Journal of Plankton Research, 2014, 36, 299-315.	1.8	48
24	Coastal eutrophication drives acidification, oxygen loss, and ecosystem change in a major oceanic upwelling system. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	7.1	41
25	Water quality criteria for an acidifying ocean: Challenges and opportunities for improvement. Ocean and Coastal Management, 2016, 126, 31-41.	4.4	36
26	El NiÃ±o-Related Thermal Stress Coupled With Upwelling-Related Ocean Acidification Negatively Impacts Cellular to Population-Level Responses in Pteropods Along the California Current System With Implications for Increased Bioenergetic Costs. Frontiers in Marine Science, 2018, 5, .	2.5	33
27	Towards Integrating Evolution, Metabolism, and Climate Change Studies of Marine Ecosystems. Trends in Ecology and Evolution, 2019, 34, 1022-1033.	8.7	28
28	Pteropods make thinner shells in the upwelling region of the California Current Ecosystem. Scientific Reports, 2021, 11, 1731.	3.3	28
29	Comment on Peck et al: Vulnerability of pteropod (Limacina helicina) to ocean acidification: shell dissolution occurs despite an intact organic layer. Deep-Sea Research Part II: Topical Studies in Oceanography, 2016, 127, 53-56.	1.4	23
30	Integrated Assessment of Ocean Acidification Risks to Pteropods in the Northern High Latitudes: Regional Comparison of Exposure, Sensitivity and Adaptive Capacity. Frontiers in Marine Science, 2021, 8, .	2.5	23
31	Biogeography and genetic diversity of the atlantid heteropods. Progress in Oceanography, 2018, 160, 1-25.	3.2	21
32	Enhanced monitoring of life in the sea is a critical component of conservation management and sustainable economic growth. Marine Policy, 2021, 132, 104699.	3.2	21
33	Eco-physiological responses of copepods and pteropods to ocean warming and acidification. Scientific Reports, 2019, 9, 4748.	3.3	16
34	Synthesis of Thresholds of Ocean Acidification Impacts on Echinoderms. Frontiers in Marine Science, 2021, 8, .	2.5	15
35	Characterizing the Natural System: Toward Sustained, Integrated Coastal Ocean Acidification Observing Networks to Facilitate Resource Management and Decision Support. Oceanography, 2015, 25, 92-107.	1.0	14
36	Biological Impact of Ocean Acidification in the Canadian Arctic: Widespread Severe Pteropod Shell Dissolution in Amundsen Gulf. Frontiers in Marine Science, 2021, 8, .	2.5	14

#	Article	IF	Citations
37	Synthesis of Thresholds of Ocean Acidification Impacts on Decapods. Frontiers in Marine Science, 2021, 8, .	2.5	11
38	The Importance of Environmental Exposure History in Forecasting Dungeness Crab Megalopae Occurrence Using J-SCOPE, a High-Resolution Model for the US Pacific Northwest. Frontiers in Marine Science, 2020, 7, .	2.5	10
39	Natural Analogues in pH Variability and Predictability across the Coastal Pacific Estuaries: Extrapolation of the Increased Oyster Dissolution under Increased pH Amplitude and Low Predictability Related to Ocean Acidification. Environmental Science & Technology, 2022, 56, 9015-9028.	10.0	10
40	Chemical Exposure Due to Anthropogenic Ocean Acidification Increases Risks for Estuarine Calcifiers in the Salish Sea: Biogeochemical Model Scenarios. Frontiers in Marine Science, 2020, 7, .	2.5	9
41	Severe biological effects under present-day estuarine acidification in the seasonally variable Salish Sea. Science of the Total Environment, 2021, 765, 142689.	8.0	9
42	<p class="HeadingRunIn">The shelled pteropods of the northeast Pacific Ocean (Mollusca: Heterobranchia, Pteropoda)</p>. Zoosymposia, 2019, 13, 305-346.	0.3	8
43	Relationship between shell integrity of pelagic gastropods and carbonate chemistry parameters at a Scottish Coastal Observatory monitoring site. ICES Journal of Marine Science, 2019, , .	2.5	5
44	Influence of bacteria on shell dissolution in dead gastropod larvae and adult Limacina helicina pteropods under ocean acidification conditions. Marine Biology, 2018, 165, 1.	1.5	4
45	Editorial: Acidification and Hypoxia in Marginal Seas. Frontiers in Marine Science, 2022, 9, .	2.5	3
46	Pelagic calcifiers face increased mortality and habitat loss with warming and ocean acidification. Ecological Applications, 2022, 32, e2674.	3.8	2
47	Role of Technology in Ocean Acidification: Monitoring, Water-Quality Impairments, CO 2 Mitigation, and Machine Learning. , 2017, , 125-133.		1
48	Corrigendum to "The global distribution of pteropods and their contribution to carbonate and carbon biomass in the modern ocean" published in Earth Syst. Sci. Data, 4, 167â€“186, 2012. Earth System Science Data, 2013, 5, 1-1.	9.9	0