George G Waldbusser

List of Publications by Year
in descending order

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38 papers	3,572 citations	257450 24 h-index	315739 38 g-index
38 all docs	38 docs citations	38 times ranked	3148 citing authors

#	Article	IF	Citations
1	The Pacific oyster, Crassostrea gigas, shows negative correlation to naturally elevated carbon dioxide levels: Implications for nearâ€term ocean acidification effects. Limnology and Oceanography, 2012, 57, 698-710.	3.1	424
2	Saturation-state sensitivity of marine bivalve larvae to ocean acidification. Nature Climate Change, 2015, 5, 273-280.	18.8	352
3	Ocean Acidification in the Coastal Zone from an Organism's Perspective: Multiple System Parameters, Frequency Domains, and Habitats. Annual Review of Marine Science, 2014, 6, 221-247.	11.6	330
4	Vulnerability and adaptation of US shellfisheries to ocean acidification. Nature Climate Change, 2015, 5, 207-214.	18.8	265
5	Biocalcification in the Eastern Oyster (Crassostrea virginica) in Relation to Long-term Trends in Chesapeake Bay pH. Estuaries and Coasts, 2011, 34, 221-231.	2.2	224
6	A developmental and energetic basis linking larval oyster shell formation to acidification sensitivity. Geophysical Research Letters, 2013, 40, 2171-2176.	4.0	183
7	Impacts of Coastal Acidification on the Pacific Northwest Shellfish Industry and Adaptation Strategies Implemented in Response. Oceanography, 2015, 25, 146-159.	1.0	179
8	Death by dissolution: Sediment saturation state as a mortality factor for juvenile bivalves. Limnology and Oceanography, 2009, 54, 1037-1047.	3.1	166
9	Ocean Acidification Has Multiple Modes of Action on Bivalve Larvae. PLoS ONE, 2015, 10, e0128376.	2.5	140
10	Redox reactions and weak buffering capacity lead to acidification in the Chesapeake Bay. Nature Communications, 2017, 8, 369.	12.8	128
11	Mitigating Local Causes of Ocean Acidification with Existing Laws. Science, 2011, 332, 1036-1037.	12.6	111
12	Seagrass habitat metabolism increases short-term extremes and long-term offset of CO ₂ under future ocean acidification. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 3870-3875.	7.1	111
13	Oyster Shell Dissolution Rates in Estuarine Waters: Effects of pH and Shell Legacy. Journal of Shellfish Research, 2011, 30, 659-669.	0.9	109
14	Size-dependent pH effect on calcification in post-larval hard clam Mercenaria spp.. Marine Ecology - Progress Series, 2010, 417, 171-182.	1.9	102
15	Carbonate Mineral Saturation State as the Recruitment Cue for Settling Bivalves in Marine Muds. Estuaries and Coasts, 2013, 36, 18-27.	2.2	74
16	Ecosystem effects of shell aggregations and cycling in coastal waters: an example of Chesapeake Bay oyster reefs. Ecology, 2013, 94, 895-903.	3.2	68
17	Calcium carbonate saturation state: on myths and this or that stories. ICES Journal of Marine Science, 2016, 73, 563-568.	2.5	68
18	Exposure history determines pteropod vulnerability to ocean acidification along the US West Coast. Scientific Reports, 2017, 7, 4526.	3.3	66

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19	Coral Reefs and People in a High-CO2 World: Where Can Science Make a Difference to People?. PLoS ONE, 2016, 11, e0164699.	2.5	64
20	Slow shell building, a possible trait for resistance to the effects of acute ocean acidification. Limnology and Oceanography, 2016, 61, 1969-1983.	3.1	62
21	Controls on Carbonate System Dynamics in a Coastal Plain Estuary: A Modeling Study. Journal of Geophysical Research G: Biogeosciences, 2019, 124, 61-78.	3.0	51
22	Macrofaunal modification of porewater advection: role of species function, species interaction, and kinetics. Marine Ecology - Progress Series, 2006, 311, 217-231.	1.9	47
23	Chesapeake Bay acidification buffered by spatially decoupled carbonate mineral cycling. Nature Geoscience, 2020, 13, 441-447.	12.9	44
24	The Carbonate Chemistry of the â€œFattening Line‚€•Willapa Bay, 2011â€“2014. Estuaries and Coasts, 2017, 40, 173-186.	2.2	27
25	Perception and Response of the U.S. West Coast Shellfish Industry to Ocean Acidification: The Voice of the Canaries in the Coal Mine. Journal of Shellfish Research, 2015, 34, 565-572.	0.9	26
26	Riverine discharges impact physiological traits and carbon sources for shell carbonate in the marine intertidal mussel Perumytilus purpuratus. Limnology and Oceanography, 2016, 61, 969-983.	3.1	22
27	Mechanistic understanding of ocean acidification impacts on larval feeding physiology and energy budgets of the mussel Mytilus californianus. Marine Ecology - Progress Series, 2017, 563, 81-94.	1.9	22
28	Ocean acidification stress index for shellfish (OASIS): Linking Pacific oyster larval survival and exposure to variable carbonate chemistry regimes. Elementa, 2018, 6, .	3.2	19
29	A post-larval stage-based model of hard clam Mercenaria mercenaria development in response to multiple stressors: temperature and acidification severity. Marine Ecology - Progress Series, 2016, 558, 35-49.	1.9	18
30	Mechanisms to Explain the Elemental Composition of the Initial Aragonite Shell of Larval Oysters. Geochemistry, Geophysics, Geosystems, 2018, 19, 1064-1079.	2.5	14
31	Resilience and adaptive capacity of Oregonâ€™s fishing community: Cumulative impacts of climate change and the graying of the fleet. Marine Policy, 2021, 126, 104424.	3.2	14
32	Plant-animal-microbe interactions in coastal sediments: Closing the ecological loop. Coastal and Estuarine Studies, 2005, , 233-249.	0.4	9
33	Evidence of infaunal effects on porewater advection and biogeochemistry in permeable sediments: A proposed infaunal functional group framework. Journal of Marine Research, 2009, 67, 503-532.	0.3	9
34	Burrow patchiness and oxygen fluxes in bioirrigated sediments. Journal of Experimental Marine Biology and Ecology, 2012, 412, 81-86.	1.5	7
35	Modeling lugworm irrigation behavior effects on sediment nitrogen cycling. Marine Ecology - Progress Series, 2015, 534, 121-134.	1.9	7
36	A longitudinal study of Pacific oyster (Crassostrea gigas) larval development: isotope shifts during early shell formation reveal sub-lethal energetic stress. Marine Ecology - Progress Series, 2016, 555, 109-123.	1.9	7

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37	The dynamic ocean acidification manipulation experimental system: Separating carbonate variables and simulating natural variability in laboratory flowâ€through experiments. Limnology and Oceanography: Methods, 2019, 17, 343-361.	2.0	2
38	JSR Special Section Oa Primer and Introduction. Journal of Shellfish Research, 2019, 38, 707.	0.9	1