Brian Gaylord

List of Publications by Year
in descending order

38 papers	2,471 citations	257450 24 h-index	361022 35 g-index
38 all docs	38 docs citations	38 times ranked	2703 citing authors

#	Article	IF	Citations
1	Mechanical Consequences of Size in Waveâ€Swept Algae. Ecological Monographs, 1994, 64, 287-313.	5.4	211
2	Functional impacts of ocean acidification in an ecologically critical foundation species. Journal of Experimental Biology, 2011, 214, 2586-2594.	1.7	204
3	Ocean acidification can mediate biodiversity shifts by changing biogenic habitat. Nature Climate Change, 2017, 7, 81-85.	18.8	164
4	A PHYSICALLY BASED MODEL OF MACROALGAL SPORE DISPERSAL IN THE WAVE AND CURRENT-DOMINATED NEARSHORE. Ecology, 2002, 83, 1239-1251.	3.2	159
5	Spatial patterns of flow and their modification within and around a giant kelp forest. Limnology and Oceanography, 2007, 52, 1838-1852.	3.1	148
6	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
7	Detailing agents of physical disturbance: wave-induced velocities and accelerations on a rocky shore. Journal of Experimental Marine Biology and Ecology, 1999, 239, 85-124.	1.5	116
8	Predicting the Effects of Ocean Acidification on Predator-Prey Interactions: A Conceptual Framework Based on Coastal Molluscs. Biological Bulletin, 2014, 226, 211-222.	1.8	108
9	MACROALGAL SPORE DISPERSAL IN COASTAL ENVIRONMENTS: MECHANISTIC INSIGHTS REVEALED BY THEORY AND EXPERIMENT. Ecological Monographs, 2006, 76, 481-502.	5.4	105
10	The menace of momentum: Dynamic forces on flexible organisms. Limnology and Oceanography, 1998, 43, 955-968.	3.1	101
11	Biological implications of surfâ€zone flow complexity. Limnology and Oceanography, 2000, 45, 174-188.	3.1	97
12	Physical pathways and utilization of nitrate supply to the giant kelp, Macrocystis pyrifera. Limnology and Oceanography, 2008, 53, 1589-1603.	3.1	78
13	MARINE RESERVES EXPLOIT POPULATION STRUCTURE AND LIFE HISTORY IN POTENTIALLY IMPROVING FISHERIES YIELDS. , 2005, 15, 2180-2191.		76
14	Larval carryâ€over effects from ocean acidification persist in the natural environment. Global Change Biology, 2013, 19, 3317-3326.	9.5	75
15	The Role of Temperature in Determining Species' Vulnerability to Ocean Acidification: A Case Study Using Mytilus galloprovincialis. PLoS ONE, 2014, 9, e100353.	2.5	64
16	Physicalâ€“biological coupling in spore dispersal of kelp forest macroalgae. Journal of Marine Systems, 2004, 49, 19-39.	2.1	62
17	Ocean acidification alters the response of intertidal snails to a key sea star predator. Proceedings of the Royal Society B: Biological Sciences, 2016, 283, 20160890.	2.6	61
18	Turbulent shear spurs settlement in larval sea urchins. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 6901-6906.	7.1	58

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19	Modulation of wave forces on kelp canopies by alongshore currents. Limnology and Oceanography, 2003, 48, 860-871.	3.1	57
20	Coastâ€wide evidence of low pH amelioration by seagrass ecosystems. Global Change Biology, 2021, 27, 2580-2591.	9.5	56
21	Expected limits on the ocean acidification buffering potential of a temperate seagrass meadow. Ecological Applications, 2018, 28, 1694-1714.	3.8	54
22	Marine Population Connectivity: Reconciling Large-Scale Dispersal and High Self-Retention. American Naturalist, 2015, 185, 196-211.	2.1	53
23	Flow Forces on Seaweeds: Field Evidence for Roles of Wave Impingement and Organism Inertia. Biological Bulletin, 2008, 215, 295-308.	1.8	50
24	Patterns of Mass Mortality among Rocky Shore Invertebrates across 100 km of Northeastern Pacific Coastline. PLoS ONE, 2015, 10, e0126280.	2.5	45
25	Edge effects reverse facilitation by a widespread foundation species. Scientific Reports, 2016, 6, 37573.	3.3	26
26	Rethinking competence in marine life cycles: ontogenetic changes in the settlement response of sand dollar larvae exposed to turbulence. Royal Society Open Science, 2015, 2, 150114.	2.4	19
27	Open Wave Height Logger: An open source pressure sensor data logger for wave measurement. Limnology and Oceanography: Methods, 2020, 18, 335-345.	2.0	19
28	Ocean acidification research in the â€˜post-genomicâ€™ era: Roadmaps from the purple sea urchin Strongylocentrotus purpuratus. Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology, 2015, 185, 33-42.	1.8	18
29	Hydrodynamic Context for Considering Turbulence Impacts on External Fertilization. Biological Bulletin, 2008, 214, 315-318.	1.8	17
30	Seagrass-driven changes in carbonate chemistry enhance oyster shell growth. Oecologia, 2021, 196, 565-576.	2.0	13
31	Facilitation alters climate change risk on rocky shores. Ecology, 2022, 103, e03596.	3.2	10
32	Biological modification of seawater chemistry by an ecosystem engineer, the California mussel, <i>Mytilus californianus</i>. Limnology and Oceanography, 2020, 65, 157-172.	3.1	9
33	Effect of Elevated pCO2 on Metabolic Responses of Porcelain Crab (Petrolisthes cinctipes) Larvae Exposed to Subsequent Salinity Stress. PLoS ONE, 2014, 9, e109167.	2.5	6
34	Brief exposure to intense turbulence induces a sustained life-history shift in echinoids. Journal of Experimental Biology, 2018, 222, .	1.7	3
35	Flow, form and force: methods and frameworks for field studies of macroalgal biomechanics. Journal of Experimental Botany, 2021, , .	4.8	3
36	Reviews and syntheses: Spatial and temporal patterns in seagrass metabolic fluxes. Biogeosciences, 2022, 19, 689-699.	3.3	2

#	Article	IF	Citations
37	Commentary: Overstated Potential for Seagrass Meadows to Mitigate Coastal Ocean Acidification. Frontiers in Marine Science, 2022, 9, .	2.5	2
38	MACROALGAL SPORE DISPERSAL IN COASTAL ENVIRONMENTS: MECHANISTIC INSIGHTS REVEALED BY THEORY AND EXPERIMENT. , 2006, 76, 481.		1