

# Frédéric Gazeau

## List of Publications by Year in descending order

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Version: 2024-02-01

57  
papers

4,264  
citations

201385

27  
h-index

149479

56  
g-index

77  
all docs

77  
docs citations

77  
times ranked

5000  
citing authors

#	ARTICLE	IF	CITATIONS
1	Impact of elevated CO <sub>2</sub> on shellfish calcification. <i>Geophysical Research Letters</i> , 2007, 34, .	1.5	591
2	Impacts of ocean acidification on marine shelled molluscs. <i>Marine Biology</i> , 2013, 160, 2207-2245.	0.7	557
3	Marine ecosystems'™ responses to climatic and anthropogenic forcings in the Mediterranean. <i>Progress in Oceanography</i> , 2011, 91, 97-166.	1.5	385
4	Carbon dioxide in European coastal waters. <i>Estuarine, Coastal and Shelf Science</i> , 2006, 70, 375-387.	0.9	239
5	Gas transfer velocities of CO <sub>2</sub> in three European estuaries (Randers Fjord, Scheldt, and Tj ETQq1 1 0.784314 rgBT / Overlo	1.6	238
6	Variability of the gas transfer velocity of CO <sub>2</sub> in a macrotidal estuary (the Scheldt). <i>Estuaries and Coasts</i> , 2004, 27, 593-603.	1.7	205
7	Effect of ocean acidification on the early life stages of the blue mussel &Mytilus edulis&. <i>Biogeosciences</i> , 2010, 7, 2051-2060.	1.3	179
8	The European coastal zone: characterization and first assessment of ecosystem metabolism. <i>Estuarine, Coastal and Shelf Science</i> , 2004, 60, 673-694.	0.9	135
9	A model for sustainable management of shellfish polyculture in coastal bays. <i>Aquaculture</i> , 2003, 219, 257-277.	1.7	110
10	Planktonic and whole system metabolism in a nutrient-rich estuary (the Scheldt estuary). <i>Estuaries and Coasts</i> , 2005, 28, 868-883.	1.7	103
11	Connected macroalgal-sediment systems: blue carbon and food webs in the deep coastal ocean. <i>Ecological Monographs</i> , 2019, 89, e01366.	2.4	103
12	Whole-system metabolism and CO <sub>2</sub> fluxes in a Mediterranean Bay dominated by seagrass beds (Palma Bay, NW Mediterranean). <i>Biogeosciences</i> , 2005, 2, 43-60.	1.3	91
13	Possible effects of global environmental changes on Antarctic benthos: a synthesis across five major taxa. <i>Ecology and Evolution</i> , 2012, 2, 453-485.	0.8	88
14	Effect of Carbonate Chemistry Alteration on the Early Embryonic Development of the Pacific Oyster ( <i>Crassostrea gigas</i> ). <i>PLoS ONE</i> , 2011, 6, e23010.	1.1	86
15	Net ecosystem metabolism in a micro-tidal estuary (Randers Fjord, Denmark): evaluation of methods. <i>Marine Ecology - Progress Series</i> , 2005, 301, 23-41.	0.9	86
16	Cascading Effects of Ocean Acidification in a Rocky Subtidal Community. <i>PLoS ONE</i> , 2013, 8, e61978.	1.1	72
17	Impact of ocean acidification and warming on the Mediterranean mussel ( <i>Mytilus galloprovincialis</i> ). <i>Frontiers in Marine Science</i> , 2014, 1, .	1.2	68
18	Coastal ocean acidification and increasing total alkalinity in the northwestern Mediterranean Sea. <i>Ocean Science</i> , 2017, 13, 411-426.	1.3	65

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19	Impacts of ocean acidification in a warming Mediterranean Sea: An overview. <i>Regional Studies in Marine Science</i> , 2016, 5, 1-11.	0.4	59
20	Effects of ocean acidification on <i>Posidonia oceanica</i> epiphytic community and shoot productivity. <i>Journal of Ecology</i> , 2015, 103, 1594-1609.	1.9	53
21	Free-ocean CO <sub>2</sub> enrichment (FOCE) systems: present status and future developments. <i>Biogeosciences</i> , 2014, 11, 4057-4075.	1.3	51
22	Effects of in situ CO <sub>2</sub> enrichment on structural characteristics, photosynthesis, and growth of the Mediterranean seagrass <i>Posidonia oceanica</i> . <i>Biogeosciences</i> , 2016, 13, 2179-2194.	1.3	48
23	Primary marine aerosol emissions from the Mediterranean Sea during pre-bloom and oligotrophic conditions: correlations to seawater chlorophyll <i>a</i> from a mesocosm study. <i>Atmospheric Chemistry and Physics</i> , 2015, 15, 7961-7976.	1.9	47
24	Sensitivity of Mediterranean Bivalve Mollusc Aquaculture to Climate Change, Ocean Acidification, and Other Environmental Pressures: Findings from a Producer Survey. <i>Journal of Shellfish Research</i> , 2015, 34, 1161-1176.	0.3	41
25	Impacts of Ocean Acidification on Sediment Processes in Shallow Waters of the Arctic Ocean. <i>PLoS ONE</i> , 2014, 9, e94068.	1.1	40
26	First mesocosm experiments to study the impacts of ocean acidification on plankton communities in the NW Mediterranean Sea (MedSeA project). <i>Estuarine, Coastal and Shelf Science</i> , 2017, 186, 11-29.	0.9	35
27	No detectable effect of ocean acidification on plankton metabolism in the NW oligotrophic Mediterranean Sea: Results from two mesocosm studies. <i>Estuarine, Coastal and Shelf Science</i> , 2017, 186, 89-99.	0.9	31
28	Effect of ocean warming and acidification on a plankton community in the NW Mediterranean Sea. <i>ICES Journal of Marine Science</i> , 2015, 72, 1744-1755.	1.2	30
29	Time series of the partial pressure of carbon dioxide (2001-2004) and preliminary inorganic carbon budget in the Scheldt plume (Belgian coastal waters). <i>Geochemistry, Geophysics, Geosystems</i> , 2006, 7, n/a-n/a.	1.0	28
30	Planktonic primary production in estuaries: comparison of <sup>14</sup> C, O <sub>2</sub> and <sup>18</sup> O methods. <i>Aquatic Microbial Ecology</i> , 2007, 46, 95-106.	0.9	27
31	Comparison of the alkalinity and calcium anomaly techniques to estimate rates of net calcification. <i>Marine Ecology - Progress Series</i> , 2015, 527, 1-12.	0.9	27
32	Ocean acidification effect on prokaryotic metabolism tested in two diverse trophic regimes in the Mediterranean Sea. <i>Estuarine, Coastal and Shelf Science</i> , 2017, 186, 125-138.	0.9	25
33	Complex Effects of Ecosystem Engineer Loss on Benthic Ecosystem Response to Detrital Macroalgae. <i>PLoS ONE</i> , 2013, 8, e66650.	1.1	20
34	Limited impact of ocean acidification on phytoplankton community structure and carbon export in an oligotrophic environment: Results from two short-term mesocosm studies in the Mediterranean Sea. <i>Estuarine, Coastal and Shelf Science</i> , 2017, 186, 72-88.	0.9	20
35	ARTIFICIAL NEURAL NETWORK ANALYSIS OF FACTORS CONTROLLING ECOSYSTEM METABOLISM IN COASTAL SYSTEMS. , 2007, 17, S185-S196.		19
36	Effects of in situ CO <sub>2</sub> enrichment on <i>Posidonia oceanica</i> epiphytic community composition and mineralogy. <i>Marine Biology</i> , 2017, 164, 1.	0.7	19

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37	Ocean acidification impacts on nitrogen fixation in the coastal western Mediterranean Sea. <i>Estuarine, Coastal and Shelf Science</i> , 2017, 186, 45-57.	0.9	16
38	Free Ocean CO <sub>2</sub> Enrichment (FOCE) experiments: Scientific and technical recommendations for future in situ ocean acidification projects. <i>Progress in Oceanography</i> , 2019, 172, 89-107.	1.5	16
39	Coccolithophore community response to increasing pCO <sub>2</sub> in Mediterranean oligotrophic waters. <i>Estuarine, Coastal and Shelf Science</i> , 2017, 186, 58-71.	0.9	15
40	Experimental evidence of formation of transparent exopolymer particles (TEP) and POC export provoked by dust addition under current and high pCO <sub>2</sub> conditions. <i>PLoS ONE</i> , 2017, 12, e0171980.	1.1	15
41	Ocean acidification affects calcareous tube growth in adult stage and reared offspring of serpulid polychaetes. <i>Journal of Experimental Biology</i> , 2019, 222, .	0.8	15
42	Revisiting tolerance to ocean acidification: Insights from a new framework combining physiological and molecular tipping points of Pacific oyster. <i>Global Change Biology</i> , 2022, 28, 3333-3348.	4.2	15
43	Impact of dust addition on the metabolism of Mediterranean plankton communities and carbon export under present and future conditions of pH and temperature. <i>Biogeosciences</i> , 2021, 18, 5423-5446.	1.3	14
44	Nutrient dynamics under different ocean acidification scenarios in a low nutrient low chlorophyll system: The Northwestern Mediterranean Sea. <i>Estuarine, Coastal and Shelf Science</i> , 2017, 186, 30-44.	0.9	13
45	Effects of in situ CO <sub>2</sub> enrichment on epibiont settlement on artificial substrata within a <i>Posidonia oceanica</i> meadow. <i>Journal of Experimental Marine Biology and Ecology</i> , 2017, 497, 197-211.	0.7	12
46	Impact of ocean acidification on the biogeochemistry and meiofaunal assemblage of carbonate-rich sediments: Results from core incubations (Bay of Villefranche, NW Mediterranean Sea). <i>Marine Chemistry</i> , 2018, 203, 102-119.	0.9	11
47	Carbon-13 labelling shows no effect of ocean acidification on carbon transfer in Mediterranean plankton communities. <i>Estuarine, Coastal and Shelf Science</i> , 2017, 186, 100-111.	0.9	10
48	Copepod response to ocean acidification in a low nutrient-low chlorophyll environment in the NW Mediterranean Sea. <i>Estuarine, Coastal and Shelf Science</i> , 2017, 186, 152-162.	0.9	10
49	Impact of dust addition on Mediterranean plankton communities under present and future conditions of pH and temperature: an experimental overview. <i>Biogeosciences</i> , 2021, 18, 5011-5034.	1.3	9
50	Ocean acidification and viral replication cycles: Frequency of lytically infected and lysogenic cells during a mesocosm experiment in the NW Mediterranean Sea. <i>Estuarine, Coastal and Shelf Science</i> , 2017, 186, 139-151.	0.9	8
51	Atmospheric nutrients in seawater under current and high p CO <sub>2</sub> conditions after Saharan dust deposition: Results from three minicosm experiments. <i>Progress in Oceanography</i> , 2018, 163, 40-49.	1.5	8
52	Dynamics of transparent exopolymeric particles and their precursors during a mesocosm experiment: Impact of ocean acidification. <i>Estuarine, Coastal and Shelf Science</i> , 2017, 186, 112-124.	0.9	6
53	Contrasted release of insoluble elements (Fe, Al, rare earth elements, Th, Pa) after dust deposition in seawater: a tank experiment approach. <i>Biogeosciences</i> , 2021, 18, 2663-2678.	1.3	6
54	Nitrogen fixation in the Mediterranean Sea related to the composition of the diazotrophic community and impact of dust under present and future environmental conditions. <i>Biogeosciences</i> , 2022, 19, 415-435.	1.3	5

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55	Impact of dust addition on the microbial food web under present and future conditions of pH and temperature. <i>Biogeosciences</i> , 2022, 19, 1303-1319.	1.3	5
56	Intercomparison of four methods to estimate coral calcification under various environmental conditions. <i>Biogeosciences</i> , 2020, 17, 887-899.	1.3	4
57	Chapitre 7., 2021, , 171-219.		2