

# Nicolas Gruber

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/3394049/publications.pdf>

Version: 2024-02-01

213  
papers

40,760  
citations

5268

83  
h-index

2828

191  
g-index

293  
all docs

293  
docs citations

293  
times ranked

29239  
citing authors

#	ARTICLE	IF	CITATIONS
1	A CO <sub>2</sub> -based method to determine the regional biospheric signal in atmospheric CO <sub>2</sub> . Tellus, Series B: Chemical and Physical Meteorology, 2022, 69, 1353388.	1.6	15
2	On the Processes Sustaining Biological Production in the Offshore Propagating Eddies of the Northern Canary Upwelling System. Journal of Geophysical Research: Oceans, 2022, 127, e2021JC017691.	2.6	12
3	Thank You to Our 2021 Peer Reviewers. AGU Advances, 2022, 3, .	5.4	0
4	Tracking the Spaceâ€Time Evolution of Ocean Acidification Extremes in the California Current System and Northeast Pacific. Journal of Geophysical Research: Oceans, 2022, 127, .	2.6	7
5	Global Carbon Budget 2021. Earth System Science Data, 2022, 14, 1917-2005.	9.9	663
6	Strong Habitat Compression by Extreme Shoaling Events of Hypoxic Waters in the Eastern Pacific. Journal of Geophysical Research: Oceans, 2022, 127, .	2.6	8
7	Introduction to the Chemical Oceanography of Frontal Zones. Handbook of Environmental Chemistry, 2022, , .	0.4	0
8	Around one third of current Arctic Ocean primary production sustained by rivers and coastal erosion. Nature Communications, 2021, 12, 169.	12.8	106
9	A Lagrangian study of the contribution of the Canary coastal upwelling to the nitrogen budget of the open North Atlantic. Biogeosciences, 2021, 18, 303-325.	3.3	3
10	The quiet crossing of ocean tipping points. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	7.1	64
11	Confronting Racism to Advance Our Science. AGU Advances, 2021, 2, e2020AV000296.	5.4	1
12	Thank You to Our 2020 Peer Reviewers. AGU Advances, 2021, 2, e2021AV000426.	5.4	0
13	OceanSODA-ETHZ: a global gridded data set of the surface ocean carbonate system for seasonal to decadal studies of ocean acidification. Earth System Science Data, 2021, 13, 777-808.	9.9	88
14	Drivers and impact of the seasonal variability of the organic carbon offshore transport in the Canary upwelling system. Biogeosciences, 2021, 18, 2429-2448.	3.3	7
15	MOSAIC (Modern Ocean Sediment Archive and Inventory of Carbon): a (radio)carbon-centric database for seafloor surficial sediments. Earth System Science Data, 2021, 13, 2135-2146.	9.9	8
16	The Impact of the Amazon on the Biological Pump and the Airâ€Sea CO <sub>2</sub> Balance of the Western Tropical Atlantic. Global Biogeochemical Cycles, 2021, 35, e2020GB006818.	4.9	9
17	Southern Ocean Phytoplankton Community Structure as a Gatekeeper for Global Nutrient Biogeochemistry. Global Biogeochemical Cycles, 2021, 35, e2021GB006991.	4.9	10
18	Major restructuring of marine plankton assemblages under global warming. Nature Communications, 2021, 12, 5226.	12.8	67

#	ARTICLE	IF	CITATIONS
19	Circulation timescales of Atlantic Water in the Arctic Ocean determined from anthropogenic radionuclides. <i>Ocean Science</i> , 2021, 17, 111-129.	3.4	20
20	SeaFlux: harmonization of air-sea CO <sub>2</sub> fluxes from surface & CO <sub>2</sub> data products using a standardized approach. <i>Earth System Science Data</i> , 2021, 13, 4693-4710.	9.9	51
21	Biogeochemical extremes and compound events in the ocean. <i>Nature</i> , 2021, 600, 395-407.	27.8	96
22	Decadal variability in twentieth-century ocean acidification in the California Current Ecosystem. <i>Nature Geoscience</i> , 2020, 13, 43-49.	12.9	51
23	Contrasting Upper and Deep Ocean Oxygen Response to Protracted Global Warming. <i>Global Biogeochemical Cycles</i> , 2020, 34, e2020GB006601.	4.9	24
24	Seasonal Carbon Dynamics in the Near-Global Ocean. <i>Global Biogeochemical Cycles</i> , 2020, 34, e2020GB006571.	4.9	32
25	Consistency and Challenges in the Ocean Carbon Sink Estimate for the Global Carbon Budget. <i>Frontiers in Marine Science</i> , 2020, 7, .	2.5	114
26	Thank You to Our 2019 Reviewers. <i>AGU Advances</i> , 2020, 1, e2020AV000181.	5.4	0
27	Sea-Ice Induced Southern Ocean Subsurface Warming and Surface Cooling in a Warming Climate. <i>AGU Advances</i> , 2020, 1, e2019AV000132.	5.4	39
28	AGU Advances Goes Online. <i>AGU Advances</i> , 2020, 1, e2019AV000105.	5.4	0
29	Improved Estimates of Changes in Upper Ocean Salinity and the Hydrological Cycle. <i>Journal of Climate</i> , 2020, 33, 10357-10381.	3.2	105
30	Global Carbon Budget 2020. <i>Earth System Science Data</i> , 2020, 12, 3269-3340.	9.9	1,477
31	PhytoBase: A global synthesis of open-ocean phytoplankton occurrences. <i>Earth System Science Data</i> , 2020, 12, 907-933.	9.9	12
32	Consistent patterns of nitrogen fixation identified in the ocean. <i>Nature</i> , 2019, 566, 191-193.	27.8	8
33	Global pattern of phytoplankton diversity driven by temperature and environmental variability. <i>Science Advances</i> , 2019, 5, eaau6253.	10.3	134
34	Pacific Anthropogenic Carbon Between 1991 and 2017. <i>Global Biogeochemical Cycles</i> , 2019, 33, 597-617.	4.9	35
35	The oceanic sink for anthropogenic CO <sub>2</sub> from 1994 to 2007. <i>Science</i> , 2019, 363, 1193-1199.	12.6	505
36	On the role of climate modes in modulating the air-sea CO <sub>2</sub> fluxes in eastern boundary upwelling systems. <i>Biogeosciences</i> , 2019, 16, 329-346.	3.3	27

#	ARTICLE	IF	CITATIONS
37	The Spatiotemporal Dynamics of the Sources and Sinks of CO <sub>2</sub> in the Global Coastal Ocean. <i>Global Biogeochemical Cycles</i> , 2019, 33, 1693-1714.	4.9	86
38	The Variable Southern Ocean Carbon Sink. <i>Annual Review of Marine Science</i> , 2019, 11, 159-186.	11.6	165
39	Modeling of Ocean Biogeochemistry and Ecology. , 2019, , 547-560.		5
40	Global Carbon Budget 2019. <i>Earth System Science Data</i> , 2019, 11, 1783-1838.	9.9	1,159
41	Will marine productivity wane?. <i>Science</i> , 2018, 359, 1103-1104.	12.6	14
42	Contrasting Impact of Future CO <sub>2</sub> Emission Scenarios on the Extent of CaCO <sub>3</sub> Mineral Undersaturation in the Humboldt Current System. <i>Journal of Geophysical Research: Oceans</i> , 2018, 123, 2018-2036.	2.6	24
43	Continental shelves as a variable but increasing global sink for atmospheric carbon dioxide. <i>Nature Communications</i> , 2018, 9, 454.	12.8	112
44	Strengthening seasonal marine CO <sub>2</sub> variations due to increasing atmospheric CO <sub>2</sub> . <i>Nature Climate Change</i> , 2018, 8, 146-150.	18.8	109
45	The eMLR(C*) Method to Determine Decadal Changes in the Global Ocean Storage of Anthropogenic CO <sub>2</sub> . <i>Global Biogeochemical Cycles</i> , 2018, 32, 654-679.	4.9	35
46	The effects of temperature, salinity, and the carbonate system on Mg/Ca in <i>Globigerinoides ruber</i> (white): A global sediment trap calibration. <i>Earth and Planetary Science Letters</i> , 2018, 482, 607-620.	4.4	82
47	Factors controlling coccolithophore biogeography in the Southern Ocean. <i>Biogeosciences</i> , 2018, 15, 6997-7024.	3.3	33
48	Mesoscale contribution to the long-range offshore transport of organic carbon from the Canary Upwelling System to the open North Atlantic. <i>Biogeosciences</i> , 2018, 15, 5061-5091.	3.3	31
49	Origin, Transformation, and Fate: The Three-Dimensional Biological Pump in the California Current System. <i>Journal of Geophysical Research: Oceans</i> , 2018, 123, 7939-7962.	2.6	26
50	Imprint of Southern Ocean mesoscale eddies on chlorophyll. <i>Biogeosciences</i> , 2018, 15, 4781-4798.	3.3	47
51	Marine heatwaves under global warming. <i>Nature</i> , 2018, 560, 360-364.	27.8	821
52	Local atmospheric forcing driving an unexpected California Current System response during the 2015-2016 El Niño. <i>Geophysical Research Letters</i> , 2017, 44, 304-311.	4.0	39
53	Hydrological and biogeochemical constraints on terrestrial carbon cycle feedbacks. <i>Environmental Research Letters</i> , 2017, 12, 014009.	5.2	12
54	ENSO-Driven Variability of Denitrification and Suboxia in the Eastern Tropical Pacific Ocean. <i>Global Biogeochemical Cycles</i> , 2017, 31, 1470-1487.	4.9	41

#	ARTICLE	IF	CITATIONS
55	Hiatus-like decades in the absence of equatorial Pacific cooling and accelerated global ocean heat uptake. <i>Geophysical Research Letters</i> , 2017, 44, 7909-7918.	4.0	12
56	Observation-Based Trends of the Southern Ocean Carbon Sink. <i>Geophysical Research Letters</i> , 2017, 44, 12,339.	4.0	41
57	Spatiotemporal patterns of the fossil-fuel CO <sub>2</sub> signal in central Europe: results from a high-resolution atmospheric transport model. <i>Atmospheric Chemistry and Physics</i> , 2017, 17, 14145-14169.	4.9	20
58	On the long-range offshore transport of organic carbon from the Canary Upwelling System to the open North Atlantic. <i>Biogeosciences</i> , 2017, 14, 3337-3369.	3.3	41
59	Global high-resolution monthly CO <sub>2</sub> climatology for the coastal ocean derived from neural network interpolation. <i>Biogeosciences</i> , 2017, 14, 4545-4561.	3.3	71
60	Reviews and syntheses: An empirical spatiotemporal description of the global surface-atmosphere carbon fluxes: opportunities and data limitations. <i>Biogeosciences</i> , 2017, 14, 3685-3703.	3.3	58
61	Projected decreases in future marine export production: the role of the carbon flux through the upper ocean ecosystem. <i>Biogeosciences</i> , 2016, 13, 4023-4047.	3.3	106
62	Potential use of the N <sub>2</sub> /Ar ratio as a constraint on the oceanic fixed nitrogen loss. <i>Global Biogeochemical Cycles</i> , 2016, 30, 576-594.	4.9	5
63	Climatic modulation of recent trends in ocean acidification in the California Current System. <i>Environmental Research Letters</i> , 2016, 11, 014007.	5.2	50
64	Mesoscale atmosphere ocean coupling enhances the transfer of wind energy into the ocean. <i>Nature Communications</i> , 2016, 7, ncomms11867.	12.8	42
65	Constraining future terrestrial carbon cycle projections using observation-based water and carbon flux estimates. <i>Global Change Biology</i> , 2016, 22, 2198-2215.	9.5	46
66	Elusive marine nitrogen fixation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, 4246-4248.	7.1	31
67	Sea-ice transport driving Southern Ocean salinity and its recent trends. <i>Nature</i> , 2016, 537, 89-92.	27.8	203
68	The anthropogenic perturbation of the marine nitrogen cycle by atmospheric deposition: Nitrogen cycle feedbacks and the <sup>15</sup> N Haber-Bosch effect. <i>Global Biogeochemical Cycles</i> , 2016, 30, 1418-1440.	4.9	68
69	Decadal variations and trends of the global ocean carbon sink. <i>Global Biogeochemical Cycles</i> , 2016, 30, 1396-1417.	4.9	241
70	Global coccolithophore diversity: Drivers and future change. <i>Progress in Oceanography</i> , 2016, 140, 27-42.	3.2	36
71	A global seasonal surface ocean climatology of phytoplankton types based on CHEMTAX analysis of HPLC pigments. <i>Deep-Sea Research Part I: Oceanographic Research Papers</i> , 2016, 109, 137-156.	1.4	33
72	Changes in Ocean Heat, Carbon Content, and Ventilation: A Review of the First Decade of GO-SHIP Global Repeat Hydrography. <i>Annual Review of Marine Science</i> , 2016, 8, 185-215.	11.6	183

#	ARTICLE	IF	CITATIONS
73	Potential Future Coral Habitats Around Japan Depend Strongly on Anthropogenic CO <sub>2</sub> Emissions. Structure and Function of Mountain Ecosystems in Japan, 2016, , 41-56.	0.5	3
74	On the Southern Ocean CO <sub>2</sub> uptake and the role of the biological carbon pump in the 21st century. Global Biogeochemical Cycles, 2015, 29, 1451-1470.	4.9	85
75	Southern Ocean eddy phenomenology. Journal of Geophysical Research: Oceans, 2015, 120, 7413-7449.	2.6	129
76	Remote versus local influence of ENSO on the California Current System. Journal of Geophysical Research: Oceans, 2015, 120, 1353-1374.	2.6	61
77	Decadal trends of ocean and land carbon fluxes from a regional joint ocean-atmosphere inversion. Global Biogeochemical Cycles, 2015, 29, 2108-2126.	4.9	7
78	The CarboCount CH sites: characterization of a dense greenhouse gas observation network. Atmospheric Chemistry and Physics, 2015, 15, 11147-11164.	4.9	38
79	Dominant role of eddies and filaments in the offshore transport of carbon and nutrients in the California Current System. Journal of Geophysical Research: Oceans, 2015, 120, 5318-5341.	2.6	118
80	Projections of oceanic N <sub>2</sub> O emissions in the 21st century using the IPSL Earth system model. Biogeosciences, 2015, 12, 4133-4148.	3.3	48
81	Drivers and uncertainties of future global marine primary production in marine ecosystem models. Biogeosciences, 2015, 12, 6955-6984.	3.3	252
82	Air-sea CO <sub>2</sub> fluxes and the controls on ocean surface CO <sub>2</sub> seasonal variability in the coastal and open-ocean southwestern Atlantic Ocean: a modeling study. Biogeosciences, 2015, 12, 5793-5809.	3.3	28
83	Trends and drivers in global surface ocean pH over the past 3 decades. Biogeosciences, 2015, 12, 1285-1298.	3.3	112
84	Carbon isotopes in the ocean model of the Community Earth System Model (CESM1). Geoscientific Model Development, 2015, 8, 2419-2434.	3.6	39
85	Recent trends and drivers of regional sources and sinks of carbon dioxide. Biogeosciences, 2015, 12, 653-679.	3.3	587
86	Data-based estimates of the ocean carbon sink variability – first results of the Surface Ocean CO <sub>2</sub> Mapping intercomparison (SOCOM). Biogeosciences, 2015, 12, 7251-7278.	3.3	163
87	Atmospheric Response to Mesoscale Sea Surface Temperature Anomalies: Assessment of Mechanisms and Coupling Strength in a High-Resolution Coupled Model over the South Atlantic*. Journals of the Atmospheric Sciences, 2015, 72, 1872-1890.	1.7	48
88	Ecological niches of open ocean phytoplankton taxa. Limnology and Oceanography, 2015, 60, 1020-1038.	3.1	104
89	The reinvigoration of the Southern Ocean carbon sink. Science, 2015, 349, 1221-1224.	12.6	331
90	Carbon at the coastal interface. Nature, 2015, 517, 148-149.	27.8	62

#	ARTICLE	IF	CITATIONS
91	Interannual to decadal oxygen variability in the mid-depth water masses of the eastern North Atlantic. Deep-Sea Research Part I: Oceanographic Research Papers, 2015, 95, 85-98.	1.4	18
92	Biogeographic classification of the Caspian Sea. Biogeosciences, 2014, 11, 6451-6470.	3.3	34
93	Ocean (De)oxygenation Across the Last Deglaciation: Insights for the Future. Oceanography, 2014, 27, 26-35.	1.0	43
94	Current systematic carbon-cycle observations and the need for implementing a policy-relevant carbon observing system. Biogeosciences, 2014, 11, 3547-3602.	3.3	189
95	Spatiotemporal variability and drivers of $\text{CO}_2$ and air-sea $\text{CO}_2$ fluxes in the California Current System: an eddy-resolving modeling study. Biogeosciences, 2014, 11, 671-690.	3.3	49
96	Redfield's evolving legacy. Nature Geoscience, 2014, 7, 853-855.	12.9	37
97	Increasing anthropogenic nitrogen in the North Pacific Ocean. Science, 2014, 346, 1102-1106.	12.6	174
98	Air-Sea Interactions of Natural Long-Lived Greenhouse Gases ( $\text{CO}_2$ , $\text{N}_2\text{O}$ , $\text{CH}_4$ ) in a Changing Climate. Springer Earth System Sciences, 2014, , 113-169.	0.2	29
99	Rethinking climate engineering categorization in the context of climate change mitigation and adaptation. Wiley Interdisciplinary Reviews: Climate Change, 2014, 5, 23-35.	8.1	69
100	Recent variability of the global ocean carbon sink. Global Biogeochemical Cycles, 2014, 28, 927-949.	4.9	313
101	Long-term trends in surface ocean pH in the North Atlantic. Marine Chemistry, 2014, 162, 71-76.	2.3	30
102	Transfer Across the Air-Sea Interface. Springer Earth System Sciences, 2014, , 55-112.	0.2	69
103	Perspectives and Integration in SOLAS Science. Springer Earth System Sciences, 2014, , 247-306.	0.2	2
104	Impacts of Multiple Stressors. , 2013, , 193-221.		3
105	Large-Scale, Persistent Nutrient Fronts of the World Ocean: Impacts on Biogeochemistry. Handbook of Environmental Chemistry, 2013, , 25-62.	0.4	14
106	Ecosystem Responses of the Subtropical Kaneohe Bay, Hawaii, to Climate Change: A Nitrogen Cycle Modeling Approach. Aquatic Geochemistry, 2013, 19, 569-590.	1.3	6
107	Anthropogenic perturbation of the carbon fluxes from land to ocean. Nature Geoscience, 2013, 6, 597-607.	12.9	937
108	Imprint of Southern Ocean eddies on winds, clouds and rainfall. Nature Geoscience, 2013, 6, 608-612.	12.9	324

#	ARTICLE	IF	CITATIONS
109	Response of biological production and air-sea CO <sub>2</sub> fluxes to upwelling intensification in the California and Canary Current Systems. <i>Journal of Marine Systems</i> , 2013, 109-110, 149-160.	2.1	39
110	Global marine plankton functional type biomass distributions: coccolithophores. <i>Earth System Science Data</i> , 2013, 5, 259-276.	9.9	71
111	Variability and trends of ocean acidification in the Southern California Current System: A time series from Santa Monica Bay. <i>Journal of Geophysical Research: Oceans</i> , 2013, 118, 3622-3633.	2.6	35
112	The intensity, duration, and severity of low aragonite saturation state events on the California continental shelf. <i>Geophysical Research Letters</i> , 2013, 40, 3424-3428.	4.0	70
113	The dynamics of the marine nitrogen cycle across the last deglaciation. <i>Paleoceanography</i> , 2013, 28, 116-129.	3.0	30
114	A joint atmosphere-ocean inversion for the estimation of seasonal carbon sources and sinks. <i>Global Biogeochemical Cycles</i> , 2013, 27, 732-745.	4.9	12
115	Sea-air CO <sub>2</sub> fluxes in the Southern Ocean for the period 1990-2009. <i>Biogeosciences</i> , 2013, 10, 4037-4054.	3.3	162
116	Long-term trends in ocean plankton production and particle export between 1960-2006. <i>Biogeosciences</i> , 2013, 10, 7373-7393.	3.3	39
117	Global ocean carbon uptake: magnitude, variability and trends. <i>Biogeosciences</i> , 2013, 10, 1983-2000.	3.3	276
118	An assessment of the Atlantic and Arctic sea-air CO <sub>2</sub> fluxes, 1990-2009. <i>Biogeosciences</i> , 2013, 10, 607-627.	3.3	131
119	Biology and air-sea gas exchange controls on the distribution of carbon isotope ratios ( $\delta^{13}\text{C}$ ) in the ocean. <i>Biogeosciences</i> , 2013, 10, 5793-5816.	3.3	130
120	Global ocean storage of anthropogenic carbon. <i>Biogeosciences</i> , 2013, 10, 2169-2191.	3.3	348
121	Spatiotemporal variability and long-term trends of ocean acidification in the California Current System. <i>Biogeosciences</i> , 2013, 10, 193-216.	3.3	152
122	A neural network-based estimate of the seasonal to inter-annual variability of the Atlantic Ocean carbon sink. <i>Biogeosciences</i> , 2013, 10, 7793-7815.	3.3	167
123	The MAREDAT global database of high performance liquid chromatography marine pigment measurements. <i>Earth System Science Data</i> , 2013, 5, 109-123.	9.9	44
124	A probabilistic estimate of global marine N-fixation and denitrification. <i>Global Biogeochemical Cycles</i> , 2012, 26, .	4.9	73
125	Oxygen trends over five decades in the North Atlantic. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	66
126	Changing controls on oceanic radiocarbon: New insights on shallow-to-deep ocean exchange and anthropogenic CO <sub>2</sub> uptake. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	99



#	ARTICLE	IF	CITATIONS
127	Ocean acidification limits temperature-induced poleward expansion of coral habitats around Japan. <i>Biogeosciences</i> , 2012, 9, 4955-4968.	3.3	49
128	A comparative study of biological production in eastern boundary upwelling systems using an artificial neural network. <i>Biogeosciences</i> , 2012, 9, 293-308.	3.3	64
129	Rapid Progression of Ocean Acidification in the California Current System. <i>Science</i> , 2012, 337, 220-223.	12.6	353
130	Deglacial nitrogen isotope changes in the Gulf of Mexico: Evidence from bulk sedimentary and foraminiferal-bound nitrogen in Orca Basin sediments. <i>Paleoceanography</i> , 2011, 26, .	3.0	21
131	Eddy-induced reduction of biological production in eastern boundary upwelling systems. <i>Nature Geoscience</i> , 2011, 4, 787-792.	12.9	315
132	Warming up, turning sour, losing breath: ocean biogeochemistry under global change. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2011, 369, 1980-1996.	3.4	427
133	What controls biological production in coastal upwelling systems? Insights from a comparative modeling study. <i>Biogeosciences</i> , 2011, 8, 2961-2976.	3.3	57
134	Continental-scale enrichment of atmospheric $\text{CO}_2$ from the nuclear power industry: potential impact on the estimation of fossil fuel-derived $\text{CO}_2$ . <i>Atmospheric Chemistry and Physics</i> , 2011, 11, 12339-12349.	4.9	74
135	Biogeochemical Consequences of Ocean Acidification and Feedbacks to the Earth System. , 2011, , .		17
136	Nitrogen fixation within the water column associated with two hypoxic basins in the Southern California Bight. <i>Aquatic Microbial Ecology</i> , 2011, 63, 193-205.	1.8	126
137	What can be learned about carbon cycle climate feedbacks from the $\text{CO}_2$ airborne fraction?. <i>Atmospheric Chemistry and Physics</i> , 2010, 10, 7739-7751.	4.9	68
138	A model-based assessment of the TrOCA approach for estimating anthropogenic carbon in the ocean. <i>Biogeosciences</i> , 2010, 7, 723-751.	3.3	47
139	Trends and regional distributions of land and ocean carbon sinks. <i>Biogeosciences</i> , 2010, 7, 2351-2367.	3.3	167
140	Ocean Deoxygenation in a Warming World. <i>Annual Review of Marine Science</i> , 2010, 2, 199-229.	11.6	1,277
141	Detecting anthropogenic $\text{CO}_2$ changes in the interior Atlantic Ocean between 1989 and 2005. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	72
142	Atlantic Ocean CARINA data: overview and salinity adjustments. <i>Earth System Science Data</i> , 2010, 2, 17-34.	9.9	20
143	Guidelines Towards an Integrated Ocean Observation System for Ecosystems and Biogeochemical Cycles. , 2010, , .		26
144	Integrating Biogeochemistry and Ecology Into Ocean Data Assimilation Systems. <i>Oceanography</i> , 2009, 22, 206-215.	1.0	69

#	ARTICLE	IF	CITATIONS
145	OCEAN ACIDIFICATION IN THE CALIFORNIA CURRENT SYSTEM. <i>Oceanography</i> , 2009, 22, 60-71.	1.0	131
146	Fickle trends in the ocean. <i>Nature</i> , 2009, 458, 155-156.	27.8	27
147	Oceanic sources, sinks, and transport of atmospheric CO <sub>2</sub> . <i>Global Biogeochemical Cycles</i> , 2009, 23, .	4.9	455
148	High-frequency response of the ocean to mountain gap winds in the northeastern tropical Pacific. <i>Journal of Geophysical Research</i> , 2009, 114, .	3.3	28
149	Diurnal carbon cycling in the surface ocean and lower atmosphere of Santa Monica Bay, California. <i>Geophysical Research Letters</i> , 2009, 36, .	4.0	37
150	CARINA oxygen data in the Atlantic Ocean. <i>Earth System Science Data</i> , 2009, 1, 87-100.	9.9	13
151	Observing Biogeochemical Cycles at Global Scales with Profiling Floats and Gliders: Prospects for a Global Array. <i>Oceanography</i> , 2009, 22, 216-225.	1.0	171
152	An Earth-system perspective of the global nitrogen cycle. <i>Nature</i> , 2008, 451, 293-296.	27.8	2,602
153	The Marine Nitrogen Cycle. , 2008, , 1-50.		185
154	Toward a mechanistic understanding of the decadal trends in the Southern Ocean carbon sink. <i>Global Biogeochemical Cycles</i> , 2008, 22, .	4.9	202
155	Biological and physical impacts of ageostrophic frontal circulations driven by confluent flow and vertical mixing. <i>Dynamics of Atmospheres and Oceans</i> , 2008, 45, 229-251.	1.8	31
156	Abiotic controls of potentially harmful algal blooms in Santa Monica Bay, California. <i>Continental Shelf Research</i> , 2008, 28, 2584-2593.	1.8	27
157	The impact on atmospheric CO <sub>2</sub> of iron fertilization induced changes in the ocean's biological pump. <i>Biogeosciences</i> , 2008, 5, 385-406.	3.3	42
158	A joint atmosphere-ocean inversion for surface fluxes of carbon dioxide: 1. Methods and global-scale fluxes. <i>Global Biogeochemical Cycles</i> , 2007, 21, .	4.9	138
159	A joint atmosphere-ocean inversion for surface fluxes of carbon dioxide: 2. Regional results. <i>Global Biogeochemical Cycles</i> , 2007, 21, .	4.9	77
160	Deep ocean biogeochemistry of silicic acid and nitrate. <i>Global Biogeochemical Cycles</i> , 2007, 21, .	4.9	85
161	Inverse estimates of the oceanic sources and sinks of natural CO <sub>2</sub> and the implied oceanic carbon transport. <i>Global Biogeochemical Cycles</i> , 2007, 21, .	4.9	156
162	Impact of circulation on export production, dissolved organic matter, and dissolved oxygen in the ocean: Results from Phase II of the Ocean Carbon Cycle Model Intercomparison Project (OCMIP-2). <i>Global Biogeochemical Cycles</i> , 2007, 21, .	4.9	211

#	ARTICLE	IF	CITATIONS
163	Enhanced CO <sub>2</sub> outgassing in the Southern Ocean from a positive phase of the Southern Annular Mode. <i>Global Biogeochemical Cycles</i> , 2007, 21, n/a-n/a.	4.9	226
164	Correction to “A joint atmosphere-ocean inversion for surface fluxes of carbon dioxide: 1. Methods and global-scale fluxes”. <i>Global Biogeochemical Cycles</i> , 2007, 21, n/a-n/a.	4.9	5
165	Spatial coupling of nitrogen inputs and losses in the ocean. <i>Nature</i> , 2007, 445, 163-167.	27.8	618
166	Decadal water mass variations along 20°W in the Northeastern Atlantic Ocean. <i>Progress in Oceanography</i> , 2007, 73, 277-295.	3.2	77
167	Spatial coupling of nitrogen inputs and losses in the ocean. <i>Nature</i> , 2007, 445, 163-167.	27.8	379
168	Inverse estimates of anthropogenic CO <sub>2</sub> uptake, transport, and storage by the ocean. <i>Global Biogeochemical Cycles</i> , 2006, 20, n/a-n/a.	4.9	331
169	Diagnosing the contribution of phytoplankton functional groups to the production and export of particulate organic carbon, CaCO <sub>3</sub> , and opal from global nutrient and alkalinity distributions. <i>Global Biogeochemical Cycles</i> , 2006, 20, n/a-n/a.	4.9	199
170	Atmospheric potential oxygen: New observations and their implications for some atmospheric and oceanic models. <i>Global Biogeochemical Cycles</i> , 2006, 20, n/a-n/a.	4.9	64
171	Introduction to special section on North Pacific Carbon Cycle Variability and Climate Change. <i>Journal of Geophysical Research</i> , 2006, 111, .	3.3	6
172	Eddy-resolving simulation of plankton ecosystem dynamics in the California Current System. <i>Deep-Sea Research Part I: Oceanographic Research Papers</i> , 2006, 53, 1483-1516.	1.4	154
173	On the relationships between primary, net community, and export production in subtropical gyres. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 2006, 53, 698-717.	1.4	74
174	Carbon isotope evidence for the latitudinal distribution and wind speed dependence of the air-sea gas transfer velocity. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , 2006, 58, 390-417.	1.6	71
175	Anthropogenic ocean acidification over the twenty-first century and its impact on calcifying organisms. <i>Nature</i> , 2005, 437, 681-686.	27.8	3,772
176	A bigger nitrogen fix. <i>Nature</i> , 2005, 436, 786-787.	27.8	25
177	Multiple constraints on regional CO <sub>2</sub> flux variations over land and oceans. <i>Global Biogeochemical Cycles</i> , 2005, 19, .	4.9	154
178	How accurate is the estimation of anthropogenic carbon in the ocean? An evaluation of the $\delta^{13}C^*$ method. <i>Global Biogeochemical Cycles</i> , 2005, 19, .	4.9	101
179	Labrador Sea Water property variations in the northeastern Atlantic Ocean. <i>Geophysical Research Letters</i> , 2005, 32, n/a-n/a.	4.0	18
180	Decoupling marine export production from new production. <i>Geophysical Research Letters</i> , 2005, 32, .	4.0	60

#	ARTICLE	IF	CITATIONS
181	Impact of the Southern Annular Mode on Southern Ocean circulation and biology. Geophysical Research Letters, 2005, 32, .	4.0	194
182	The Dynamics of the Marine Nitrogen Cycle and its Influence on Atmospheric CO2 Variations. , 2004, , 97-148.		196
183	High-latitude controls of thermocline nutrients and low latitude biological productivity. Nature, 2004, 427, 56-60.	27.8	1,090
184	Evaluating global ocean carbon models: The importance of realistic physics. Global Biogeochemical Cycles, 2004, 18, n/a-n/a.	4.9	210
185	Evaluation of ocean carbon cycle models with data-based metrics. Geophysical Research Letters, 2004, 31, n/a-n/a.	4.0	168
186	Seasonal and long-term dynamics of the upper ocean carbon cycle at Station ALOHA near Hawaii. Global Biogeochemical Cycles, 2004, 18, n/a-n/a.	4.9	164
187	Interannual variability of the upper ocean carbon cycle at station ALOHA near Hawaii. Global Biogeochemical Cycles, 2004, 18, n/a-n/a.	4.9	70
188	Sub-seasonal to interannual variations of sea surface temperature, salinity, oxygen anomaly, and transmissivity in Santa Monica Bay, California from 1987 to 1997. Continental Shelf Research, 2004, 24, 1053-1082.	1.8	14
189	The Oceanic Sink for Anthropogenic CO2. Science, 2004, 305, 367-371.	12.6	3,371
190	A first estimate of present and preindustrial air-sea CO2flux patterns based on ocean interior carbon measurements and models. Geophysical Research Letters, 2003, 30, 10-1-10-4.	4.0	245
191	Offsetting the radiative benefit of ocean iron fertilization by enhancing N2O emissions. Geophysical Research Letters, 2003, 30, .	4.0	102
192	More on Carbon Sinks. Physics Today, 2003, 56, 14-14.	0.3	0
193	Interannual Variability in the North Atlantic Ocean Carbon Sink. Science, 2002, 298, 2374-2378.	12.6	230
194	Sinks for Anthropogenic Carbon. Physics Today, 2002, 55, 30-36.	0.3	304
195	A switch from Si(OH)4to NO3âˆ’ depletion in the glacial Southern Ocean. Geophysical Research Letters, 2002, 29, 5-1.	4.0	294
196	Evaluation of ocean model ventilation with CFC-11: comparison of 13 global ocean models. Ocean Modelling, 2002, 4, 89-120.	2.4	192
197	A short-term sink for atmospheric CO2 in subtropical mode water of the North Atlantic Ocean. Nature, 2002, 420, 489-493.	27.8	130
198	Comparison of two approaches to quantify anthropogenic CO2in the ocean: Results from the northern Indian Ocean. Global Biogeochemical Cycles, 2001, 15, 11-25.	4.9	32

#	ARTICLE	IF	CITATIONS
199	Estimates of anthropogenic carbon uptake from four three-dimensional global ocean models. Global Biogeochemical Cycles, 2001, 15, 43-60.	4.9	274
200	Denitrification and N <sub>2</sub> fixation in the Pacific Ocean. Global Biogeochemical Cycles, 2001, 15, 483-506.	4.9	314
201	Estimating net air-sea fluxes from ocean bulk data: Methodology and application to the heat cycle. Global Biogeochemical Cycles, 2001, 15, 767-782.	4.9	28
202	Air-sea flux of oxygen estimated from bulk data: Implications For the marine and atmospheric oxygen cycles. Global Biogeochemical Cycles, 2001, 15, 783-803.	4.9	86
203	An improved estimate of the isotopic air-sea disequilibrium of CO <sub>2</sub> : Implications for the oceanic uptake of anthropogenic CO <sub>2</sub> . Geophysical Research Letters, 2001, 28, 555-558.	4.0	61
204	Oceanic vertical exchange and new production: a comparison between models and observations. Deep-Sea Research Part II: Topical Studies in Oceanography, 2001, 49, 363-401.	1.4	107
205	Title is missing!. Journal of Paleolimnology, 2000, 24, 277-291.	1.6	26
206	The Global Carbon Cycle: A Test of Our Knowledge of Earth as a System. Science, 2000, 290, 291-296.	12.6	1,601
207	What Story Is Told by Oceanic Tracer Concentrations?. Science, 2000, 290, 455-456.	12.6	10
208	Spatiotemporal patterns of carbon-13 in the global surface oceans and the oceanic suess effect. Global Biogeochemical Cycles, 1999, 13, 307-335.	4.9	277
209	How strong is the Harvardton-Bear Constraint?. Global Biogeochemical Cycles, 1999, 13, 817-820.	4.9	61
210	Carbon-13 constraints on the seasonal inorganic carbon budget at the BATS site in the northwestern Sargasso Sea. Deep-Sea Research Part I: Oceanographic Research Papers, 1998, 45, 673-717.	1.4	99
211	Anthropogenic CO <sub>2</sub> in the Atlantic Ocean. Global Biogeochemical Cycles, 1998, 12, 165-191.	4.9	176
212	Global patterns of marine nitrogen fixation and denitrification. Global Biogeochemical Cycles, 1997, 11, 235-266.	4.9	1,134
213	An improved method for detecting anthropogenic CO <sub>2</sub> in the oceans. Global Biogeochemical Cycles, 1996, 10, 809-837.	4.9	415