Nicolas Gruber

List of Publications by Year in descending order

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213 papers 40,760 citations

83 h-index 2828 191 g-index

293 all docs 293 docs citations

times ranked

293

29239 citing authors

#	Article	IF	CITATIONS
1	A CO-based method to determine the regional biospheric signal in atmospheric CO ₂ . 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	O
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	O
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 ₂ 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

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

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37	The Spatiotemporal Dynamics of the Sources and Sinks of CO ₂ in the Global Coastal Ocean. Global Biogeochemical Cycles, 2019, 33, 1693-1714.	4.9	86
38	The Variable Southern Ocean Carbon Sink. Annual Review of Marine Science, 2019, 11, 159-186.	11.6	165
39	Modeling of Ocean Biogeochemistry and Ecology. , 2019, , 547-560.		5
40	Global Carbon Budget 2019. Earth System Science Data, 2019, 11, 1783-1838.	9.9	1,159
41	Will marine productivity wane?. Science, 2018, 359, 1103-1104.	12.6	14
42	Contrasting Impact of Future CO ₂ Emission Scenarios on the Extent of CaCO ₃ Mineral Undersaturation in the Humboldt Current System. Journal of Geophysical Research: Oceans, 2018, 123, 2018-2036.	2.6	24
43	Continental shelves as a variable but increasing global sink for atmospheric carbon dioxide. Nature Communications, 2018, 9, 454.	12.8	112
44	Strengthening seasonal marine CO2 variations due to increasing atmospheric CO2. Nature Climate Change, 2018, 8, 146-150.	18.8	109
45	The eMLR(C*) Method to Determine Decadal Changes in the Global Ocean Storage of Anthropogenic CO ₂ . Global Biogeochemical Cycles, 2018, 32, 654-679.	4.9	35
46	The effects of temperature, salinity, and the carbonate system on Mg/Ca in Globigerinoides ruber (white): A global sediment trap calibration. Earth and Planetary Science Letters, 2018, 482, 607-620.	4.4	82
47	Factors controlling coccolithophore biogeography in the Southern Ocean. Biogeosciences, 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. Biogeosciences, 2018, 15, 5061-5091.	3.3	31
49	Origin, Transformation, and Fate: The Threeâ€Dimensional Biological Pump in the California Current System. Journal of Geophysical Research: Oceans, 2018, 123, 7939-7962.	2.6	26
50	Imprint of Southern Ocean mesoscale eddies on chlorophyll. Biogeosciences, 2018, 15, 4781-4798.	3.3	47
51	Marine heatwaves under global warming. Nature, 2018, 560, 360-364.	27.8	821
52	Local atmospheric forcing driving an unexpected California Current System response during the 2015–2016 El Niño. Geophysical Research Letters, 2017, 44, 304-311.	4.0	39
53	Hydrological and biogeochemical constraints on terrestrial carbon cycle feedbacks. Environmental Research Letters, 2017, 12, 014009.	5.2	12
54	ENSOâ€Driven Variability of Denitrification and Suboxia in the Eastern Tropical Pacific Ocean. Global Biogeochemical Cycles, 2017, 31, 1470-1487.	4.9	41

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55	Hiatusâ€like decades in the absence of equatorial Pacific cooling and accelerated global ocean heat uptake. Geophysical Research Letters, 2017, 44, 7909-7918.	4.0	12
56	Observationâ€Based Trends of the Southern Ocean Carbon Sink. Geophysical Research Letters, 2017, 44, 12,339.	4.0	41
57	Spatiotemporal patterns of the fossil-fuel CO ₂ signal in central Europe: results from a high-resolution atmospheric transport model. Atmospheric Chemistry and Physics, 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. Biogeosciences, 2017, 14, 3337-3369.	3.3	41
59	Global high-resolution monthly <i>p</i> CO ₂ climatology for the coastal ocean derived from neural network interpolation. Biogeosciences, 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. Biogeosciences, 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. Biogeosciences, 2016, 13, 4023-4047.	3.3	106
62	Potential use of the N ₂ /Ar ratio as a constraint on the oceanic fixed nitrogen loss. Global Biogeochemical Cycles, 2016, 30, 576-594.	4.9	5
63	Climatic modulation of recent trends in ocean acidification in the California Current System. Environmental Research Letters, 2016, 11, 014007.	5.2	50
64	Mesoscale atmosphere ocean coupling enhances the transfer of wind energy into the ocean. Nature Communications, 2016, 7, ncomms11867.	12.8	42
65	Constraining future terrestrial carbon cycle projections using observationâ€based water and carbon flux estimates. Global Change Biology, 2016, 22, 2198-2215.	9.5	46
66	Elusive marine nitrogen fixation. Proceedings of the National Academy of Sciences of the United States of America, 2016 , 113 , 4246 - 4248 .	7.1	31
67	Sea-ice transport driving Southern Ocean salinity and its recent trends. Nature, 2016, 537, 89-92.	27.8	203
68	The anthropogenic perturbation of the marine nitrogen cycle by atmospheric deposition: Nitrogen cycle feedbacks and the ¹⁵ N Haberâ€Bosch effect. Global Biogeochemical Cycles, 2016, 30, 1418-1440.	4.9	68
69	Decadal variations and trends of the global ocean carbon sink. Global Biogeochemical Cycles, 2016, 30, 1396-1417.	4.9	241
70	Global coccolithophore diversity: Drivers and future change. Progress in Oceanography, 2016, 140, 27-42.	3.2	36
71	A global seasonal surface ocean climatology of phytoplankton types based on CHEMTAX analysis of HPLC pigments. Deep-Sea Research Part I: Oceanographic Research Papers, 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. Annual Review of Marine Science, 2016, 8, 185-215.	11.6	183

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73	Potential Future Coral Habitats Around Japan Depend Strongly on Anthropogenic CO2 Emissions. Structure and Function of Mountain Ecosystems in Japan, 2016, , 41-56.	0.5	3
74	On the Southern Ocean CO ₂ 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 <scp>O</scp> cean eddy phenomenology. Journal of Geophysical Research: Oceans, 2015, 120, 7413-7449.	2.6	129
76	Remote versus local influence of <scp>ENSO</scp> on the <scp>C</scp> alifornia 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 oceanâ€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 $\langle scp \rangle C \langle scp \rangle$ urrent $\langle scp \rangle S \langle scp \rangle$ ystem. Journal of Geophysical Research: Oceans, 2015, 120, 5318-5341.	2.6	118
80	Projections of oceanic N ₂ 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 ₂ fluxes and the controls on ocean surface <i>p</i> CO ₂ 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 â€" first results of the Surface Ocean & amp;lt;i>pCO ₂ 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

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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 & amp;lt;i>2 and air–sea & CO ₂ 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 (CO2, N2O, CH4) 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

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109	Response of biological production and air–sea CO2 fluxes to upwelling intensification in the California and Canary Current Systems. Journal of Marine Systems, 2013, 109-110, 149-160.	2.1	39
110	Global marine plankton functional type biomass distributions: coccolithophores. Earth System Science Data, 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. Journal of Geophysical Research: Oceans, 2013, 118, 3622-3633.	2.6	35
112	The intensity, duration, and severity of low aragonite saturation state events on the California continental shelf. Geophysical Research Letters, 2013, 40, 3424-3428.	4.0	70
113	The dynamics of the marine nitrogen cycle across the last deglaciation. Paleoceanography, 2013, 28, 116-129.	3.0	30
114	A joint atmosphereâ€ocean inversion for the estimation of seasonal carbon sources and sinks. Global Biogeochemical Cycles, 2013, 27, 732-745.	4.9	12
115	Sea–air CO ₂ fluxes in the Southern Ocean for the period 1990–2009. Biogeosciences, 2013, 10, 4037-4054.	3.3	162
116	Long-term trends in ocean plankton production and particle export between 1960–2006. Biogeosciences, 2013, 10, 7373-7393.	3.3	39
117	Global ocean carbon uptake: magnitude, variability and trends. Biogeosciences, 2013, 10, 1983-2000.	3.3	276
118	An assessment of the Atlantic and Arctic sea–air CO ₂ fluxes, 1990–2009. Biogeosciences, 2013, 10, 607-627.	3.3	131
119	Biology and air–sea gas exchange controls on the distribution of carbon isotope ratios (Î& t;sup>13& t;/sup>C) in the ocean. Biogeosciences, 2013, 10, 5793-5816.	3.3	130
120	Global ocean storage of anthropogenic carbon. Biogeosciences, 2013, 10, 2169-2191.	3.3	348
121	Spatiotemporal variability and long-term trends of ocean acidification in the California Current System. Biogeosciences, 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. Biogeosciences, 2013, 10, 7793-7815.	3.3	167
123	The MAREDAT global database of high performance liquid chromatography marine pigment measurements. Earth System Science Data, 2013, 5, 109-123.	9.9	44
124	A probabilistic estimate of global marine Nâ€fixation and denitrification. Global Biogeochemical Cycles, 2012, 26, .	4.9	73
125	Oxygen trends over five decades in the North Atlantic. Journal of Geophysical Research, 2012, 117, .	3.3	66
126	Changing controls on oceanic radiocarbon: New insights on shallowâ€toâ€deep ocean exchange and anthropogenic CO ₂ uptake. Journal of Geophysical Research, 2012, 117, .	3.3	99

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127	Ocean acidification limits temperature-induced poleward expansion of coral habitats around Japan. Biogeosciences, 2012, 9, 4955-4968.	3.3	49
128	A comparative study of biological production in eastern boundary upwelling systems using an artificial neural network. Biogeosciences, 2012, 9, 293-308.	3.3	64
129	Rapid Progression of Ocean Acidification in the California Current System. Science, 2012, 337, 220-223.	12.6	353
130	Deglacial nitrogen isotope changes in the Gulf of Mexico: Evidence from bulk sedimentary and foraminiferaâ€bound nitrogen in Orca Basin sediments. Paleoceanography, 2011, 26, .	3.0	21
131	Eddy-induced reduction of biological production in eastern boundary upwelling systems. Nature Geoscience, 2011, 4, 787-792.	12.9	315
132	Warming up, turning sour, losing breath: ocean biogeochemistry under global change. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2011, 369, 1980-1996.	3.4	427
133	What controls biological production in coastal upwelling systems? Insights from a comparative modeling study. Biogeosciences, 2011, 8, 2961-2976.	3.3	57
134	Continental-scale enrichment of atmospheric & amp; It; sub& It; sub& It; sub& It; from the amp; It; sub& It; sub& It; sub& It; from the nuclear power industry: potential impact on the estimation of fossil fuel-derived CO& It; sub& It	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. Aquatic Microbial Ecology, 2011, 63, 193-205.	1.8	126
137	What can be learned about carbon cycle climate feedbacks from the CO ₂ airborne fraction?. Atmospheric Chemistry and Physics, 2010, 10, 7739-7751.	4.9	68
138	A model-based assessment of the TrOCA approach for estimating anthropogenic carbon in the ocean. Biogeosciences, 2010, 7, 723-751.	3.3	47
139	Trends and regional distributions of land and ocean carbon sinks. Biogeosciences, 2010, 7, 2351-2367.	3.3	167
140	Ocean Deoxygenation in a Warming World. Annual Review of Marine Science, 2010, 2, 199-229.	11.6	1,277
141	Detecting anthropogenic CO ₂ changes in the interior Atlantic Ocean between 1989 and 2005. Journal of Geophysical Research, 2010, 115, .	3.3	72
142	Atlantic Ocean CARINA data: overview and salinity adjustments. Earth System Science Data, 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. Oceanography, 2009, 22, 206-215.	1.0	69

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145	OCEAN ACIDIFICATION IN THE CALIFORNIA CURRENT SYSTEM. Oceanography, 2009, 22, 60-71.	1.0	131
146	Fickle trends in the ocean. Nature, 2009, 458, 155-156.	27.8	27
147	Oceanic sources, sinks, and transport of atmospheric CO ₂ . Global Biogeochemical Cycles, 2009, 23, .	4.9	455
148	Highâ \in frequency response of the ocean to mountain gap winds in the northeastern tropical Pacific. Journal of Geophysical Research, 2009, 114, .	3.3	28
149	Diurnal carbon cycling in the surface ocean and lower atmosphere of Santa Monica Bay, California. Geophysical Research Letters, 2009, 36, .	4.0	37
150	CARINA oxygen data in the Atlantic Ocean. Earth System Science Data, 2009, 1, 87-100.	9.9	13
151	Observing Biogeochemical Cycles at Global Scales with Profiling Floats and Gliders: Prospects for a Global Array. Oceanography, 2009, 22, 216-225.	1.0	171
152	An Earth-system perspective of the global nitrogen cycle. Nature, 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. Global Biogeochemical Cycles, 2008, 22, .	4.9	202
155	Biological and physical impacts of ageostrophic frontal circulations driven by confluent flow and vertical mixing. Dynamics of Atmospheres and Oceans, 2008, 45, 229-251.	1.8	31
156	Abiotic controls of potentially harmful algal blooms in Santa Monica Bay, California. Continental Shelf Research, 2008, 28, 2584-2593.	1.8	27
157	The impact on atmospheric CO ₂ of iron fertilization induced changes in the ocean's biological pump. Biogeosciences, 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. Global Biogeochemical Cycles, 2007, 21, .	4.9	138
159	A joint atmosphere-ocean inversion for surface fluxes of carbon dioxide: 2. Regional results. Global Biogeochemical Cycles, 2007, 21, .	4.9	77
160	Deep ocean biogeochemistry of silicic acid and nitrate. Global Biogeochemical Cycles, 2007, 21, .	4.9	85
161	Inverse estimates of the oceanic sources and sinks of natural CO2 and the implied oceanic carbon transport. Global Biogeochemical Cycles, 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 Carbonâ€cycle Model Intercomparison Project (OCMIPâ€2). Global Biogeochemical Cycles, 2007, 21, .	4.9	211

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163	Enhanced CO2outgassing in the Southern Ocean from a positive phase of the Southern Annular Mode. Global Biogeochemical Cycles, 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― Global Biogeochemical Cycles, 2007, 21, n/a-n/a.	4.9	5
165	Spatial coupling of nitrogen inputs and losses in the ocean. Nature, 2007, 445, 163-167.	27.8	618
166	Decadal water mass variations along 20°W in the Northeastern Atlantic Ocean. Progress in Oceanography, 2007, 73, 277-295.	3.2	77
167	Spatial coupling of nitrogen inputs and losses in the ocean. Nature, 2007, 445, 163-167.	27.8	379
168	Inverse estimates of anthropogenic CO2uptake, transport, and storage by the ocean. Global Biogeochemical Cycles, 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, CaCO3, and opal from global nutrient and alkalinity distributions. Global Biogeochemical Cycles, 2006, 20, n/a-n/a.	4.9	199
170	Atmospheric potential oxygen: New observations and their implications for some atmospheric and oceanic models. Global Biogeochemical Cycles, 2006, 20, n/a-n/a.	4.9	64
171	Introduction to special section on North Pacific Carbon Cycle Variability and Climate Change. Journal of Geophysical Research, 2006, 111 , .	3.3	6
172	Eddy-resolving simulation of plankton ecosystem dynamics in the California Current System. Deep-Sea Research Part I: Oceanographic Research Papers, 2006, 53, 1483-1516.	1.4	154
173	On the relationships between primary, net community, and export production in subtropical gyres. Deep-Sea Research Part II: Topical Studies in Oceanography, 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. Tellus, Series B: Chemical and Physical Meteorology, 2006, 58, 390-417.	1.6	71
175	Anthropogenic ocean acidification over the twenty-first century and its impact on calcifying organisms. Nature, 2005, 437, 681-686.	27.8	3,772
176	A bigger nitrogen fix. Nature, 2005, 436, 786-787.	27.8	25
177	Multiple constraints on regional CO2flux variations over land and oceans. Global Biogeochemical Cycles, 2005, 19, .	4.9	154
178	How accurate is the estimation of anthropogenic carbon in the ocean? An evaluation of the $\hat{l}^{"}C^{*}$ method. Global Biogeochemical Cycles, 2005, 19, .	4.9	101
179	Labrador Sea Water property variations in the northeastern Atlantic Ocean. Geophysical Research Letters, 2005, 32, n/a-n/a.	4.0	18
180	Decoupling marine export production from new production. Geophysical Research Letters, 2005, 32, .	4.0	60

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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
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