

Scott C Doney

List of Publications by Year in descending order

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Version: 2024-02-01

342
papers

60,709
citations

1536

106
h-index

1116

231
g-index

450
all docs

450
docs citations

450
times ranked

40293
citing authors

#	ARTICLE	IF	CITATIONS
1	Comparison of methods to determine the anthropogenic CO ₂ invasion into the Atlantic Ocean. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , 2022, 51, 511.	1.6	17
2	Variability of global net sea–air CO ₂ fluxes over the last three decades using empirical relationships. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , 2022, 62, 352.	1.6	73
3	Modeling polar marine ecosystem functions guided by bacterial physiological and taxonomic traits. <i>Biogeosciences</i> , 2022, 19, 117-136.	3.3	1
4	Microbial metabolites in the marine carbon cycle. <i>Nature Microbiology</i> , 2022, 7, 508-523.	13.3	71
5	Transitioning global change experiments on Southern Ocean phytoplankton from lab to field settings: Insights and challenges. <i>Limnology and Oceanography</i> , 2022, 67, 1911-1930.	3.1	4
6	The role of negative emissions in meeting China's 2060 carbon neutrality goal. <i>Oxford Open Climate Change</i> , 2021, 1, .	1.3	17
7	In Situ Estimates of Net Primary Production in the Western North Atlantic With Argo Profiling Floats. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2021, 126, e2020JG006116.	3.0	15
8	Sensitivity of 21st Century Ocean Carbon Export Flux Projections to the Choice of Export Depth Horizon. <i>Global Biogeochemical Cycles</i> , 2021, 35, e2020GB006790.	4.9	7
9	Assessing the Skill of a High-Resolution Marine Biophysical Model Using Geostatistical Analysis of Mesoscale Ocean Chlorophyll Variability From Field Observations and Remote Sensing. <i>Frontiers in Marine Science</i> , 2021, 8, .	2.5	3
10	Modeling Phytoplankton Blooms and Inorganic Carbon Responses to Sea-Ice Variability in the West Antarctic Peninsula. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2021, 126, e2020JG006227.	3.0	7
11	Annual Mixed Layer Carbon Budget for the West Antarctic Peninsula Continental Shelf: Insights From Year-Round Mooring Measurements. <i>Journal of Geophysical Research: Oceans</i> , 2021, 126, e2020JC016920.	2.6	6
12	WAP-1D-VAR v1.0: development and evaluation of a one-dimensional variational data assimilation model for the marine ecosystem along the West Antarctic Peninsula. <i>Geoscientific Model Development</i> , 2021, 14, 4939-4975.	3.6	5
13	Impact of Lagrangian Sea Surface Temperature Variability on Southern Ocean Phytoplankton Community Growth Rates. <i>Global Biogeochemical Cycles</i> , 2021, 35, e2020GB006880.	4.9	10
14	An Atmospheric Constraint on the Seasonal Air-Sea Exchange of Oxygen and Heat in the Extratropics. <i>Journal of Geophysical Research: Oceans</i> , 2021, 126, e2021JC017510.	2.6	2
15	Assessing the sequestration time scales of some ocean-based carbon dioxide reduction strategies. <i>Environmental Research Letters</i> , 2021, 16, 104003.	5.2	61
16	Values-Based Scenarios of Water Security: Rights to Water, Rights of Waters, and Commercial Water Rights. <i>BioScience</i> , 2021, 71, 1157-1170.	4.9	7
17	Modulation of ocean acidification by decadal climate variability in the Gulf of Alaska. <i>Communications Earth & Environment</i> , 2021, 2, .	6.8	16
18	The role of direct air capture and negative emissions technologies in the shared socioeconomic pathways towards +1.5 Å°C and +2 Å°C futures. <i>Environmental Research Letters</i> , 2021, 16, 114012.	5.2	40

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19	Simulations With the Marine Biogeochemistry Library (MARBL). <i>Journal of Advances in Modeling Earth Systems</i> , 2021, 13, e2021MS002647.	3.8	37
20	Satellite Remote Sensing and the Marine Biodiversity Observation Network: Current Science and Future Steps. <i>Oceanography</i> , 2021, 34, .	1.0	9
21	Modeling of the Influence of Sea Ice Cycle and Langmuir Circulation on the Upper Ocean Mixed Layer Depth and Freshwater Distribution at the West Antarctic Peninsula. <i>Journal of Geophysical Research: Oceans</i> , 2020, 125, e2020JC016109.	2.6	6
22	Foodâ€“energyâ€“water implications of negative emissions technologies in a +1.5â€“C future. <i>Nature Climate Change</i> , 2020, 10, 920-927.	18.8	117
23	The Impacts of Ocean Acidification on Marine Ecosystems and Reliant Human Communities. <i>Annual Review of Environment and Resources</i> , 2020, 45, 83-112.	13.4	297
24	The Simulated Biological Response to Southern Ocean Eddies via Biological Rate Modification and Physical Transport. <i>Global Biogeochemical Cycles</i> , 2020, 34, e2019GB006385.	4.9	11
25	Eddyâ€“Modified Iron, Light, and Phytoplankton Cell Division Rates in the Simulated Southern Ocean. <i>Global Biogeochemical Cycles</i> , 2020, 34, e2019GB006380.	4.9	14
26	Phytoplankton Phenology in the North Atlantic: Insights From Profiling Float Measurements. <i>Frontiers in Marine Science</i> , 2020, 7, .	2.5	19
27	A regional hindcast model simulating ecosystem dynamics, inorganic carbon chemistry, and ocean acidification in the Gulf of Alaska. <i>Biogeosciences</i> , 2020, 17, 3837-3857.	3.3	18
28	A Geostatistical Framework for Quantifying the Imprint of Mesoscale Atmospheric Transport on Satellite Trace Gas Retrievals. <i>Journal of Geophysical Research D: Atmospheres</i> , 2019, 124, 9773-9795.	3.3	12
29	Dynamics of benthic metabolism, O_2 , and pCO_2 in a temperate seagrass meadow. <i>Limnology and Oceanography</i> , 2019, 64, 2586-2604.	3.1	41
30	Quantifying the Effects of Nutrient Enrichment and Freshwater Mixing on Coastal Ocean Acidification. <i>Journal of Geophysical Research: Oceans</i> , 2019, 124, 9085-9100.	2.6	39
31	Modeling the Impact of Zooplankton Diel Vertical Migration on the Carbon Export Flux of the Biological Pump. <i>Global Biogeochemical Cycles</i> , 2019, 33, 181-199.	4.9	107
32	Capturing coastal water clarity variability with Landsat 8. <i>Marine Pollution Bulletin</i> , 2019, 145, 96-104.	5.0	44
33	The North Atlantic Aerosol and Marine Ecosystem Study (NAAMES): Science Motive and Mission Overview. <i>Frontiers in Marine Science</i> , 2019, 6, .	2.5	111
34	Modeling the effect of water quality on the recreational shellfishing cultural ecosystem service of Buzzards Bay, Massachusetts. <i>Marine Pollution Bulletin</i> , 2019, 140, 364-373.	5.0	6
35	From Zero to Hero?: Why Integrated Assessment Modeling of Negative Emissions Technologies Is Hard and How We Can Do Better. <i>Frontiers in Climate</i> , 2019, 1, .	2.8	59
36	Global satellite-observed daily vertical migrations of ocean animals. <i>Nature</i> , 2019, 576, 257-261.	27.8	111

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37	Observational Needs Supporting Marine Ecosystems Modeling and Forecasting: From the Global Ocean to Regional and Coastal Systems. <i>Frontiers in Marine Science</i> , 2019, 6, .	2.5	32
38	Attributing ocean acidification to major carbon producers. <i>Environmental Research Letters</i> , 2019, 14, 124060.	5.2	23
39	Strengthened scientific support for the Endangerment Finding for atmospheric greenhouse gases. <i>Science</i> , 2019, 363, .	12.6	34
40	Modeling of Ocean Carbon System. , 2019, , 291-302.		1
41	Consequences of Anthropogenic Changes in the Sensory Landscape of Marine Animals. , 2019, , 229-264.		15
42	A comprehensive global oceanic dataset of helium isotope and tritium measurements. <i>Earth System Science Data</i> , 2019, 11, 441-454.	9.9	21
43	Sustained climate warming drives declining marine biological productivity. <i>Science</i> , 2018, 359, 1139-1143.	12.6	276
44	On the Ability of Space-Based Passive and Active Remote Sensing Observations of CO ₂ to Detect Flux Perturbations to the Carbon Cycle. <i>Journal of Geophysical Research D: Atmospheres</i> , 2018, 123, 1460-1477.	3.3	25
45	Recurrent seascape units identify key ecological processes along the western Antarctic Peninsula. <i>Global Change Biology</i> , 2018, 24, 3065-3078.	9.5	13
46	Climate, ecosystems, and planetary futures: The challenge to predict life in Earth system models. <i>Science</i> , 2018, 359, .	12.6	397
47	How Choice of Depth Horizon Influences the Estimated Spatial Patterns and Global Magnitude of Ocean Carbon Export Flux. <i>Geophysical Research Letters</i> , 2018, 45, 4171-4179.	4.0	37
48	Geostatistical Analysis of Mesoscale Spatial Variability and Error in SeaWiFS and MODIS/Aqua Global Ocean Color Data. <i>Journal of Geophysical Research: Oceans</i> , 2018, 123, 22-39.	2.6	25
49	Projected impacts of future climate change, ocean acidification, and management on the US Atlantic sea scallop (<i>Placopecten magellanicus</i>) fishery. <i>PLoS ONE</i> , 2018, 13, e0203536.	2.5	31
50	Spring–summer net community production, new production, particle export and related water column biogeochemical processes in the marginal sea ice zone of the Western Antarctic Peninsula 2012–2014. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2018, 376, 20170177.	3.4	23
51	A Phytoplankton Model for the Allocation of Gross Photosynthetic Energy Including the Trade-Offs of Diazotrophy. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2018, 123, 1796-1816.	3.0	13
52	ALOHA From the Edge: Reconciling Three Decades of in Situ Eulerian Observations and Geographic Variability in the North Pacific Subtropical Gyre. <i>Frontiers in Marine Science</i> , 2018, 5, .	2.5	16
53	An autonomous, in situ light–dark bottle device for determining community respiration and net community production. <i>Limnology and Oceanography: Methods</i> , 2018, 16, 323-338.	2.0	10
54	Linking deep convection and phytoplankton blooms in the northern Labrador Sea in a changing climate. <i>PLoS ONE</i> , 2018, 13, e0191509.	2.5	7

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55	Global Carbon Budget 2018. <i>Earth System Science Data</i> , 2018, 10, 2141-2194.	9.9	1,167
56	Biological and physical controls on O ₂ /Ar, Ar and pCO ₂ variability at the Western Antarctic Peninsula and in the Drake Passage. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 2017, 139, 77-88.	1.4	15
57	Variability in the mechanisms controlling Southern Ocean phytoplankton bloom phenology in an ocean model and satellite observations. <i>Global Biogeochemical Cycles</i> , 2017, 31, 922-940.	4.9	24
58	Interactions between land use change and carbon cycle feedbacks. <i>Global Biogeochemical Cycles</i> , 2017, 31, 96-113.	4.9	46
59	Thirty-Three Years of Ocean Benthic Warming Along the U.S. Northeast Continental Shelf and Slope: Patterns, Drivers, and Ecological Consequences. <i>Journal of Geophysical Research: Oceans</i> , 2017, 122, 9399-9414.	2.6	50
60	Are the impacts of land use on warming underestimated in climate policy?. <i>Environmental Research Letters</i> , 2017, 12, 094016.	5.2	23
61	Implications of Future Northwest Atlantic Bottom Temperatures on the American Lobster (<i>Homarus americanus</i>) Fishery. <i>Journal of Geophysical Research: Oceans</i> , 2017, 122, 9387-9398.	2.6	31
62	Biogeochemical protocols and diagnostics for the CMIP6 Ocean Model Intercomparison Project (OMIP). <i>Geoscientific Model Development</i> , 2017, 10, 2169-2199.	3.6	137
63	Using the Ocean Health Index to Identify Opportunities and Challenges to Improving Southern Ocean Ecosystem Health. <i>Frontiers in Marine Science</i> , 2017, 4, .	2.5	22
64	Estimating the effect of multiple environmental stressors on coral bleaching and mortality. <i>PLoS ONE</i> , 2017, 12, e0175018.	2.5	21
65	Inconsistent strategies to spin up models in CMIP5: implications for ocean biogeochemical model performance assessment. <i>Geoscientific Model Development</i> , 2016, 9, 1827-1851.	3.6	68
66	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
67	Prediction of the Export and Fate of Global Ocean Net Primary Production: The EXPORTS Science Plan. <i>Frontiers in Marine Science</i> , 2016, 3, .	2.5	179
68	Biological responses to environmental heterogeneity under future ocean conditions. <i>Global Change Biology</i> , 2016, 22, 2633-2650.	9.5	187
69	Changes in anthropogenic carbon storage in the Northeast Pacific in the last decade. <i>Journal of Geophysical Research: Oceans</i> , 2016, 121, 4618-4632.	2.6	11
70	Seascapes as a new vernacular for pelagic ocean monitoring, management and conservation. <i>ICES Journal of Marine Science</i> , 2016, 73, 1839-1850.	2.5	100
71	Climate forcing for dynamics of dissolved inorganic nutrients at Palmer Station, Antarctica: An interdecadal (1993-2013) analysis. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2016, 121, 2369-2389.	3.0	47
72	Revising upper-ocean sulfur dynamics near Bermuda: new lessons from 3 years of concentration and rate measurements. <i>Environmental Chemistry</i> , 2016, 13, 302.	1.5	14

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73	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
74	Spatial and temporal trends in summertime climate and water quality indicators in the coastal embayments of Buzzards Bay, Massachusetts. <i>Biogeosciences</i> , 2016, 13, 253-265.	3.3	16
75	Global Carbon Budget 2016. <i>Earth System Science Data</i> , 2016, 8, 605-649.	9.9	905
76	On the Southern Ocean CO ₂ uptake and the role of the biological carbon pump in the 21st century. <i>Global Biogeochemical Cycles</i> , 2015, 29, 1451-1470.	4.9	85
77	Ocean circulation and biogeochemistry moderate interannual and decadal surface water pH changes in the Sargasso Sea. <i>Geophysical Research Letters</i> , 2015, 42, 4931-4939.	4.0	12
78	Multicentury changes in ocean and land contributions to the climate-carbon feedback. <i>Global Biogeochemical Cycles</i> , 2015, 29, 744-759.	4.9	63
79	Global oceanic emission of ammonia: Constraints from seawater and atmospheric observations. <i>Global Biogeochemical Cycles</i> , 2015, 29, 1165-1178.	4.9	96
80	The multiple fates of sinking particles in the North Atlantic Ocean. <i>Global Biogeochemical Cycles</i> , 2015, 29, 1471-1494.	4.9	76
81	Quantifying subtropical North Pacific gyre mixed layer primary productivity from Seaglider observations of diel oxygen cycles. <i>Geophysical Research Letters</i> , 2015, 42, 4032-4039.	4.0	39
82	Ocean Acidification in the Surface Waters of the Pacific-Arctic Boundary Regions. <i>Oceanography</i> , 2015, 25, 122-135.	1.0	43
83	Two decades of inorganic carbon dynamics along the West Antarctic Peninsula. <i>Biogeosciences</i> , 2015, 12, 6761-6779.	3.3	33
84	Drivers and uncertainties of future global marine primary production in marine ecosystem models. <i>Biogeosciences</i> , 2015, 12, 6955-6984.	3.3	252
85	Understanding, Characterizing, and Communicating Responses to Ocean Acidification: Challenges and Uncertainties. <i>Oceanography</i> , 2015, 25, 30-39.	1.0	14
86	And on Top of All That! Coping with Ocean Acidification in the Midst of Many Stressors. <i>Oceanography</i> , 2015, 25, 48-61.	1.0	143
87	Air-sea CO ₂ fluxes and the controls on ocean surface CO ₂ seasonal variability in the coastal and open-ocean southwestern Atlantic Ocean: a modeling study. <i>Biogeosciences</i> , 2015, 12, 5793-5809.	3.3	28
88	The ³ He flux gauge in the Sargasso Sea: a determination of physical nutrient fluxes to the euphotic zone at the Bermuda Atlantic Time-series Site. <i>Biogeosciences</i> , 2015, 12, 5199-5210.	3.3	17
89	Evaluating Southern Ocean biological production in two ocean biogeochemical models on daily to seasonal timescales using satellite chlorophyll and O ₂ / Ar observations. <i>Biogeosciences</i> , 2015, 12, 681-695.	3.3	2
90	Recent trends and drivers of regional sources and sinks of carbon dioxide. <i>Biogeosciences</i> , 2015, 12, 653-679.	3.3	587

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91	Detectability of CO ₂ flux signals by a space-based lidar mission. <i>Journal of Geophysical Research D: Atmospheres</i> , 2015, 120, 1794-1807.	3.3	9
92	Life-cycle modification in open oceans accounts for genome variability in a cosmopolitan phytoplankton. <i>ISME Journal</i> , 2015, 9, 1365-1377.	9.8	70
93	Biological ramifications of climate-change-mediated oceanic multi-stressors. <i>Nature Climate Change</i> , 2015, 5, 71-79.	18.8	214
94	An Integrated Assessment Model for Helping the United States Sea Scallop (<i>Placopecten magellanicus</i>) Fishery Plan Ahead for Ocean Acidification and Warming. <i>PLoS ONE</i> , 2015, 10, e0124145.	2.5	55
95	Effect of continental shelf canyons on phytoplankton biomass and community composition along the western Antarctic Peninsula. <i>Marine Ecology - Progress Series</i> , 2015, 524, 11-26.	1.9	48
96	Ocean and Coastal Acidification off New England and Nova Scotia. <i>Oceanography</i> , 2015, 25, 182-197.	1.0	80
97	Assessing the Health of the U.S. West Coast with a Regional-Scale Application of the Ocean Health Index. <i>PLoS ONE</i> , 2014, 9, e98995.	2.5	48
98	The iron budget in ocean surface waters in the 20th and 21st centuries: projections by the Community Earth System Model version 1. <i>Biogeosciences</i> , 2014, 11, 33-55.	3.3	37
99	Data-based assessment of environmental controls on global marine nitrogen fixation. <i>Biogeosciences</i> , 2014, 11, 691-708.	3.3	87
100	Air-sea CO ₂ flux in the Pacific Ocean for the period 1990-2009. <i>Biogeosciences</i> , 2014, 11, 709-734.	3.3	68
101	Historical and Future Trends in Ocean Climate and Biogeochemistry. <i>Oceanography</i> , 2014, 27, 108-119.	1.0	38
102	A Framework for a Marine Biodiversity Observing Network Within Changing Continental Shelf Seascapes. <i>Oceanography</i> , 2014, 27, 18-23.	1.0	43
103	Dynamics of particulate organic carbon flux in a global ocean model. <i>Biogeosciences</i> , 2014, 11, 1177-1198.	3.3	66
104	Scientific Outcomes and Future Challenges of the Ocean Carbon and Biogeochemistry Program. <i>Oceanography</i> , 2014, 27, 106-107.	1.0	7
105	Projected pH reductions by 2100 might put deep North Atlantic biodiversity at risk. <i>Biogeosciences</i> , 2014, 11, 6955-6967.	3.3	49
106	Global carbon budget 2013. <i>Earth System Science Data</i> , 2014, 6, 235-263.	9.9	311
107	Global assessment of ocean carbon export by combining satellite observations and foodweb models. <i>Global Biogeochemical Cycles</i> , 2014, 28, 181-196.	4.9	368
108	The triple oxygen isotope tracer of primary productivity in a dynamic ocean model. <i>Global Biogeochemical Cycles</i> , 2014, 28, 538-552.	4.9	40

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109	Preindustrial-Control and Twentieth-Century Carbon Cycle Experiments with the Earth System Model CESM1(BGC). <i>Journal of Climate</i> , 2014, 27, 8981-9005.	3.2	156
110	Winter and spring controls on the summer food web of the coastal West Antarctic Peninsula. <i>Nature Communications</i> , 2014, 5, 4318.	12.8	231
111	Oxygen and climate dynamics. <i>Nature Climate Change</i> , 2014, 4, 862-863.	18.8	7
112	Separating the influence of temperature, drought, and fire on interannual variability in atmospheric CO ₂ . <i>Global Biogeochemical Cycles</i> , 2014, 28, 1295-1310.	4.9	33
113	Securing ocean benefits for society in the face of climate change. <i>Marine Policy</i> , 2013, 40, 154-159.	3.2	91
114	Marine Ecosystem Dynamics and Biogeochemical Cycling in the Community Earth System Model [CESM1(BGC)]: Comparison of the 1990s with the 2090s under the RCP4.5 and RCP8.5 Scenarios. <i>Journal of Climate</i> , 2013, 26, 9291-9312.	3.2	297
115	Regional to global assessments of phytoplankton dynamics from the SeaWiFS mission. <i>Remote Sensing of Environment</i> , 2013, 135, 77-91.	11.0	254
116	Comparing food web structures and dynamics across a suite of global marine ecosystem models. <i>Ecological Modelling</i> , 2013, 261-262, 43-57.	2.5	71
117	When an ecological regime shift is really just stochastic noise. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 2438-2439.	7.1	27
118	Sea-air CO ₂ flux in the North Atlantic subtropical gyre: Role and influence of Sub-Tropical Mode Water formation. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 2013, 91, 57-70.	1.4	10
119	What Is the Metabolic State of the Oligotrophic Ocean? A Debate. <i>Annual Review of Marine Science</i> , 2013, 5, 525-533.	11.6	97
120	Retrospective satellite ocean color analysis of purposeful and natural ocean iron fertilization. <i>Deep-Sea Research Part I: Oceanographic Research Papers</i> , 2013, 73, 1-16.	1.4	33
121	Changes in deep-water CO ₂ concentrations over the last several decades determined from discrete pCO ₂ measurements. <i>Deep-Sea Research Part I: Oceanographic Research Papers</i> , 2013, 74, 48-63.	1.4	15
122	The ups and downs of ocean oxygen. <i>Nature Geoscience</i> , 2013, 6, 515-516.	12.9	6
123	Twentieth-Century Oceanic Carbon Uptake and Storage in CESM1(BGC)*. <i>Journal of Climate</i> , 2013, 26, 6775-6800.	3.2	167
124	Evaluation of the Southern Ocean O ₂ /Ar _g -based NCP estimates in a model framework. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2013, 118, 385-399.	3.0	45
125	Marine Ecosystems, Biogeochemistry, and Climate. <i>International Geophysics</i> , 2013, 103, 817-842.	0.6	7
126	Annual cycles of ecological disturbance and recovery underlying the subarctic Atlantic spring plankton bloom. <i>Global Biogeochemical Cycles</i> , 2013, 27, 526-540.	4.9	119

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127	The global carbon budget 1959–2011. <i>Earth System Science Data</i> , 2013, 5, 165-185.	9.9	527
128	Atmospheric Carbon Dioxide Variability in the Community Earth System Model: Evaluation and Transient Dynamics during the Twentieth and Twenty-First Centuries. <i>Journal of Climate</i> , 2013, 26, 4447-4475.	3.2	48
129	MAREDAT: towards a world atlas of MARine Ecosystem DATA. <i>Earth System Science Data</i> , 2013, 5, 227-239.	9.9	145
130	Reply to a comment by Stephen M. Chiswell on: “Annual cycles of ecological disturbance and recovery underlying the subarctic Atlantic spring plankton bloom” by M. J. Behrenfeld et al. (2013). <i>Global Biogeochemical Cycles</i> , 2013, 27, 1294-1296.	4.9	9
131	Humic substances may control dissolved iron distributions in the global ocean: Implications from numerical simulations. <i>Global Biogeochemical Cycles</i> , 2013, 27, 450-462.	4.9	47
132	Sea-air CO ₂ fluxes in the Southern Ocean for the period 1990–2009. <i>Biogeosciences</i> , 2013, 10, 4037-4054.	3.3	162
133	Sea-air CO ₂ fluxes in the Indian Ocean between 1990 and 2009. <i>Biogeosciences</i> , 2013, 10, 7035-7052.	3.3	47
134	West Antarctic Peninsula: An Ice-Dependent Coastal Marine Ecosystem in Transition. <i>Oceanography</i> , 2013, 26, 190-203.	1.0	249
135	Global ocean carbon uptake: magnitude, variability and trends. <i>Biogeosciences</i> , 2013, 10, 1983-2000.	3.3	276
136	Penguin Biogeography Along the West Antarctic Peninsula: Testing the Canyon Hypothesis with Palmer LTER Observations. <i>Oceanography</i> , 2013, 26, 204-206.	1.0	45
137	An assessment of the Atlantic and Arctic sea-air CO ₂ fluxes, 1990–2009. <i>Biogeosciences</i> , 2013, 10, 607-627.	3.3	131
138	Phytoplankton competition during the spring bloom in four plankton functional type models. <i>Biogeosciences</i> , 2013, 10, 6833-6850.	3.3	68
139	Multiple stressors of ocean ecosystems in the 21st century: projections with CMIP5 models. <i>Biogeosciences</i> , 2013, 10, 6225-6245.	3.3	1,191
140	Global ocean storage of anthropogenic carbon. <i>Biogeosciences</i> , 2013, 10, 2169-2191.	3.3	348
141	Factors challenging our ability to detect long-term trends in ocean chlorophyll. <i>Biogeosciences</i> , 2013, 10, 2711-2724.	3.3	79
142	Spatiotemporal variability and long-term trends of ocean acidification in the California Current System. <i>Biogeosciences</i> , 2013, 10, 193-216.	3.3	152
143	North-South asymmetry in the modeled phytoplankton community response to climate change over the 21st century. <i>Global Biogeochemical Cycles</i> , 2013, 27, 1274-1290.	4.9	39
144	Carbon fluxes and pelagic ecosystem dynamics near two western Antarctic Peninsula Adélie penguin colonies: an inverse model approach. <i>Marine Ecology - Progress Series</i> , 2013, 492, 253-272.	1.9	81

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145	Two centuries of limited variability in subtropical North Atlantic thermocline ventilation. <i>Nature Communications</i> , 2012, 3, 803.	12.8	12
146	Volcano impacts on climate and biogeochemistry in a coupled carbon-climate model. <i>Earth System Dynamics</i> , 2012, 3, 121-136.	7.1	8
147	Does eddy-eddy interaction control surface phytoplankton distribution and carbon export in the North Pacific Subtropical Gyre?. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	80
148	Developing integrated models of Southern Ocean food webs: Including ecological complexity, accounting for uncertainty and the importance of scale. <i>Progress in Oceanography</i> , 2012, 102, 74-92.	3.2	79
149	An index to assess the health and benefits of the global ocean. <i>Nature</i> , 2012, 488, 615-620.	27.8	736
150	Climate Change Impacts on Marine Ecosystems. <i>Annual Review of Marine Science</i> , 2012, 4, 11-37.	11.6	2,117
151	Evaluating triple oxygen isotope estimates of gross primary production at the Hawaii Ocean Time-series and Bermuda Atlantic Time-series Study sites. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	43
152	Interannual variability of primary production and dissolved organic nitrogen storage in the North Pacific Subtropical Gyre. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	16
153	Apparent oxygen utilization rates calculated from tritium and helium-3 profiles at the Bermuda Atlantic Time-series Study site. <i>Biogeosciences</i> , 2012, 9, 1969-1983.	3.3	41
154	COMPARISON OF CULTURED <i>TRICHODESMIUM</i> (CYANOPHYCEAE) WITH SPECIES CHARACTERIZED FROM THE FIELD ¹ . <i>Journal of Phycology</i> , 2012, 48, 196-210.	2.3	65
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