J P Dunne

List of Publications by Year
in descending order

165 papers	21,960 citations	13827 67 h-index	9839 141 g-index
193 all docs	193 docs citations	193 times ranked	18272 citing authors

#	Article	IF	Citations
1	GFDL's CM2 Global Coupled Climate Models. Part I: Formulation and Simulation Characteristics. Journal of Climate, 2006, 19, 643-674.	1.2	1,431
2	Multiple stressors of ocean ecosystems in the 21st century: projections with CMIP5 models. Biogeosciences, 2013, 10, 6225-6245.	1.3	1,191
3	High-latitude controls of thermocline nutrients and low latitude biological productivity. Nature, 2004, 427, 56-60.	13.7	1,090
4	GFDLâ€™s ESM2 Global Coupled Climateâ€“Carbon Earth System Models. Part I: Physical Formulation and Baseline Simulation Characteristics. Journal of Climate, 2012, 25, 6646-6665.	1.2	972
5	Spatial coupling of nitrogen inputs and losses in the ocean. Nature, 2007, 445, 163-167.	13.7	618
6	A comparison of global estimates of marine primary production from ocean color. Deep-Sea Research Part II: Topical Studies in Oceanography, 2006, 53, 741-770.	0.6	574
7	GFDLâ€™s ESM2 Global Coupled Climateâ€“Carbon Earth System Models. Part II: Carbon System Formulation and Baseline Simulation Characteristics*. Journal of Climate, 2013, 26, 2247-2267.	1.2	540
8	Shrinking of fishes exacerbates impacts of global ocean changes on marine ecosystems. Nature Climate Change, 2013, 3, 254-258.	8.1	527
9	A synthesis of global particle export from the surface ocean and cycling through the ocean interior and on the seafloor. Global Biogeochemical Cycles, 2007, 21, .	1.9	464
10	Dominance of the Southern Ocean in Anthropogenic Carbon and Heat Uptake in CMIP5 Models. Journal of Climate, 2015, 28, 862-886.	1.2	432
11	Reductions in labour capacity from heat stress under climate warming. Nature Climate Change, 2013, 3, 563-566.	8.1	407
12	Predicted habitat shifts of Pacific top predators in a changing climate. Nature Climate Change, 2013, 3, 234-238.	8.1	390
13	Spatial coupling of nitrogen inputs and losses in the ocean. Nature, 2007, 445, 163-167.	13.7	379
14	Detection of anthropogenic climate change in satellite records of ocean chlorophyll and productivity. Biogeosciences, 2010, 7, 621-640.	1.3	360
15	Global ensemble projections reveal trophic amplification of ocean biomass declines with climate change. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 12907-12912.	3.3	357
16	Empirical and mechanistic models for the particle export ratio. Global Biogeochemical Cycles, 2005, 19, n/a-n/a.	1.9	353
17	Twenty-first century ocean warming, acidification, deoxygenation, and upper-ocean nutrient and primary production decline from CMIP6 model projections. Biogeosciences, 2020, 17, 3439-3470.	1.3	348
18	Formulation of an ocean model for global climate simulations. Ocean Science, 2005, 1, 45-79.	1.3	343

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19	Impacts on Ocean Heat from Transient Mesoscale Eddies in a Hierarchy of Climate Models. Journal of Climate, 2015, 28, 952-977.	1.2	292
20	The GFDL Earth System Model Version 4.1 (GFDLâ€ESM 4.1): Overall Coupled Model Description and Simulation Characteristics. Journal of Advances in Modeling Earth Systems, 2020, 12, e2019MS002015.	1.3	277
21	On the use of IPCC-class models to assess the impact of climate on Living Marine Resources. Progress in Oceanography, 2011, 88, 1-27.	1.5	272
22	GFDL's CM2 Global Coupled Climate Models. Part II: The Baseline Ocean Simulation. Journal of Climate, 2006, 19, 675-697.	1.2	269
23	Integrating ecophysiology and plankton dynamics into projected maximum fisheries catch potential under climate change in the Northeast Atlantic. ICES Journal of Marine Science, 2011, 68, 1008-1018.	1.2	253
24	Drivers and uncertainties of future global marine primary production in marine ecosystem models. Biogeosciences, 2015, 12, 6955-6984.	1.3	252
25	Structure and Performance of GFDL's CM4.0 Climate Model. Journal of Advances in Modeling Earth Systems, 2019, 11, 3691-3727.	1.3	242
26	How well do global ocean biogeochemistry models simulate dissolved iron distributions?. Global Biogeochemical Cycles, 2016, 30, 149-174.	1.9	230
27	Decadal variability in North Atlantic phytoplankton blooms. Journal of Geophysical Research, 2009, 114, .	3.3	224
28	Assessment of skill and portability in regional marine biogeochemical models: Role of multiple planktonic groups. Journal of Geophysical Research, 2007, 112, .	3.3	215
29	Assessing the uncertainties of model estimates of primary productivity in the tropical Pacific Ocean. Journal of Marine Systems, 2009, 76, 113-133.	0.9	212
30	Incorporating adaptive responses into future projections of coral bleaching. Global Change Biology, 2014, 20, 125-139.	4.2	203
31	Export flux of particulate organic carbon from the central equatorial Pacific determined using a combined drifting trap-234Th approach. Deep-Sea Research Part II: Topical Studies in Oceanography, 1996, 43, 1095-1132.	0.6	200
32	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.	1.9	199
33	Reconciling fisheries catch and ocean productivity. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, E1441-E1449.	3.3	195
34	The GFDL Global Ocean and Sea Ice Model OM4.0: Model Description and Simulation Features. Journal of Advances in Modeling Earth Systems, 2019, 11, 3167-3211.	1.3	195
35	C4MIP â€“ The Coupled Climateâ€“Carbon Cycle Model Intercomparison Project: experimental protocol for CMIP6. Geoscientific Model Development, 2016, 9, 2853-2880.	1.3	186
36	Future Arctic Ocean primary productivity from CMIP5 simulations: Uncertain outcome, but consistent mechanisms. Global Biogeochemical Cycles, 2013, 27, 605-619.	1.9	185

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37	The GFDL Global Atmosphere and Land Model AM4.0/LM4.0: 2. Model Description, Sensitivity Studies, and Tuning Strategies. Journal of Advances in Modeling Earth Systems, 2018, 10, 735-769.	1.3	185
38	Dataâ€based estimates of suboxia, denitrification, and N₂O production in the ocean and their sensitivities to dissolved O₂. Global Biogeochemical Cycles, 2012, 26, .	1.9	183
39	Global-scale carbon and energy flows through the marine planktonic food web: An analysis with a coupled physicalâ€“biological model. Progress in Oceanography, 2014, 120, 1-28.	1.5	183
40	Poleward displacement of coastal upwellingâ€favorable winds in the ocean's eastern boundary currents through the 21st century. Geophysical Research Letters, 2015, 42, 6424-6431.	1.5	181
41	A new estimate of the CaCO3to organic carbon export ratio. Global Biogeochemical Cycles, 2002, 16, 54-1-54-12.	1.9	175
42	Enhanced nutrient supply to the California Current Ecosystem with global warming and increased stratification in an earth system model. Geophysical Research Letters, 2010, 37, .	1.5	163
43	Linked sustainability challenges and trade-offs among fisheries, aquaculture and agriculture. Nature Ecology and Evolution, 2017, 1, 1240-1249.	3.4	161
44	Potential impacts of climate change on Northeast Pacific marine foodwebs and fisheries. ICES Journal of Marine Science, 2011, 68, 1217-1229.	1.2	159
45	The GFDL Global Atmosphere and Land Model AM4.0/LM4.0: 1. Simulation Characteristics With Prescribed SSTs. Journal of Advances in Modeling Earth Systems, 2018, 10, 691-734.	1.3	155
46	Tracking Improvement in Simulated Marine Biogeochemistry Between CMIP5 and CMIP6. Current Climate Change Reports, 2020, 6, 95-119.	2.8	155
47	Regional impacts of iron-light colimitation in a global biogeochemical model. Biogeosciences, 2010, 7, 1043-1064.	1.3	152
48	Challenges of modeling depthâ€integrated marine primary productivity over multiple decades: A case study at BATS and HOT. Global Biogeochemical Cycles, 2010, 24, .	1.9	150
49	Projected expansion of the subtropical biome and contraction of the temperate and equatorial upwelling biomes in the North Pacific under global warming. ICES Journal of Marine Science, 2011, 68, 986-995.	1.2	140
50	Oxygen and indicators of stress for marine life in multi-model global warming projections. Biogeosciences, 2013, 10, 1849-1868.	1.3	140
51	Biogeochemical protocols and diagnostics for the CMIP6 Ocean Model Intercomparison Project (OMIP). Geoscientific Model Development, 2017, 10, 2169-2199.	1.3	137
52	Satellite sensor requirements for monitoring essential biodiversity variables of coastal ecosystems. Ecological Applications, 2018, 28, 749-760.	1.8	116
53	A protocol for the intercomparison of marine fishery and ecosystem models: Fish-MIP v1.0. Geoscientific Model Development, 2018, 11, 1421-1442.	1.3	116
54	A comparison of methods to determine phytoplankton bloom initiation. Journal of Geophysical Research: Oceans, 2013, 118, 2345-2357.	1.0	110

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55	Oceanic ventilation and biogeochemical cycling: Understanding the physical mechanisms that produce realistic distributions of tracers and productivity. Global Biogeochemical Cycles, 2004, 18, n/a-n/a.	1.9	108
56	Projected decreases in future marine export production: the role of the carbon flux through the upper ocean ecosystem. Biogeosciences, 2016, 13, 4023-4047.	1.3	106
57	Toward a better understanding of fishâ€based contribution to ocean carbon flux. Limnology and Oceanography, 2021, 66, 1639-1664.	1.6	106
58	Next-generation ensemble projections reveal higher climate risks for marine ecosystems. Nature Climate Change, 2021, 11, 973-981.	8.1	96
59	Role of Mesoscale Eddies in Cross-Frontal Transport of Heat and Biogeochemical Tracers in the Southern Ocean. Journal of Physical Oceanography, 2015, 45, 3057-3081.	0.7	94
60	Tropical nighttime warming as a dominant driver of variability in the terrestrial carbon sink. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 15591-15596.	3.3	92
61	Climate Variability and Radiocarbon in the CM2Mc Earth System Model. Journal of Climate, 2011, 24, 4230-4254.	1.2	88
62	Drivers of trophic amplification of ocean productivity trends in a changing climate. Biogeosciences, 2014, 11, 7125-7135.	1.3	86
63	Temperature and oxygen dependence of the remineralization of organic matter. Global Biogeochemical Cycles, 2017, 31, 1038-1050.	1.9	86
64	On the Southern Ocean CO₂ uptake and the role of the biological carbon pump in the 21st century. Global Biogeochemical Cycles, 2015, 29, 1451-1470.	1.9	85
65	234Th, 210Pb, 210Po and stable Pb in the central equatorial Pacific: Tracers for particle cycling. Deep-Sea Research Part I: Oceanographic Research Papers, 2005, 52, 2109-2139.	0.6	83
66	Factors challenging our ability to detect long-term trends in ocean chlorophyll. Biogeosciences, 2013, 10, 2711-2724.	1.3	79
67	Simulations of underwater plumes of dissolved oil in the Gulf of Mexico. Geophysical Research Letters, 2010, 37, .	1.5	72
68	Database-driven models of the world's Large Marine Ecosystems. Ecological Modelling, 2009, 220, 1984-1996.	1.2	71
69	Annual cycles of phytoplankton biomass in the subarctic Atlantic and Pacific Ocean. Global Biogeochemical Cycles, 2016, 30, 175-190.	1.9	71
70	Ocean Biogeochemistry in GFDL's Earth System Model 4.1 and Its Response to Increasing Atmospheric CO₂. Journal of Advances in Modeling Earth Systems, 2020, 12, e2019MS002043.	1.3	70
71	Rapid coastal deoxygenation due to ocean circulation shift in the northwest Atlantic. Nature Climate Change, 2018, 8, 868-872.	8.1	69
72	Airâ€“sea CO₂ flux in the Pacific Ocean for the period 1990â€“2009. Biogeosciences, 2014, 11, 709-734.	1.3	68

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73	Inconsistent strategies to spin up models in CMIP5: implications for ocean biogeochemical model performance assessment. Geoscientific Model Development, 2016, 9, 1827-1851.	1.3	68
74	Efficiency of small scale carbon mitigation by patch iron fertilization. Biogeosciences, 2010, 7, 3593-3624.	1.3	64
75	A measured look at ocean chlorophyll trends. Nature, 2011, 472, E5-E6.	13.7	63
76	Seasonal to multiannual marine ecosystem prediction with a global Earth system model. Science, 2019, 365, 284-288.	6.0	63
77	Understanding why the volume of suboxic waters does not increase over centuries of global warming in an Earth System Model. Biogeosciences, 2012, 9, 1159-1172.	1.3	62
78	Ecosystem size structure response to 21st century climate projection: large fish abundance decreases in the central <scp>N</scp>orth <scp>P</scp>acific and increases in the <scp>C</scp>alifornia <scp>C</scp>urrent. Global Change Biology, 2013, 19, 724-733.	4.2	60
79	234Th and particle cycling in the central equatorial Pacific. Deep-Sea Research Part II: Topical Studies in Oceanography, 1997, 44, 2049-2083.	0.6	59
80	Global calcite cycling constrained by sediment preservation controls. Global Biogeochemical Cycles, 2012, 26, .	1.9	57
81	Climate versus emission drivers of methane lifetime against loss by tropospheric OH from 1860â€“2100. Atmospheric Chemistry and Physics, 2012, 12, 12021-12036.	1.9	54
82	Annual nitrate drawdown observed by <scp>SOCCOM</scp> profiling floats and the relationship to annual net community production. Journal of Geophysical Research: Oceans, 2017, 122, 6668-6683.	1.0	54
83	Emergence of anthropogenic signals in the ocean carbon cycle. Nature Climate Change, 2019, 9, 719-725.	8.1	54
84	Impact of ocean color on the maintenance of the Pacific Cold Tongue. Geophysical Research Letters, 2007, 34, .	1.5	53
85	Controls on the ratio of mesozooplankton production to primary production in marine ecosystems. Deep-Sea Research Part I: Oceanographic Research Papers, 2010, 57, 95-112.	0.6	53
86	Biogeochemical Role of Subsurface Coherent Eddies in the Ocean: Tracer Cannonballs, Hypoxic Storms, and Microbial Stewpots?. Global Biogeochemical Cycles, 2018, 32, 226-249.	1.9	53
87	Export flux in the western and central equatorial Pacific: zonal and temporal variability. Deep-Sea Research Part I: Oceanographic Research Papers, 2000, 47, 901-936.	0.6	51
88	The GFDL Global Atmospheric Chemistryâ€Climate Model AM4.1: Model Description and Simulation Characteristics. Journal of Advances in Modeling Earth Systems, 2020, 12, e2019MS002032.	1.3	51
89	Organic carbon to 234Th ratios of marine organic matter. Marine Chemistry, 2006, 100, 323-336.	0.9	50
90	Quantification of ocean heat uptake from changes in atmospheric O2 and CO2 composition. Nature, 2018, 563, 105-108.	13.7	50

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91	Projected pH reductions by 2100 might put deep North Atlantic biodiversity at risk. Biogeosciences, 2014, 11, 6955-6967.	1.3	49
92	Complex functionality with minimal computation: Promise and pitfalls of reducedâ€tracer ocean biogeochemistry models. Journal of Advances in Modeling Earth Systems, 2015, 7, 2012-2028.	1.3	49
93	Evaluation of the Southern Ocean O₂/Arâ€based NCP estimates in a model framework. Journal of Geophysical Research G: Biogeosciences, 2013, 118, 385-399.	1.3	45
94	Carbon cycling in the North American coastal ocean: a synthesis. Biogeosciences, 2019, 16, 1281-1304.	1.3	45
95	Estimation of new production in the tropical Pacific. Global Biogeochemical Cycles, 2001, 15, 101-112.	1.9	44
96	A meeting place of great ocean currents: shipboard observations of a convergent front at 2Â°N in the Pacific. Deep-Sea Research Part II: Topical Studies in Oceanography, 1997, 44, 1827-1849.	0.6	42
97	Importance of wind and meltwater for observed chemical and physical changes in the Southern Ocean. Nature Geoscience, 2020, 13, 35-42.	5.4	42
98	Quantifying global potential for coral evolutionary response to climate change. Nature Climate Change, 2021, 11, 537-542.	8.1	42
99	Silicon-nitrogen coupling in the equatorial Pacific upwelling zone. Global Biogeochemical Cycles, 1999, 13, 715-726.	1.9	41
100	Trajectory sensitivity of the transient climate response to cumulative carbon emissions. Geophysical Research Letters, 2014, 41, 2520-2527.	1.5	41
101	Simulating Water Residence Time in the Coastal Ocean: A Global Perspective. Geophysical Research Letters, 2019, 46, 13910-13919.	1.5	41
102	Deconvolving the controls on the deep ocean's silicon stable isotope distribution. Earth and Planetary Science Letters, 2014, 398, 66-76.	1.8	37
103	Modeling Global Ocean Biogeochemistry With Physical Data Assimilation: A Pragmatic Solution to the Equatorial Instability. Journal of Advances in Modeling Earth Systems, 2018, 10, 891-906.	1.3	35
104	The Equatorial Undercurrent and the Oxygen Minimum Zone in the Pacific. Geophysical Research Letters, 2019, 46, 6716-6725.	1.5	35
105	Net primary productivity estimates and environmental variables in the Arctic Ocean: An assessment of coupled physical-biogeochemical models. Journal of Geophysical Research: Oceans, 2016, 121, 8635-8669.	1.0	34
106	Projections of climateâ€driven changes in tuna vertical habitat based on speciesâ€specific differences in blood oxygen affinity. Global Change Biology, 2017, 23, 4019-4028.	4.2	33
107	Time of Emergence and Large Ensemble Intercomparison for Ocean Biogeochemical Trends. Global Biogeochemical Cycles, 2020, 34, e2019GB006453.	1.9	33
108	Role of mode and intermediate waters in future ocean acidification: Analysis of CMIP5 models. Geophysical Research Letters, 2013, 40, 3091-3095.	1.5	31

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109	Climate change impacts on leatherback turtle pelagic habitat in the Southeast Pacific. Deep-Sea Research Part II: Topical Studies in Oceanography, 2015, 113, 260-267.	0.6	31
110	Physical drivers of interannual chlorophyll variability in the eastern subtropical North Atlantic. Journal of Geophysical Research: Oceans, 2013, 118, 3871-3886.	1.0	30
111	Biogeochemical controls on new production in the tropical Pacific. Deep-Sea Research Part II: Topical Studies in Oceanography, 2002, 49, 2619-2648.	0.6	29
112	Neutral aldoses as source indicators for marine snow. Marine Chemistry, 2008, 108, 195-206.	0.9	29
113	Microbial evolutionary strategies in a dynamic ocean. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 5943-5948.	3.3	29
114	Simulating the oceanâ€™s chlorophyll dynamic range from coastal upwelling to oligotrophy. Progress in Oceanography, 2018, 168, 232-247.	1.5	28
115	Variability of the ocean carbon cycle in response to the North Atlantic Oscillation. Tellus, Series B: Chemical and Physical Meteorology, 2022, 64, 18738.	0.8	27
116	Glacial Iron Sources Stimulate the Southern Ocean Carbon Cycle. Geophysical Research Letters, 2018, 45, 13,377.	1.5	27
117	Quantification of ocean heat uptake from changes in atmospheric O2 and CO2 composition. Scientific Reports, 2019, 9, 20244.	1.6	26
118	Seasonal to interannual predictability of oceanic net primary production inferred from satellite observations. Progress in Oceanography, 2019, 170, 28-39.	1.5	26
119	Sensitivity of Twenty-First-Century Global-Mean Steric Sea Level Rise to Ocean Model Formulation. Journal of Climate, 2013, 26, 2947-2956.	1.2	25
120	What ocean biogeochemical models can tell us about bottom-up control of ecosystem variability. ICES Journal of Marine Science, 2011, 68, 1030-1044.	1.2	24
121	Climate-induced primary productivity change and fishing impacts on the Central North Pacific ecosystem and Hawaii-based pelagic longline fishery. Climatic Change, 2013, 119, 79-93.	1.7	24
122	Enhanced Atlantic sea-level rise relative to the Pacific under high carbon emission rates. Nature Geoscience, 2016, 9, 210-214.	5.4	24
123	Contrasting Upper and Deep Ocean Oxygen Response to Protracted Global Warming. Global Biogeochemical Cycles, 2020, 34, e2020GB006601.	1.9	24
124	Simple Global Ocean Biogeochemistry With Light, Iron, Nutrients and Gas Version 2 (BLINGv2): Model Description and Simulation Characteristics in GFDL's CM4.0. Journal of Advances in Modeling Earth Systems, 2020, 12, e2019MS002008.	1.3	24
125	Potential predictability of marine ecosystem drivers. Biogeosciences, 2020, 17, 2061-2083.	1.3	24
126	Global ecological and biogeochemical impacts of pelagic tunicates. Progress in Oceanography, 2022, 205, 102822.	1.5	24

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127	Ocean Chlorophyll as a Precursor of ENSO: An Earth System Modeling Study. Geophysical Research Letters, 2018, 45, 1939-1947.	1.5	23
128	Response of O₂ and pH to ENSO in the California Current System in a high-resolution global climate model. Ocean Science, 2018, 14, 69-86.	1.3	23
129	A more productive, but different, ocean after mitigation. Geophysical Research Letters, 2015, 42, 9836-9845.	1.5	22
130	Evaluating CMIP5 ocean biogeochemistry and Southern Ocean carbon uptake using atmospheric potential oxygen: Presentâ€day performance and future projection. Geophysical Research Letters, 2016, 43, 2077-2085.	1.5	22
131	Simulated Global Coastal Ecosystem Responses to a Halfâ€Century Increase in River Nitrogen Loads. Geophysical Research Letters, 2021, 48, e2021GL094367.	1.5	22
132	Sensitivity of 234Th export to physical processes in the central equatorial Pacific. Deep-Sea Research Part I: Oceanographic Research Papers, 1999, 46, 831-854.	0.6	21
133	Group behavior among model bacteria influences particulate carbon remineralization depths. Journal of Marine Research, 2014, 72, 183-218.	0.3	21
134	Decadal variability in biogeochemical models: Comparison with a 50â€year ocean colour dataset. Geophysical Research Letters, 2009, 36, .	1.5	20
135	Hot Spots of Carbon and Alkalinity Cycling in the Coastal Oceans. Scientific Reports, 2019, 9, 4434.	1.6	20
136	Surface winds from atmospheric reanalysis lead to contrasting oceanic forcing and coastal upwelling patterns. Ocean Modelling, 2019, 133, 79-111.	1.0	20
137	Roles of the Ocean Mesoscale in the Horizontal Supply of Mass, Heat, Carbon, and Nutrients to the Northern Hemisphere Subtropical Gyres. Journal of Geophysical Research: Oceans, 2018, 123, 7016-7036.	1.0	18
138	When can ocean acidification impacts be detected from decadal alkalinity measurements?. Global Biogeochemical Cycles, 2016, 30, 595-612.	1.9	17
139	Climate Sensitivity of GFDL's CM4.0. Journal of Advances in Modeling Earth Systems, 2020, 12, e2019MS001838.	1.3	17
140	Predictable Variations of the Carbon Sinks and Atmospheric CO₂Growth in a Multiâ€Model Framework. Geophysical Research Letters, 2021, 48, e2020GL090695.	1.5	17
141	The Oceanic Remote Chemical/Optical Analyzer (ORCA)â€"An Autonomous Moored Profiler. Journal of Atmospheric and Oceanic Technology, 2002, 19, 1709-1721.	0.5	16
142	Evaluating the ocean biogeochemical components of Earth system models using atmospheric potential oxygen and ocean color data. Biogeosciences, 2015, 12, 193-208.	1.3	16
143	Comparison of Equilibrium Climate Sensitivity Estimates From Slab Ocean, 150â€Year, and Longer Simulations. Geophysical Research Letters, 2020, 47, e2020GL088852.	1.5	16
144	Trophic level decoupling drives future changes in phytoplankton bloom phenology. Nature Climate Change, 2022, 12, 469-476.	8.1	15

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145	Using altimetry to help explain patchy changes in hydrographic carbon measurements. Journal of Geophysical Research, 2009, 114, .	3.3	14
146	Connecting Atlantic temperature variability and biological cycling in two earth system models. Journal of Marine Systems, 2014, 133, 39-54.	0.9	12
147	Estimating Airâ€Sea Carbon Flux Uncertainty Over the Tropical Pacific: Importance of Winds and Wind Analysis Uncertainty. Global Biogeochemical Cycles, 2019, 33, 370-390.	1.9	11
148	Using Timescales of Deficit and Residence to Evaluate Nearâ€Bottom Dissolved Oxygen Variation in Coastal Seas. Journal of Geophysical Research G: Biogeosciences, 2022, 127, .	1.3	10
149	The fundamental niche of blood oxygen binding in the pelagic ocean. Oikos, 2016, 125, 938-949.	1.2	8
150	Challenges in modeling spatiotemporally varying phytoplankton blooms in the Northwestern Arabian Sea and Gulf of Oman. Biogeosciences, 2016, 13, 1049-1069.	1.3	7
151	The Mechanistic Role of the Central American Seaway in a GFDL Earth System Model. Part 1: Impacts on Global Ocean Mean State and Circulation. Paleoceanography and Paleoclimatology, 2018, 33, 840-859.	1.3	7
152	Multidecadal windâ€driven shifts in northwest Pacific temperature, salinity, O₂, and PO₄. Global Biogeochemical Cycles, 2016, 30, 1599-1619.	1.9	6
153	Oceanic and Atmospheric Drivers of Postâ€Elâ€NiÃ±o Chlorophyll Rebound in the Equatorial Pacific. Geophysical Research Letters, 2022, 49, .	1.5	5
154	Quantifying the Role of Seasonality in the Marine Carbon Cycle Feedback: An ESM2M Case Study. Global Biogeochemical Cycles, 2022, 36, .	1.9	5
155	Models of iron speciation and concentration in the stratified epipelagic ocean. Geophysical Research Letters, 2011, 38, .	1.5	3
156	A roadmap on ecosystem change. Nature Climate Change, 2015, 5, 20-21.	8.1	3
157	Evaluating Southern Ocean biological production in two ocean biogeochemical models on daily to seasonal timescales using satellite chlorophyll and O₂ / Ar observations. Biogeosciences, 2015, 12, 681-695.	1.3	2
158	Quantifying uncertainty in future ocean carbon uptake. Global Biogeochemical Cycles, 2016, 30, 1563-1565.	1.9	2
159	An Atmospheric Constraint on the Seasonal Airâ€Sea Exchange of Oxygen and Heat in the Extratropics. Journal of Geophysical Research: Oceans, 2021, 126, e2021JC017510.	1.0	2
160	Regional sensitivity patterns of Arctic Ocean acidification revealed with machine learning. Communications Earth & Environment, 2022, 3, .	2.6	2
161	Regional projection of climate warming effects on coastal seas in east China. Environmental Research Letters, 2022, 17, 074006.	2.2	2
162	Reduced CaCO 3 Flux to the Seafloor and Weaker Bottom Current Speeds Curtail Benthic CaCO 3 Dissolution Over the 21st Century. Global Biogeochemical Cycles, 2019, 33, 1654-1673.	1.9	1

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163	Mechanisms driving ESM-based marine ecosystem predictive skill on the east African coast. Environmental Research Letters, 2022, 17, 084004.	2.2	1
164	Correction to â€œUsing altimetry to help explain patchy changes in hydrographic carbon measurementsâ€• Journal of Geophysical Research, 2009, 114, .	3.3	0
165	Corrigendum to "Evaluating the ocean biogeochemical components of Earth system models using atmospheric potential oxygen and ocean color data" published in Biogeosciences, 12, 193â€“208, 2015. Biogeosciences, 2015, 12, 2891-2891.	1.3	0