

Reconstruction of the history of anthropogenic CO₂ con

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Citation Report

#	ARTICLE	IF	CITATIONS
1	Ocean Acidification at High Latitudes: The Bellwether. <i>Oceanography</i> , 2009, 22, 160-171.	0.5	349
2	Slowing sink?. <i>Nature Geoscience</i> , 2009, 2, 826-826.	5.4	0
3	What can be learned about carbon cycle climate feedbacks from the CO ₂ airborne fraction?. <i>Atmospheric Chemistry and Physics</i> , 2010, 10, 7739-7751.	1.9	68
4	Towards an assessment of simple global marine biogeochemical models of different complexity. <i>Progress in Oceanography</i> , 2010, 86, 337-360.	1.5	96
5	Ocean biomes blended. <i>Nature</i> , 2010, 467, 538-539.	13.7	0
6	The long and the short of it. <i>Nature</i> , 2010, 467, 539-539.	13.7	0
7	A model-based assessment of the TrOCA approach for estimating anthropogenic carbon in the ocean. <i>Biogeosciences</i> , 2010, 7, 723-751.	1.3	47
8	Ongoing transients in carbonate compensation. <i>Global Biogeochemical Cycles</i> , 2010, 24, .	1.9	32
9	Where and how long ago was water in the western North Atlantic ventilated? Maximum entropy inversions of bottle data from WOCE line A20. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	38
10	Detecting anthropogenic CO ₂ changes in the interior Atlantic Ocean between 1989 and 2005. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	72
11	Dissolved organic carbon export and subsequent remineralization in the mesopelagic and bathypelagic realms of the North Atlantic basin. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 2010, 57, 1433-1445.	0.6	230
12	An improved method for estimating water-mass ventilation age from radiocarbon data. <i>Earth and Planetary Science Letters</i> , 2010, 295, 367-378.	1.8	27
13	State of the Climate in 2009. <i>Bulletin of the American Meteorological Society</i> , 2010, 91, s1-s222.	1.7	121
14	A Large and Persistent Carbon Sink in the World's Forests. <i>Science</i> , 2011, 333, 988-993.	6.0	5,393
15	Variation in particulate C and N isotope composition following iron fertilization in two successive phytoplankton communities in the Southern Ocean. <i>Global Biogeochemical Cycles</i> , 2011, 25, n/a-n/a.	1.9	9
16	The impact of the North Atlantic Oscillation on the uptake and accumulation of anthropogenic CO ₂ by North Atlantic Ocean mode waters. <i>Global Biogeochemical Cycles</i> , 2011, 25, n/a-n/a.	1.9	30
17	Changes in South Pacific anthropogenic carbon. <i>Global Biogeochemical Cycles</i> , 2011, 25, n/a-n/a.	1.9	29
18	Sea surface pCO ₂ and O ₂ in the Southern Ocean during the austral fall, 2008. <i>Journal of Geophysical Research</i> , 2011, 116, .	3.3	24

#	ARTICLE	IF	CITATIONS
19	Volcanic versus anthropogenic carbon dioxide. <i>Eos</i> , 2011, 92, 201-202.	0.1	120
20	Limiting invasive species in ballast water. <i>Eos</i> , 2011, 92, 202-203.	0.1	2
23	Linking phytoplankton community size composition with temperature, plankton food web structure and sea-air CO ₂ flux. <i>Deep-Sea Research Part I: Oceanographic Research Papers</i> , 2011, 58, 826-838.	0.6	77
24	Water masses as a unifying framework for understanding the Southern Ocean Carbon Cycle. <i>Biogeosciences</i> , 2011, 8, 1031-1052.	1.3	66
25	Climatic trends. , 0, , 1-2.		0
26	Carbon cycle trends and vulnerabilities. , 0, , 75-98.		0
28	Monitoring and interpreting the ocean uptake of atmospheric CO ₂ . <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2011, 369, 1997-2008.	1.6	8
29	Acclimation to high CO ₂ in maize is related to water status and dependent on leaf rank. <i>Plant, Cell and Environment</i> , 2011, 34, 314-331.	2.8	33
30	CO ₂ -fertilization and potential future terrestrial carbon uptake in India. <i>Mitigation and Adaptation Strategies for Global Change</i> , 2011, 16, 143-160.	1.0	8
31	State of the Climate in 2010. <i>Bulletin of the American Meteorological Society</i> , 2011, 92, S1-S236.	1.7	135
32	Evidence for Oceanic Control of Interannual Carbon Cycle Feedbacks. <i>Numerische Mathematik</i> , 2011, 311, 485-516.	0.7	1
33	Gross CO ₂ fluxes from land-use change: implications for reducing global emissions and increasing sinks. <i>Carbon Management</i> , 2011, 2, 41-47.	1.2	40
34	Regional Impacts of Climate Change and Atmospheric CO ₂ on Future Ocean Carbon Uptake: A Multimodel Linear Feedback Analysis. <i>Journal of Climate</i> , 2011, 24, 2300-2318.	1.2	95
35	The Mean Age of Ocean Waters Inferred from Radiocarbon Observations: Sensitivity to Surface Sources and Accounting for Mixing Histories. <i>Journal of Physical Oceanography</i> , 2012, 42, 291-305.	0.7	90
36	Impact of aragonite saturation state changes on migratory pteropods. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2012, 279, 732-738.	1.2	65
37	Large-scale sequestration of atmospheric carbon via plant roots in natural and agricultural ecosystems: why and how. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2012, 367, 1589-1597.	1.8	217
38	Localized subduction of anthropogenic carbon dioxide in the Southern Hemisphere oceans. <i>Nature Geoscience</i> , 2012, 5, 579-584.	5.4	166
39	State of the Climate in 2011. <i>Bulletin of the American Meteorological Society</i> , 2012, 93, S1-S282.	1.7	121

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40	Ventilation of the deep ocean constrained with tracer observations and implications for radiocarbon estimates of ideal mean age. <i>Earth and Planetary Science Letters</i> , 2012, 325-326, 116-125.	1.8	122
41	Variability of primary production and air-sea CO ₂ flux in the Southern Ocean. <i>Global Biogeochemical Cycles</i> , 2012, 26, .	1.9	22
42	Estimating net community production in the Southern Ocean based on atmospheric potential oxygen and satellite ocean color data. <i>Global Biogeochemical Cycles</i> , 2012, 26, .	1.9	31
43	Seasonal variations of stratospheric age spectra in the Goddard Earth Observing System Chemistry Climate Model (GEOSCCM). <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	29
44	Changing controls on oceanic radiocarbon: New insights on shallow-to-deep ocean exchange and anthropogenic CO ₂ uptake. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	99
45	Simulation of anthropogenic CO ₂ uptake in the CCSM3.1 ocean circulation-biogeochemical model: comparison with data-based estimates. <i>Biogeosciences</i> , 2012, 9, 1321-1336.	1.3	24
46	The Southern Ocean Observing System. <i>Oceanography</i> , 2012, 25, 68-69.	0.5	30
47	Observed acidification trends in North Atlantic water masses. <i>Biogeosciences</i> , 2012, 9, 5217-5230.	1.3	26
48	Changes in column inventories of carbon and oxygen in the Atlantic Ocean. <i>Biogeosciences</i> , 2012, 9, 4819-4833.	1.3	12
49	Detecting anthropogenic carbon dioxide uptake and ocean acidification in the North Atlantic Ocean. <i>Biogeosciences</i> , 2012, 9, 2509-2522.	1.3	166
50	Mechanisms for CO Production from CO ₂ Using Reduced Rhenium Tricarbonyl Catalysts. <i>Journal of the American Chemical Society</i> , 2012, 134, 5180-5186.	6.6	213
51	Influences of climate change on the uptake and storage of anthropogenic CO ₂ in the global ocean. <i>Journal of Meteorological Research</i> , 2012, 26, 304-317.	1.0	3
52	The subsurface layer reference to calculate preformed alkalinity and air-sea CO ₂ disequilibrium in the Atlantic Ocean. <i>Journal of Marine Systems</i> , 2012, 94, 52-63.	0.9	20
53	An update of anthropogenic CO ₂ storage rates in the western South Atlantic basin and the role of Antarctic Bottom Water. <i>Journal of Marine Systems</i> , 2012, 94, 197-203.	0.9	39
54	Patterns, processes and vulnerability of Southern Ocean benthos: a decadal leap in knowledge and understanding. <i>Marine Biology</i> , 2013, 160, 2295-2317.	0.7	79
55	A global ocean biogeochemistry general circulation model and its simulations. <i>Advances in Atmospheric Sciences</i> , 2013, 30, 922-939.	1.9	4
56	Earth System Monitoring. , 2013, , .		7
57	Land use change and nitrogen feedbacks constrain the trajectory of the land carbon sink. <i>Geophysical Research Letters</i> , 2013, 40, 5218-5222.	1.5	40

#	ARTICLE	IF	CITATIONS
58	Natural air-sea flux of CO ₂ in simulations of the NASA-GISS climate model: Sensitivity to the physical ocean model formulation. <i>Ocean Modelling</i> , 2013, 66, 26-44.	1.0	27
59	A new constraint on global air-sea CO ₂ fluxes using bottle carbon data. <i>Geophysical Research Letters</i> , 2013, 40, 1594-1599.	1.5	29
60	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.	0.6	15
61	Global trends in surface ocean CO ₂ from in situ data. <i>Global Biogeochemical Cycles</i> , 2013, 27, 541-557.	1.9	126
62	THE ROLE OF THE BARENTS SEA IN THE ARCTIC CLIMATE SYSTEM. <i>Reviews of Geophysics</i> , 2013, 51, 415-449.	9.0	362
63	Coral Reef Ecosystems. , 2013, , 77-106.		3
64	Theoretical mechanism studies on the electrocatalytic reduction of CO ₂ to formate by water-stable iridium dihydride pincer complex. <i>Dalton Transactions</i> , 2013, 42, 5755.	1.6	37
65	Accounting for demand and supply of the biosphere's regenerative capacity: The National Footprint Accounts™ underlying methodology and framework. <i>Ecological Indicators</i> , 2013, 24, 518-533.	2.6	510
66	Socio-economic impacts of ocean acidification in the Mediterranean Sea. <i>Marine Policy</i> , 2013, 38, 447-456.	1.5	25
67	Adaptive strategies and life history characteristics in a warming climate: Salmon in the Arctic?. <i>Environmental Biology of Fishes</i> , 2013, 96, 1187-1226.	0.4	61
68	Marine Ecosystems, Biogeochemistry, and Climate. <i>International Geophysics</i> , 2013, 103, 817-842.	0.6	7
69	Long-term effects of warming and ocean acidification are modified by seasonal variation in species responses and environmental conditions. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2013, 368, 20130186.	1.8	102
70	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.	1.2	48
72	A theoretical framework for the net land-to-atmosphere CO ₂ flux and its implications in the definition of "emissions from land-use change". <i>Earth System Dynamics</i> , 2013, 4, 171-186.	2.7	74
73	The impact of nitrogen and phosphorous limitation on the estimated terrestrial carbon balance and warming of land use change over the last 156 yr. <i>Earth System Dynamics</i> , 2013, 4, 333-345.	2.7	32
74	Recent Changes in the Ventilation of the Southern Oceans. <i>Science</i> , 2013, 339, 568-570.	6.0	129
76	Dynamics of the Southern Ocean Circulation. <i>International Geophysics</i> , 2013, 103, 471-492.	0.6	56
77	State of the Climate in 2012. <i>Bulletin of the American Meteorological Society</i> , 2013, 94, S1-S258.	1.7	129

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78	Mixed layer saturations of CFC-11, CFC-12, and SF ₆ in a global isopycnal model. <i>Journal of Geophysical Research: Oceans</i> , 2013, 118, 4978-4988.	1.0	25
79	Seasonally different carbon flux changes in the Southern Ocean in response to the southern annular mode. <i>Global Biogeochemical Cycles</i> , 2013, 27, 1236-1245.	1.9	107
80	Air mass origin as a diagnostic of tropospheric transport. <i>Journal of Geophysical Research D: Atmospheres</i> , 2013, 118, 1459-1470.	1.2	31
81	The Marine Carbon Cycle and Ocean Carbon Inventories. <i>International Geophysics</i> , 2013, 103, 787-815.	0.6	11
82	Global ocean carbon uptake: magnitude, variability and trends. <i>Biogeosciences</i> , 2013, 10, 1983-2000.	1.3	276
83	Summertime calcium carbonate undersaturation in shelf waters of the western Arctic Ocean – how biological processes exacerbate the impact of ocean acidification. <i>Biogeosciences</i> , 2013, 10, 5281-5309.	1.3	39
84	A novel method for diagnosing seasonal to inter-annual surface ocean carbon dynamics from bottle data using neural networks. <i>Biogeosciences</i> , 2013, 10, 4319-4340.	1.3	32
85	An assessment of the Atlantic and Arctic sea-air CO ₂ fluxes, 1990–2009. <i>Biogeosciences</i> , 2013, 10, 607-627.	1.3	131
86	The non-steady state oceanic CO ₂ signal: its importance, magnitude and a novel way to detect it. <i>Biogeosciences</i> , 2013, 10, 2219-2228.	1.3	23
87	Role of regression model selection and station distribution on the estimation of oceanic anthropogenic carbon change by eMLR. <i>Biogeosciences</i> , 2013, 10, 4801-4831.	1.3	17
88	Variation in Carbon Storage and Its Distribution by Stand Age and Forest Type in Boreal and Temperate Forests in Northeastern China. <i>PLoS ONE</i> , 2013, 8, e72201.	1.1	45
89	Multiple stressors of ocean ecosystems in the 21st century: projections with CMIP5 models. <i>Biogeosciences</i> , 2013, 10, 6225-6245.	1.3	1,191
90	Global ocean storage of anthropogenic carbon. <i>Biogeosciences</i> , 2013, 10, 2169-2191.	1.3	348
91	Respiration of Mediterranean cold-water corals is not affected by ocean acidification as projected for the end of the century. <i>Biogeosciences</i> , 2013, 10, 5671-5680.	1.3	26
92	Wind-driven changes in the ocean carbon sink. <i>Biogeosciences</i> , 2014, 11, 6107-6117.	1.3	19
93	Southern Ocean carbon trends: Sensitivity to methods. <i>Geophysical Research Letters</i> , 2014, 41, 6833-6840.	1.5	39
94	An automated gas exchange tank for determining gas transfer velocities in natural seawater samples. <i>Ocean Science</i> , 2014, 10, 587-600.	1.3	4
95	Regional variability of acidification in the Arctic: a sea of contrasts. <i>Biogeosciences</i> , 2014, 11, 293-308.	1.3	41

#	ARTICLE	IF	CITATIONS
96	Natural ocean carbon cycle sensitivity to parameterizations of the recycling in a climate model. <i>Biogeosciences</i> , 2014, 11, 1137-1154.	1.3	19
97	Quantifying the impact of ocean acidification on our future climate. <i>Biogeosciences</i> , 2014, 11, 3965-3983.	1.3	19
98	Preliminary analysis of the development of the Carbon Tracker system in Latin America and the Caribbean. <i>Atmosfera</i> , 2014, 27, 61-76.	0.3	6
99	Studies of Recent Changes in Atmospheric O ₂ Content. , 2014, , 385-404.		74
100	The role of CO ₂ in the Earth's ecosystem and the possibility of controlling flows between subsystems. <i>Gospodarka Surowcami Mineralnymi / Mineral Resources Management</i> , 2014, 30, 5-19.	0.2	1
101	State of the Climate in 2013. <i>Bulletin of the American Meteorological Society</i> , 2014, 95, S1-S279.	1.7	138
102	Nitrogen and phosphorous limitations significantly reduce future allowable CO ₂ emissions. <i>Geophysical Research Letters</i> , 2014, 41, 632-637.	1.5	70
103	Global carbon budget 2013. <i>Earth System Science Data</i> , 2014, 6, 235-263.	3.7	311
104	The Contemporary Carbon Cycle. , 2014, , 399-435.		20
105	The Arctic Ocean carbon sink. <i>Deep-Sea Research Part I: Oceanographic Research Papers</i> , 2014, 86, 39-55.	0.6	60
106	The biogeophysical effects of extreme afforestation in modeling future climate. <i>Theoretical and Applied Climatology</i> , 2014, 118, 511-521.	1.3	12
107	Ecological Footprint: Implications for biodiversity. <i>Biological Conservation</i> , 2014, 173, 121-132.	1.9	149
108	Proton Transfer Reaction Dynamics and Energetics in Calcification and Decalcification. <i>Chemistry - A European Journal</i> , 2014, 20, 13656-13661.	1.7	2
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.	1.2	156
110	A growing oceanic carbon uptake: Results from an inversion study of surface CO_2 data. <i>Global Biogeochemical Cycles</i> , 2014, 28, 335-351.	1.9	33
111	An observing system simulation for Southern Ocean carbon dioxide uptake. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2014, 372, 20130046.	1.6	41
112	Evaluation of oceanic transport parameters using transient tracers from observations and model output. <i>Ocean Modelling</i> , 2014, 74, 1-21.	1.0	8
113	Anthropogenic CO ₂ estimates in the Southern Ocean: Storage partitioning in the different water masses. <i>Progress in Oceanography</i> , 2014, 120, 230-242.	1.5	31

#	ARTICLE	IF	CITATIONS
114	The oceanic anthropogenic CO ₂ sink: Storage, air-sea fluxes, and transports over the industrial era. <i>Global Biogeochemical Cycles</i> , 2014, 28, 631-647.	1.9	207
115	Vertical transport in the ocean due to sub-mesoscale structures: Impacts in the Kerguelen region. <i>Ocean Modelling</i> , 2014, 80, 10-23.	1.0	62
116	Spatial and seasonal variability of the air-sea equilibration timescale of carbon dioxide. <i>Global Biogeochemical Cycles</i> , 2014, 28, 1163-1178.	1.9	74
118	Causes and implications of persistent atmospheric carbon dioxide biases in Earth System Models. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2014, 119, 141-162.	1.3	121
119	Mixing and remineralization in waters detrained from the surface into Subantarctic Mode Water and Antarctic Intermediate Water in the southeastern Pacific. <i>Journal of Geophysical Research: Oceans</i> , 2014, 119, 4001-4028.	1.0	14
120	Decadal (1994-2008) change in the carbon isotope ratio in the eastern South Pacific Ocean. <i>Global Biogeochemical Cycles</i> , 2014, 28, 775-785.	1.9	8
121	Ocean acidification decreases the light-use efficiency in an Antarctic diatom under dynamic but not constant light. <i>New Phytologist</i> , 2015, 207, 159-171.	3.5	88
122	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.	1.9	85
123	Multicentury changes in ocean and land contributions to the climate-carbon feedback. <i>Global Biogeochemical Cycles</i> , 2015, 29, 744-759.	1.9	63
125	Southern Hemisphere extratropical circulation: Recent trends and natural variability. <i>Geophysical Research Letters</i> , 2015, 42, 5508-5515.	1.5	42
127	Pathways of anthropogenic carbon subduction in the global ocean. <i>Geophysical Research Letters</i> , 2015, 42, 6416-6423.	1.5	41
128	Natural variability of CO ₂ and O ₂ fluxes: What can we learn from centuries-long climate models simulations?. <i>Journal of Geophysical Research: Oceans</i> , 2015, 120, 384-404.	1.0	63
129	Southern Ocean isopycnal mixing and ventilation changes driven by winds. <i>Geophysical Research Letters</i> , 2015, 42, 10,357.	1.5	32
130	Assessing the abilities of CMIP5 models to represent the seasonal cycle of surface ocean CO ₂ . <i>Journal of Geophysical Research: Oceans</i> , 2015, 120, 4625-4637.	1.0	11
131	Biominalization in bryozoans: present, past and future. <i>Biological Reviews</i> , 2015, 90, 1118-1150.	4.7	57
132	Transports and budgets of anthropogenic CO ₂ in the tropical North Atlantic in 1992-1993 and 2010-2011. <i>Global Biogeochemical Cycles</i> , 2015, 29, 1075-1091.	1.9	9
133	Sustained growth of the Southern Ocean carbon storage in a warming climate. <i>Geophysical Research Letters</i> , 2015, 42, 4516-4522.	1.5	28
134	Knowledge and implications of global change in the oceans for biology, ecology, and ecosystem services. , 0, , 84-108.		1

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135	Water mass age and aging driving chromophoric dissolved organic matter in the dark global ocean. <i>Global Biogeochemical Cycles</i> , 2015, 29, 917-934.	1.9	60
136	Recent evidence for a strengthening CO ₂ sink in the Southern Ocean from carbonate system measurements in the Drake Passage (2002–2015). <i>Geophysical Research Letters</i> , 2015, 42, 7623-7630.	1.5	70
139	Simulated anthropogenic CO ₂ storage and acidification of the Mediterranean Sea. <i>Biogeosciences</i> , 2015, 12, 781-802.	1.3	77
140	Characterizing the Natural System: Toward Sustained, Integrated Coastal Ocean Acidification Observing Networks to Facilitate Resource Management and Decision Support. <i>Oceanography</i> , 2015, 25, 92-107.	0.5	14
141	Sobre el calentamiento y la acidificaci3n del oc3ano mundial y su posible expresi3n en el medio marino costero colombiano. <i>Revista De La Academia Colombiana De Ciencias Exactas, Físicas Y Naturales</i> , 2015, 39, 201.	0.0	9
142	The ocean carbon sink – impacts, vulnerabilities and challenges. <i>Earth System Dynamics</i> , 2015, 6, 327-358.	2.7	109
143	Recent trends and drivers of regional sources and sinks of carbon dioxide. <i>Biogeosciences</i> , 2015, 12, 653-679.	1.3	587
144	Audit of the global carbon budget: estimate errors and their impact on uptake uncertainty. <i>Biogeosciences</i> , 2015, 12, 2565-2584.	1.3	96
146	Evaluating the ocean biogeochemical components of Earth system models using atmospheric potential oxygen and ocean color data. <i>Biogeosciences</i> , 2015, 12, 193-208.	1.3	16
147	Sensitivity of Mediterranean Bivalve Mollusc Aquaculture to Climate Change, Ocean Acidification, and Other Environmental Pressures: Findings from a Producer Survey. <i>Journal of Shellfish Research</i> , 2015, 34, 1161-1176.	0.3	41
148	Rising atmospheric CO ₂ leads to large impact of biology on Southern Ocean CO ₂ uptake via changes of the Revelle factor. <i>Geophysical Research Letters</i> , 2015, 42, 1459-1464.	1.5	78
149	Ocean acidification along the 24.5°N section in the subtropical North Atlantic. <i>Geophysical Research Letters</i> , 2015, 42, 450-458.	1.5	7
150	An objective reconstruction of the Mediterranean sea carbonate system. <i>Deep-Sea Research Part I: Oceanographic Research Papers</i> , 2015, 98, 21-30.	0.6	7
151	Global warming caused by afforestation in the Southern Hemisphere. <i>Ecological Indicators</i> , 2015, 52, 371-378.	2.6	6
152	Dominance of the Southern Ocean in Anthropogenic Carbon and Heat Uptake in CMIP5 Models. <i>Journal of Climate</i> , 2015, 28, 862-886.	1.2	432
153	Carbon dynamics of the Weddell Gyre, Southern Ocean. <i>Global Biogeochemical Cycles</i> , 2015, 29, 288-306.	1.9	24
154	Topographic influence on submesoscale dynamics in the Southern Ocean. <i>Geophysical Research Letters</i> , 2015, 42, 1139-1147.	1.5	61
155	Using Greenâ€™s Functions to initialize and adjust a global, eddy ocean biogeochemistry general circulation model. <i>Ocean Modelling</i> , 2015, 95, 1-14.	1.0	22

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156	Quantifying anthropogenic carbon inventory changes in the Pacific sector of the Southern Ocean. <i>Marine Chemistry</i> , 2015, 174, 147-160.	0.9	38
157	Anthropogenic CO ₂ changes in the Equatorial Atlantic Ocean. <i>Progress in Oceanography</i> , 2015, 134, 256-270.	1.5	4
158	Effects of seawater-pH and biomineralization on the boron isotopic composition of deep-sea bamboo corals. <i>Geochimica Et Cosmochimica Acta</i> , 2015, 155, 86-106.	1.6	32
159	The dilemma of the dwarf Earth's CO ₂ degassing: Irrelevant or crucial?. <i>Journal of Geochemical Exploration</i> , 2015, 152, 118-122.	1.5	5
160	Air mass origin in the tropical lower stratosphere: The influence of Asian boundary layer air. <i>Geophysical Research Letters</i> , 2015, 42, 4240-4248.	1.5	44
161	Airmass Origin in the Arctic. Part I: Seasonality. <i>Journal of Climate</i> , 2015, 28, 4997-5014.	1.2	18
162	Decreased calcification in the Southern Ocean over the satellite record. <i>Geophysical Research Letters</i> , 2015, 42, 1834-1840.	1.5	27
163	Observing multidecadal trends in Southern Ocean CO ₂ uptake: What can we learn from an ocean model?. <i>Global Biogeochemical Cycles</i> , 2015, 29, 416-426.	1.9	35
164	Spectrophotometric Measurements of the Carbonate Ion Concentration: Aragonite Saturation States in the Mediterranean Sea and Atlantic Ocean. <i>Environmental Science & Technology</i> , 2015, 49, 11679-11687.	4.6	10
165	Climate-Driven Variability in the Southern Ocean Carbonate System. <i>Journal of Climate</i> , 2015, 28, 5335-5350.	1.2	10
166	Summertime physical and biological controls on O ₂ and CO ₂ in the Australian Sector of the Southern Ocean. <i>Journal of Marine Systems</i> , 2015, 147, 21-28.	0.9	22
167	Re-evaluating the 1940s CO ₂ plateau. <i>Biogeosciences</i> , 2016, 13, 4877-4897.	1.3	22
168	Climate impacts on multidecadal CO ₂ variability in the North Atlantic: 1948-2009. <i>Biogeosciences</i> , 2016, 13, 3387-3396.	1.3	16
169	Constraining the strength of the terrestrial CO ₂ fertilization effect in the Canadian Earth system model version 4.2 (CanESM4.2). <i>Geoscientific Model Development</i> , 2016, 9, 2357-2376.	1.3	11
170	Quantifying the influence of sub-mesoscale dynamics on the supply of iron to Southern Ocean phytoplankton blooms. <i>Deep-Sea Research Part I: Oceanographic Research Papers</i> , 2016, 115, 199-209.	0.6	18
171	Particulate matter stoichiometry driven by microplankton community structure in summer in the Indian sector of the Southern Ocean. <i>Limnology and Oceanography</i> , 2016, 61, 1301-1321.	1.6	13
172	Multidecadal accumulation of anthropogenic and remineralized dissolved inorganic carbon along the Extended Ellett Line in the northeast Atlantic Ocean. <i>Global Biogeochemical Cycles</i> , 2016, 30, 293-310.	1.9	8
173	Narrowing the spread in CMIP5 model projections of air-sea CO ₂ fluxes. <i>Scientific Reports</i> , 2016, 6, 37548.	1.6	12

#	ARTICLE	IF	CITATIONS
174	Carbon cycling dynamics in the seasonal sea-ice zone of East Antarctica. <i>Journal of Geophysical Research: Oceans</i> , 2016, 121, 8749-8769.	1.0	17
175	The influence of Southern Ocean winds on the North Atlantic carbon sink. <i>Global Biogeochemical Cycles</i> , 2016, 30, 844-858.	1.9	12
176	Polar Marine Microorganisms and Climate Change. <i>Advances in Microbial Physiology</i> , 2016, 69, 187-215.	1.0	45
177	Monthly CO ₂ at A4HDYD station in a productive shallow marginal sea (Yellow Sea) with a seasonal thermocline: Controlling processes. <i>Journal of Marine Systems</i> , 2016, 159, 89-99.	0.9	17
178	Toward the Ecological Footprint of the use and maintenance phase of buildings: Utility consumption and cleaning tasks. <i>Ecological Indicators</i> , 2016, 69, 66-77.	2.6	37
179	Economic and ecological views on climate change mitigation with bioenergy and negative emissions. <i>GCB Bioenergy</i> , 2016, 8, 4-10.	2.5	51
180	How does Southern Antarctic Mode Water ventilate the Southern Hemisphere subtropics?. <i>Journal of Geophysical Research: Oceans</i> , 2016, 121, 6558-6582.	1.0	47
181	Changes in anthropogenic carbon storage in the Northeast Pacific in the last decade. <i>Journal of Geophysical Research: Oceans</i> , 2016, 121, 4618-4632.	1.0	11
182	A new statistical approach for interpreting oceanic fCO ₂ data. <i>Marine Chemistry</i> , 2016, 183, 41-49.	0.9	13
183	Meteorology and oceanography of the Atlantic sector of the Southern Ocean—a review of German achievements from the last decade. <i>Ocean Dynamics</i> , 2016, 66, 1379-1413.	0.9	12
184	Evaluating CMIP5 ocean biogeochemistry and Southern Ocean carbon uptake using atmospheric potential oxygen: Present-day performance and future projection. <i>Geophysical Research Letters</i> , 2016, 43, 2077-2085.	1.5	22
185	Decadal trends in air-sea CO ₂ exchange in the Ross Sea (Antarctica). <i>Geophysical Research Letters</i> , 2016, 43, 5271-5278.	1.5	8
186	Chromophoric signatures of microbial by-products in the dark ocean. <i>Geophysical Research Letters</i> , 2016, 43, 7639-7648.	1.5	15
187	The Transit-Time Distribution from the Northern Hemisphere Midlatitude Surface. <i>Journals of the Atmospheric Sciences</i> , 2016, 73, 3785-3802.	0.6	26
188	The formation of the ocean's anthropogenic carbon reservoir. <i>Scientific Reports</i> , 2016, 6, 35473.	1.6	46
189	Reducing uncertainties in decadal variability of the global carbon budget with multiple datasets. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, 13104-13108.	3.3	39
190	Empirical algorithms to estimate water column pH in the Southern Ocean. <i>Geophysical Research Letters</i> , 2016, 43, 3415-3422.	1.5	48
191	Partial ages: diagnosing transport processes by means of multiple clocks. <i>Ocean Dynamics</i> , 2016, 66, 367-386.	0.9	14

#	ARTICLE	IF	CITATIONS
192	Preliminary kinetic data of silicic acid species prior to the formation of exoskeletal structures. <i>Marine Chemistry</i> , 2016, 181, 18-24.	0.9	3
193	On which timescales do gas transfer velocities control North Atlantic CO ₂ flux variability?. <i>Global Biogeochemical Cycles</i> , 2016, 30, 787-802.	1.9	13
194	The internal consistency of the North Sea carbonate system. <i>Journal of Marine Systems</i> , 2016, 157, 52-64.	0.9	10
195	Timescales for detection of trends in the ocean carbon sink. <i>Nature</i> , 2016, 530, 469-472.	13.7	110
196	Constraints on oceanic meridional heat transport from combined measurements of oxygen and carbon. <i>Climate Dynamics</i> , 2016, 47, 3335-3357.	1.7	16
197	Ecological Footprint: Refining the carbon Footprint calculation. <i>Ecological Indicators</i> , 2016, 61, 390-403.	2.6	185
198	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.	5.1	183
199	Comparison of sinking particles in the upper 200Åm between subarctic station K2 and subtropical station S1 based on drifting sediment trap experiments. <i>Journal of Oceanography</i> , 2016, 72, 373-386.	0.7	33
200	Importance of deep mixing and silicic acid in regulating phytoplankton biomass and community in the iron-limited Antarctic Polar Front region in summer. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 2017, 138, 74-85.	0.6	12
201	Temporal changes in ventilation and the carbonate system in the Atlantic sector of the Southern Ocean. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 2017, 138, 26-38.	0.6	13
202	Clarifying the role of coastal and marine systems in climate mitigation. <i>Frontiers in Ecology and the Environment</i> , 2017, 15, 42-50.	1.9	321
203	Two decades of Pacific anthropogenic carbon storage and ocean acidification along Global Ocean Ship-based Hydrographic Investigations Program sections P16 and P02. <i>Global Biogeochemical Cycles</i> , 2017, 31, 306-327.	1.9	42
204	Decline in global oceanic oxygen content during the past five decades. <i>Nature</i> , 2017, 542, 335-339.	13.7	829
205	Delineating environmental control of phytoplankton biomass and phenology in the Southern Ocean. <i>Geophysical Research Letters</i> , 2017, 44, 5016-5024.	1.5	79
206	Calibration of the carbon isotope composition ($\delta^{13}\text{C}$) of benthic foraminifera. <i>Paleoceanography</i> , 2017, 32, 512-530.	3.0	63
207	The Modern Carbon Cycle. , 2017, , 163-225.		0
208	Eddy-Pump: Pelagic carbon pump processes along the eddying Antarctic Polar Front in the Atlantic Sector of the Southern Ocean. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 2017, 138, 1-5.	0.6	1
209	Transit Time Distribution based on the ECCO-JPL Ocean Data Assimilation. <i>Journal of Marine Systems</i> , 2017, 167, 1-10.	0.9	3

#	ARTICLE	IF	CITATIONS
210	Ecological footprint of the use and maintenance phase of buildings: Maintenance tasks and final results. <i>Energy and Buildings</i> , 2017, 155, 339-351.	3.1	37
211	Mechanistic Drivers of Reemergence of Anthropogenic Carbon in the Equatorial Pacific. <i>Geophysical Research Letters</i> , 2017, 44, 9433-9439.	1.5	10
212	A data assimilating model for estimating <sc>S</sc>outhern <sc>O</sc>cean biogeochemistry. <i>Journal of Geophysical Research: Oceans</i> , 2017, 122, 6968-6988.	1.0	120
213	Mesoscale and Submesoscale Effects on Mixed Layer Depth in the Southern Ocean. <i>Journal of Physical Oceanography</i> , 2017, 47, 2173-2188.	0.7	42
214	Atmospheric evidence for a global secular increase in carbon isotopic discrimination of land photosynthesis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, 10361-10366.	3.3	166
215	Collapse of the tropical and subtropical North Atlantic CO ₂ sink in boreal spring of 2010. <i>Scientific Reports</i> , 2017, 7, 41694.	1.6	17
216	Space and time variability of the <sc>S</sc>outhern <sc>O</sc>cean carbon budget. <i>Journal of Geophysical Research: Oceans</i> , 2017, 122, 7407-7432.	1.0	20
217	Phytoplankton community responses to iron and CO ₂ enrichment in different biogeochemical regions of the Southern Ocean. <i>Polar Biology</i> , 2017, 40, 2143-2159.	0.5	7
218	Decadal changes in Southern Ocean ventilation inferred from deconvolutions of repeat hydrographies. <i>Geophysical Research Letters</i> , 2017, 44, 5655-5664.	1.5	17
219	Recent Changes in Land Water Storage and its Contribution to Sea Level Variations. <i>Surveys in Geophysics</i> , 2017, 38, 131-152.	2.1	59
220	Natural Variability and Anthropogenic Trends in the Ocean Carbon Sink. <i>Annual Review of Marine Science</i> , 2017, 9, 125-150.	5.1	100
221	Role of the ocean's AMOC in setting the uptake efficiency of transient tracers. <i>Geophysical Research Letters</i> , 2017, 44, 5590-5598.	1.5	20
222	Stationary Rossby waves dominate subduction of anthropogenic carbon in the Southern Ocean. <i>Scientific Reports</i> , 2017, 7, 17076.	1.6	27
223	Agreement of CMIP5 Simulated and Observed Ocean Anthropogenic CO ₂ Uptake. <i>Geophysical Research Letters</i> , 2017, 44, 12,298.	1.5	27
224	Modelled estimates of spatial variability of iron stress in the Atlantic sector of the Southern Ocean. <i>Biogeosciences</i> , 2017, 14, 3883-3897.	1.3	8
225	Southern Ocean Phytoplankton in a Changing Climate. <i>Frontiers in Marine Science</i> , 2017, 4, .	1.2	251
226	Compiled records of carbon isotopes in atmospheric CO ₂ for historical simulations in CMIP6. <i>Geoscientific Model Development</i> , 2017, 10, 4405-4417.	1.3	154
228	The impact of nanoplastics on marine dissolved organic matter assembly. <i>Science of the Total Environment</i> , 2018, 634, 316-320.	3.9	58

#	ARTICLE	IF	CITATIONS
229	Meridional overturning circulation conveys fast acidification to the deep Atlantic Ocean. <i>Nature</i> , 2018, 554, 515-518.	13.7	64
230	Variability of nutrients and carbon dioxide in the Antarctic Intermediate Water between 1990 and 2014. <i>Ocean Dynamics</i> , 2018, 68, 295-308.	0.9	13
231	A Model-Based Evaluation of the Inverse Gaussian Transit-Time Distribution Method for Inferring Anthropogenic Carbon Storage in the Ocean. <i>Journal of Geophysical Research: Oceans</i> , 2018, 123, 1777-1800.	1.0	13
232	Physical and Biological Drivers of Biogeochemical Tracers Within the Seasonal Sea Ice Zone of the Southern Ocean From Profiling Floats. <i>Journal of Geophysical Research: Oceans</i> , 2018, 123, 746-758.	1.0	23
233	Southern Ocean carbon-wind stress feedback. <i>Climate Dynamics</i> , 2018, 51, 2743-2757.	1.7	9
234	Recent Changes in Global Photosynthesis and Terrestrial Ecosystem Respiration Constrained From Multiple Observations. <i>Geophysical Research Letters</i> , 2018, 45, 1058-1068.	1.5	19
235	Submesoscale Rossby waves on the Antarctic circumpolar current. <i>Science Advances</i> , 2018, 4, eaao2824.	4.7	12
236	The eMLR(C*) Method to Determine Decadal Changes in the Global Ocean Storage of Anthropogenic CO ₂ . <i>Global Biogeochemical Cycles</i> , 2018, 32, 654-679.	1.9	35
237	CO ₂ fixation stability by <i>Sulfurovum lithotrophicum</i> 42BKT T depending on pH and ionic strength conditions. <i>Journal of Industrial and Engineering Chemistry</i> , 2018, 57, 72-76.	2.9	5
238	The O ₂ /N ₂ Ratio and CO ₂ Airborne Southern Ocean Study. <i>Bulletin of the American Meteorological Society</i> , 2018, 99, 381-402.	1.7	28
239	Past and future evolution of the marine carbonate system in a coastal zone of the Northern Antarctic Peninsula. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 2018, 149, 193-205.	0.6	18
240	Climate conditions, and changes, affect microalgae communities – should we worry?. <i>Integrated Environmental Assessment and Management</i> , 2018, 14, 181-184.	1.6	5
241	Tropical land carbon cycle responses to 2015/16 El Niño as recorded by atmospheric greenhouse gas and remote sensing data. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2018, 373, 20170302.	1.8	37
242	Drivers of Interannual Variability of Summer Mixed Layer Depth in the Southern Ocean Between 2002 and 2011. <i>Journal of Geophysical Research: Oceans</i> , 2018, 123, 5077-5090.	1.0	15
243	The Fate of Carbon and Nutrients Exported Out of the Southern Ocean. <i>Global Biogeochemical Cycles</i> , 2018, 32, 1556-1573.	1.9	17
244	Recent Southern Ocean warming and freshening driven by greenhouse gas emissions and ozone depletion. <i>Nature Geoscience</i> , 2018, 11, 836-841.	5.4	166
245	Argo Observations of the Deep Mixing Band in the Southern Ocean: A Salinity Modeling Challenge. <i>Journal of Geophysical Research: Oceans</i> , 2018, 123, 7599-7617.	1.0	14
246	Transport and storage of anthropogenic C in the North Atlantic Subpolar Ocean. <i>Biogeosciences</i> , 2018, 15, 4661-4682.	1.3	7

#	ARTICLE	IF	CITATIONS
247	Impact of deep ocean mixing on the climatic mean state in the Southern Ocean. <i>Scientific Reports</i> , 2018, 8, 14479.	1.6	32
248	Current CaCO ₃ dissolution at the seafloor caused by anthropogenic CO ₂ . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, 11700-11705.	3.3	83
249	Submesoscale Vertical Velocities Enhance Tracer Subduction in an Idealized Antarctic Circumpolar Current. <i>Geophysical Research Letters</i> , 2018, 45, 9790-9802.	1.5	48
250	Advances in planktonic foraminifer research: New perspectives for paleoceanography. <i>Revue De Micropaleontologie</i> , 2018, 61, 113-138.	0.8	32
251	Temperature dependency of metabolic rates in the upper ocean: A positive feedback to global climate change?. <i>Global and Planetary Change</i> , 2018, 170, 201-212.	1.6	62
252	Should phytoplankton be a key consideration for marine management?. <i>Marine Policy</i> , 2018, 97, 1-9.	1.5	39
253	Ocean acidification of a coastal Antarctic marine microbial community reveals a critical threshold for CO ₂ tolerance in phytoplankton productivity. <i>Biogeosciences</i> , 2018, 15, 209-231.	1.3	29
254	Changes to the Air-Sea Flux and Distribution of Radiocarbon in the Ocean Over the 21st Century. <i>Geophysical Research Letters</i> , 2018, 45, 5617-5626.	1.5	11
255	Coccolithophore populations and their contribution to carbonate export during an annual cycle in the Australian sector of the Antarctic zone. <i>Biogeosciences</i> , 2018, 15, 1843-1862.	1.3	15
256	The North Atlantic Biological Pump: Insights from the Ocean Observatories Initiative Irminger Sea Array. <i>Oceanography</i> , 2018, 31, 42-49.	0.5	43
257	Pelagic Iron Recycling in the Southern Ocean: Exploring the Contribution of Marine Animals. <i>Frontiers in Marine Science</i> , 2018, 5, .	1.2	29
258	Global soil organic carbon removal by water erosion under climate change and land use change during AD 1850-2005. <i>Biogeosciences</i> , 2018, 15, 4459-4480.	1.3	68
259	Seasonal development of iron limitation in the sub-Antarctic zone. <i>Biogeosciences</i> , 2018, 15, 4647-4660.	1.3	18
260	Revision of global carbon fluxes based on a reassessment of oceanic and riverine carbon transport. <i>Nature Geoscience</i> , 2018, 11, 504-509.	5.4	95
261	Ventilation of the Subtropical North Atlantic: Locations and Times of Last Ventilation Estimated Using Tracer Constraints From GEOTRACES Section GA03. <i>Journal of Geophysical Research: Oceans</i> , 2018, 123, 2332-2352.	1.0	9
262	Summer Carbonate Chemistry in the Dalton Polynya, East Antarctica. <i>Journal of Geophysical Research: Oceans</i> , 2019, 124, 5634-5653.	1.0	8
263	Model constraints on the anthropogenic carbon budget of the Arctic Ocean. <i>Biogeosciences</i> , 2019, 16, 2343-2367.	1.3	20
264	Overlooked ocean strategies to address climate change. <i>Global Environmental Change</i> , 2019, 59, 101968.	3.6	21

#	ARTICLE	IF	CITATIONS
265	The importance of Antarctic krill in biogeochemical cycles. <i>Nature Communications</i> , 2019, 10, 4742.	5.8	97
266	Phaeodaria: An Important Carrier of Particulate Organic Carbon in the Mesopelagic Twilight Zone of the North Pacific Ocean. <i>Global Biogeochemical Cycles</i> , 2019, 33, 1146-1160.	1.9	15
267	Reframing the carbon cycle of the subpolar Southern Ocean. <i>Science Advances</i> , 2019, 5, eaav6410.	4.7	25
268	Acidification diminishes diatom silica production in the Southern Ocean. <i>Nature Climate Change</i> , 2019, 9, 781-786.	8.1	68
269	Similarity Theory in the Surface Layer of Large-Eddy Simulations of the Wind-, Wave-, and Buoyancy-Forced Southern Ocean. <i>Journal of Physical Oceanography</i> , 2019, 49, 2165-2187.	0.7	19
270	Evaluation of Chlorophyll-a and POC MODIS Aqua Products in the Southern Ocean. <i>Remote Sensing</i> , 2019, 11, 1793.	1.8	16
271	Modeled Effect of Coastal Biogeochemical Processes, Climate Variability, and Ocean Acidification on Aragonite Saturation State in the Bering Sea. <i>Frontiers in Marine Science</i> , 2019, 5, .	1.2	30
272	Satellite Salinity Observing System: Recent Discoveries and the Way Forward. <i>Frontiers in Marine Science</i> , 2019, 6, .	1.2	120
273	Decadal trends in the ocean carbon sink. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 11646-11651.	3.3	94
274	Regional Wind Variability Modulates the Southern Ocean Carbon Sink. <i>Scientific Reports</i> , 2019, 9, 7384.	1.6	63
275	The Weddell Gyre, Southern Ocean: Present Knowledge and Future Challenges. <i>Reviews of Geophysics</i> , 2019, 57, 623-708.	9.0	105
276	CMIP5 model analysis of future changes in ocean net primary production focusing on differences among individual oceans and models. <i>Journal of Oceanography</i> , 2019, 75, 441-462.	0.7	9
277	Challenges and Prospects in Ocean Circulation Models. <i>Frontiers in Marine Science</i> , 2019, 6, .	1.2	133
278	Deciphering Patterns and Drivers of Heat and Carbon Storage in the Southern Ocean. <i>Geophysical Research Letters</i> , 2019, 46, 3359-3367.	1.5	16
279	The oceanic sink for anthropogenic CO ₂ from 1994 to 2007. <i>Science</i> , 2019, 363, 1193-1199.	6.0	505
280	Prominence of the tropics in the recent rise of global nitrogen pollution. <i>Nature Communications</i> , 2019, 10, 1437.	5.8	32
281	Sea Ice Meltwater and Circumpolar Deep Water Drive Contrasting Productivity in Three Antarctic Polynyas. <i>Journal of Geophysical Research: Oceans</i> , 2019, 124, 2943-2968.	1.0	31
282	Maximum entropy principle analysis in network systems with short-time recordings. <i>Physical Review E</i> , 2019, 99, 022409.	0.8	3

#	ARTICLE	IF	CITATIONS
283	Heat Distribution in the Southeast Pacific Is Only Weakly Sensitive to High-Latitude Heat Flux and Wind Stress. <i>Journal of Geophysical Research: Oceans</i> , 2019, 124, 8647-8666.	1.0	9
284	Reduced CaCO ₃ Flux to the Seafloor and Weaker Bottom Current Speeds Curtail Benthic CaCO ₃ Dissolution Over the 21st Century. <i>Global Biogeochemical Cycles</i> , 2019, 33, 1654-1673.	1.9	1
285	Summertime Atmospheric Boundary Layer Gradients of O ₂ and CO ₂ over the Southern Ocean. <i>Journal of Geophysical Research D: Atmospheres</i> , 2019, 124, 13439-13456.	1.2	2
286	The Variable Southern Ocean Carbon Sink. <i>Annual Review of Marine Science</i> , 2019, 11, 159-186.	5.1	165
287	Global reconstruction of historical ocean heat storage and transport. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 1126-1131.	3.3	180
288	Decadal-Scale Increases of Anthropogenic CO ₂ in Antarctic Bottom Water in the Indian and Western Pacific Sectors of the Southern Ocean. <i>Geophysical Research Letters</i> , 2019, 46, 833-841.	1.5	6
289	Antarctic Futures: An Assessment of Climate-Driven Changes in Ecosystem Structure, Function, and Service Provisioning in the Southern Ocean. <i>Annual Review of Marine Science</i> , 2020, 12, 87-120.	5.1	140
290	Diagnosis of CO ₂ dynamics and fluxes in global coastal oceans. <i>National Science Review</i> , 2020, 7, 786-797.	4.6	44
291	Importance of wind and meltwater for observed chemical and physical changes in the Southern Ocean. <i>Nature Geoscience</i> , 2020, 13, 35-42.	5.4	42
292	Data accuracy in Ecological Footprint's carbon footprint. <i>Ecological Indicators</i> , 2020, 111, 105983.	2.6	16
293	AWESOME OCIM: A simple, flexible, and powerful tool for modeling elemental cycling in the oceans. <i>Chemical Geology</i> , 2020, 533, 119403.	1.4	15
294	Signature of Ocean Warming at the Mixed Layer Base. <i>Geophysical Research Letters</i> , 2020, 47, e2019GL086269.	1.5	12
295	Correlation between fixation of high-concentration CO ₂ and glutamate accumulation in <i>Sulfurovum lithotrophicum</i> 42BKTT. <i>Journal of Industrial and Engineering Chemistry</i> , 2020, 92, 56-61.	2.9	1
296	Physical and Biological Controls of the Drake Passage pCO ₂ Variability. <i>Global Biogeochemical Cycles</i> , 2020, 34, e2020GB006644.	1.9	4
297	The ECCO-Darwin Data-Assimilative Global Ocean Biogeochemistry Model: Estimates of Seasonal to Multidecadal Surface Ocean <i>p</i> CO ₂ and Air-Sea CO ₂ Flux. <i>Journal of Advances in Modeling Earth Systems</i> , 2020, 12, e2019MS001888.	1.3	43
298	Heat and carbon coupling reveals ocean warming due to circulation changes. <i>Nature</i> , 2020, 584, 227-233.	13.7	71
299	Tropical Indo-Pacific Teleconnections to Southern Ocean Mixed Layer Variability. <i>Geophysical Research Letters</i> , 2020, 47, e2020GL088466.	1.5	7
300	Ocean Biogeochemistry in GFDL's Earth System Model 4.1 and Its Response to Increasing Atmospheric CO ₂ . <i>Journal of Advances in Modeling Earth Systems</i> , 2020, 12, e2019MS002043.	1.3	70

#	ARTICLE	IF	CITATIONS
301	Carbon dioxide flux in the Java Sea estimated from satellite measurements. <i>Remote Sensing Applications: Society and Environment</i> , 2020, 20, 100376.	0.8	6
302	Modeling of Atmospheric Carbon Dioxide (CO ₂) Concentrations as a Function of Fossil-Fuel and Land-Use Change CO ₂ Emissions Coupled with Oceanic and Terrestrial Sequestration. <i>Climate</i> , 2020, 8, 61.	1.2	2
303	Remote assessment of the fate of phytoplankton in the Southern Ocean sea-ice zone. <i>Nature Communications</i> , 2020, 11, 3108.	5.8	31
304	The Sensitivity of Southeast Pacific Heat Distribution to Local and Remote Changes in Ocean Properties. <i>Journal of Physical Oceanography</i> , 2020, 50, 773-790.	0.7	6
305	Twenty-first century ocean warming, acidification, deoxygenation, and upper-ocean nutrient and primary production decline from CMIP6 model projections. <i>Biogeosciences</i> , 2020, 17, 3439-3470.	1.3	348
306	Advective Controls on the North Atlantic Anthropogenic Carbon Sink. <i>Global Biogeochemical Cycles</i> , 2020, 34, e2019GB006457.	1.9	12
307	Labrador Sea Water Transport Across the Charlieâ€¢Gibbs Fracture Zone. <i>Journal of Geophysical Research: Oceans</i> , 2020, 125, e2020JC016068.	1.0	2
308	Towards an intensified summer CO ₂ sink behaviour in the Southern Ocean coastal regions. <i>Progress in Oceanography</i> , 2020, 183, 102267.	1.5	18
309	Effects of phytoplankton community composition and productivity on sea surface pCO ₂ variations in the Southern Ocean. <i>Deep-Sea Research Part I: Oceanographic Research Papers</i> , 2020, 160, 103263.	0.6	8
310	Golden carbon of Sargassum forests revealed as an opportunity for climate change mitigation. <i>Science of the Total Environment</i> , 2020, 729, 138745.	3.9	68
311	Mapping the field: a bibliometric analysis of land use and carbon emissions (LUCE) research from 1987 to 2018. <i>Library Hi Tech</i> , 2021, 39, 396-411.	3.7	8
312	Impact of climate change on the primary production and related biogeochemical cycles in the coastal and sea ice zone of the Southern Ocean. <i>Science of the Total Environment</i> , 2021, 751, 141678.	3.9	9
314	Doping regulation in transition metal compounds for electrocatalysis. <i>Chemical Society Reviews</i> , 2021, 50, 9817-9844.	18.7	245
315	Constraining Southern Ocean CO ₂ Flux Uncertainty Using Uncrewed Surface Vehicle Observations. <i>Geophysical Research Letters</i> , 2021, 48, e2020GL091748.	1.5	41
316	Transient Response of the Southern Ocean to Idealized Wind and Thermal Forcing across Different Model Resolutions. <i>Journal of Climate</i> , 2021, 34, 5477-5496.	1.2	4
318	Exploring the Roles of Iron and Irradiance in Dynamics of Diatoms and <i>Phaeocystis</i> in the Amundsen Sea Continental Shelf Water. <i>Journal of Geophysical Research: Oceans</i> , 2021, 126, e2020JC016673.	1.0	7
319	Ocean carbon uptake under aggressive emission mitigation. <i>Biogeosciences</i> , 2021, 18, 2711-2725.	1.3	19
320	Energy Flux into Near-Inertial Internal Waves Below the Surface Boundary Layer in the Global Ocean. <i>Journal of Physical Oceanography</i> , 2021, , .	0.7	2

#	ARTICLE	IF	CITATIONS
323	Evolving patterns of steric sea-level rise under mitigation scenarios and insights from linear system theory. <i>Climate Dynamics</i> , 2021, 57, 635-656.	1.7	4
324	Demons in the North Atlantic: Variability of Deep Ocean Ventilation. <i>Geophysical Research Letters</i> , 2021, 48, e2020GL092340.	1.5	7
325	Ocean carbon cycle feedbacks in CMIP6 models: contributions from different basins. <i>Biogeosciences</i> , 2021, 18, 3189-3218.	1.3	9
326	Regional Asymmetries in Ocean Heat and Carbon Storage due to Dynamic Redistribution in Climate Model Projections. <i>Journal of Climate</i> , 2021, 34, 3907-3925.	1.2	8
327	A 30-Year Time Series of Transient Tracer-Based Estimates of Anthropogenic Carbon in the Central Labrador Sea. <i>Journal of Geophysical Research: Oceans</i> , 2021, 126, e2020JC017092.	1.0	6
328	Apparent Periodic and Long-Term Changes in AAIW and UCDW Properties at Fixed Depths in the Southwest Pacific, With Indications of a Regime Shift in the 1930s. <i>Geophysical Research Letters</i> , 2021, 48, e2020GL092329.	1.5	2
329	Carbon Cycle Response to Temperature Overshoot Beyond 2°C: An Analysis of CMIP6 Models. <i>Earth's Future</i> , 2021, 9, e2020EF001967.	2.4	17
330	Evaluating the physical and biogeochemical state of the global ocean component of UKESM1 in CMIP6 historical simulations. <i>Geoscientific Model Development</i> , 2021, 14, 3437-3472.	1.3	25
331	Change of coral carbon isotopic response to anthropogenic Suess effect since around 2000s. <i>Marine Environmental Research</i> , 2021, 168, 105328.	1.1	2
332	Surface atmospheric forcing as the driver of long-term pathways and timescales of ocean ventilation. <i>Ocean Science</i> , 2021, 17, 935-952.	1.3	3
333	Individual-level characteristics of environmental sustainability among students in a higher education institution: the role of happiness and academic performance. <i>International Journal of Sustainability in Higher Education</i> , 2021, 22, 1664-1690.	1.6	6
335	Ventilation of the Southern Ocean Pycnocline. <i>Annual Review of Marine Science</i> , 2022, 14, 405-430.	5.1	21
336	Potential Role of Major Phytoplankton Communities on pCO ₂ Modulation in the Indian Sector of Southern Ocean. <i>Thalassas</i> , 2021, 37, 531-548.	0.1	2
337	Mass-transfer kinetics of CO ₂ in a hybrid choline-2-pyrrolidine-carboxylic acid/polyethylene glycol/water absorbent. <i>Journal of Molecular Liquids</i> , 2021, 336, 116383.	2.3	3
338	Missing the Reef for the Corals: Unexpected Trends Between Coral Reef Condition and the Environment at the Ecosystem Scale. <i>Frontiers in Marine Science</i> , 2021, 8, .	1.2	9
340	Diagnosing CO ₂ emission-induced feedbacks between the Southern Ocean carbon cycle and the climate system: A multiple Earth System Model analysis using a water mass tracking approach. <i>Journal of Climate</i> , 2021, , 1-62.	1.2	2
341	Impacts of global warming on marine microbial communities. <i>Science of the Total Environment</i> , 2021, 791, 147905.	3.9	47
342	Circulation timescales of Atlantic Water in the Arctic Ocean determined from anthropogenic radionuclides. <i>Ocean Science</i> , 2021, 17, 111-129.	1.3	20

#	ARTICLE	IF	CITATIONS
343	Coral Reef coral reef Ecosystems coral reef ecosystem. , 2012, , 2489-2509.		3
344	Global Forests Management for Climate Change Mitigation. , 2017, , 395-432.		2
345	Ecosystem Carbon Sequestration. , 2013, , 39-62.		4
346	Locations and Mechanisms of Ocean Ventilation in the High-Latitude North Atlantic in an Eddy-Permitting Ocean Model. <i>Journal of Climate</i> , 2020, 33, 10113-10131.	1.2	14
347	Factors influencing the retreat of the coastline. <i>International Journal of Computational Methods and Experimental Measurements</i> , 2017, 5, 741-749.	0.1	9
348	Biometry and dissolution features of the benthic foraminifer <i>Ammonia aomoriensis</i> at high pCO ₂ . <i>Marine Ecology - Progress Series</i> , 2011, 432, 53-67.	0.9	43
349	Microbial metabolic rates in the Ross Sea: the ABIOCLEAR Project. <i>Nature Conservation</i> , 0, 34, 441-475.	0.0	7
350	A dynamical state underlying the second order maximum entropy principle in neuronal networks. <i>Communications in Mathematical Sciences</i> , 2017, 15, 665-692.	0.5	6
352	Carbon uptake and biogeochemical change in the Southern Ocean, south of Tasmania. <i>Biogeosciences</i> , 2017, 14, 5217-5237.	1.3	26
367	Global Carbon Budget 2018. <i>Earth System Science Data</i> , 2018, 10, 2141-2194.	3.7	1,167
368	Global Carbon Budget 2017. <i>Earth System Science Data</i> , 2018, 10, 405-448.	3.7	801
369	Global Carbon Budget 2019. <i>Earth System Science Data</i> , 2019, 11, 1783-1838.	3.7	1,159
370	Global Carbon Budget 2020. <i>Earth System Science Data</i> , 2020, 12, 3269-3340.	3.7	1,477
371	Measurements of the stable carbon isotope composition of dissolved inorganic carbon in the northeastern Atlantic and Nordic Seas during summer 2012. <i>Earth System Science Data</i> , 2015, 7, 127-135.	3.7	12
372	Global Carbon Budget 2015. <i>Earth System Science Data</i> , 2015, 7, 349-396.	3.7	616
373	Global carbon budget 2014. <i>Earth System Science Data</i> , 2015, 7, 47-85.	3.7	463
374	Stable carbon isotopes of dissolved inorganic carbon for a zonal transect across the subpolar North Atlantic Ocean in summer 2014. <i>Earth System Science Data</i> , 2016, 8, 221-233.	3.7	6
375	Global Carbon Budget 2016. <i>Earth System Science Data</i> , 2016, 8, 605-649.	3.7	905

#	ARTICLE	IF	CITATIONS
377	Variability and stability of anthropogenic CO ₂ in Antarctic Bottom Water observed in the Indian sector of the Southern Ocean, 1978–2018. <i>Ocean Science</i> , 2020, 16, 1559-1576.	1.3	13
378	Reconstruction of Ocean Circulation Based on Neodymium Isotopic Composition: Potential Limitations and Application to the Mid-Pleistocene Transition. <i>Oceanography</i> , 2020, 33, .	0.5	5
390	Atmosphärische Spurengase. , 2017, , 397-467.		0
393	Effect of Intensity and Mode of Artificial Upwelling on Particle Flux and Carbon Export. <i>Frontiers in Marine Science</i> , 2021, 8, .	1.2	14
394	Modeling the mixed layer depth in Southern Ocean using high resolution regional coupled ocean sea ice model. <i>Modeling Earth Systems and Environment</i> , 0, , 1.	1.9	1
395	Analysis of the marine carbon sink capacity in China. , 2020, , 103-144.		1
396	Explicit silicate cycling in the Kiel Marine Biogeochemistry Model version 3 (KMBM3) embedded in the UVic ESCM version 2.9. <i>Geoscientific Model Development</i> , 2021, 14, 7255-7285.	1.3	4
397	Suppressed CO ₂ in the Southern Ocean Due to the Interaction Between Current and Wind. <i>Journal of Geophysical Research: Oceans</i> , 2021, 126, e2021JC017884.	1.0	3
398	Simulations With the Marine Biogeochemistry Library (MARBL). <i>Journal of Advances in Modeling Earth Systems</i> , 2021, 13, e2021MS002647.	1.3	37
399	Multi-Century Changes in the Ocean Carbon Cycle Controlled by the Tropical Oceans and the Southern Ocean. <i>Global Biogeochemical Cycles</i> , 2021, 35, e2021GB007090.	1.9	5
400	Strong Southern Ocean carbon uptake evident in airborne observations. <i>Science</i> , 2021, 374, 1275-1280.	6.0	44
401	Decadal vision in oceanography 2021: Polar oceans. <i>Oceanography in Japan</i> , 2021, 30, 159-178.	0.5	4
402	Evaluation of Existing Indexes of Sustainable Well-Being and Propositions for Improvement. <i>Sustainability</i> , 2022, 14, 1027.	1.6	11
403	Ocean acidification alters the nutritional value of Antarctic diatoms. <i>New Phytologist</i> , 2022, 233, 1813-1827.	3.5	13
404	Stratification constrains future heat and carbon uptake in the Southern Ocean between 30°S and 55°S. <i>Nature Communications</i> , 2022, 13, 340.	5.8	35
405	Ecosystem services provided by marine and freshwater phytoplankton. <i>Hydrobiologia</i> , 2023, 850, 2691-2706.	1.0	35
406	Sedimentary Anthropogenic Carbon Signals From the Western Pacific Margin for the Last Century. <i>Frontiers in Earth Science</i> , 2022, 9, .	0.8	1
409	Responses of a Natural Phytoplankton Community From the Drake Passage to Two Predicted Climate Change Scenarios. <i>Frontiers in Marine Science</i> , 2022, 9, .	1.2	3

#	ARTICLE	IF	CITATIONS
410	Evaluating the Arabian Sea as a regional source of atmospheric CO ₂ ; seasonal variability and drivers. <i>Biogeosciences</i> , 2022, 19, 907-929.	1.3	7
411	The impact of mobile demersal fishing on carbon storage in seabed sediments. <i>Global Change Biology</i> , 2022, 28, 2875-2894.	4.2	35
412	Dynamically downscaled projections of ocean acidification for the Bering Sea. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 2022, 198, 105055.	0.6	8
413	Attribution of Space-Time Variability in Global Ocean Dissolved Inorganic Carbon. <i>Global Biogeochemical Cycles</i> , 2022, 36, .	1.9	14
414	Diatoms and Their Microbiomes in Complex and Changing Polar Oceans. <i>Frontiers in Microbiology</i> , 2022, 13, 786764.	1.5	7
415	Transit Time Distributions and ventilation pathways using CFCs and Lagrangian backtracking in the South Atlantic of an eddying ocean model. <i>Journal of Physical Oceanography</i> , 2022, , .	0.7	0
416	Atmospheric CO ₂ and Sea Surface Temperature Variability Cannot Explain Recent Decadal Variability of the Ocean CO ₂ Sink. <i>Geophysical Research Letters</i> , 2022, 49, .	1.5	19
417	How Well Do We Understand the Land-Ocean-Atmosphere Carbon Cycle?. <i>Reviews of Geophysics</i> , 2022, 60, .	9.0	38
418	Rising Atmospheric Carbon Dioxide Could Doom Ocean Corals and Shellfish: Simple Thermodynamic Calculations Show Why. <i>Journal of Chemical Education</i> , 0, , .	1.1	2
420	Mesoscale Eddies Regulate Seasonal Iron Supply and Carbon Drawdown in the Drake Passage. <i>Geophysical Research Letters</i> , 2021, 48, .	1.5	4
421	Commercial fishery disturbance of the global ocean biological carbon sink. <i>Global Change Biology</i> , 2022, 28, 1212-1221.	4.2	21
424	The marine carbonate system along the northern Antarctic Peninsula: current knowledge and future perspectives. <i>Anais Da Academia Brasileira De Ciencias</i> , 2022, 94, e20210825.	0.3	3
425	Research on the Blue Carbon Trading Market System under Blockchain Technology. <i>Energies</i> , 2022, 15, 3134.	1.6	13
426	Global Carbon Budget 2021. <i>Earth System Science Data</i> , 2022, 14, 1917-2005.	3.7	663
427	Inter-annual variability of biogeography-based phytoplankton seasonality in the Arabian Sea during 1998-2017. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 2022, 200, 105096.	0.6	2
428	A derivative-free optimisation method for global ocean biogeochemical models. <i>Geoscientific Model Development</i> , 2022, 15, 3537-3554.	1.3	5
429	Development of the Regional Carbon Cycle Model in the Central Pacific Sector of the Southern Ocean. <i>Journal of Advances in Modeling Earth Systems</i> , 2022, 14, .	1.3	0
430	How Is the Ocean Anthropogenic Carbon Reservoir Filled?. <i>Global Biogeochemical Cycles</i> , 2022, 36, .	1.9	9

#	ARTICLE	IF	CITATIONS
431	Importance of Mesoscale Currents in Amoc Pathways and Timescales. <i>Journal of Physical Oceanography</i> , 2022, , .	0.7	1
432	The redistribution of anthropogenic excess heat is a key driver of warming in the North Atlantic. <i>Communications Earth & Environment</i> , 2022, 3, .	2.6	10
433	Ocean systems. , 2022, , 427-452.		1
434	Variations and Environmental Controls of Primary Productivity in the Amundsen Sea. <i>Frontiers in Marine Science</i> , 2022, 9, .	1.2	1
435	Summer trends and drivers of sea surface fCO ₂ and pH changes observed in the southern Indian Ocean over the last two decades (1998–2019). <i>Biogeosciences</i> , 2022, 19, 2599-2625.	1.3	7
436	Tracer and observationally derived constraints on diapycnal diffusivities in an ocean state estimate. <i>Ocean Science</i> , 2022, 18, 729-759.	1.3	3
437	On anomalously high sub-surface dissolved oxygen in the Indian sector of the Southern Ocean. <i>Journal of Oceanography</i> , 0, , .	0.7	0
438	Phytoplankton and ice-algal communities in the seasonal ice zone during January (Southern Ocean.) <i>Tj ETQq1 1 0.784314 rgBT /Overloc</i>	0.7	4
439	Indo-Pacific Sector Dominates Southern Ocean Carbon Outgassing. <i>Global Biogeochemical Cycles</i> , 2022, 36, .	1.9	14
440	Topographic Hotspots of Southern Ocean Eddy Upwelling. <i>Frontiers in Marine Science</i> , 0, 9, .	1.2	5
441	Controls on nitrite oxidation in the upper Southern Ocean: insights from winter kinetics experiments in the Indian sector. <i>Biogeosciences</i> , 2022, 19, 3425-3444.	1.3	5
442	The Ocean Carbon Cycle. <i>Annual Review of Environment and Resources</i> , 2022, 47, 317-341.	5.6	36
444	The role of the Dotson Ice Shelf and Circumpolar Deep Water as driver and source of dissolved and particulate iron and manganese in the Amundsen Sea polynya, Southern Ocean. <i>Marine Chemistry</i> , 2022, 246, 104161.	0.9	9
445	Identifying priority areas to manage mobile bottom fishing on seabed carbon in the UK. , 2022, 1, e0000059.		3
446	A review of the scientific knowledge of the seascape off Dronning Maud Land, Antarctica. <i>Polar Biology</i> , 2022, 45, 1313-1349.	0.5	2
447	Global impacts of projected climate changes on the extent and aboveground biomass of mangrove forests. <i>Diversity and Distributions</i> , 2022, 28, 2349-2360.	1.9	9
448	Sustainable Approaches to Realize Carbon Neutrality in China: A Case Study of Zhejiang Province. <i>Journal of Marine Science and Engineering</i> , 2022, 10, 1351.	1.2	0
449	Source-Labelled Anthropogenic Carbon Reveals a Large Shift of Preindustrial Carbon From the Ocean to the Atmosphere. <i>Global Biogeochemical Cycles</i> , 2022, 36, .	1.9	5

#	ARTICLE	IF	CITATIONS
450	Estimating Ocean Heat Uptake Using Boundary Green's Functions: A Perfect Model Test of the Method. <i>Journal of Advances in Modeling Earth Systems</i> , 2022, 14, .	1.3	2
451	Anthropogenic Carbon Transport Variability in the Atlantic Ocean Over Three Decades. <i>Global Biogeochemical Cycles</i> , 2022, 36, .	1.9	2
452	Evolution of blue carbon management policies in China: review, performance and prospects. <i>Climate Policy</i> , 2023, 23, 254-267.	2.6	4
453	Global Carbon Budget 2022. <i>Earth System Science Data</i> , 2022, 14, 4811-4900.	3.7	492
454	A regional-scale approach for modeling primary production and biogenic silica export in the Southern Ocean. <i>Environmental Research</i> , 2022, , 114811.	3.7	0
455	Contribution of silica-scaled chrysophytes to ecosystems services: a review. <i>Hydrobiologia</i> , 2023, 850, 2735-2756.	1.0	5
456	Optimizing 4 years of CO ₂ biospheric fluxes from OCO-2 and in situ data in TM5: fire emissions from GFED and inferred from MOPITT CO data. <i>Atmospheric Chemistry and Physics</i> , 2022, 22, 15817-15849.	1.9	0
457	Diversity and Carbon Sequestration of Seaweed in the Ma'an Archipelago, China. <i>Diversity</i> , 2023, 15, 12.	0.7	1
458	Filling the Gap between Heteroatom Doping and Edge Enrichment of 2D Electrocatalysts for Enhanced Hydrogen Evolution. <i>ACS Nano</i> , 2023, 17, 1287-1297.	7.3	9
459	Direct Air Capture of CO ₂ through Carbonate Alkalinity Generated by Phytoplankton Nitrate Assimilation. <i>International Journal of Environmental Research and Public Health</i> , 2023, 20, 550.	1.2	0
460	Biological carbon pump in the Black Sea. <i>Hydrosphere Ecology (Ð¸Ð³/4Ð»Ð³Ð¸ÑÐ³Ð¸ÑÐ¸Ñ, Ð¸ÑÑ)</i> , 2022, , 69-82.		
461	New insight into <i>Salpa thompsoni</i> distribution via glider-borne acoustics. <i>Frontiers in Marine Science</i> , 2023, 9, .	1.2	2
462	Fast Spin-Up of Geochemical Tracers in Ocean Circulation and Climate Models. <i>Journal of Advances in Modeling Earth Systems</i> , 2023, 15, .	1.3	0
463	Trends and variability in the ocean carbon sink. <i>Nature Reviews Earth & Environment</i> , 2023, 4, 119-134.	12.2	37
464	Carbon capture utilization and storage in review: Sociotechnical implications for a carbon reliant world. <i>Renewable and Sustainable Energy Reviews</i> , 2023, 177, 113215.	8.2	42
465	Low frequency changes in CO ₂ concentration in East Asia related to Pacific decadal oscillation and Atlantic multi-decadal oscillation for mid-summer and early fall. <i>Science of the Total Environment</i> , 2023, 876, 162377.	3.9	2
466	Rice husk as a potential source of silicate to oceanic phytoplankton. <i>Science of the Total Environment</i> , 2023, 879, 162941.	3.9	3
467	Phytoplankton communities in a coastal and offshore stations of the northern Adriatic Sea approached by network analysis and different statistical descriptors. <i>Estuarine, Coastal and Shelf Science</i> , 2023, 282, 108224.	0.9	4

#	ARTICLE	IF	CITATIONS
468	Evaluating Northern Hemisphere Growing Season Net Carbon Flux in Climate Models Using Aircraft Observations. <i>Global Biogeochemical Cycles</i> , 2023, 37, .	1.9	2
469	Anomalous DOC signatures reveal iron control on export dynamics in the Pacific Southern Ocean. <i>Frontiers in Marine Science</i> , 0, 10, .	1.2	0
470	Annually Resolved Propagation of CFCs and SF ₆ in the Global Ocean Over Eight Decades. <i>Journal of Geophysical Research: Oceans</i> , 2023, 128, .	1.0	1
472	Dissolved gases in the deep North Atlantic track ocean ventilation processes. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2023, 120, .	3.3	2
473	Wind-driven upwelling of iron sustains dense blooms and food webs in the eastern Weddell Gyre. <i>Nature Communications</i> , 2023, 14, .	5.8	4
487	THE IMPACT OF RIVER SEDIMENTATION ON THE VARIABILITY OF THE SEA FLOOR TOPOGRAPHY IS ONE OF THE FACTORS WITH A SIGNIFICANT IMPACT ON THE DYNAMICS OF THE COASTLINE. , 2023, , .		0
496	Assessing carbon cycle projections from complex and simple models under SSP scenarios. <i>Climatic Change</i> , 2023, 176, .	1.7	1