

Corinne Le QuÃ©rÃ©

List of Publications by Year in descending order

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155
papers

36,098
citations

8755

77
h-index

8878

150
g-index

193
all docs

193
docs citations

193
times ranked

37817
citing authors

#	ARTICLE	IF	CITATIONS
1	An efficient and accurate representation of complex oceanic and biospheric models of anthropogenic carbon uptake. Tellus, Series B: Chemical and Physical Meteorology, 2022, 48, 397.	0.8	64
2	Two decades of ocean CO ₂ sink and variability. Tellus, Series B: Chemical and Physical Meteorology, 2022, 55, 649.	0.8	20
3	Climate change and biospheric output. Science, 2022, 375, 1091-1092.	6.0	2
4	Global fossil carbon emissions rebound near pre-COVID-19 levels. Environmental Research Letters, 2022, 17, 031001.	2.2	42
5	Global and Regional Trends and Drivers of Fire Under Climate Change. Reviews of Geophysics, 2022, 60, .	9.0	182
6	Novel quantification of regional fossil fuel CO ₂ reductions during COVID-19 lockdowns using atmospheric oxygen measurements. Science Advances, 2022, 8, eabl9250.	4.7	12
7	Global Carbon Budget 2021. Earth System Science Data, 2022, 14, 1917-2005.	3.7	663
8	Data-based estimates of interannual sea-air CO ₂ flux variations 1957-2020 and their relation to environmental drivers. Biogeosciences, 2022, 19, 2627-2652.	1.3	21
9	Global patterns of daily CO ₂ emissions reductions in the first year of COVID-19. Nature Geoscience, 2022, 15, 615-620.	5.4	46
10	Decarbonising the critical sectors of aviation, shipping, road freight and industry to limit warming to 1.5-2°C. Climate Policy, 2021, 21, 455-474.	2.6	72
11	Gridded fossil CO ₂ emissions and related O ₂ combustion consistent with national inventories 1959-2018. Scientific Data, 2021, 8, 2.	2.4	56
12	Role of jellyfish in the plankton ecosystem revealed using a global ocean biogeochemical model. Biogeosciences, 2021, 18, 1291-1320.	1.3	41
13	Fossil CO ₂ emissions in the post-COVID-19 era. Nature Climate Change, 2021, 11, 197-199.	8.1	171
14	The CO ₂ Human Emissions (CHE) Project: First Steps Towards a European Operational Capacity to Monitor Anthropogenic CO ₂ Emissions. Frontiers in Remote Sensing, 2021, 2, .	1.3	13
15	Carbon dioxide emissions continue to grow amidst slowly emerging climate policies. Nature Climate Change, 2020, 10, 3-6.	8.1	324
16	Use of aviation by climate change researchers: Structural influences, personal attitudes, and information provision. Global Environmental Change, 2020, 65, 102184.	3.6	60
17	Current and future global climate impacts resulting from COVID-19. Nature Climate Change, 2020, 10, 913-919.	8.1	400
18	Consistency and Challenges in the Ocean Carbon Sink Estimate for the Global Carbon Budget. Frontiers in Marine Science, 2020, 7, .	1.2	114

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19	Temporary reduction in daily global CO2 emissions during the COVID-19 forced confinement. <i>Nature Climate Change</i> , 2020, 10, 647-653.	8.1	1,408
20	Global Carbon Budget 2020. <i>Earth System Science Data</i> , 2020, 12, 3269-3340.	3.7	1,477
21	Drivers of declining CO2 emissions in 18 developed economies. <i>Nature Climate Change</i> , 2019, 9, 213-217.	8.1	307
22	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
23	Five decades of northern land carbon uptake revealed by the interhemispheric CO2 gradient. <i>Nature</i> , 2019, 568, 221-225.	13.7	124
24	Large Contribution of Pteropods to Shallow CaCO ₃ Export. <i>Global Biogeochemical Cycles</i> , 2019, 33, 458-468.	1.9	66
25	Persistent fossil fuel growth threatens the Paris Agreement and planetary health. <i>Environmental Research Letters</i> , 2019, 14, 121001.	2.2	133
26	Global Carbon Budget 2019. <i>Earth System Science Data</i> , 2019, 11, 1783-1838.	3.7	1,159
27	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
28	The myriad challenges of the Paris Agreement. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2018, 376, 20180066.	1.6	18
29	Implications for workability and survivability in populations exposed to extreme heat under climate change: a modelling study. <i>Lancet Planetary Health</i> , The, 2018, 2, e540-e547.	5.1	68
30	Constraints on global oceanic emissions of N ₂ and O ₂ from observations and models. <i>Biogeosciences</i> , 2018, 15, 2161-2175.	1.3	38
31	Emissions are still rising: ramp up the cuts. <i>Nature</i> , 2018, 564, 27-30.	13.7	136
32	Global energy growth is outpacing decarbonization. <i>Environmental Research Letters</i> , 2018, 13, 120401.	2.2	188
33	Lower land-use emissions responsible for increased net land carbon sink during the slow warming period. <i>Nature Geoscience</i> , 2018, 11, 739-743.	5.4	110
34	Global Carbon Budget 2018. <i>Earth System Science Data</i> , 2018, 10, 2141-2194.	3.7	1,167
35	Global Carbon Budget 2017. <i>Earth System Science Data</i> , 2018, 10, 405-448.	3.7	801
36	Key indicators to track current progress and future ambition of the Paris Agreement. <i>Nature Climate Change</i> , 2017, 7, 118-122.	8.1	298

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37	Climate research must sharpen its view. <i>Nature Climate Change</i> , 2017, 7, 89-91.	8.1	80
38	Biogeochemical modelling of dissolved oxygen in a changing ocean. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2017, 375, 20160328.	1.6	20
39	Towards real-time verification of CO ₂ emissions. <i>Nature Climate Change</i> , 2017, 7, 848-850.	8.1	168
40	Warning signs for stabilizing global CO ₂ emissions. <i>Environmental Research Letters</i> , 2017, 12, 110202.	2.2	158
41	In situ measurements of atmospheric O ₂ and CO ₂ reveal an unexpected O ₂ signal over the tropical Atlantic Ocean. <i>Global Biogeochemical Cycles</i> , 2017, 31, 1289-1305.	1.9	12
42	The Challenge of Urban Heat Exposure under Climate Change: An Analysis of Cities in the Sustainable Healthy Urban Environments (SHUE) Database. <i>Climate</i> , 2017, 5, 93.	1.2	12
43	chapter 2 A Statistical Gap-Filling Method to Interpolate Global Monthly Surface Ocean Carbon Dioxide Data. , 2017, , 15-62.		0
44	Role of zooplankton dynamics for Southern Ocean phytoplankton biomass and global biogeochemical cycles. <i>Biogeosciences</i> , 2016, 13, 4111-4133.	1.3	84
45	The Physiological Response of Picophytoplankton to Temperature and Its Model Representation. <i>Frontiers in Marine Science</i> , 2016, 3, .	1.2	29
46	Urban infrastructure choices structure climate solutions. <i>Nature Climate Change</i> , 2016, 6, 1054-1056.	8.1	144
47	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
48	The implications of COP21 for our future climate. <i>Public Health Reviews</i> , 2016, 37, 29.	1.3	2
49	Reaching peak emissions. <i>Nature Climate Change</i> , 2016, 6, 7-10.	8.1	194
50	Global Carbon Budget 2016. <i>Earth System Science Data</i> , 2016, 8, 605-649.	3.7	905
51	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
52	A statistical gap-filling method to interpolate global monthly surface ocean carbon dioxide data. <i>Journal of Advances in Modeling Earth Systems</i> , 2015, 7, 1554-1575.	1.3	31
53	Drivers and uncertainties of future global marine primary production in marine ecosystem models. <i>Biogeosciences</i> , 2015, 12, 6955-6984.	1.3	252
54	The ocean carbon sink – impacts, vulnerabilities and challenges. <i>Earth System Dynamics</i> , 2015, 6, 327-358.	2.7	109

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55	Recent trends and drivers of regional sources and sinks of carbon dioxide. <i>Biogeosciences</i> , 2015, 12, 653-679.	1.3	587
56	Ecological niches of open ocean phytoplankton taxa. <i>Limnology and Oceanography</i> , 2015, 60, 1020-1038.	1.6	104
57	Global Carbon Budget 2015. <i>Earth System Science Data</i> , 2015, 7, 349-396.	3.7	616
58	Global carbon budget 2014. <i>Earth System Science Data</i> , 2015, 7, 47-85.	3.7	463
59	The declining uptake rate of atmospheric CO ₂ by land and ocean sinks. <i>Biogeosciences</i> , 2014, 11, 3453-3475.	1.3	62
60	iMarNet: an ocean biogeochemistry model intercomparison project within a common physical ocean modelling framework. <i>Biogeosciences</i> , 2014, 11, 7291-7304.	1.3	65
61	Radical emission reductions: the role of demand reductions in accelerating full decarbonization. <i>Carbon Management</i> , 2014, 5, 321-323.	1.2	15
62	Betting on negative emissions. <i>Nature Climate Change</i> , 2014, 4, 850-853.	8.1	846
63	Global carbon budget 2013. <i>Earth System Science Data</i> , 2014, 6, 235-263.	3.7	311
64	Persistent growth of CO ₂ emissions and implications for reaching climate targets. <i>Nature Geoscience</i> , 2014, 7, 709-715.	5.4	615
65	Sharing a quota on cumulative carbon emissions. <i>Nature Climate Change</i> , 2014, 4, 873-879.	8.1	295
66	Combined constraints on global ocean primary production using observations and models. <i>Global Biogeochemical Cycles</i> , 2013, 27, 847-858.	1.9	118
67	Anthropogenic CO ₂ emissions. <i>Nature Climate Change</i> , 2013, 3, 603-604.	8.1	18
68	Southern Hemisphere westerly wind changes during the Last Glacial Maximum: paleo-data synthesis. <i>Quaternary Science Reviews</i> , 2013, 68, 76-95.	1.4	238
69	Comparing food web structures and dynamics across a suite of global marine ecosystem models. <i>Ecological Modelling</i> , 2013, 261-262, 43-57.	1.2	71
70	Three decades of global methane sources and sinks. <i>Nature Geoscience</i> , 2013, 6, 813-823.	5.4	1,649
71	The challenge to keep global warming below 2 Â°C. <i>Nature Climate Change</i> , 2013, 3, 4-6.	8.1	809
72	Rapid climatic driven shifts of diatoms at high latitudes. <i>Remote Sensing of Environment</i> , 2013, 132, 195-201.	4.6	45

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73	Southern Hemisphere westerly wind changes during the Last Glacial Maximum: model-data comparison. <i>Quaternary Science Reviews</i> , 2013, 64, 104-120.	1.4	121
74	Going beyond two degrees? The risks and opportunities of alternative options. <i>Climate Policy</i> , 2013, 13, 751-769.	2.6	107
75	The global carbon budget 1959–2011. <i>Earth System Science Data</i> , 2013, 5, 165-185.	3.7	527
76	MAREDAT: towards a world atlas of MARine Ecosystem DATA. <i>Earth System Science Data</i> , 2013, 5, 227-239.	3.7	145
77	Distribution of known macrozooplankton abundance and biomass in the global ocean. <i>Earth System Science Data</i> , 2013, 5, 241-257.	3.7	36
78	Interview: Interview with Professor Corinne Le Quére. <i>Carbon Management</i> , 2013, 4, 243-248.	1.2	0
79	Consumption-based GHG emission accounting: a UK case study. <i>Climate Policy</i> , 2013, 13, 451-470.	2.6	268
80	Climate sensitivity in the Anthropocene. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2013, 139, 1121-1131.	1.0	24
81	Global ocean carbon uptake: magnitude, variability and trends. <i>Biogeosciences</i> , 2013, 10, 1983-2000.	1.3	276
82	Detecting an external influence on recent changes in oceanic oxygen using an optimal fingerprinting method. <i>Biogeosciences</i> , 2013, 10, 1799-1813.	1.3	36
83	Phytoplankton competition during the spring bloom in four plankton functional type models. <i>Biogeosciences</i> , 2013, 10, 6833-6850.	1.3	68
84	Carbon emissions from land use and land-cover change. <i>Biogeosciences</i> , 2012, 9, 5125-5142.	1.3	839
85	Phytoplankton phenology in the global ocean. <i>Ecological Indicators</i> , 2012, 14, 152-163.	2.6	192
86	Autocorrelation characteristics of surface ocean CO_2 and air-sea CO_2 fluxes. <i>Global Biogeochemical Cycles</i> , 2012, 26, .	1.9	32
87	Quantifying the impact of anthropogenic nitrogen deposition on oceanic nitrous oxide. <i>Geophysical Research Letters</i> , 2012, 39, .	1.5	57
88	Rapid growth in CO_2 emissions after the 2008–2009 global financial crisis. <i>Nature Climate Change</i> , 2012, 2, 2-4.	8.1	697
89	An International Effort to Quantify Regional Carbon Fluxes. <i>Eos</i> , 2011, 92, 81-82.	0.1	93
90	Economic value of improved quantification in global sources and sinks of carbon dioxide. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2011, 369, 1967-1979.	1.6	23

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91	Stability of complex food webs: Resilience, resistance and the average interaction strength. <i>Journal of Theoretical Biology</i> , 2011, 272, 160-173.	0.8	41
92	Marine ecosystem models for earth systems applications: The MarQUEST experience. <i>Journal of Marine Systems</i> , 2010, 81, 19-33.	0.9	37
93	Comparison of the emergent behavior of a complex ecosystem model in two ocean general circulation models. <i>Progress in Oceanography</i> , 2010, 84, 204-224.	1.5	50
94	Trends in the land and ocean carbon uptake. <i>Current Opinion in Environmental Sustainability</i> , 2010, 2, 219-224.	3.1	33
95	An International Carbon Office to assist policy-based science. <i>Current Opinion in Environmental Sustainability</i> , 2010, 2, 297-300.	3.1	11
96	Interactions of the carbon cycle, human activity, and the climate system: a research portfolio. <i>Current Opinion in Environmental Sustainability</i> , 2010, 2, 301-311.	3.1	62
97	Update on CO ₂ emissions. <i>Nature Geoscience</i> , 2010, 3, 811-812.	5.4	561
98	Filling the gap in scientific institutions to support global carbon management. <i>Carbon Management</i> , 2010, 1, 5-7.	1.2	0
99	Simulating dimethylsulphide seasonality with the Dynamic Green Ocean Model PlankTOM5. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	53
100	Sensitivity of global ocean biogeochemical dynamics to ecosystem structure in a future climate. <i>Geophysical Research Letters</i> , 2010, 37, .	1.5	26
101	Impact of climate change and variability on the global oceanic sink of CO ₂ . <i>Global Biogeochemical Cycles</i> , 2010, 24, .	1.9	173
102	Biogeochemical fluxes through microzooplankton. <i>Global Biogeochemical Cycles</i> , 2010, 24, .	1.9	116
103	Journal club. <i>Nature</i> , 2009, 461, 1031-1031.	13.7	0
104	Trends in the sources and sinks of carbon dioxide. <i>Nature Geoscience</i> , 2009, 2, 831-836.	5.4	1,746
105	Surface-ocean CO ₂ variability and vulnerability. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 2009, 56, 504-511.	0.6	62
106	Dedication to Dr. Taro Takahashi. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 2009, 56, 503.	0.6	0
107	Glacial-interglacial variability in atmospheric CO ₂ . <i>Geophysical Monograph Series</i> , 2009, , 251-286.	0.1	77
108	Introduction to surface ocean-lower atmosphere processes. <i>Geophysical Monograph Series</i> , 2009, , 1-5.	0.1	3

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109	Marine pelagic ecosystems. Geophysical Monograph Series, 2009, , 119-137.	0.1	5
110	Ocean carbon cycle. Geophysical Monograph Series, 2009, , 181-195.	0.1	7
111	Biogeochemical modeling. Geophysical Monograph Series, 2009, , 319-328.	0.1	0
112	Plankton Functional Types in a New Generation of Biogeochemical Models: Integration of Plankton Abundance Data for the Evaluation of Marine Biogeochemical Models; Cambridge, United Kingdom, 1-3 October 2008. Eos, 2009, 90, 30-31.	0.1	12
113	Chapter 1 Impacts of the Oceans on Climate Change. Advances in Marine Biology, 2009, 56, 1-150.	0.7	110
114	Global dust cycle. Geophysical Monograph Series, 2009, , 37-55.	0.1	5
115	Interannual variability in oceanic biogeochemical processes inferred by inversion of atmospheric O ₂ /N ₂ and CO ₂ data. Tellus, Series B: Chemical and Physical Meteorology, 2008, 60, 685-705.	0.8	42
116	Preferential uptake of NH_4^+ over NO_3^- by phytoplankton in the North Atlantic. Ecological Modelling, 2008, 218, 393-397.	1.2	11
117	Importance of coastal nutrient supply for global ocean biogeochemistry. Global Biogeochemical Cycles, 2008, 22, .	1.9	36
118	Variability in atmospheric O ₂ and CO ₂ concentrations in the southern Pacific Ocean and their comparison with model estimates. Journal of Geophysical Research, 2008, 113, .	3.3	2
119	Ocean biogeochemical response to phytoplankton light feedback in a global model. Journal of Geophysical Research, 2008, 113, .	3.3	33
120	The Impacts of the Oceans on Climate Change. , 2008, , .		1
121	Growth rates of six coccolithophorid strains as a function of temperature. Limnology and Oceanography, 2008, 53, 1181-1185.	1.6	84
122	Anthropogenic and biophysical contributions to increasing atmospheric CO ₂ growth rate and airborne fraction. Biogeosciences, 2008, 5, 1601-1613.	1.3	107
123	Global and regional drivers of accelerating CO ₂ emissions. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 10288-10293.	3.3	1,426
124	Saturation of the Southern Ocean CO ₂ Sink Due to Recent Climate Change. Science, 2007, 316, 1735-1738.	6.0	779
125	Contributions to accelerating atmospheric CO ₂ growth from economic activity, carbon intensity, and efficiency of natural sinks. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 18866-18870.	3.3	1,770
126	Potential impact of changes in river nutrient supply on global ocean biogeochemistry. Global Biogeochemical Cycles, 2007, 21, .	1.9	64

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127	Surface ocean CO2 variability and vulnerability workshop, Paris, France, 11â€”14 April 2007. <i>Eos</i> , 2007, 88, 287-287.	0.1	5
128	Model uncertainty in the ecosystem approach to fisheries. <i>Fish and Fisheries</i> , 2007, 8, 315-336.	2.7	98
129	Biogeochemical fluxes through mesozooplankton. <i>Global Biogeochemical Cycles</i> , 2006, 20, n/a-n/a.	1.9	155
130	North Pacific carbon cycle response to climate variability on seasonal to decadal timescales. <i>Journal of Geophysical Research</i> , 2006, 111, .	3.3	81
131	Modeling interactions between marine ecosystems and climate. <i>Eos</i> , 2006, 87, 452.	0.1	3
132	The unknown and the uncertain in Earth system modeling. <i>Eos</i> , 2006, 87, 496.	0.1	6
133	A comparison of global estimates of marine primary production from ocean color. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 2006, 53, 741-770.	0.6	574
134	Reply to Horizons Article â€”Plankton functional type modelling: running before we can walkâ€” Anderson (2005): I. Abrupt changes in marine ecosystems?. <i>Journal of Plankton Research</i> , 2006, 28, 871-872.	0.8	36
135	Ecosystem dynamics based on plankton functional types for global ocean biogeochemistry models. <i>Global Change Biology</i> , 2005, 11, 051013014052005-???	4.2	353
136	Multiple constraints on regional CO2flux variations over land and oceans. <i>Global Biogeochemical Cycles</i> , 2005, 19, .	1.9	154
137	Bio-optical feedbacks among phytoplankton, upper ocean physics and sea-ice in a global model. <i>Geophysical Research Letters</i> , 2005, 32, .	1.5	162
138	Role of Marine Biology in Glacial-Interglacial CO2 Cycles. <i>Science</i> , 2005, 308, 74-78.	6.0	358
139	Biosphere dynamics: Challenges for Earth system models. <i>Geophysical Monograph Series</i> , 2004, , 269-278.	0.1	5
140	Two decades of ocean CO2 sink and variability. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , 2003, 55, 649-656.	0.8	92
141	Propagation of climatic events on ocean stratification, marine biology, and CO2: Case studies over the 1979â€”1999 period. <i>Journal of Geophysical Research</i> , 2003, 108, .	3.3	45
142	Dust impact on marine biota and atmospheric CO2 during glacial periods. <i>Paleoceanography</i> , 2003, 18, n/a-n/a.	3.0	263
143	Climate-induced oceanic oxygen fluxes: Implications for the contemporary carbon budget. <i>Global Biogeochemical Cycles</i> , 2002, 16, 6-1-6-13.	1.9	247
144	Antarctic circumpolar wave impact on marine biology: A natural laboratory for climate change study. <i>Geophysical Research Letters</i> , 2002, 29, 45-1-45-4.	1.5	25

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145	Seasonal and interannual variability of CO ₂ in the equatorial Pacific. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 2002, 49, 2443-2469.	0.6	176
146	Maximum impacts of future reforestation or deforestation on atmospheric CO ₂ . <i>Global Change Biology</i> , 2002, 8, 1047-1052.	4.2	191
147	Estimates of anthropogenic carbon uptake from four three-dimensional global ocean models. <i>Global Biogeochemical Cycles</i> , 2001, 15, 43-60.	1.9	274
148	Regional Changes in Carbon Dioxide Fluxes of Land and Oceans Since 1980. <i>Science</i> , 2000, 290, 1342-1346.	6.0	680
149	Interannual variability of the oceanic sink of CO ₂ from 1979 through 1997. <i>Global Biogeochemical Cycles</i> , 2000, 14, 1247-1265.	1.9	156
150	Interannual variability of equatorial Pacific CO ₂ fluxes estimated from temperature and salinity data. <i>Geophysical Research Letters</i> , 2000, 27, 1735-1738.	1.5	24
151	Spatial distribution of air-sea CO ₂ fluxes and the interhemispheric transport of carbon by the oceans. <i>Global Biogeochemical Cycles</i> , 1999, 13, 287-305.	1.9	99
152	Oceanic Carbon Dioxide Uptake in a Model of Century-Scale Global Warming. <i>Science</i> , 1996, 274, 1346-1350.	6.0	317
153	An efficient and accurate representation of complex oceanic and biospheric models of anthropogenic carbon uptake. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , 1996, 48, 397-417.	0.8	240
154	Limiting future atmospheric carbon dioxide. <i>Global Biogeochemical Cycles</i> , 1995, 9, 121-137.	1.9	70
155	Air-sea CO ₂ transfer and the carbon budget of the North Atlantic. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 1995, 348, 211-219.	1.8	88