Fortunat Joos

List of Publications by Year
in descending order

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214 papers	33,687 citations	5876 81 h-index	4323 173 g-index
312 all docs	312 docs citations	312 times ranked	28162 citing authors

#	Article	IF	Citations
1	Use of a simple model for studying oceanic tracer distributions and the global carbon cycle. Tellus, Series B: Chemical and Physical Meteorology, 2022, 44, 186.	0.8	98
2	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
3	A latitude-depth, circulation-biogeochemical ocean model for paleoclimate studies. Development and sensitivities. Tellus, Series B: Chemical and Physical Meteorology, 2022, 50, 290.	0.8	37
4	A first-order analysis of the potential rôle of CO₂ fertilization to affect the global carbon budget: a comparison of four terrestrial biosphere models. Tellus, Series B: Chemical and Physical Meteorology, 2022, 51, 343.	0.8	49
5	Feedback mechanisms and sensitivities of ocean carbon uptake under global warming. Tellus, Series B: Chemical and Physical Meteorology, 2022, 53, 564.	0.8	15
6	Simulating effects of land use changes on carbon fluxes: past contributions to atmospheric CO₂ increases and future commitments due to losses of terrestrial sink capacity. Tellus, Series B: Chemical and Physical Meteorology, 2022, 60, 583.	0.8	147
7	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
8	Past and future carbon fluxes from land use change, shifting cultivation and wood harvest. Tellus, Series B: Chemical and Physical Meteorology, 2022, 66, 23188.	0.8	71
9	Methane budget estimates in Finland from the CarbonTracker Europe-CH₄ data assimilation system. Tellus, Series B: Chemical and Physical Meteorology, 2022, 71, 1565030.	0.8	11
10	A climate database with varying droughtâ€heat signatures for climate impact modelling. Geoscience Data Journal, 2022, 9, 154-166.	1.8	7
11	Radiocarbon in the Land and Ocean Components of the Community Earth System Model. Global Biogeochemical Cycles, 2022, 36, .	1.9	4
12	A strong mitigation scenario maintains climate neutrality of northern peatlands. One Earth, 2022, 5, 86-97.	3.6	14
13	The effects of varying drought-heat signatures on terrestrial carbon dynamics and vegetation composition. Biogeosciences, 2022, 19, 1979-1993.	1.3	10
14	Integrating the evidence for a terrestrial carbon sink caused by increasing atmospheric CO₂. New Phytologist, 2021, 229, 2413-2445.	3.5	286
15	Expert assessment of future vulnerability of the global peatland carbon sink. Nature Climate Change, 2021, 11, 70-77.	8.1	167
16	The quiet crossing of ocean tipping points. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	3.3	64
17	Lower oceanic <i>Î´</i>¹³C during the last interglacial period compared to the Holocene. Climate of the Past, 2021, 17, 507-528.	1.3	3
18	Southern Ocean anthropogenic carbon sink constrained by sea surface salinity. Science Advances, 2021, 7, .	4.7	42

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19	No support for carbon storage of >1,000 GtC in northern peatlands. Nature Geoscience, 2021, 14, 465-467.	5.4	8
20	Committed and projected future changes in global peatlands â€“ continued transient model simulations since the Last Glacial Maximum. Biogeosciences, 2021, 18, 3657-3687.	1.3	19
21	CH₄ and N₂O fluctuations during the penultimate deglaciation. Climate of the Past, 2021, 17, 1627-1643.	1.3	5
22	Magnitude and Uncertainty of Nitrous Oxide Emissions From North America Based on Bottomâ€Up and Topâ€Down Approaches: Informing Future Research and National Inventories. Geophysical Research Letters, 2021, 48, e2021GL095264.	1.5	7
23	A comprehensive quantification of global nitrous oxide sources and sinks. Nature, 2020, 586, 248-256.	13.7	814
24	N₂O changes from the Last Glacial Maximum to the preindustrial â€“ PartÂ2: terrestrial N₂O emissions and carbonâ€“nitrogen cycle interactions. Biogeosciences, 2020, 17, 3511-3543.	1.3	7
25	Abrupt CO ₂ release to the atmosphere under glacial and early interglacial climate conditions. Science, 2020, 369, 1000-1005.	6.0	35
26	Is deoxygenation detectable before warming in the thermocline?. Biogeosciences, 2020, 17, 1877-1895.	1.3	3
27	Modeling the evolution of pulse-like perturbations in atmospheric carbon and carbon isotopes: the role of weatheringâ€“sedimentation imbalances. Climate of the Past, 2020, 16, 423-451.	1.3	10
28	Hysteresis of the Earth system under positive and negative CO₂ emissions. Environmental Research Letters, 2020, 15, 124026.	2.2	27
29	Measured and modelled source water Î´18O based on tree-ring cellulose of larch and pine trees from the permafrost zone. IForest, 2020, 13, 224-229.	0.5	4
30	Global peatland area and carbon dynamics from the Last Glacial Maximum to the present â€“ a process-based model investigation. Biogeosciences, 2020, 17, 5285-5308.	1.3	20
31	Mysteriously high Î”¹⁴C of the glacial atmosphere: influence of ¹⁴C production and carbon cycle changes. Climate of the Past, 2020, 16, 1159-1185.	1.3	12
32	The Global Methane Budget 2000â€“2017. Earth System Science Data, 2020, 12, 1561-1623.	3.7	1,199
33	Marine N₂O emissions during a Younger Dryas-like event: the role of meridional overturning, tropical thermocline ventilation, and biological productivity. Environmental Research Letters, 2019, 14, 075007.	2.2	6
34	Mechanisms of millennial-scale atmospheric CO2 change in numerical model simulations. Quaternary Science Reviews, 2019, 220, 30-74.	1.4	46
35	N₂O changes from the Last Glacial Maximum to the preindustrial â€“ Part 1: Quantitative reconstruction of terrestrial and marine emissions using N₂O stable isotopes in ice cores. Biogeosciences, 2019, 16, 3997-4021.	1.3	12
36	Global Patterns in Net Primary Production Allocation Regulated by Environmental Conditions and Forest Stand Age: A Modelâ€Data Comparison. Journal of Geophysical Research G: Biogeosciences, 2019, 124, 2039-2059.	1.3	30

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37	Assessment of time of emergence of anthropogenic deoxygenation and warming: insights from a CESM simulation from 850 to 2100â€‰CE. Biogeosciences, 2019, 16, 1755-1780.	1.3	10
38	Low terrestrial carbon storage at the Last Glacial Maximum: constraints from multi-proxy data. Climate of the Past, 2019, 15, 849-879.	1.3	38
39	Renewable CO₂recycling and synthetic fuel production in a marine environment. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 12212-12219.	3.3	86
40	Modeling Neodymium Isotopes in the Ocean Component of the Community Earth System Model (CESM1). Journal of Advances in Modeling Earth Systems, 2019, 11, 624-640.	1.3	18
41	Global soil nitrous oxide emissions since the preindustrial era estimated by an ensemble of terrestrial biosphere models: Magnitude, attribution, and uncertainty. Global Change Biology, 2019, 25, 640-659.	4.2	214
42	Monthly gridded data product of northern wetland methane emissions based on upscaling eddy covariance observations. Earth System Science Data, 2019, 11, 1263-1289.	3.7	69
43	Marine N₂O Emissions From Nitrification and Denitrification Constrained by Modern Observations and Projected in Multimillennial Global Warming Simulations. Global Biogeochemical Cycles, 2018, 32, 92-121.	1.9	66
44	The Global N2O Model Intercomparison Project. Bulletin of the American Meteorological Society, 2018, 99, 1231-1251.	1.7	123
45	Hazards of decreasing marine oxygen: the near-term and millennial-scale benefits of meeting the Paris climate targets. Earth System Dynamics, 2018, 9, 797-816.	2.7	19
46	The Bern Simple Climate Model (BernSCM) v1.0: an extensible and fully documented open-source re-implementation of the Bern reduced-form model for global carbon cycleâ€“climate simulations. Geoscientific Model Development, 2018, 11, 1887-1908.	1.3	16
47	Preface: The 10th International Carbon Dioxide Conference (ICDC10) and the 19th WMO/IAEA Meeting on Carbon Dioxide, Other Greenhouse Gases, and Related Measurement Techniques (GGMT-2017). Atmospheric Chemistry and Physics, 2018, 18, 7841-7842.	1.9	0
48	Impact of the 2015/2016 El NiÃ±o on the terrestrial carbon cycle constrained by bottom-up and top-down approaches. Philosophical Transactions of the Royal Society B: Biological Sciences, 2018, 373, 20170304.	1.8	63
49	A Bayesian ensemble data assimilation to constrain model parameters and land-use carbon emissions. Biogeosciences, 2018, 15, 2909-2930.	1.3	64
50	Palaeoclimate constraints on the impact of 2 Â°C anthropogenic warming and beyond. Nature Geoscience, 2018, 11, 474-485.	5.4	166
51	A Combined Tree Ring and Vegetation Model Assessment of European Forest Growth Sensitivity to Interannual Climate Variability. Global Biogeochemical Cycles, 2018, 32, 1226-1240.	1.9	54
52	A radiative forcing analysis of tropical peatlands before and after their conversion to agricultural plantations. Global Change Biology, 2018, 24, 5518-5533.	4.2	27
53	Holocene peatland and ice-core data constraints on the timing and magnitude of CO ₂ emissions from past land use. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 1492-1497.	3.3	34
54	Warm Mediterranean mid-Holocene summers inferred from fossil midge assemblages. Nature Geoscience, 2017, 10, 207-212.	5.4	80

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55	New insights into cycling of 231 Pa and 230 Th in the Atlantic Ocean. Earth and Planetary Science Letters, 2017, 468, 27-37.	1.8	34
56	Global wetland contribution to 2000â€“2012 atmospheric methane growth rate dynamics. Environmental Research Letters, 2017, 12, 094013.	2.2	129
57	Coherent Response of Antarctic Intermediate Water and Atlantic Meridional Overturning Circulation During the Last Deglaciation: Reconciling Contrasting Neodymium Isotope Reconstructions From the Tropical Atlantic. Paleoceanography, 2017, 32, 1036-1053.	3.0	23
58	Towards real-time verification of CO2 emissions. Nature Climate Change, 2017, 7, 848-850.	8.1	168
59	Poorly ventilated deep ocean at the Last Glacial Maximum inferred from carbon isotopes: A dataâ€model comparison study. Paleoceanography, 2017, 32, 2-17.	3.0	85
60	Variability and quasi-decadal changes in the methane budget over the period 2000â€“2012. Atmospheric Chemistry and Physics, 2017, 17, 11135-11161.	1.9	85
61	Biogeochemical protocols and diagnostics for the CMIP6 Ocean Model Intercomparison Project (OMIP). Geoscientific Model Development, 2017, 10, 2169-2199.	1.3	137
62	The PMIP4 contribution to CMIP6 â€“ Part 2: Two interglacials, scientific objective and experimental design for Holocene and Last Interglacial simulations. Geoscientific Model Development, 2017, 10, 3979-4003.	1.3	171
63	The PMIP4 contribution to CMIP6 â€“ Part 3: The last millennium, scientific objective, and experimental design for the PMIP4 <i>past1000</i> simulations. Geoscientific Model Development, 2017, 10, 4005-4033.	1.3	155
64	20thÂcentury changes in carbon isotopes and water-use efficiency: tree-ring-based evaluation of the CLM4.5 and LPX-Bern models. Biogeosciences, 2017, 14, 2641-2673.	1.3	81
65	The 1430s: a cold period of extraordinary internal climate variability during the early SpÃ¶rer Minimum with social and economic impacts in north-western and central Europe. Climate of the Past, 2016, 12, 2107-2126.	1.3	66
66	Transient Earth system responses to cumulative carbon dioxide emissions: linearities, uncertainties, and probabilities in an observation-constrained model ensemble. Biogeosciences, 2016, 13, 1071-1103.	1.3	34
67	Simulating oxygen isotope ratios in tree ring cellulose using a dynamic global vegetation model. Biogeosciences, 2016, 13, 3869-3886.	1.3	23
68	Intensification of tropical Pacific biological productivity due to volcanic eruptions. Geophysical Research Letters, 2016, 43, 1184-1192.	1.5	21
69	Implications of the Paris agreement for the ocean. Nature Climate Change, 2016, 6, 732-735.	8.1	50
70	Past and future evolution of Abies alba forests in Europe â€“ comparison of a dynamic vegetation model with palaeo data and observations. Global Change Biology, 2016, 22, 727-740.	4.2	70
71	Comparative carbon cycle dynamics of the present and last interglacial. Quaternary Science Reviews, 2016, 137, 15-32.	1.4	26
72	AÂprobabilistic assessment of calcium carbonate export and dissolution in the modern ocean. Biogeosciences, 2016, 13, 2823-2848.	1.3	28

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73	The global methane budget 2000â€“2012. Earth System Science Data, 2016, 8, 697-751.	3.7	824
74	Impact of oceanic circulation changes on atmospheric Î´¹³CO₂. Global Biogeochemical Cycles, 2015, 29, 1944-1961.	1.9	35
75	Detecting changes in marine responses to ENSO from 850 to 2100 C.E.: Insights from the ocean carbon cycle. Geophysical Research Letters, 2015, 42, 518-525.	1.5	19
76	Climate and carbon cycle dynamics in a CESM simulation from 850 to 2100 CE. Earth System Dynamics, 2015, 6, 411-434.	2.7	52
77	An updated synthesis of the observed and projected impacts of climate change on the chemical, physical and biological processes in the oceans. Frontiers in Marine Science, 2015, 2, .	1.2	59
78	Contrasting futures for ocean and society from different anthropogenic CO ₂ emissions scenarios. Science, 2015, 349, aac4722.	6.0	1,059
79	Growing feedback from ocean carbon to climate. Nature, 2015, 522, 295-296.	13.7	8
80	Links between atmospheric carbon dioxide, theÂland carbon reservoir and climate over theÂpast millennium. Nature Geoscience, 2015, 8, 383-387.	5.4	66
81	Ice core-based isotopic constraints on past carbon cycle changes. Past Global Change Magazine, 2015, 23, 12-13.	0.4	2
82	Quantifying differences in land use emission estimates implied by definition discrepancies. Earth System Dynamics, 2015, 6, 731-744.	2.7	21
83	Time of emergence of trends in ocean biogeochemistry. Biogeosciences, 2014, 11, 3647-3659.	1.3	81
84	Methane emissions from floodplains in the Amazon Basin: challenges in developing a process-based model for global applications. Biogeosciences, 2014, 11, 1519-1558.	1.3	43
85	Projected pH reductions by 2100 might put deep North Atlantic biodiversity at risk. Biogeosciences, 2014, 11, 6955-6967.	1.3	49
86	Spatial variability and temporal trends in waterâ€use efficiency of European forests. Global Change Biology, 2014, 20, 3700-3712.	4.2	175
87	Isotopic constraints on marine and terrestrial N2O emissions during the last deglaciation. Nature, 2014, 516, 234-237.	13.7	38
88	Burial-nutrient feedbacks amplify the sensitivity of atmospheric carbon dioxide to changes in organic matter remineralisation. Earth System Dynamics, 2014, 5, 321-343.	2.7	50
89	DYPTOP: a cost-efficient TOPMODEL implementation to simulate sub-grid spatio-temporal dynamics of global wetlands and peatlands. Geoscientific Model Development, 2014, 7, 3089-3110.	1.3	69
90	Evidence for distinct modes of solar activity. Astronomy and Astrophysics, 2014, 562, L10.	2.1	97

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91	Isotopes of carbon, water and geotracers in paleoclimate research. Past Global Change Magazine, 2014, 22, 49-49.	0.4	0
92	Long-Term Climate Change Commitment and Reversibility: An EMIC Intercomparison. Journal of Climate, 2013, 26, 5782-5809.	1.2	208
93	Allowable carbon emissions lowered by multiple climate targets. Nature, 2013, 499, 197-201.	13.7	105
94	Taking Action Against Ocean Acidification: A Review of Management and Policy Options. Environmental Management, 2013, 52, 761-779.	1.2	73
95	An Ensemble Kalman Filter multi-tracer assimilation: Determining uncertain ocean model parameters for improved climate-carbon cycle projections. Ocean Modelling, 2013, 64, 29-45.	1.0	9
96	Multiple greenhouse-gas feedbacks from the land biosphere under future climate change scenarios. Nature Climate Change, 2013, 3, 666-672.	8.1	209
97	Impact of an abrupt cooling event on interglacial methane emissions in northern peatlands. Biogeosciences, 2013, 10, 1963-1981.	1.3	30
98	Anthropogenic perturbation of the carbon fluxes from land to ocean. Nature Geoscience, 2013, 6, 597-607.	5.4	937
99	Atmospheric CO₂ response to volcanic eruptions: The role of ENSO, season, and variability. Global Biogeochemical Cycles, 2013, 27, 239-251.	1.9	53
100	The past ecology of Abies alba provides new perspectives on future responses of silver fir forests to global warming. Ecological Monographs, 2013, 83, 419-439.	2.4	176
101	Carbon dioxide and climate impulse response functions for the computation of greenhouse gas metrics: a multi-model analysis. Atmospheric Chemistry and Physics, 2013, 13, 2793-2825.	1.9	517
102	Oxygen and indicators of stress for marine life in multi-model global warming projections. Biogeosciences, 2013, 10, 1849-1868.	1.3	140
103	Historical and idealized climate model experiments: an intercomparison of Earth system models of intermediate complexity. Climate of the Past, 2013, 9, 1111-1140.	1.3	157
104	Transient simulations of the carbon and nitrogen dynamics in northern peatlands: from the Last Glacial Maximum to the 21st century. Climate of the Past, 2013, 9, 1287-1308.	1.3	102
105	A reconstruction of radiocarbon production and total solar irradiance from the Holocene ¹⁴C and CO₂ records: implications of data and model uncertainties. Climate of the Past, 2013, 9, 1879-1909.	1.3	104
106	A reconstruction of atmospheric carbon dioxide and its stable carbon isotopic composition from the penultimate glacial maximum to the last glacial inception. Climate of the Past, 2013, 9, 2507-2523.	1.3	90
107	Climate forcing reconstructions for use in PMIP simulations of the Last Millennium (v1.1). Geoscientific Model Development, 2012, 5, 185-191.	1.3	238
108	Simulating atmospheric CO2, 13C and the marine carbon cycle during the Last Glacialâ€“Interglacial cycle: possible role for a deepening of the mean remineralization depth and an increase in the oceanic nutrient inventory. Quaternary Science Reviews, 2012, 56, 46-68.	1.4	83

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109	Model limits on the role of volcanic carbon emissions in regulating glacialâ€“interglacial CO2 variations. Earth and Planetary Science Letters, 2012, 329-330, 141-149.	1.8	22
110	Stability of the Atlantic meridional overturning circulation: A model intercomparison. Geophysical Research Letters, 2012, 39, .	1.5	185
111	Toward explaining the Holocene carbon dioxide and carbon isotope records: Results from transient ocean carbon cycleâ€climate simulations. Paleoceanography, 2012, 27, .	3.0	41
112	Sensitivity of Nd isotopic composition in seawater to changes in Nd sources and paleoceanographic implications. Journal of Geophysical Research, 2012, 117, .	3.3	21
113	On the relationship between Nd isotopic composition and ocean overturning circulation in idealized freshwater discharge events. Paleoceanography, 2012, 27, .	3.0	16
114	Carbon Isotope Constraints on the Deglacial CO ₂ Rise from Ice Cores. Science, 2012, 336, 711-714.	6.0	339
115	The Effects of Land Use and Management on the Global Carbon Cycle. Remote Sensing and Digital Image Processing, 2012, , 237-256.	0.7	2
116	A Coupled Dynamical Oceanâ€“Energy Balance Atmosphere Model for Paleoclimate Studies. Journal of Climate, 2011, 24, 349-375.	1.2	87
117	Modelling Nd-isotopes with a coarse resolution ocean circulation model: Sensitivities to model parameters and source/sink distributions. Geochimica Et Cosmochimica Acta, 2011, 75, 5927-5950.	1.6	136
118	Sensitivity of atmospheric CO₂ and climate to explosive volcanic eruptions. Biogeosciences, 2011, 8, 2317-2339.	1.3	46
119	Deep ocean ventilation, carbon isotopes, marine sedimentation and the deglacial CO₂ rise. Climate of the Past, 2011, 7, 771-800.	1.3	107
120	Sensitivity of Holocene atmospheric CO₂ and the modern carbon budget to early human land use: analyses with a process-based model. Biogeosciences, 2011, 8, 69-88.	1.3	92
121	Fingerprints of changes in the terrestrial carbon cycle in response to large reorganizations in ocean circulation. Climate of the Past, 2011, 7, 319-338.	1.3	50
122	Sensitivity of pelagic calcification to ocean acidification. Biogeosciences, 2011, 8, 433-458.	1.3	47
123	Climate forcing reconstructions for use in PMIP simulations of the last millennium (v1.0). Geoscientific Model Development, 2011, 4, 33-45.	1.3	349
124	Constraining global methane emissions and uptake by ecosystems. Biogeosciences, 2011, 8, 1643-1665.	1.3	202
125	Regional Impacts of Climate Change and Atmospheric CO2 on Future Ocean Carbon Uptake: A Multimodel Linear Feedback Analysis. Journal of Climate, 2011, 24, 2300-2318.	1.2	95
126	Impact of Climate Change Mitigation On Ocean Acidification Projections. , 2011, , .		12

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127	Reversible and irreversible impacts of greenhouse gas emissions in multi-century projections with the NCAR global coupled carbon cycle-climate model. Climate Dynamics, 2010, 35, 1439-1459.	1.7	98
128	Ensemble reconstruction constraints on the global carbon cycle sensitivity to climate. Nature, 2010, 463, 527-530.	13.7	256
129	Misrepresentation of the IPCC CO2 emission scenarios. Nature Geoscience, 2010, 3, 376-377.	5.4	66
130	Projected 21st century decrease in marine productivity: a multi-model analysis. Biogeosciences, 2010, 7, 979-1005.	1.3	520
131	The role of Southern Ocean processes in orbital and millennial CO2 variations â€“ A synthesis. Quaternary Science Reviews, 2010, 29, 193-205.	1.4	115
132	What caused Earth's temperature variations during the last 800,000 years? Data-based evidence on radiative forcing and constraints on climate sensitivity. Quaternary Science Reviews, 2010, 29, 129-145.	1.4	143
133	Carbon sources and sinks from an Ensemble Kalman Filter ocean data assimilation. Global Biogeochemical Cycles, 2010, 24, .	1.9	20
134	The role of ocean transport in the uptake of anthropogenic CO₂. Biogeosciences, 2009, 6, 375-390.	1.3	93
135	Imminent ocean acidification in the Arctic projected with the NCAR global coupled carbon cycle-climate model. Biogeosciences, 2009, 6, 515-533.	1.3	417
136	CO2 and non-CO2 radiative forcings in climate projections for twenty-first century mitigation scenarios. Climate Dynamics, 2009, 33, 737-749.	1.7	20
137	Stable isotope constraints on Holocene carbon cycle changes from an Antarctic ice core. Nature, 2009, 461, 507-510.	13.7	203
138	Regional airâ€sea fluxes of anthropogenic carbon inferred with an Ensemble Kalman Filter. Global Biogeochemical Cycles, 2009, 23, .	1.9	34
139	Natural variability and anthropogenic trends in oceanic oxygen in a coupled carbon cycleâ€“climate model ensemble. Global Biogeochemical Cycles, 2009, 23, .	1.9	143
140	Oceanic sources, sinks, and transport of atmospheric CO₂. Global Biogeochemical Cycles, 2009, 23, .	1.9	455
141	Temperature increase of 21st century mitigation scenarios. IOP Conference Series: Earth and Environmental Science, 2009, 6, 492012.	0.2	0
142	Climate and human influences on globalÂbiomass burning over the past twoÂmillennia. Nature Geoscience, 2008, 1, 697-702.	5.4	686
143	Modeled natural and excess radiocarbon: Sensitivities to the gas exchange formulation and ocean transport strength. Global Biogeochemical Cycles, 2008, 22, .	1.9	70
144	A modeling assessment of the interplay between aeolian iron fluxes and ironâ€binding ligands in controlling carbon dioxide fluctuations during Antarctic warm events. Paleoceanography, 2008, 23, .	3.0	76

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145	Mid- to Late Holocene climate change: an overview. Quaternary Science Reviews, 2008, 27, 1791-1828.	1.4	1,389
146	How important are Southern Hemisphere wind changes for low glacial carbon dioxide? A model study. Paleoceanography, 2008, 23, .	3.0	81
147	Rates of change in natural and anthropogenic radiative forcing over the past 20,000 years. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 1425-1430.	3.3	366
148	Long-Term Climate Commitments Projected with Climateâ€“Carbon Cycle Models. Journal of Climate, 2008, 21, 2721-2751.	1.2	232
149	Temperature increase of 21st century mitigation scenarios. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 15258-15262.	3.3	139
150	Climate-induced interannual variability of marine primary and export production in three global coupled climate carbon cycle models. Biogeosciences, 2008, 5, 597-614.	1.3	104
151	Modeling the marine aragonite cycle: changes under rising carbon dioxide and its role in shallow water CaCO₃ dissolution. Biogeosciences, 2008, 5, 1057-1072.	1.3	67
152	Solar influence on climate during the past millennium: Results from transient simulations with the NCAR Climate System Model. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 3713-3718.	3.3	323
153	Solar activity during the last 1000yr inferred from radionuclide records. Quaternary Science Reviews, 2007, 26, 82-97.	1.4	284
154	Reply to the comment by Bard et al. on â€œSolar activity during the last 1000yr inferred from radionuclide recordsâ€• Quaternary Science Reviews, 2007, 26, 2304-2308.	1.4	3
155	Inverse estimates of the oceanic sources and sinks of natural CO2 and the implied oceanic carbon transport. Global Biogeochemical Cycles, 2007, 21, .	1.9	156
156	Impact of circulation on export production, dissolved organic matter, and dissolved oxygen in the ocean: Results from Phase II of the Ocean Carbonâ€cycle Model Intercomparison Project (OCMIPâ€2). Global Biogeochemical Cycles, 2007, 21, .	1.9	211
157	Modeling the relationship between231Pa/230Th distribution in North Atlantic sediment and Atlantic meridional overturning circulation. Paleoceanography, 2007, 22, .	3.0	45
158	Inverse estimates of anthropogenic CO2uptake, transport, and storage by the ocean. Global Biogeochemical Cycles, 2006, 20, n/a-n/a.	1.9	331
159	Water Mass Distribution and Ventilation Time Scales in a Cost-Efficient, Three-Dimensional Ocean Model. Journal of Climate, 2006, 19, 5479-5499.	1.2	113
160	Climateâ€“Carbon Cycle Feedback Analysis: Results from the C4MIP Model Intercomparison. Journal of Climate, 2006, 19, 3337-3353.	1.2	2,647
161	How unusual is today's solar activity?. Nature, 2005, 436, E3-E4.	13.7	58
162	Anthropogenic ocean acidification over the twenty-first century and its impact on calcifying organisms. Nature, 2005, 437, 681-686.	13.7	3,772

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163	Simulated changes in vegetation distribution, land carbon storage, and atmospheric CO2 in response to a collapse of the North Atlantic thermohaline circulation. Climate Dynamics, 2005, 25, 689-708.	1.7	70
164	231Pa/230Th fractionation by ocean transport, biogenic particle flux and particle type. Earth and Planetary Science Letters, 2005, 237, 135-155.	1.8	84
165	Modeling past atmospheric CO2: Results of a challenge. Eos, 2005, 86, 341.	0.1	18
166	Probabilistic climate change projections for CO2stabilization profiles. Geophysical Research Letters, 2005, 32, .	1.5	53
167	Narrowing the uncertainty for deep-ocean injection efficiency. , 2005, , 1481-1485.		1
168	Sensitivity of a dynamic global vegetation model to climate and atmospheric CO2. Global Change Biology, 2004, 10, 1223-1239.	4.2	66
169	Evaluating global ocean carbon models: The importance of realistic physics. Global Biogeochemical Cycles, 2004, 18, n/a-n/a.	1.9	210
170	Transient simulations of Holocene atmospheric carbon dioxide and terrestrial carbon since the Last Glacial Maximum. Global Biogeochemical Cycles, 2004, 18, n/a-n/a.	1.9	197
171	Evaluation of ocean carbon cycle models with data-based metrics. Geophysical Research Letters, 2004, 31, n/a-n/a.	1.5	168
172	Metrics to assess the mitigation of global warming by carbon capture and storage in the ocean and in geological reservoirs. Geophysical Research Letters, 2004, 31, .	1.5	39
173	Ice core evidence for the extent of past atmospheric CO2change due to iron fertilisation. Geophysical Research Letters, 2004, 31, .	1.5	63
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