

# Fortunat Joos

## List of Publications by Year in descending order

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214  
papers

33,687  
citations

5896

81  
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4342

173  
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312  
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312  
docs citations

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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.	1.6	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.	1.6	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.	1.6	37
4	A first-order analysis of the potential role of CO <sub>2</sub> fertilization to affect the global carbon budget: a comparison of four terrestrial biosphere models. Tellus, Series B: Chemical and Physical Meteorology, 2022, 51, 343.	1.6	49
5	Feedback mechanisms and sensitivities of ocean carbon uptake under global warming. Tellus, Series B: Chemical and Physical Meteorology, 2022, 53, 564.	1.6	15
6	Simulating effects of land use changes on carbon fluxes: past contributions to atmospheric CO <sub>2</sub> increases and future commitments due to losses of terrestrial sink capacity. Tellus, Series B: Chemical and Physical Meteorology, 2022, 60, 583.	1.6	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.	1.6	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.	1.6	71
9	Methane budget estimates in Finland from the CarbonTracker Europe-CH <sub>4</sub> data assimilation system. Tellus, Series B: Chemical and Physical Meteorology, 2022, 71, 1565030.	1.6	11
10	A climate database with varying drought-heat signatures for climate impact modelling. Geoscience Data Journal, 2022, 9, 154-166.	4.4	7
11	Radiocarbon in the Land and Ocean Components of the Community Earth System Model. Global Biogeochemical Cycles, 2022, 36, .	4.9	4
12	A strong mitigation scenario maintains climate neutrality of northern peatlands. One Earth, 2022, 5, 86-97.	6.8	14
13	The effects of varying drought-heat signatures on terrestrial carbon dynamics and vegetation composition. Biogeosciences, 2022, 19, 1979-1993.	3.3	10
14	Integrating the evidence for a terrestrial carbon sink caused by increasing atmospheric CO <sub>2</sub> . New Phytologist, 2021, 229, 2413-2445.	7.3	286
15	Expert assessment of future vulnerability of the global peatland carbon sink. Nature Climate Change, 2021, 11, 70-77.	18.8	167
16	The quiet crossing of ocean tipping points. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	7.1	64
17	Lower oceanic $\delta^{13}C$ during the last interglacial period compared to the Holocene. Climate of the Past, 2021, 17, 507-528.	3.4	3
18	Southern Ocean anthropogenic carbon sink constrained by sea surface salinity. Science Advances, 2021, 7, .	10.3	42

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19	No support for carbon storage of >1,000 GtC in northern peatlands. <i>Nature Geoscience</i> , 2021, 14, 465-467.	12.9	8
20	Committed and projected future changes in global peatlands – continued transient model simulations since the Last Glacial Maximum. <i>Biogeosciences</i> , 2021, 18, 3657-3687.	3.3	19
21	CH <sub>4</sub> and N <sub>2</sub> O fluctuations during the penultimate deglaciation. <i>Climate of the Past</i> , 2021, 17, 1627-1643.	3.4	5
22	Magnitude and Uncertainty of Nitrous Oxide Emissions From North America Based on Bottom-Up and Top-Down Approaches: Informing Future Research and National Inventories. <i>Geophysical Research Letters</i> , 2021, 48, e2021GL095264.	4.0	7
23	A comprehensive quantification of global nitrous oxide sources and sinks. <i>Nature</i> , 2020, 586, 248-256.	27.8	814
24	N <sub>2</sub> O changes from the Last Glacial Maximum to the preindustrial – Part 2: terrestrial N <sub>2</sub> O emissions and carbon–nitrogen cycle interactions. <i>Biogeosciences</i> , 2020, 17, 3511-3543.	3.3	7
25	Abrupt CO <sub>2</sub> release to the atmosphere under glacial and early interglacial climate conditions. <i>Science</i> , 2020, 369, 1000-1005.	12.6	35
26	Is deoxygenation detectable before warming in the thermocline?. <i>Biogeosciences</i> , 2020, 17, 1877-1895.	3.3	3
27	Modeling the evolution of pulse-like perturbations in atmospheric carbon and carbon isotopes: the role of weathering–sedimentation imbalances. <i>Climate of the Past</i> , 2020, 16, 423-451.	3.4	10
28	Hysteresis of the Earth system under positive and negative CO <sub>2</sub> emissions. <i>Environmental Research Letters</i> , 2020, 15, 124026.	5.2	27
29	Measured and modelled source water δ <sup>18</sup> O based on tree-ring cellulose of larch and pine trees from the permafrost zone. <i>IForest</i> , 2020, 13, 224-229.	1.4	4
30	Global peatland area and carbon dynamics from the Last Glacial Maximum to the present – a process-based model investigation. <i>Biogeosciences</i> , 2020, 17, 5285-5308.	3.3	20
31	Mysteriously high δ <sup>14</sup> C of the glacial atmosphere: influence of δ <sup>14</sup> C production and carbon cycle changes. <i>Climate of the Past</i> , 2020, 16, 1159-1185.	3.4	12
32	The Global Methane Budget 2000–2017. <i>Earth System Science Data</i> , 2020, 12, 1561-1623.	9.9	1,199
33	Marine N <sub>2</sub> O emissions during a Younger Dryas-like event: the role of meridional overturning, tropical thermocline ventilation, and biological productivity. <i>Environmental Research Letters</i> , 2019, 14, 075007.	5.2	6
34	Mechanisms of millennial-scale atmospheric CO <sub>2</sub> change in numerical model simulations. <i>Quaternary Science Reviews</i> , 2019, 220, 30-74.	3.0	46
35	N <sub>2</sub> O changes from the Last Glacial Maximum to the preindustrial – Part 1: Quantitative reconstruction of terrestrial and marine emissions using N <sub>2</sub> O stable isotopes in ice cores. <i>Biogeosciences</i> , 2019, 16, 3997-4021.	3.3	12
36	Global Patterns in Net Primary Production Allocation Regulated by Environmental Conditions and Forest Stand Age: A Model–Data Comparison. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2019, 124, 2039-2059.	3.0	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. <i>Biogeosciences</i> , 2019, 16, 1755-1780.	3.3	10
38	Low terrestrial carbon storage at the Last Glacial Maximum: constraints from multi-proxy data. <i>Climate of the Past</i> , 2019, 15, 849-879.	3.4	38
39	Renewable CO <sub>2</sub> recycling and synthetic fuel production in a marine environment. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 12212-12219.	7.1	86
40	Modeling Neodymium Isotopes in the Ocean Component of the Community Earth System Model (CESM1). <i>Journal of Advances in Modeling Earth Systems</i> , 2019, 11, 624-640.	3.8	18
41	Global soil nitrous oxide emissions since the preindustrial era estimated by an ensemble of terrestrial biosphere models: Magnitude, attribution, and uncertainty. <i>Global Change Biology</i> , 2019, 25, 640-659.	9.5	214
42	Monthly gridded data product of northern wetland methane emissions based on upscaling eddy covariance observations. <i>Earth System Science Data</i> , 2019, 11, 1263-1289.	9.9	69
43	Marine N <sub>2</sub> O Emissions From Nitrification and Denitrification Constrained by Modern Observations and Projected in Multimillennial Global Warming Simulations. <i>Global Biogeochemical Cycles</i> , 2018, 32, 92-121.	4.9	66
44	The Global N <sub>2</sub> O Model Intercomparison Project. <i>Bulletin of the American Meteorological Society</i> , 2018, 99, 1231-1251.	3.3	123
45	Hazards of decreasing marine oxygen: the near-term and millennial-scale benefits of meeting the Paris climate targets. <i>Earth System Dynamics</i> , 2018, 9, 797-816.	7.1	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€œclimate simulations. <i>Geoscientific Model Development</i> , 2018, 11, 1887-1908.	3.6	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). <i>Atmospheric Chemistry and Physics</i> , 2018, 18, 7841-7842.	4.9	0
48	Impact of the 2015/2016 El Niño on the terrestrial carbon cycle constrained by bottom-up and top-down approaches. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2018, 373, 20170304.	4.0	63
49	A Bayesian ensemble data assimilation to constrain model parameters and land-use carbon emissions. <i>Biogeosciences</i> , 2018, 15, 2909-2930.	3.3	64
50	Palaeoclimate constraints on the impact of 2 Â°C anthropogenic warming and beyond. <i>Nature Geoscience</i> , 2018, 11, 474-485.	12.9	166
51	A Combined Tree Ring and Vegetation Model Assessment of European Forest Growth Sensitivity to Interannual Climate Variability. <i>Global Biogeochemical Cycles</i> , 2018, 32, 1226-1240.	4.9	54
52	A radiative forcing analysis of tropical peatlands before and after their conversion to agricultural plantations. <i>Global Change Biology</i> , 2018, 24, 5518-5533.	9.5	27
53	Holocene peatland and ice-core data constraints on the timing and magnitude of CO <sub>2</sub> emissions from past land use. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, 1492-1497.	7.1	34
54	Warm Mediterranean mid-Holocene summers inferred from fossil midge assemblages. <i>Nature Geoscience</i> , 2017, 10, 207-212.	12.9	80

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55	New insights into cycling of <sup>231</sup> Pa and <sup>230</sup> Th in the Atlantic Ocean. <i>Earth and Planetary Science Letters</i> , 2017, 468, 27-37.	4.4	34
56	Global wetland contribution to 2000â€“2012 atmospheric methane growth rate dynamics. <i>Environmental Research Letters</i> , 2017, 12, 094013.	5.2	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. <i>Paleoceanography</i> , 2017, 32, 1036-1053.	3.0	23
58	Towards real-time verification of CO <sub>2</sub> emissions. <i>Nature Climate Change</i> , 2017, 7, 848-850.	18.8	168
59	Poorly ventilated deep ocean at the Last Glacial Maximum inferred from carbon isotopes: A dataâ€“model comparison study. <i>Paleoceanography</i> , 2017, 32, 2-17.	3.0	85
60	Variability and quasi-decadal changes in the methane budget over the period 2000â€“2012. <i>Atmospheric Chemistry and Physics</i> , 2017, 17, 11135-11161.	4.9	85
61	Biogeochemical protocols and diagnostics for the CMIP6 Ocean Model Intercomparison Project (OMIP). <i>Geoscientific Model Development</i> , 2017, 10, 2169-2199.	3.6	137
62	The PMIP4 contribution to CMIP6 â€“ Part 2: Two interglacials, scientific objective and experimental design for Holocene and Last Interglacial simulations. <i>Geoscientific Model Development</i> , 2017, 10, 3979-4003.	3.6	171
63	The PMIP4 contribution to CMIP6 â€“ Part 3: The last millennium, scientific objective, and experimental design for the PMIP4 &lt;i>past1000&lt;/i> simulations. <i>Geoscientific Model Development</i> , 2017, 10, 4005-4033.	3.6	155
64	20thÂcentury changes in carbon isotopes and water-use efficiency: tree-ring-based evaluation of the CLM4.5 and LPX-Bern models. <i>Biogeosciences</i> , 2017, 14, 2641-2673.	3.3	81
65	The 1430s: a cold period of extraordinary internal climate variability during the early SpÃ¼rer Minimum with social and economic impacts in north-western and central Europe. <i>Climate of the Past</i> , 2016, 12, 2107-2126.	3.4	66
66	Transient Earth system responses to cumulative carbon dioxide emissions: linearities, uncertainties, and probabilities in an observation-constrained model ensemble. <i>Biogeosciences</i> , 2016, 13, 1071-1103.	3.3	34
67	Simulating oxygen isotope ratios in tree ring cellulose using a dynamic global vegetation model. <i>Biogeosciences</i> , 2016, 13, 3869-3886.	3.3	23
68	Intensification of tropical Pacific biological productivity due to volcanic eruptions. <i>Geophysical Research Letters</i> , 2016, 43, 1184-1192.	4.0	21
69	Implications of the Paris agreement for the ocean. <i>Nature Climate Change</i> , 2016, 6, 732-735.	18.8	50
70	Past and future evolution of <i>Abies alba</i> forests in Europe â€“ comparison of a dynamic vegetation model with palaeo data and observations. <i>Global Change Biology</i> , 2016, 22, 727-740.	9.5	70
71	Comparative carbon cycle dynamics of the present and last interglacial. <i>Quaternary Science Reviews</i> , 2016, 137, 15-32.	3.0	26
72	Âprobabilistic assessment of calcium carbonate export and dissolution in the modern ocean. <i>Biogeosciences</i> , 2016, 13, 2823-2848.	3.3	28

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73	The global methane budget 2000–2012. <i>Earth System Science Data</i> , 2016, 8, 697-751.	9.9	824
74	Impact of oceanic circulation changes on atmospheric $^{13}\text{CO}_2$ . <i>Global Biogeochemical Cycles</i> , 2015, 29, 1944-1961.	4.9	35
75	Detecting changes in marine responses to ENSO from 850 to 2100 C.E.: Insights from the ocean carbon cycle. <i>Geophysical Research Letters</i> , 2015, 42, 518-525.	4.0	19
76	Climate and carbon cycle dynamics in a CESM simulation from 850 to 2100 CE. <i>Earth System Dynamics</i> , 2015, 6, 411-434.	7.1	52
77	An updated synthesis of the observed and projected impacts of climate change on the chemical, physical and biological processes in the oceans. <i>Frontiers in Marine Science</i> , 2015, 2, .	2.5	59
78	Contrasting futures for ocean and society from different anthropogenic $\text{CO}_2$ emissions scenarios. <i>Science</i> , 2015, 349, aac4722.	12.6	1,059
79	Growing feedback from ocean carbon to climate. <i>Nature</i> , 2015, 522, 295-296.	27.8	8
80	Links between atmospheric carbon dioxide, the land carbon reservoir and climate over the past millennium. <i>Nature Geoscience</i> , 2015, 8, 383-387.	12.9	66
81	Ice core-based isotopic constraints on past carbon cycle changes. <i>Past Global Change Magazine</i> , 2015, 23, 12-13.	0.1	2
82	Quantifying differences in land use emission estimates implied by definition discrepancies. <i>Earth System Dynamics</i> , 2015, 6, 731-744.	7.1	21
83	Time of emergence of trends in ocean biogeochemistry. <i>Biogeosciences</i> , 2014, 11, 3647-3659.	3.3	81
84	Methane emissions from floodplains in the Amazon Basin: challenges in developing a process-based model for global applications. <i>Biogeosciences</i> , 2014, 11, 1519-1558.	3.3	43
85	Projected pH reductions by 2100 might put deep North Atlantic biodiversity at risk. <i>Biogeosciences</i> , 2014, 11, 6955-6967.	3.3	49
86	Spatial variability and temporal trends in water-use efficiency of European forests. <i>Global Change Biology</i> , 2014, 20, 3700-3712.	9.5	175
87	Isotopic constraints on marine and terrestrial $\text{N}_2\text{O}$ emissions during the last deglaciation. <i>Nature</i> , 2014, 516, 234-237.	27.8	38
88	Burial-nutrient feedbacks amplify the sensitivity of atmospheric carbon dioxide to changes in organic matter remineralisation. <i>Earth System Dynamics</i> , 2014, 5, 321-343.	7.1	50
89	DYPTOP: a cost-efficient TOPMODEL implementation to simulate sub-grid spatio-temporal dynamics of global wetlands and peatlands. <i>Geoscientific Model Development</i> , 2014, 7, 3089-3110.	3.6	69
90	Evidence for distinct modes of solar activity. <i>Astronomy and Astrophysics</i> , 2014, 562, L10.	5.1	97

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91	Isotopes of carbon, water and geotracers in paleoclimate research. Past Global Change Magazine, 2014, 22, 49-49.	0.1	0
92	Long-Term Climate Change Commitment and Reversibility: An EMIC Intercomparison. Journal of Climate, 2013, 26, 5782-5809.	3.2	208
93	Allowable carbon emissions lowered by multiple climate targets. Nature, 2013, 499, 197-201.	27.8	105
94	Taking Action Against Ocean Acidification: A Review of Management and Policy Options. Environmental Management, 2013, 52, 761-779.	2.7	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.	2.4	9
96	Multiple greenhouse-gas feedbacks from the land biosphere under future climate change scenarios. Nature Climate Change, 2013, 3, 666-672.	18.8	209
97	Impact of an abrupt cooling event on interglacial methane emissions in northern peatlands. Biogeosciences, 2013, 10, 1963-1981.	3.3	30
98	Anthropogenic perturbation of the carbon fluxes from land to ocean. Nature Geoscience, 2013, 6, 597-607.	12.9	937
99	Atmospheric CO <sub>2</sub> response to volcanic eruptions: The role of ENSO, season, and variability. Global Biogeochemical Cycles, 2013, 27, 239-251.	4.9	53
100	The past ecology of <i>Abies alba</i> provides new perspectives on future responses of silver fir forests to global warming. Ecological Monographs, 2013, 83, 419-439.	5.4	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.	4.9	517
102	Oxygen and indicators of stress for marine life in multi-model global warming projections. Biogeosciences, 2013, 10, 1849-1868.	3.3	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.	3.4	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.	3.4	102
105	A reconstruction of radiocarbon production and total solar irradiance from the Holocene $\delta^{14}\text{C}$ and CO <sub>2</sub> records: implications of data and model uncertainties. Climate of the Past, 2013, 9, 1879-1909.	3.4	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.	3.4	90
107	Climate forcing reconstructions for use in PMIP simulations of the Last Millennium (v1.1). Geoscientific Model Development, 2012, 5, 185-191.	3.6	238
108	Simulating atmospheric CO <sub>2</sub> , $\delta^{13}\text{C}$ and the marine carbon cycle during the Last Glacial-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.	3.0	83



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109	Model limits on the role of volcanic carbon emissions in regulating glacial–interglacial CO <sub>2</sub> variations. <i>Earth and Planetary Science Letters</i> , 2012, 329-330, 141-149.	4.4	22
110	Stability of the Atlantic meridional overturning circulation: A model intercomparison. <i>Geophysical Research Letters</i> , 2012, 39, .	4.0	185
111	Toward explaining the Holocene carbon dioxide and carbon isotope records: Results from transient ocean carbon cycle–climate simulations. <i>Paleoceanography</i> , 2012, 27, .	3.0	41
112	Sensitivity of Nd isotopic composition in seawater to changes in Nd sources and paleoceanographic implications. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	21
113	On the relationship between Nd isotopic composition and ocean overturning circulation in idealized freshwater discharge events. <i>Paleoceanography</i> , 2012, 27, .	3.0	16
114	Carbon Isotope Constraints on the Deglacial CO <sub>2</sub> Rise from Ice Cores. <i>Science</i> , 2012, 336, 711-714.	12.6	339
115	The Effects of Land Use and Management on the Global Carbon Cycle. <i>Remote Sensing and Digital Image Processing</i> , 2012, , 237-256.	0.7	2
116	A Coupled Dynamical Ocean–Energy Balance Atmosphere Model for Paleoclimate Studies. <i>Journal of Climate</i> , 2011, 24, 349-375.	3.2	87
117	Modelling Nd-isotopes with a coarse resolution ocean circulation model: Sensitivities to model parameters and source/sink distributions. <i>Geochimica Et Cosmochimica Acta</i> , 2011, 75, 5927-5950.	3.9	136
118	Sensitivity of atmospheric CO <sub>2</sub> and climate to explosive volcanic eruptions. <i>Biogeosciences</i> , 2011, 8, 2317-2339.	3.3	46
119	Deep ocean ventilation, carbon isotopes, marine sedimentation and the deglacial CO <sub>2</sub> rise. <i>Climate of the Past</i> , 2011, 7, 771-800.	3.4	107
120	Sensitivity of Holocene atmospheric CO <sub>2</sub> and the modern carbon budget to early human land use: analyses with a process-based model. <i>Biogeosciences</i> , 2011, 8, 69-88.	3.3	92
121	Fingerprints of changes in the terrestrial carbon cycle in response to large reorganizations in ocean circulation. <i>Climate of the Past</i> , 2011, 7, 319-338.	3.4	50
122	Sensitivity of pelagic calcification to ocean acidification. <i>Biogeosciences</i> , 2011, 8, 433-458.	3.3	47
123	Climate forcing reconstructions for use in PMIP simulations of the last millennium (v1.0). <i>Geoscientific Model Development</i> , 2011, 4, 33-45.	3.6	349
124	Constraining global methane emissions and uptake by ecosystems. <i>Biogeosciences</i> , 2011, 8, 1643-1665.	3.3	202
125	Regional Impacts of Climate Change and Atmospheric CO <sub>2</sub> on Future Ocean Carbon Uptake: A Multimodel Linear Feedback Analysis. <i>Journal of Climate</i> , 2011, 24, 2300-2318.	3.2	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. <i>Climate Dynamics</i> , 2010, 35, 1439-1459.	3.8	98
128	Ensemble reconstruction constraints on the global carbon cycle sensitivity to climate. <i>Nature</i> , 2010, 463, 527-530.	27.8	256
129	Misrepresentation of the IPCC CO <sub>2</sub> emission scenarios. <i>Nature Geoscience</i> , 2010, 3, 376-377.	12.9	66
130	Projected 21st century decrease in marine productivity: a multi-model analysis. <i>Biogeosciences</i> , 2010, 7, 979-1005.	3.3	520
131	The role of Southern Ocean processes in orbital and millennial CO <sub>2</sub> variations – A synthesis. <i>Quaternary Science Reviews</i> , 2010, 29, 193-205.	3.0	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. <i>Quaternary Science Reviews</i> , 2010, 29, 129-145.	3.0	143
133	Carbon sources and sinks from an Ensemble Kalman Filter ocean data assimilation. <i>Global Biogeochemical Cycles</i> , 2010, 24, .	4.9	20
134	The role of ocean transport in the uptake of anthropogenic CO <sub>2</sub> . <i>Biogeosciences</i> , 2009, 6, 375-390.	3.3	93
135	Imminent ocean acidification in the Arctic projected with the NCAR global coupled carbon cycle-climate model. <i>Biogeosciences</i> , 2009, 6, 515-533.	3.3	417
136	CO <sub>2</sub> and non-CO <sub>2</sub> radiative forcings in climate projections for twenty-first century mitigation scenarios. <i>Climate Dynamics</i> , 2009, 33, 737-749.	3.8	20
137	Stable isotope constraints on Holocene carbon cycle changes from an Antarctic ice core. <i>Nature</i> , 2009, 461, 507-510.	27.8	203
138	Regional air-sea fluxes of anthropogenic carbon inferred with an Ensemble Kalman Filter. <i>Global Biogeochemical Cycles</i> , 2009, 23, .	4.9	34
139	Natural variability and anthropogenic trends in oceanic oxygen in a coupled carbon cycle-climate model ensemble. <i>Global Biogeochemical Cycles</i> , 2009, 23, .	4.9	143
140	Oceanic sources, sinks, and transport of atmospheric CO <sub>2</sub> . <i>Global Biogeochemical Cycles</i> , 2009, 23, .	4.9	455
141	Temperature increase of 21st century mitigation scenarios. <i>IOP Conference Series: Earth and Environmental Science</i> , 2009, 6, 492012.	0.3	0
142	Climate and human influences on global biomass burning over the past two millennia. <i>Nature Geoscience</i> , 2008, 1, 697-702.	12.9	686
143	Modeled natural and excess radiocarbon: Sensitivities to the gas exchange formulation and ocean transport strength. <i>Global Biogeochemical Cycles</i> , 2008, 22, .	4.9	70
144	A modeling assessment of the interplay between aeolian iron fluxes and iron-binding ligands in controlling carbon dioxide fluctuations during Antarctic warm events. <i>Paleoceanography</i> , 2008, 23, .	3.0	76

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145	Mid- to Late Holocene climate change: an overview. <i>Quaternary Science Reviews</i> , 2008, 27, 1791-1828.	3.0	1,389
146	How important are Southern Hemisphere wind changes for low glacial carbon dioxide? A model study. <i>Paleoceanography</i> , 2008, 23, .	3.0	81
147	Rates of change in natural and anthropogenic radiative forcing over the past 20,000 years. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008, 105, 1425-1430.	7.1	366
148	Long-Term Climate Commitments Projected with Climateâ€“Carbon Cycle Models. <i>Journal of Climate</i> , 2008, 21, 2721-2751.	3.2	232
149	Temperature increase of 21st century mitigation scenarios. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008, 105, 15258-15262.	7.1	139
150	Climate-induced interannual variability of marine primary and export production in three global coupled climate carbon cycle models. <i>Biogeosciences</i> , 2008, 5, 597-614.	3.3	104
151	Modeling the marine aragonite cycle: changes under rising carbon dioxide and its role in shallow water $\text{CaCO}_3$ dissolution. <i>Biogeosciences</i> , 2008, 5, 1057-1072.	3.3	67
152	Solar influence on climate during the past millennium: Results from transient simulations with the NCAR Climate System Model. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007, 104, 3713-3718.	7.1	323
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