Pierre Friedlingstein

List of Publications by Year
in descending order

242 papers	67,681 citations	1536 106 h-index	1009 236 g-index
327 all docs	327 docs citations	327 times ranked	47370 citing authors

#	Article	IF	Citations
1	Can a strong atmospheric CO₂ rectifier effect be reconciled with a “reasonable” carbon budget?. Tellus, Series B: Chemical and Physical Meteorology, 2022, 51, 249.	1.6	34
2	How positive is the feedback between climate change and the carbon cycle?. Tellus, Series B: Chemical and Physical Meteorology, 2022, 55, 692.	1.6	67
3	The relationship between peak warming and cumulative CO₂ emissions, and its use to quantify vulnerabilities in the carbonâ€“climateâ€“human system. Tellus, Series B: Chemical and Physical Meteorology, 2022, 63, 145.	1.6	58
4	Vegetation responses to climate extremes recorded by remotely sensed atmospheric formaldehyde. Global Change Biology, 2022, 28, 1809-1822.	9.5	14
5	Three-dimensional transport and concentration of SF₆ A model intercomparison study (TransCom 2). Tellus, Series B: Chemical and Physical Meteorology, 2022, 51, 266.	1.6	88
6	Indicate separate contributions of long-lived and short-lived greenhouse gases in emission targets. Npj Climate and Atmospheric Science, 2022, 5, 5.	6.8	36
7	Are Landâ€Use Change Emissions in Southeast Asia Decreasing or Increasing?. Global Biogeochemical Cycles, 2022, 36, .	4.9	7
8	Fragmentation-Driven Divergent Trends in Burned Area in Amazonia and Cerrado. Frontiers in Forests and Global Change, 2022, 5, .	2.3	8
9	Global fossil carbon emissions rebound near pre-COVID-19 levels. Environmental Research Letters, 2022, 17, 031001.	5.2	42
10	Are Terrestrial Biosphere Models Fit for Simulating the Global Land Carbon Sink?. Journal of Advances in Modeling Earth Systems, 2022, 14, .	3.8	28
11	Investigating the response of leaf area index to droughts in southern African vegetation using observations and model simulations. Hydrology and Earth System Sciences, 2022, 26, 2045-2071.	4.9	5
12	Global Carbon Budget 2021. Earth System Science Data, 2022, 14, 1917-2005.	9.9	663
13	Global patterns of daily CO2 emissions reductions in the first year of COVID-19. Nature Geoscience, 2022, 15, 615-620.	12.9	46
14	Leaching of dissolved organic carbon from mineral soils plays a significant role in the terrestrial carbon balance. Global Change Biology, 2021, 27, 1083-1096.	9.5	47
15	Ten new insights in climate science 2020 â€“ a horizon scan. Global Sustainability, 2021, 4, .	3.3	17
16	Peak growing season patterns and climate extremes-driven responses of gross primary production estimated by satellite and process based models over North America. Agricultural and Forest Meteorology, 2021, 298-299, 108292.	4.8	12
17	Predictable Variations of the Carbon Sinks and Atmospheric CO₂Growth in a Multiâ€Model Framework. Geophysical Research Letters, 2021, 48, e2020GL090695.	4.0	17
18	Climate model projections from the Scenario Model Intercomparison ProjectÂ(ScenarioMIP) of CMIP6. Earth System Dynamics, 2021, 12, 253-293.	7.1	236

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19	Fossil CO2 emissions in the post-COVID-19 era. Nature Climate Change, 2021, 11, 197-199.	18.8	171
20	JULES-CN: a coupled terrestrial carbonâ€“nitrogen scheme (JULES vn5.1). Geoscientific Model Development, 2021, 14, 2161-2186.	3.6	32
21	Greening drylands despite warming consistent with carbon dioxide fertilization effect. Global Change Biology, 2021, 27, 3336-3349.	9.5	50
22	Linking global terrestrial CO₂ fluxes and environmental drivers: inferences from the Orbiting Carbon ObservatoryÂ2 satellite and terrestrial biospheric models. Atmospheric Chemistry and Physics, 2021, 21, 6663-6680.	4.9	10
23	Five years of variability in the global carbon cycle: comparing an estimate from the Orbiting Carbon Observatory-2 and process-based models. Environmental Research Letters, 2021, 16, 054041.	5.2	8
24	A multi-data assessment of land use and land cover emissions from Brazil during 2000â€“2019. Environmental Research Letters, 2021, 16, 074004.	5.2	33
25	Slowdown of the greening trend in natural vegetation with further rise in atmospheric CO₂. Biogeosciences, 2021, 18, 4985-5010.	3.3	49
26	Quantifying non-CO2 contributions to remaining carbon budgets. Npj Climate and Atmospheric Science, 2021, 4, .	6.8	10
27	Response of global land evapotranspiration to climate change, elevated CO2, and land use change. Agricultural and Forest Meteorology, 2021, 311, 108663.	4.8	39
28	Aerosolâ€“light interactions reduce the carbon budget imbalance. Environmental Research Letters, 2021, 16, 124072.	5.2	10
29	Process-based analysis of terrestrial carbon flux predictability. Earth System Dynamics, 2021, 12, 1413-1426.	7.1	2
30	Interannual variation of terrestrial carbon cycle: Issues and perspectives. Global Change Biology, 2020, 26, 300-318.	9.5	214
31	State of the science in reconciling topâ€down and bottomâ€up approaches for terrestrial CO₂ budget. Global Change Biology, 2020, 26, 1068-1084.	9.5	43
32	Carbon dioxide emissions continue to grow amidst slowly emerging climate policies. Nature Climate Change, 2020, 10, 3-6.	18.8	324
33	Forest production efficiency increases with growth temperature. Nature Communications, 2020, 11, 5322.	12.8	57
34	Global carbon budgets: determining limits on fossil fuel emissions. Weather, 2020, 75, 210-211.	0.7	5
35	Climateâ€Driven Variability and Trends in Plant Productivity Over Recent Decades Based on Three Global Products. Global Biogeochemical Cycles, 2020, 34, e2020GB006613.	4.9	36
36	Opportunities and challenges in using remaining carbon budgets to guide climate policy. Nature Geoscience, 2020, 13, 769-779.	12.9	68

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37	How Simulations of the Land Carbon Sink Are Biased by Ignoring Fluvial Carbon Transfers: A Case Study for the Amazon Basin. One Earth, 2020, 3, 226-236.	6.8	26
38	Constraining Uncertainty in Projected Gross Primary Production With Machine Learning. Journal of Geophysical Research G: Biogeosciences, 2020, 125, e2019JG005619.	3.0	21
39	A spatial emergent constraint on the sensitivity of soil carbon turnover to global warming. Nature Communications, 2020, 11, 5544.	12.8	50
40	Impacts of extreme summers on European ecosystems: a comparative analysis of 2003, 2010 and 2018. Philosophical Transactions of the Royal Society B: Biological Sciences, 2020, 375, 20190507.	4.0	64
41	Recent global decline of CO ₂ fertilization effects on vegetation photosynthesis. Science, 2020, 370, 1295-1300.	12.6	317
42	Temporary reduction in daily global CO2 emissions during the COVID-19 forced confinement. Nature Climate Change, 2020, 10, 647-653.	18.8	1,408
43	Comparison of forest aboveâ€ground biomass from dynamic global vegetation models with spatially explicit remotely sensed observationâ€based estimates. Global Change Biology, 2020, 26, 3997-4012.	9.5	25
44	Causes of slowingâ€down seasonal CO₂ amplitude at Mauna Loa. Global Change Biology, 2020, 26, 4462-4477.	9.5	14
45	Direct and seasonal legacy effects of the 2018 heat wave and drought on European ecosystem productivity. Science Advances, 2020, 6, eaba2724.	10.3	229
46	Increased control of vegetation on global terrestrial energy fluxes. Nature Climate Change, 2020, 10, 356-362.	18.8	152
47	Enhanced regional terrestrial carbon uptake over Korea revealed by atmospheric CO 2 measurements from 1999 to 2017. Global Change Biology, 2020, 26, 3368-3383.	9.5	7
48	The Global Distribution of Biological Nitrogen Fixation in Terrestrial Natural Ecosystems. Global Biogeochemical Cycles, 2020, 34, e2019GB006387.	4.9	77
49	Evaluation of global terrestrial evapotranspiration using state-of-the-art approaches in remote sensing, machine learning and land surface modeling. Hydrology and Earth System Sciences, 2020, 24, 1485-1509.	4.9	130
50	Sources of Uncertainty in Regional and Global Terrestrial CO₂ Exchange Estimates. Global Biogeochemical Cycles, 2020, 34, e2019GB006393.	4.9	59
51	Quantifying process-level uncertainty contributions to TCRE and carbon budgets for meeting Paris Agreement climate targets. Environmental Research Letters, 2020, 15, 074019.	5.2	27
52	Carbonâ€“concentration and carbonâ€“climate feedbacks in CMIP6 models and their comparison to CMIP5 models. Biogeosciences, 2020, 17, 4173-4222.	3.3	255
53	Nitrogen cycling in CMIP6 land surface models: progress and limitations. Biogeosciences, 2020, 17, 5129-5148.	3.3	60
54	Spatially resolved evaluation of Earth system models with satellite column-averaged CO₂. Biogeosciences, 2020, 17, 6115-6144.	3.3	8

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55	Global Carbon Budget 2020. Earth System Science Data, 2020, 12, 3269-3340.	9.9	1,477
56	ESD Reviews: Climate feedbacks in the Earth system and prospects for their evaluation. Earth System Dynamics, 2019, 10, 379-452.	7.1	46
57	Comment on â€œThe global tree restoration potentialâ€ Science, 2019, 366, .	12.6	67
58	Contrasting effects of CO₂ fertilization, land-use change and warming on seasonal amplitude of Northern Hemisphere CO₂ exchange. Atmospheric Chemistry and Physics, 2019, 19, 12361-12375.	4.9	30
59	Negative extreme events in gross primary productivity and their drivers in China during the past three decades. Agricultural and Forest Meteorology, 2019, 275, 47-58.	4.8	40
60	Controlling factors for land productivity under extreme climatic events in continental Europe and the Mediterranean Basin. Catena, 2019, 182, 104124.	5.0	14
61	Growing season extension affects ozone uptake by European forests. Science of the Total Environment, 2019, 669, 1043-1052.	8.0	27
62	Persistent fossil fuel growth threatens the Paris Agreement and planetary health. Environmental Research Letters, 2019, 14, 121001.	5.2	133
63	Global trends in carbon sinks and their relationships with CO2 and temperature. Nature Climate Change, 2019, 9, 73-79.	18.8	163
64	Global Carbon Budget 2019. Earth System Science Data, 2019, 11, 1783-1838.	9.9	1,159
65	Recent Changes in Global Photosynthesis and Terrestrial Ecosystem Respiration Constrained From Multiple Observations. Geophysical Research Letters, 2018, 45, 1058-1068.	4.0	19
66	The utility of the historical record for assessing the transient climate response to cumulative emissions. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2018, 376, 20160449.	3.4	24
67	Changes in climate extremes, fresh water availability and vulnerability to food insecurity projected at 1.5Â°C and 2Â°C global warming with a higher-resolution global climate model. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2018, 376, 20160452.	3.4	110
68	Land use change and El NiÃ±o-Southern Oscillation drive decadal carbon balance shifts in Southeast Asia. Nature Communications, 2018, 9, 1154.	12.8	28
69	Reply to â€˜Interpretations of the Paris climate targetâ€™. Nature Geoscience, 2018, 11, 222-222.	12.9	8
70	On the causes of trends in the seasonal amplitude of atmospheric <scp>CO</scp>₂. Global Change Biology, 2018, 24, 608-616.	9.5	48
71	Widespread seasonal compensation effects of spring warming on northern plant productivity. Nature, 2018, 562, 110-114.	27.8	240
72	Reconciling global-model estimates and country reporting of anthropogenic forest CO2 sinks. Nature Climate Change, 2018, 8, 914-920.	18.8	101

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73	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.	4.0	63
74	Contrasting interannual atmospheric CO₂ variabilities and their terrestrial mechanisms for two types of El NiÃ±os. Atmospheric Chemistry and Physics, 2018, 18, 10333-10345.	4.9	17
75	Latitudinal limits to the predicted increase of the peatland carbon sink with warming. Nature Climate Change, 2018, 8, 907-913.	18.8	188
76	Representation of dissolved organic carbon in the JULES land surface model (vn4.4_JULES-DOCM). Geoscientific Model Development, 2018, 11, 593-609.	3.6	21
77	Vegetation distribution and terrestrial carbon cycle in a carbon cycle configuration of JULES4.6 with new plant functional types. Geoscientific Model Development, 2018, 11, 2857-2873.	3.6	49
78	Lower land-use emissions responsible for increased net land carbon sink during the slow warming period. Nature Geoscience, 2018, 11, 739-743.	12.9	110
79	Largeâ€Scale Droughts Responsible for Dramatic Reductions of Terrestrial Net Carbon Uptake Over North America in 2011 and 2012. Journal of Geophysical Research G: Biogeosciences, 2018, 123, 2053-2071.	3.0	35
80	Global Carbon Budget 2018. Earth System Science Data, 2018, 10, 2141-2194.	9.9	1,167
81	Global Carbon Budget 2017. Earth System Science Data, 2018, 10, 405-448.	9.9	801
82	Accelerating net terrestrial carbon uptake during the warming hiatus due to reduced respiration. Nature Climate Change, 2017, 7, 148-152.	18.8	151
83	Historical carbon dioxide emissions caused by land-use changes are possibly larger than assumed. Nature Geoscience, 2017, 10, 79-84.	12.9	284
84	Compensatory water effects link yearly global land CO2 sink changes to temperature. Nature, 2017, 541, 516-520.	27.8	480
85	Benchmarking CMIP5 models with a subset of ESA CCI Phase 2 data using the ESMValTool. Remote Sensing of Environment, 2017, 203, 9-39.	11.0	34
86	Estimating Carbon Budgets for Ambitious Climate Targets. Current Climate Change Reports, 2017, 3, 69-77.	8.6	52
87	An observation-based constraint on permafrost loss as a function of global warming. Nature Climate Change, 2017, 7, 340-344.	18.8	257
88	Climate mitigation from vegetation biophysical feedbacks during the past three decades. Nature Climate Change, 2017, 7, 432-436.	18.8	323
89	Emission budgets and pathways consistent with limiting warming to 1.5â€‰Â°C. Nature Geoscience, 2017, 10, 741-747.	12.9	422
90	Towards real-time verification of CO2 emissions. Nature Climate Change, 2017, 7, 848-850.	18.8	168

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91	A modified impulse-response representation of the global near-surface air temperature and atmospheric concentration response to carbon dioxide emissions. Atmospheric Chemistry and Physics, 2017, 17, 7213-7228.	4.9	120
92	Quantifying uncertainties of permafrost carbonâ€“climate feedbacks. Biogeosciences, 2017, 14, 3051-3066.	3.3	59
93	The decreasing range between dry- and wet- season precipitation over land and its effect on vegetation primary productivity. PLoS ONE, 2017, 12, e0190304.	2.5	27
94	C4MIP â€“ The Coupled Climateâ€“Carbon Cycle Model Intercomparison Project: experimental protocol for CMIP6. Geoscientific Model Development, 2016, 9, 2853-2880.	3.6	186
95	Role of CO₂, climate and land use in regulating the seasonal amplitude increase of carbon fluxes in terrestrial ecosystems: a multimodel analysis. Biogeosciences, 2016, 13, 5121-5137.	3.3	26
96	The carbon cycle in Mexico: past, present and future of C stocks and fluxes. Biogeosciences, 2016, 13, 223-238.	3.3	24
97	The Scenario Model Intercomparison Project (ScenarioMIP) for CMIP6. Geoscientific Model Development, 2016, 9, 3461-3482.	3.6	2,084
98	ESMValTool (v1.0) â€“ a community diagnostic and performance metrics tool for routine evaluation of Earth system models in CMIP. Geoscientific Model Development, 2016, 9, 1747-1802.	3.6	127
99	Improved representation of plant functional types and physiology in the Joint UK Land Environment Simulator (JULES v4.2) using plant trait information. Geoscientific Model Development, 2016, 9, 2415-2440.	3.6	115
100	The status and challenge of global fire modelling. Biogeosciences, 2016, 13, 3359-3375.	3.3	274
101	Comparing concentrationâ€based (AOT40) and stomatal uptake (PODY) metrics for ozone risk assessment to European forests. Global Change Biology, 2016, 22, 1608-1627.	9.5	83
102	The dry season intensity as a key driver of NPP trends. Geophysical Research Letters, 2016, 43, 2632-2639.	4.0	60
103	The terrestrial carbon budget of South and Southeast Asia. Environmental Research Letters, 2016, 11, 105006.	5.2	39
104	Simulating the Earth system response to negative emissions. Environmental Research Letters, 2016, 11, 095012.	5.2	98
105	Observation and integrated Earth-system science: A roadmap for 2016â€“2025. Advances in Space Research, 2016, 57, 2037-2103.	2.6	35
106	The cumulative carbon budget and its implications. Oxford Review of Economic Policy, 2016, 32, 323-342.	1.9	47
107	Greening of the Earth and its drivers. Nature Climate Change, 2016, 6, 791-795.	18.8	1,675
108	Projected land photosynthesis constrained by changes in the seasonal cycle of atmospheric CO2. Nature, 2016, 538, 499-501.	27.8	137

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109	European land CO2 sink influenced by NAO and East-Atlantic Pattern coupling. Nature Communications, 2016, 7, 10315.	12.8	74
110	Reducing uncertainties in decadal variability of the global carbon budget with multiple datasets. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 13104-13108.	7.1	39
111	Mapping the climate change challenge. Nature Climate Change, 2016, 6, 663-668.	18.8	75
112	Biophysical and economic limits to negative CO2 emissions. Nature Climate Change, 2016, 6, 42-50.	18.8	973
113	Differences between carbon budget estimates unravelled. Nature Climate Change, 2016, 6, 245-252.	18.8	228
114	The terrestrial biosphere as a net source of greenhouse gases to the atmosphere. Nature, 2016, 531, 225-228.	27.8	402
115	Global Carbon Budget 2016. Earth System Science Data, 2016, 8, 605-649.	9.9	905
116	More frequent moments in the climate change debate as emissions continue. Environmental Research Letters, 2015, 10, 121001.	5.2	2
117	Spatiotemporal patterns of terrestrial gross primary production: A review. Reviews of Geophysics, 2015, 53, 785-818.	23.0	432
118	Multicriteria evaluation of discharge simulation in Dynamic Global Vegetation Models. Journal of Geophysical Research D: Atmospheres, 2015, 120, 7488-7505.	3.3	25
119	Impact of model developments on present and future simulations of permafrost in a global land-surface model. Cryosphere, 2015, 9, 1505-1521.	3.9	54
120	Recent trends and drivers of regional sources and sinks of carbon dioxide. Biogeosciences, 2015, 12, 653-679.	3.3	587
121	Controls on terrestrial carbon feedbacks by productivity versus turnover in the CMIP5 Earth System Models. Biogeosciences, 2015, 12, 5211-5228.	3.3	81
122	The dominant role of semi-arid ecosystems in the trend and variability of the land CO ₂ sink. Science, 2015, 348, 895-899.	12.6	1,002
123	The Origin and Limits of the Near Proportionality between Climate Warming and Cumulative CO2 Emissions. Journal of Climate, 2015, 28, 4217-4230.	3.2	83
124	Measuring a fair and ambitious climate agreement using cumulative emissions. Environmental Research Letters, 2015, 10, 105004.	5.2	103
125	An improved representation of physical permafrost dynamics in the JULES land-surface model. Geoscientific Model Development, 2015, 8, 1493-1508.	3.6	79
126	Water-use efficiency and transpiration across European forests during the Anthropocene. Nature Climate Change, 2015, 5, 579-583.	18.8	357

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127	Carbon cycle feedbacks and future climate change. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2015, 373, 20140421.	3.4	67
128	Global Carbon Budget 2015. Earth System Science Data, 2015, 7, 349-396.	9.9	616
129	Global carbon budget 2014. Earth System Science Data, 2015, 7, 47-85.	9.9	463
130	Fractal properties of forest fires in Amazonia as a basis for modelling pan-tropical burnt area. Biogeosciences, 2014, 11, 1449-1459.	3.3	7
131	Global carbon budget 2013. Earth System Science Data, 2014, 6, 235-263.	9.9	311
132	Modelling the role of fires in the terrestrial carbon balance by incorporating SPITFIRE into the global vegetation model ORCHIDEE â€“ Part 1: simulating historical global burned area and fire regimes. Geoscientific Model Development, 2014, 7, 2747-2767.	3.6	109
133	A two-fold increase of carbon cycle sensitivity to tropical temperature variations. Nature, 2014, 506, 212-215.	27.8	284
134	Uncertainties in CMIP5 Climate Projections due to Carbon Cycle Feedbacks. Journal of Climate, 2014, 27, 511-526.	3.2	870
135	Evidence for a weakening relationship between interannual temperature variability and northern vegetation activity. Nature Communications, 2014, 5, 5018.	12.8	414
136	Persistent growth of CO2 emissions and implications for reaching climate targets. Nature Geoscience, 2014, 7, 709-715.	12.9	615
137	Sharing a quota on cumulative carbon emissions. Nature Climate Change, 2014, 4, 873-879.	18.8	295
138	Emergent constraints on climateâ€carbon cycle feedbacks in the CMIP5 Earth system models. Journal of Geophysical Research G: Biogeosciences, 2014, 119, 794-807.	3.0	113
139	Long-Term Climate Change Commitment and Reversibility: An EMIC Intercomparison. Journal of Climate, 2013, 26, 5782-5809.	3.2	208
140	Assessing the Reliability of Climate Models, CMIP5. , 2013, , 237-248.		5
141	Sensitivity of tropical carbon to climate change constrained by carbon dioxide variability. Nature, 2013, 494, 341-344.	27.8	608
142	Climate change projections using the IPSL-CM5 Earth System Model: from CMIP3 to CMIP5. Climate Dynamics, 2013, 40, 2123-2165.	3.8	1,425
143	Does the integration of the dynamic nitrogen cycle in a terrestrial biosphere model improve the long-term trend of the leaf area index?. Climate Dynamics, 2013, 40, 2535-2548.	3.8	8
144	Evaluating the Land and Ocean Components of the Global Carbon Cycle in the CMIP5 Earth System Models. Journal of Climate, 2013, 26, 6801-6843.	3.2	398

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145	Effect of Anthropogenic Land-Use and Land-Cover Changes on Climate and Land Carbon Storage in CMIP5 Projections for the Twenty-First Century. Journal of Climate, 2013, 26, 6859-6881.	3.2	329
146	Atmospheric Composition, Irreversible Climate Change, and Mitigation Policy. , 2013, , 415-436.		6
147	Attributing the increase in atmospheric CO2 to emitters and absorbers. Nature Climate Change, 2013, 3, 926-930.	18.8	63
148	Anthropogenic perturbation of the carbon fluxes from land to ocean. Nature Geoscience, 2013, 6, 597-607.	12.9	937
149	Carbon Dioxide and Climate: Perspectives on a Scientific Assessment. , 2013, , 391-413.		48
150	Evaluation of terrestrial carbon cycle models for their response to climate variability and to <scp><scp>CO₂</scp></scp> trends. Global Change Biology, 2013, 19, 2117-2132.	9.5	617
151	A unifying conceptual model for the environmental responses of isoprene emissions from plants. Annals of Botany, 2013, 112, 1223-1238.	2.9	66
152	Carbonâ€"Concentration and Carbonâ€"Climate Feedbacks in CMIP5 Earth System Models. Journal of Climate, 2013, 26, 5289-5314.	3.2	576
153	Twenty-First-Century Compatible CO2 Emissions and Airborne Fraction Simulated by CMIP5 Earth System Models under Four Representative Concentration Pathways. Journal of Climate, 2013, 26, 4398-4413.	3.2	248
154	The global carbon budget 1959â€"2011. Earth System Science Data, 2013, 5, 165-185.	9.9	527
155	Evaluation of Land Surface Models in Reproducing Satellite-Derived LAI over the High-Latitude Northern Hemisphere. Part I: Uncoupled DGVMs. Remote Sensing, 2013, 5, 4819-4838.	4.0	82
156	Scenario and modelling uncertainty in global mean temperature change derived from emission-driven global climate models. Earth System Dynamics, 2013, 4, 95-108.	7.1	36
157	Delayed detection of climate mitigation benefits due to climate inertia and variability. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 17229-17234.	7.1	40
158	Change in snow phenology and its potential feedback to temperature in the Northern Hemisphere over the last three decades. Environmental Research Letters, 2013, 8, 014008.	5.2	125
159	Evaluation of Land Surface Models in Reproducing Satellite Derived Leaf Area Index over the High-Latitude Northern Hemisphere. Part II: Earth System Models. Remote Sensing, 2013, 5, 3637-3661.	4.0	75
160	Evaluation of biospheric components in Earth system models using modern and palaeo-observations: the state-of-the-art. Biogeosciences, 2013, 10, 8305-8328.	3.3	11
161	Response to Comment on â€œSurface Urban Heat Island Across 419 Global Big Citiesâ€• Environmental Science & Technology, 2012, 46, 6889-6890.	10.0	15
162	Surface Urban Heat Island Across 419 Global Big Cities. Environmental Science & Technology, 2012, 46, 696-703.	10.0	864

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163	A global model for the uptake of atmospheric hydrogen by soils. Global Biogeochemical Cycles, 2012, 26, .	4.9	11
164	Predictability of biomass burning in response to climate changes. Global Biogeochemical Cycles, 2012, 26, .	4.9	201
165	Modelling sub-grid wetland in the ORCHIDEE global land surface model: evaluation against river discharges and remotely sensed data. Geoscientific Model Development, 2012, 5, 941-962.	3.6	58
166	A framework for benchmarking land models. Biogeosciences, 2012, 9, 3857-3874.	3.3	267
167	Limitations of single-basket trading: lessons from the Montreal Protocol for climate policy. Climatic Change, 2012, 111, 241-248.	3.6	40
168	How Good are Chemistry-Climate Models?. Research Topics in Aerospace, 2012, , 763-779.	0.7	0
169	Modeling fire and the terrestrial carbon balance. Global Biogeochemical Cycles, 2011, 25, n/a-n/a.	4.9	152
170	Long-term climate implications of twenty-first century options for carbon dioxide emissionÂmitigation. Nature Climate Change, 2011, 1, 457-461.	18.8	87
171	Contribution of climate change and rising CO2 to terrestrial carbon balance in East Asia: A multi-model analysis. Global and Planetary Change, 2011, 75, 133-142.	3.5	84
172	Late Holocene methane rise caused by orbitally controlled increase in tropical sources. Nature, 2011, 470, 82-85.	27.8	145
173	Climate-CH₄ feedback from wetlands and its interaction with the climate-CO₂ feedback. Biogeosciences, 2011, 8, 2137-2157.	3.3	90
174	The HadGEM2-ES implementation of CMIP5 centennial simulations. Geoscientific Model Development, 2011, 4, 543-570.	3.6	803
175	Forest annual carbon cost: reply. Ecology, 2011, 92, 1998-2002.	3.2	3
176	Permafrost carbon-climate feedbacks accelerate global warming. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 14769-14774.	7.1	742
177	Spring temperature change and its implication in the change of vegetation growth in North America from 1982 to 2006. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 1240-1245.	7.1	432
178	Carbonâ€“climate feedbacks: a review of model and observation based estimates. Current Opinion in Environmental Sustainability, 2010, 2, 251-257.	6.3	94
179	Key features of the IPSL ocean atmosphere model and its sensitivity to atmospheric resolution. Climate Dynamics, 2010, 34, 1-26.	3.8	235
180	Interactions of the carbon cycle, human activity, and the climate system: a research portfolio. Current Opinion in Environmental Sustainability, 2010, 2, 301-311.	6.3	62

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181	The impacts of climate change on water resources and agriculture in China. Nature, 2010, 467, 43-51.	27.8	2,656
182	Update on CO2 emissions. Nature Geoscience, 2010, 3, 811-812.	12.9	561
183	The African contribution to the global climate-carbon cycle feedback of the 21st century. Biogeosciences, 2010, 7, 513-519.	3.3	8
184	Forest annual carbon cost: a globalâ€scale analysis of autotrophic respiration. Ecology, 2010, 91, 652-661.	3.2	171
185	Persistence of climate changes due to a range of greenhouse gases. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 18354-18359.	7.1	144
186	Terrestrial nitrogen feedbacks may accelerate future climate change. Geophysical Research Letters, 2010, 37, .	4.0	230
187	Possible role of wetlands, permafrost, and methane hydrates in the methane cycle under future climate change: A review. Reviews of Geophysics, 2010, 48, .	23.0	199
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