

Stephen A Sitch

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

252
papers

44,626
citations

90
h-index

211
g-index

280
ext. papers

52,958
ext. citations

10.4
avg, IF

6.82
L-index

#	Paper	IF	Citations
252	Fragmentation-Driven Divergent Trends in Burned Area in Amazonia and Cerrado. <i>Frontiers in Forests and Global Change</i> , 2022 , 5,	3.7	1
251	VODCA2GPP is a new, global, long-term (1988-2020) gross primary production dataset from microwave remote sensing. <i>Earth System Science Data</i> , 2022 , 14, 1063-1085	10.5	1
250	Divergent historical GPP trends among state-of-the-art multi-model simulations and satellite-based products. <i>Earth System Dynamics</i> , 2022 , 13, 833-849	4.8	0
249	Comparing national greenhouse gas budgets reported in UNFCCC inventories against atmospheric inversions. <i>Earth System Science Data</i> , 2022 , 14, 1639-1675	10.5	3
248	Investigating the response of leaf area index to droughts in southern African vegetation using observations and model simulations. <i>Hydrology and Earth System Sciences</i> , 2022 , 26, 2045-2071	5.5	0
247	Global Carbon Budget 2021. <i>Earth System Science Data</i> , 2022 , 14, 1917-2005	10.5	47
246	Reduced global fire activity due to human demography slows global warming by enhanced land carbon uptake.. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2022 , 119, e2101186119	11.5	0
245	Bottom-up approaches for estimating terrestrial GHG budgets: Bookkeeping, process-based modeling, and data-driven methods 2022 , 59-85		
244	Assessing the representation of the Australian carbon cycle in global vegetation models. <i>Biogeosciences</i> , 2021 , 18, 5639-5668	4.6	7
243	Vulnerability of European ecosystems to two compound dry and hot summers in 2018 and 2019. <i>Earth System Dynamics</i> , 2021 , 12, 1015-1035	4.8	6
242	Response of global land evapotranspiration to climate change, elevated CO ₂ , and land use change. <i>Agricultural and Forest Meteorology</i> , 2021 , 311, 108663	5.8	10
241	Peak growing season patterns and climate extremes-driven responses of gross primary production estimated by satellite and process based models over North America. <i>Agricultural and Forest Meteorology</i> , 2021 , 298-299, 108292	5.8	5
240	Carbon loss from forest degradation exceeds that from deforestation in the Brazilian Amazon. <i>Nature Climate Change</i> , 2021 , 11, 442-448	21.4	58
239	JULES-CN: a coupled terrestrial carbon-nitrogen scheme (JULES vn5.1). <i>Geoscientific Model Development</i> , 2021 , 14, 2161-2186	6.3	9
238	Historical and future global burned area with changing climate and human demography. <i>One Earth</i> , 2021 , 4, 517-530	8.1	16
237	Modelled land use and land cover change emissions is a spatio-temporal comparison of different approaches. <i>Earth System Dynamics</i> , 2021 , 12, 635-670	4.8	10
236	Greening drylands despite warming consistent with carbon dioxide fertilization effect. <i>Global Change Biology</i> , 2021 , 27, 3336-3349	11.4	2

235	Linking global terrestrial CO ₂ fluxes and environmental drivers: inferences from the Orbiting Carbon Observatory-2 satellite and terrestrial biospheric models. <i>Atmospheric Chemistry and Physics</i> , 2021 , 21, 6663-6680	6.8	2
234	Regional variation in the effectiveness of methane-based and land-based climate mitigation options. <i>Earth System Dynamics</i> , 2021 , 12, 513-544	4.8	3
233	Five years of variability in the global carbon cycle: comparing an estimate from the Orbiting Carbon Observatory-2 and process-based models. <i>Environmental Research Letters</i> , 2021 , 16, 054041	6.2	2
232	A multi-data assessment of land use and land cover emissions from Brazil during 2000-2019. <i>Environmental Research Letters</i> , 2021 , 16, 074004	6.2	11
231	Integrating the evidence for a terrestrial carbon sink caused by increasing atmospheric CO ₂ . <i>New Phytologist</i> , 2021 , 229, 2413-2445	9.8	94
230	Large carbon sink potential of secondary forests in the Brazilian Amazon to mitigate climate change. <i>Nature Communications</i> , 2021 , 12, 1785	17.4	25
229	Increasing impact of warm droughts on northern ecosystem productivity over recent decades. <i>Nature Climate Change</i> , 2021 , 11, 772-779	21.4	14
228	Land-use harmonization datasets for annual global carbon budgets. <i>Earth System Science Data</i> , 2021 , 13, 4175-4189	10.5	7
227	Dynamic global vegetation models underestimate net CO ₂ flux mean and inter-annual variability in dryland ecosystems. <i>Environmental Research Letters</i> , 2021 , 16, 094023	6.2	5
226	Amazonian forest degradation must be incorporated into the COP26 agenda. <i>Nature Geoscience</i> , 2021 , 14, 634-635	18.3	8
225	Response to Comments on "Recent global decline of CO ₂ fertilization effects on vegetation photosynthesis". <i>Science</i> , 2021 , 373, eabg7484	33.3	2
224	Slowdown of the greening trend in natural vegetation with further rise in atmospheric CO ₂ . <i>Biogeosciences</i> , 2021 , 18, 4985-5010	4.6	11
223	Recent global decline of CO ₂ fertilization effects on vegetation photosynthesis. <i>Science</i> , 2020 , 370, 1295-1300	33.9	107
222	Comparison of forest above-ground biomass from dynamic global vegetation models with spatially explicit remotely sensed observation-based estimates. <i>Global Change Biology</i> , 2020 , 26, 3997-4012	11.4	10
221	How Climate Shapes the Functioning of Tropical Montane Cloud Forests. <i>Current Forestry Reports</i> , 2020 , 6, 97-114	8	1
220	Global ecosystems and fire: Multi-model assessment of fire-induced tree-cover and carbon storage reduction. <i>Global Change Biology</i> , 2020 , 26, 5027-5041	11.4	17
219	Causes of slowing-down seasonal CO ₂ amplitude at Mauna Loa. <i>Global Change Biology</i> , 2020 , 26, 4462-4477	11.4	9
218	Direct and seasonal legacy effects of the 2018 heat wave and drought on European ecosystem productivity. <i>Science Advances</i> , 2020 , 6, eaba2724	14.3	85

217	Increased control of vegetation on global terrestrial energy fluxes. <i>Nature Climate Change</i> , 2020 , 10, 356-362	21.4	55
216	Pathway dependence of ecosystem responses in China to 1.5 °C global warming. <i>Atmospheric Chemistry and Physics</i> , 2020 , 20, 2353-2366	6.8	4
215	Enhanced regional terrestrial carbon uptake over Korea revealed by atmospheric CO ₂ measurements from 1999 to 2017. <i>Global Change Biology</i> , 2020 , 26, 3368-3383	11.4	3
214	Shifts in national land use and food production in Great Britain after a climate tipping point. <i>Nature Food</i> , 2020 , 1, 76-83	14.4	10
213	Scaling carbon fluxes from eddy covariance sites to globe: synthesis and evaluation of the FLUXCOM approach. <i>Biogeosciences</i> , 2020 , 17, 1343-1365	4.6	134
212	Global Carbon Budget 2020. <i>Earth System Science Data</i> , 2020 , 12, 3269-3340	10.5	533
211	Quantitative assessment of fire and vegetation properties in simulations with fire-enabled vegetation models from the Fire Model Intercomparison Project. <i>Geoscientific Model Development</i> , 2020 , 13, 3299-3318	6.3	31
210	Calibrating soybean parameters in JULES 5.0 from the US-Ne2/3 FLUXNET sites and the SoyFACE-O ₂ experiment. <i>Geoscientific Model Development</i> , 2020 , 13, 6201-6213	6.3	0
209	Sources of Uncertainty in Regional and Global Terrestrial CO ₂ Exchange Estimates. <i>Global Biogeochemical Cycles</i> , 2020 , 34, e2019GB006393	5.9	23
208	Vegetation biomass change in China in the 20th century: an assessment based on a combination of multi-model simulations and field observations. <i>Environmental Research Letters</i> , 2020 , 15, 094026	6.2	3
207	Interannual variation of terrestrial carbon cycle: Issues and perspectives. <i>Global Change Biology</i> , 2020 , 26, 300-318	11.4	83
206	Stomatal optimization based on xylem hydraulics (SOX) improves land surface model simulation of vegetation responses to climate. <i>New Phytologist</i> , 2020 , 226, 1622-1637	9.8	48
205	State of the science in reconciling top-down and bottom-up approaches for terrestrial CO ₂ budget. <i>Global Change Biology</i> , 2020 , 26, 1068-1084	11.4	19
204	Forest production efficiency increases with growth temperature. <i>Nature Communications</i> , 2020 , 11, 5322	7.4	21
203	Climate-Driven Variability and Trends in Plant Productivity Over Recent Decades Based on Three Global Products. <i>Global Biogeochemical Cycles</i> , 2020 , 34, e2020GB006613	5.9	7
202	Impacts of extreme summers on European ecosystems: a comparative analysis of 2003, 2010 and 2018. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2020 , 375, 20190507	5.8	23
201	Evaluation of global terrestrial evapotranspiration using state-of-the-art approaches in remote sensing, machine learning and land surface modeling. <i>Hydrology and Earth System Sciences</i> , 2020 , 24, 1485-1509	5.5	52
200	Negative extreme events in gross primary productivity and their drivers in China during the past three decades. <i>Agricultural and Forest Meteorology</i> , 2019 , 275, 47-58	5.8	17

199	Historical (1700-2012) Global Multi-model Estimates of the Fire Emissions from the Fire Modeling Intercomparison Project (FireMIP) 2019 ,		2
198	Studying the impact of biomass burning aerosol radiative and climate effects on the Amazon rainforest productivity with an Earth system model. <i>Atmospheric Chemistry and Physics</i> , 2019 , 19, 1301-1326	6.8	29
197	Emergent relationships with respect to burned area in global satellite observations and fire-enabled vegetation models. <i>Biogeosciences</i> , 2019 , 16, 57-76	4.6	54
196	Growing season extension affects ozone uptake by European forests. <i>Science of the Total Environment</i> , 2019 , 669, 1043-1052	10.2	14
195	Increased atmospheric vapor pressure deficit reduces global vegetation growth. <i>Science Advances</i> , 2019 , 5, eaax1396	14.3	270
194	Contrasting effects of CO ₂ fertilization, land-use change and warming on seasonal amplitude of Northern Hemisphere CO ₂ exchange. <i>Atmospheric Chemistry and Physics</i> , 2019 , 19, 12361-12375	6.8	14
193	Historical (1700-2012) global multi-model estimates of the fire emissions from the Fire Modeling Intercomparison Project (FireMIP). <i>Atmospheric Chemistry and Physics</i> , 2019 , 19, 12545-12567	6.8	29
192	Global Carbon Budget 2019. <i>Earth System Science Data</i> , 2019 , 11, 1783-1838	10.5	776
191	Response of simulated burned area to historical changes in environmental and anthropogenic factors: a comparison of seven fire models. <i>Biogeosciences</i> , 2019 , 16, 3883-3910	4.6	17
190	Compensatory climate effects link trends in global runoff to rising atmospheric CO ₂ concentration. <i>Environmental Research Letters</i> , 2019 , 14, 124075	6.2	8
189	Global trends in carbon sinks and their relationships with CO ₂ and temperature. <i>Nature Climate Change</i> , 2019 , 9, 73-79	21.4	77
188	Evaluating the Interplay Between Biophysical Processes and Leaf Area Changes in Land Surface Models. <i>Journal of Advances in Modeling Earth Systems</i> , 2018 , 10, 1102-1126	7.1	12
187	Large sensitivity in land carbon storage due to geographical and temporal variation in the thermal response of photosynthetic capacity. <i>New Phytologist</i> , 2018 , 218, 1462-1477	9.8	32
186	Large uncertainty in carbon uptake potential of land-based climate-change mitigation efforts. <i>Global Change Biology</i> , 2018 , 24, 3025-3038	11.4	33
185	Sources of Uncertainty in Modeled Land Carbon Storage within and across Three MIPs: Diagnosis with Three New Techniques. <i>Journal of Climate</i> , 2018 , 31, 2833-2851	4.4	15
184	Land use change and El Niño-Southern Oscillation drive decadal carbon balance shifts in Southeast Asia. <i>Nature Communications</i> , 2018 , 9, 1154	17.4	12
183	On the causes of trends in the seasonal amplitude of atmospheric CO ₂ . <i>Global Change Biology</i> , 2018 , 24, 608-616	11.4	35
182	Land-use emissions play a critical role in land-based mitigation for Paris climate targets. <i>Nature Communications</i> , 2018 , 9, 2938	17.4	99

181	Asymmetric responses of primary productivity to altered precipitation simulated by ecosystem models across three long-term grassland sites. <i>Biogeosciences</i> , 2018 , 15, 3421-3437	4.6	36
180	Carbon budgets for 1.5 and 2 °C targets lowered by natural wetland and permafrost feedbacks. <i>Nature Geoscience</i> , 2018 , 11, 568-573	18.3	60
179	Vegetation distribution and terrestrial carbon cycle in a carbon cycle configuration of JULES4.6 with new plant functional types. <i>Geoscientific Model Development</i> , 2018 , 11, 2857-2873	6.3	31
178	Vegetation distribution and terrestrial carbon cycle in a carbon-cycle configuration of JULES4.6 with new plant functional types 2018 ,		1
177	Lower land-use emissions responsible for increased net land carbon sink during the slow warming period. <i>Nature Geoscience</i> , 2018 , 11, 739-743	18.3	62
176	Large-Scale Droughts Responsible for Dramatic Reductions of Terrestrial Net Carbon Uptake Over North America in 2011 and 2012. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2018 , 123, 2053-2074	17	18
175	Biophysics and vegetation cover change: a process-based evaluation framework for confronting land surface models with satellite observations. <i>Earth System Science Data</i> , 2018 , 10, 1265-1279	10.5	30
174	Global Carbon Budget 2018. <i>Earth System Science Data</i> , 2018 , 10, 2141-2194	10.5	831
173	Global Carbon Budget 2017. <i>Earth System Science Data</i> , 2018 , 10, 405-448	10.5	614
172	Increased importance of methane reduction for a 1.5 degree target. <i>Environmental Research Letters</i> , 2018 , 13, 054003	6.2	34
171	Simulated Global Climate Response to Tropospheric Ozone-Induced Changes in Plant Transpiration. <i>Geophysical Research Letters</i> , 2018 , 45, 13070-13079	4.9	11
170	Large but decreasing effect of ozone on the European carbon sink. <i>Biogeosciences</i> , 2018 , 15, 4245-4269	4.6	28
169	Widespread seasonal compensation effects of spring warming on northern plant productivity. <i>Nature</i> , 2018 , 562, 110-114	50.4	134
168	Reconciling global-model estimates and country reporting of anthropogenic forest CO2 sinks. <i>Nature Climate Change</i> , 2018 , 8, 914-920	21.4	57
167	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,	5.8	41
166	Modelling tropical forest responses to drought and El Niño with a stomatal optimization model based on xylem hydraulics. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2018 , 373,	5.8	49
165	Technical note: A simple theoretical model framework to describe plant stomatal sluggishness in response to elevated ozone concentrations. <i>Biogeosciences</i> , 2018 , 15, 5415-5422	4.6	5
164	A Large Committed Long-Term Sink of Carbon due to Vegetation Dynamics. <i>Earth's Future</i> , 2018 , 6, 1413-1432	15	15

163	Contrasting interannual atmospheric CO ₂ variabilities and their terrestrial mechanisms for two types of El Niños. <i>Atmospheric Chemistry and Physics</i> , 2018 , 18, 10333-10345	6.8	11
162	The ecology of peace: preparing Colombia for new political and planetary climates. <i>Frontiers in Ecology and the Environment</i> , 2018 , 16, 525-531	5.5	28
161	Sensitivity of atmospheric CO growth rate to observed changes in terrestrial water storage. <i>Nature</i> , 2018 , 560, 628-631	50.4	172
160	Historical carbon dioxide emissions caused by land-use changes are possibly larger than assumed. <i>Nature Geoscience</i> , 2017 , 10, 79-84	18.3	195
159	Compensatory water effects link yearly global land CO sink changes to temperature. <i>Nature</i> , 2017 , 541, 516-520	50.4	341
158	A roadmap for improving the representation of photosynthesis in Earth system models. <i>New Phytologist</i> , 2017 , 213, 22-42	9.8	245
157	Current ambient concentrations of ozone in Panama modulate the leaf chemistry of the tropical tree <i>Ficus insipida</i> . <i>Chemosphere</i> , 2017 , 172, 363-372	8.4	6
156	Narrowing the Range of Future Climate Projections Using Historical Observations of Atmospheric CO ₂ . <i>Journal of Climate</i> , 2017 , 30, 3039-3053	4.4	15
155	Current challenges of implementing anthropogenic land-use and land-cover change in models contributing to climate change assessments. <i>Earth System Dynamics</i> , 2017 , 8, 369-386	4.8	53
154	The decreasing range between dry- and wet- season precipitation over land and its effect on vegetation primary productivity. <i>PLoS ONE</i> , 2017 , 12, e0190304	3.7	16
153	The Fire Modeling Intercomparison Project (FireMIP), phase 1: experimental and analytical protocols with detailed model descriptions. <i>Geoscientific Model Development</i> , 2017 , 10, 1175-1197	6.3	106
152	Present-day and future contribution of climate and fires to vegetation composition in the boreal forest of China. <i>Ecosphere</i> , 2017 , 8, e01917	3.1	17
151	Implications of improved representations of plant respiration in a changing climate. <i>Nature Communications</i> , 2017 , 8, 1602	17.4	67
150	Land-use and land-cover change carbon emissions between 1901 and 2012 constrained by biomass observations. <i>Biogeosciences</i> , 2017 , 14, 5053-5067	4.6	42
149	The Fire Modeling Intercomparison Project (FireMIP), phase 1: Experimental and analytical protocols 2016 ,		1
148	Role of CO ₂ , climate and land use in regulating the seasonal amplitude increase of carbon fluxes in terrestrial ecosystems: a multimodel analysis. <i>Biogeosciences</i> , 2016 , 13, 5121-5137	4.6	19
147	Regional carbon fluxes from land use and land cover change in Asia, 1980-2009. <i>Environmental Research Letters</i> , 2016 , 11, 074011	6.2	21
146	Conversion from forests to pastures in the Colombian Amazon leads to differences in dead wood dynamics depending on land management practices. <i>Journal of Environmental Management</i> , 2016 , 171, 42-51	7.9	9

145	The terrestrial biosphere as a net source of greenhouse gases to the atmosphere. <i>Nature</i> , 2016 , 531, 225-8	50.4	278
144	Global Carbon Budget 2016. <i>Earth System Science Data</i> , 2016 , 8, 605-649	10.5	730
143	INFERNO: a fire and emissions scheme for the UK Met Office's Unified Model. <i>Geoscientific Model Development</i> , 2016 , 9, 2685-2700	6.3	25
142	The carbon cycle in Mexico: past, present and future of C stocks and fluxes. <i>Biogeosciences</i> , 2016 , 13, 223-238	4.6	21
141	Improved representation of plant functional types and physiology in the Joint UK Land Environment Simulator (JULES v4.2) using plant trait information 2016 ,		2
140	Improved representation of plant functional types and physiology in the Joint UK Land Environment Simulator (JULES v4.2) using plant trait information. <i>Geoscientific Model Development</i> , 2016 , 9, 2415-2440	6.3	79
139	The status and challenge of global fire modelling. <i>Biogeosciences</i> , 2016 , 13, 3359-3375	4.6	193
138	Conversion from forests to pastures in the Colombian Amazon leads to contrasting soil carbon dynamics depending on land management practices. <i>Global Change Biology</i> , 2016 , 22, 3503-17	11.4	30
137	Comparing concentration-based (AOT40) and stomatal uptake (PODY) metrics for ozone risk assessment to European forests. <i>Global Change Biology</i> , 2016 , 22, 1608-27	11.4	64
136	The dry season intensity as a key driver of NPP trends. <i>Geophysical Research Letters</i> , 2016 , 43, 2632-2639	4.9	42
135	The terrestrial carbon budget of South and Southeast Asia. <i>Environmental Research Letters</i> , 2016 , 11, 105006	6.2	26
134	Precipitation and carbon-water coupling jointly control the interannual variability of global land gross primary production. <i>Scientific Reports</i> , 2016 , 6, 39748	4.9	44
133	Importance of soil thermal regime in terrestrial ecosystem carbon dynamics in the circumpolar north. <i>Global and Planetary Change</i> , 2016 , 142, 28-40	4.2	11
132	Greening of the Earth and its drivers. <i>Nature Climate Change</i> , 2016 , 6, 791-795	21.4	1036
131	Benchmarking the seasonal cycle of CO ₂ fluxes simulated by terrestrial ecosystem models. <i>Global Biogeochemical Cycles</i> , 2015 , 29, 46-64	5.9	42
130	Water-use efficiency and transpiration across European forests during the Anthropocene. <i>Nature Climate Change</i> , 2015 , 5, 579-583	21.4	271
129	Reconciling Precipitation with Runoff: Observed Hydrological Change in the Midlatitudes. <i>Journal of Hydrometeorology</i> , 2015 , 16, 2403-2420	3.7	5
128	Spatiotemporal patterns of terrestrial gross primary production: A review. <i>Reviews of Geophysics</i> , 2015 , 53, 785-818	23.1	297

127	Multicriteria evaluation of discharge simulation in Dynamic Global Vegetation Models. <i>Journal of Geophysical Research D: Atmospheres</i> , 2015 , 120, 7488-7505	4.4	20
126	Biomass burning related ozone damage on vegetation over the Amazon forest: a model sensitivity study. <i>Atmospheric Chemistry and Physics</i> , 2015 , 15, 2791-2804	6.8	43
125	Recent trends and drivers of regional sources and sinks of carbon dioxide. <i>Biogeosciences</i> , 2015 , 12, 653-679	4.79	432
124	Carbon cycle. The dominant role of semi-arid ecosystems in the trend and variability of the land CO ₂ sink. <i>Science</i> , 2015 , 348, 895-9	33.3	684
123	Combining the [ABA] and net photosynthesis-based model equations of stomatal conductance. <i>Ecological Modelling</i> , 2015 , 300, 81-88	3	26
122	Global variability in leaf respiration in relation to climate, plant functional types and leaf traits. <i>New Phytologist</i> , 2015 , 206, 614-36	9.8	244
121	Global Carbon Budget 2015. <i>Earth System Science Data</i> , 2015 , 7, 349-396	10.5	513
120	Global carbon budget 2014. <i>Earth System Science Data</i> , 2015 , 7, 47-85	10.5	367
119	Contribution of semi-arid ecosystems to interannual variability of the global carbon cycle. <i>Nature</i> , 2014 , 509, 600-3	50.4	778
118	Modeling the Terrestrial Biosphere. <i>Annual Review of Environment and Resources</i> , 2014 , 39, 91-123	17.2	137
117	Evidence for a weakening relationship between interannual temperature variability and northern vegetation activity. <i>Nature Communications</i> , 2014 , 5, 5018	17.4	274
116	A full greenhouse gases budget of Africa: synthesis, uncertainties, and vulnerabilities. <i>Biogeosciences</i> , 2014 , 11, 381-407	4.6	134
115	Global carbon budget 2013. <i>Earth System Science Data</i> , 2014 , 6, 235-263	10.5	264
114	Analysing Amazonian forest productivity using a new individual and trait-based model (TFS v.1). <i>Geoscientific Model Development</i> , 2014 , 7, 1251-1269	6.3	72
113	Simulated resilience of tropical rainforests to CO ₂ -induced climate change. <i>Nature Geoscience</i> , 2013 , 6, 268-273	18.3	293
112	Evaluation of terrestrial carbon cycle models for their response to climate variability and to CO ₂ trends. <i>Global Change Biology</i> , 2013 , 19, 2117-32	11.4	481
111	African tropical rainforest net carbon dioxide fluxes in the twentieth century. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2013 , 368, 20120376	5.8	39
110	The global carbon budget 1959-2011. <i>Earth System Science Data</i> , 2013 , 5, 165-185	10.5	436

109	Evaluation of Land Surface Models in Reproducing Satellite-Derived LAI over the High-Latitude Northern Hemisphere. Part I: Uncoupled DGVMs. <i>Remote Sensing</i> , 2013 , 5, 4819-4838	5	69
108	Global carbon budget 2013 2013 ,		75
107	Correction for Wang et al., Variations in atmospheric CO ₂ growth rates coupled with tropical temperature. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013 , 110, 15163-15163	11.5	6
106	Variations in atmospheric CO ₂ growth rates coupled with tropical temperature. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013 , 110, 13061-6	11.5	119
105	Evaluation of Land Surface Models in Reproducing Satellite Derived Leaf Area Index over the High-Latitude Northern Hemisphere. Part II: Earth System Models. <i>Remote Sensing</i> , 2013 , 5, 3637-3661	5	58
104	The effects of tropospheric ozone on net primary productivity and implications for climate change. <i>Annual Review of Plant Biology</i> , 2012 , 63, 637-61	30.7	518
103	The carbon balance of South America: a review of the status, decadal trends and main determinants. <i>Biogeosciences</i> , 2012 , 9, 5407-5430	4.6	70
102	The carbon budget of terrestrial ecosystems in East Asia over the last two decades. <i>Biogeosciences</i> , 2012 , 9, 3571-3586	4.6	83
101	Uncertainty analysis of vegetation distribution in the northern high latitudes during the 21st century with a dynamic vegetation model. <i>Ecology and Evolution</i> , 2012 , 2, 593-614	2.8	33
100	High sensitivity of future global warming to land carbon cycle processes. <i>Environmental Research Letters</i> , 2012 , 7, 024002	6.2	185
99	The global carbon budget 1959-2011 2012 ,		122
98	Drought and ecosystem carbon cycling. <i>Agricultural and Forest Meteorology</i> , 2011 , 151, 765-773	5.8	359
97	A comprehensive set of benchmark tests for a land surface model of simultaneous fluxes of water and carbon at both the global and seasonal scale. <i>Geoscientific Model Development</i> , 2011 , 4, 255-269	6.3	91
96	Evaluation of a photosynthesis-based biogenic isoprene emission scheme in JULES and simulation of isoprene emissions under present-day climate conditions. <i>Atmospheric Chemistry and Physics</i> , 2011 , 11, 4371-4389	6.8	91
95	Highly contrasting effects of different climate forcing agents on terrestrial ecosystem services. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2011 , 369, 2026-37	3	40
94	A large and persistent carbon sink in the world's forests. <i>Science</i> , 2011 , 333, 988-93	33.3	3950
93	The Joint UK Land Environment Simulator (JULES), model description [Part 1: Energy and water fluxes. <i>Geoscientific Model Development</i> , 2011 , 4, 677-699	6.3	784
92	Variations in Amazon forest productivity correlated with foliar nutrients and modelled rates of photosynthetic carbon supply. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2011 , 366, 3316-29	5.8	61

91	Changes in the potential distribution of humid tropical forests on a warmer planet. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2011 , 369, 137-60	3	127
90	The Joint UK Land Environment Simulator (JULES), model description [Part 2: Carbon fluxes and vegetation dynamics. <i>Geoscientific Model Development</i> , 2011 , 4, 701-722	6.3	631
89	Development and evaluation of an Earth-System model [HadGEM2. <i>Geoscientific Model Development</i> , 2011 , 4, 1051-1075	6.3	902
88	Development and evaluation of an Earth-system model [HadGEM2 2011 ,		124
87	The Joint UK Land Environment Simulator (JULES), Model description [Part 2: Carbon fluxes and vegetation 2011 ,		32
86	The Joint UK Land Environment Simulator (JULES), Model description [Part 1: Energy and water fluxes 2011 ,		35
85	Assessing uncertainties in a second-generation dynamic vegetation model caused by ecological scale limitations. <i>New Phytologist</i> , 2010 , 187, 666-81	9.8	225
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