

Ben Poulter

List of Publications by Citations

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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.

305
papers

26,029
citations

76
h-index

157
g-index

390
ext. papers

33,297
ext. citations

8.5
avg, IF

6.53
L-index

#	Paper	IF	Citations
305	Three decades of global methane sources and sinks. <i>Nature Geoscience</i> , 2013 , 6, 813-823	18.3	1293
304	Greening of the Earth and its drivers. <i>Nature Climate Change</i> , 2016 , 6, 791-795	21.4	1036
303	Global Carbon Budget 2018. <i>Earth System Science Data</i> , 2018 , 10, 2141-2194	10.5	831
302	Contribution of semi-arid ecosystems to interannual variability of the global carbon cycle. <i>Nature</i> , 2014 , 509, 600-3	50.4	778
301	Global Carbon Budget 2019. <i>Earth System Science Data</i> , 2019 , 11, 1783-1838	10.5	776
300	Global Carbon Budget 2016. <i>Earth System Science Data</i> , 2016 , 8, 605-649	10.5	730
299	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
298	Human-induced nitrogen-phosphorus imbalances alter natural and managed ecosystems across the globe. <i>Nature Communications</i> , 2013 , 4, 2934	17.4	679
297	The global methane budget 2000-2012. <i>Earth System Science Data</i> , 2016 , 8, 697-751	10.5	641
296	Global Carbon Budget 2017. <i>Earth System Science Data</i> , 2018 , 10, 405-448	10.5	614
295	Global Carbon Budget 2020. <i>Earth System Science Data</i> , 2020 , 12, 3269-3340	10.5	533
294	Global Carbon Budget 2015. <i>Earth System Science Data</i> , 2015 , 7, 349-396	10.5	513
293	Terrestrial biosphere models need better representation of vegetation phenology: results from the North American Carbon Program Site Synthesis. <i>Global Change Biology</i> , 2012 , 18, 566-584	11.4	481
292	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
291	The Global Methane Budget 2000-2017. <i>Earth System Science Data</i> , 2020 , 12, 1561-1623	10.5	463
290	Effects of climate extremes on the terrestrial carbon cycle: concepts, processes and potential future impacts. <i>Global Change Biology</i> , 2015 , 21, 2861-80	11.4	454
289	The global carbon budget 1959-2011. <i>Earth System Science Data</i> , 2013 , 5, 165-185	10.5	436

288	Recent trends and drivers of regional sources and sinks of carbon dioxide. <i>Biogeosciences</i> , 2015 , 12, 653-679	4.7	432
287	Present state of global wetland extent and wetland methane modelling: conclusions from a model inter-comparison project (WETCHIMP). <i>Biogeosciences</i> , 2013 , 10, 753-788	4.6	382
286	Detection and attribution of vegetation greening trend in China over the last 30 years. <i>Global Change Biology</i> , 2015 , 21, 1601-9	11.4	373
285	Global carbon budget 2014. <i>Earth System Science Data</i> , 2015 , 7, 47-85	10.5	367
284	Compensatory water effects link yearly global land CO sink changes to temperature. <i>Nature</i> , 2017 , 541, 516-520	50.4	341
283	Climate change and European forests: what do we know, what are the uncertainties, and what are the implications for forest management?. <i>Journal of Environmental Management</i> , 2014 , 146, 69-83	7.9	334
282	The terrestrial biosphere as a net source of greenhouse gases to the atmosphere. <i>Nature</i> , 2016 , 531, 225-8	50.4	278
281	Evidence for a weakening relationship between interannual temperature variability and northern vegetation activity. <i>Nature Communications</i> , 2014 , 5, 5018	17.4	274
280	Water-use efficiency and transpiration across European forests during the Anthropocene. <i>Nature Climate Change</i> , 2015 , 5, 579-583	21.4	271
279	Global carbon budget 2013. <i>Earth System Science Data</i> , 2014 , 6, 235-263	10.5	264
278	Plant responses to rising vapor pressure deficit. <i>New Phytologist</i> , 2020 , 226, 1550-1566	9.8	249
277	Site- and species-specific responses of forest growth to climate across the European continent. <i>Global Ecology and Biogeography</i> , 2013 , 22, 706-717	6.1	248
276	A model-data comparison of gross primary productivity: Results from the North American Carbon Program site synthesis. <i>Journal of Geophysical Research</i> , 2012 , 117, n/a-n/a		239
275	Pervasive shifts in forest dynamics in a changing world. <i>Science</i> , 2020 , 368,	33.3	227
274	A model-data intercomparison of CO2 exchange across North America: Results from the North American Carbon Program site synthesis. <i>Journal of Geophysical Research</i> , 2010 , 115,		216
273	Raster modelling of coastal flooding from sea-level rise. <i>International Journal of Geographical Information Science</i> , 2008 , 22, 167-182	4.1	199
272	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
271	Terrestrial biosphere model performance for inter-annual variability of land-atmosphere CO2 exchange. <i>Global Change Biology</i> , 2012 , 18, 1971-1987	11.4	191

270	The growing role of methane in anthropogenic climate change. <i>Environmental Research Letters</i> , 2016 , 11, 120207	6.2	190
269	North American Carbon Program (NACP) regional interim synthesis: Terrestrial biospheric model intercomparison. <i>Ecological Modelling</i> , 2012 , 232, 144-157	3	180
268	Role of forest regrowth in global carbon sink dynamics. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019 , 116, 4382-4387	11.5	178
267	The North American Carbon Program Multi-Scale Synthesis and Terrestrial Model Intercomparison Project [Part 1: Overview and experimental design. <i>Geoscientific Model Development</i> , 2013 , 6, 2121-2133	6.3	164
266	Global patterns and controls of soil organic carbon dynamics as simulated by multiple terrestrial biosphere models: Current status and future directions. <i>Global Biogeochemical Cycles</i> , 2015 , 29, 775-792	5.9	159
265	Environmental change and the carbon balance of Amazonian forests. <i>Biological Reviews</i> , 2014 , 89, 913-931	3.5	150
264	Twentieth century redistribution in climatic drivers of global tree growth. <i>Science Advances</i> , 2019 , 5, eaat4313	14.3	150
263	Change in terrestrial ecosystem water-use efficiency over the last three decades. <i>Global Change Biology</i> , 2015 , 21, 2366-78	11.4	144
262	Plant functional type classification for earth system models: results from the European Space Agency's Land Cover Climate Change Initiative. <i>Geoscientific Model Development</i> , 2015 , 8, 2315-2328	6.3	143
261	Harmonization of global land use change and management for the period 850-100 (LUH2) for CMIP6. <i>Geoscientific Model Development</i> , 2020 , 13, 5425-5464	6.3	143
260	Spatial variability and temporal trends in water-use efficiency of European forests. <i>Global Change Biology</i> , 2014 , 20, 3700-12	11.4	140
259	Current systematic carbon-cycle observations and the need for implementing a policy-relevant carbon observing system. <i>Biogeosciences</i> , 2014 , 11, 3547-3602	4.6	136
258	A full greenhouse gases budget of Africa: synthesis, uncertainties, and vulnerabilities. <i>Biogeosciences</i> , 2014 , 11, 381-407	4.6	134
257	Present state of global wetland extent and wetland methane modelling: methodology of a model inter-comparison project (WETCHIMP). <i>Geoscientific Model Development</i> , 2013 , 6, 617-641	6.3	128
256	Emerging role of wetland methane emissions in driving 21st century climate change. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017 , 114, 9647-9652	11.5	124
255	The global carbon budget 1959-2011		122
254	Global carbon budget 2014		121
253	Plant functional type mapping for earth system models. <i>Geoscientific Model Development</i> , 2011 , 4, 993-1010	1.0	119

252	Sea-level rise impact models and environmental conservation: A review of models and their applications. <i>Ocean and Coastal Management</i> , 2010 , 53, 507-517	3.9	118
251	Impact of large-scale climate extremes on biospheric carbon fluxes: An intercomparison based on MsTMIP data. <i>Global Biogeochemical Cycles</i> , 2014 , 28, 585-600	5.9	112
250	Large loss of CO in winter observed across the northern permafrost region.. <i>Nature Climate Change</i> , 2019 , 9, 852-857	21.4	112
249	Observed forest sensitivity to climate implies large changes in 21st century North American forest growth. <i>Ecology Letters</i> , 2016 , 19, 1119-28	10	109
248	Uncertainty in the response of terrestrial carbon sink to environmental drivers undermines carbon-climate feedback predictions. <i>Scientific Reports</i> , 2017 , 7, 4765	4.9	108
247	Recent global decline of CO fertilization effects on vegetation photosynthesis. <i>Science</i> , 2020 , 370, 1295-1300	3.9	107
246	Accelerating net terrestrial carbon uptake during the warming hiatus due to reduced respiration. <i>Nature Climate Change</i> , 2017 , 7, 148-152	21.4	106
245	A tree-ring perspective on the terrestrial carbon cycle. <i>Oecologia</i> , 2014 , 176, 307-22	2.9	106
244	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
243	Increasing anthropogenic methane emissions arise equally from agricultural and fossil fuel sources. <i>Environmental Research Letters</i> , 2020 , 15, 071002	6.2	99
242	Global wetland contribution to 2000-2012 atmospheric methane growth rate dynamics. <i>Environmental Research Letters</i> , 2017 , 12, 094013	6.2	97
241	Tropical forest responses to increasing atmospheric CO: current knowledge and opportunities for future research. <i>Functional Plant Biology</i> , 2013 , 40, 531-551	2.7	97
240	Disentangling climatic and anthropogenic controls on global terrestrial evapotranspiration trends. <i>Environmental Research Letters</i> , 2015 , 10, 094008	6.2	93
239	Recent trends in Inner Asian forest dynamics to temperature and precipitation indicate high sensitivity to climate change. <i>Agricultural and Forest Meteorology</i> , 2013 , 178-179, 31-45	5.8	92
238	Modelling the role of fires in the terrestrial carbon balance by incorporating SPITFIRE into the global vegetation model ORCHIDEE [Part 1: simulating historical global burned area and fire regimes. <i>Geoscientific Model Development</i> , 2014 , 7, 2747-2767	6.3	90
237	The carbon budget of terrestrial ecosystems in East Asia over the last two decades. <i>Biogeosciences</i> , 2012 , 9, 3571-3586	4.6	83
236	When tree rings go global: Challenges and opportunities for retro- and prospective insight. <i>Quaternary Science Reviews</i> , 2018 , 197, 1-20	3.9	81
235	Mechanisms of water supply and vegetation demand govern the seasonality and magnitude of evapotranspiration in Amazonia and Cerrado. <i>Agricultural and Forest Meteorology</i> , 2014 , 191, 33-50	5.8	81

234	Five decades of northern land carbon uptake revealed by the interhemispheric CO gradient. <i>Nature</i> , 2019 , 568, 221-225	50.4	77
233	Sunlight mediated seasonality in canopy structure and photosynthetic activity of Amazonian rainforests. <i>Environmental Research Letters</i> , 2015 , 10, 064014	6.2	77
232	FLUXNET-CH4 Synthesis Activity: Objectives, Observations, and Future Directions. <i>Bulletin of the American Meteorological Society</i> , 2019 , 100, 2607-2632	6.1	77
231	Half of global methane emissions come from highly variable aquatic ecosystem sources. <i>Nature Geoscience</i> , 2021 , 14, 225-230	18.3	77
230	The El Niño Southern Oscillation and wetland methane interannual variability. <i>Geophysical Research Letters</i> , 2011 , 38, n/a-n/a	4.9	76
229	Global carbon budget 2013 2013 ,		75
228	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
227	Variability and quasi-decadal changes in the methane budget over the period 2000-2012. <i>Atmospheric Chemistry and Physics</i> , 2017 , 17, 11135-11161	6.8	69
226	Carbon cycle uncertainty in the Alaskan Arctic. <i>Biogeosciences</i> , 2014 , 11, 4271-4288	4.6	69
225	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
224	Characterizing the performance of ecosystem models across time scales: A spectral analysis of the North American Carbon Program site-level synthesis. <i>Journal of Geophysical Research</i> , 2011 , 116,		66
223	Top-down assessment of the Asian carbon budget since the mid 1990s. <i>Nature Communications</i> , 2016 , 7, 10724	17.4	64
222	Impacts of land cover and climate data selection on understanding terrestrial carbon dynamics and the CO ₂ airborne fraction. <i>Biogeosciences</i> , 2011 , 8, 2027-2036	4.6	64
221	Evaluation of continental carbon cycle simulations with North American flux tower observations. <i>Ecological Monographs</i> , 2013 , 83, 531-556	9	63
220	Global patterns and climate drivers of water-use efficiency in terrestrial ecosystems deduced from satellite-based datasets and carbon cycle models. <i>Global Ecology and Biogeography</i> , 2016 , 25, 311-323	6.1	63
219	The influence of local spring temperature variance on temperature sensitivity of spring phenology. <i>Global Change Biology</i> , 2014 , 20, 1473-80	11.4	61
218	Global Carbon Budget 2017		60
217	Drought rapidly diminishes the large net CO uptake in 2011 over semi-arid Australia. <i>Scientific Reports</i> , 2016 , 6, 37747	4.9	58

216	Seasonal responses of terrestrial ecosystem water-use efficiency to climate change. <i>Global Change Biology</i> , 2016 , 22, 2165-77	11.4	57
215	Methane emissions from tree stems: a new frontier in the global carbon cycle. <i>New Phytologist</i> , 2019 , 222, 18-28	9.8	57
214	Net biome production of the Amazon Basin in the 21st century. <i>Global Change Biology</i> , 2010 , 16, 2062-2074	10.4	54
213	Important role of forest disturbances in the global biomass turnover and carbon sinks. <i>Nature Geoscience</i> , 2019 , 12, 730-735	18.3	53
212	Carbon emissions from a temperate peat fire and its relevance to interannual variability of trace atmospheric greenhouse gases. <i>Journal of Geophysical Research</i> , 2006 , 111,		53
211	Sensitivity of Portuguese forest fires to climatic, human, and landscape variables: subnational differences between fire drivers in extreme fire years and decadal averages. <i>Regional Environmental Change</i> , 2011 , 11, 543-551	4.3	52
210	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
209	Comparing tree-ring and permanent plot estimates of aboveground net primary production in three eastern U.S. forests. <i>Ecosphere</i> , 2016 , 7, e01454	3.1	50
208	Improved tree-ring archives will support earth-system science. <i>Nature Ecology and Evolution</i> , 2017 , 1, 8	12.3	49
207	Overview of the Large-Scale Biosphere-Atmosphere Experiment in Amazonia Data Model Intercomparison Project (LBA-DMIP). <i>Agricultural and Forest Meteorology</i> , 2013 , 182-183, 111-127	5.8	49
206	Applications of network analysis for adaptive management of artificial drainage systems in landscapes vulnerable to sea level rise. <i>Journal of Hydrology</i> , 2008 , 357, 207-217	6	49
205	500 years of regional forest growth variability and links to climatic extreme events in Europe. <i>Environmental Research Letters</i> , 2012 , 7, 045705	6.2	48
204	Seasonal leaf dynamics for tropical evergreen forests in a process-based global ecosystem model. <i>Geoscientific Model Development</i> , 2012 , 5, 1091-1108	6.3	47
203	Global Carbon Budget 2021. <i>Earth System Science Data</i> , 2022 , 14, 1917-2005	10.5	47
202	Potential effects of climate change on inundation patterns in the Amazon Basin. <i>Hydrology and Earth System Sciences</i> , 2013 , 17, 2247-2262	5.5	44
201	Trends and drivers of regional sources and sinks of carbon dioxide over the past two decades		44
200	Interannual variability of ecosystem carbon exchange: From observation to prediction. <i>Global Ecology and Biogeography</i> , 2017 , 26, 1225-1237	6.1	42
199	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

198	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
197	Toward Optimal Integration of terrestrial biosphere models. <i>Geophysical Research Letters</i> , 2015 , 42, 4418-4428	4.9	42
196	Impact of hydrological variations on modeling of peatland CO ₂ fluxes: Results from the North American Carbon Program site synthesis. <i>Journal of Geophysical Research</i> , 2012 , 117,		42
195	The dry season intensity as a key driver of NPP trends. <i>Geophysical Research Letters</i> , 2016 , 43, 2632-2639	4.9	42
194	A protocol for an intercomparison of biodiversity and ecosystem services models using harmonized land-use and climate scenarios. <i>Geoscientific Model Development</i> , 2018 , 11, 4537-4562	6.3	42
193	Comment on "The global tree restoration potential". <i>Science</i> , 2019 , 366,	33.3	41
192	Modeling the Sensitivity of the Seasonal Cycle of GPP to Dynamic LAI and Soil Depths in Tropical Rainforests. <i>Ecosystems</i> , 2009 , 12, 517-533	3.9	41
191	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
190	Soil carbon pools in Swiss forests show legacy effects from historic forest litter raking. <i>Landscape Ecology</i> , 2013 , 28, 835-846	4.3	40
189	Advancing Scientific Understanding of the Global Methane Budget in Support of the Paris Agreement. <i>Global Biogeochemical Cycles</i> , 2019 , 33, 1475-1512	5.9	40
188	Missing pieces to modeling the Arctic-Boreal puzzle. <i>Environmental Research Letters</i> , 2018 , 13, 020202	6.2	39
187	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
186	Sea-level rise research and dialogue in North Carolina: Creating windows for policy change. <i>Ocean and Coastal Management</i> , 2009 , 52, 147-153	3.9	39
185	The relative importance of intrinsic and extrinsic factors in the decline of obligate seeder forests. <i>Global Ecology and Biogeography</i> , 2016 , 25, 1166-1172	6.1	38
184	Response of Water Use Efficiency to Global Environmental Change Based on Output From Terrestrial Biosphere Models. <i>Global Biogeochemical Cycles</i> , 2017 , 31, 1639-1655	5.9	38
183	Reviews and syntheses: An empirical spatiotemporal description of the global surface-atmosphere carbon fluxes: opportunities and data limitations. <i>Biogeosciences</i> , 2017 , 14, 3685-3703	4.6	37
182	Robust dynamics of Amazon dieback to climate change with perturbed ecosystem model parameters. <i>Global Change Biology</i> , 2010 , 16, 2476	11.4	37
181	NASA's surface biology and geology designated observable: A perspective on surface imaging algorithms. <i>Remote Sensing of Environment</i> , 2021 , 257, 112349	13.2	37

180	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
179	Carbon implications of converting cropland to bioenergy crops or forest for climate mitigation: a global assessment. <i>GCB Bioenergy</i> , 2016 , 8, 81-95	5.6	35
178	Maximum carbon uptake rate dominates the interannual variability of global net ecosystem exchange. <i>Global Change Biology</i> , 2019 , 25, 3381-3394	11.4	34
177	Anomalous carbon uptake in Australia as seen by GOSAT. <i>Geophysical Research Letters</i> , 2015 , 42, 8177-8184	11.4	34
176	Modeling spatiotemporal dynamics of global wetlands: comprehensive evaluation of a new sub-grid TOPMODEL parameterization and uncertainties. <i>Biogeosciences</i> , 2016 , 13, 1387-1408	4.6	34
175	Enhanced response of global wetland methane emissions to the 2015-2016 El Niño-Southern Oscillation event. <i>Environmental Research Letters</i> , 2018 , 13,	6.2	34
174	Enhanced methane emissions from tropical wetlands during the 2011 La Niña. <i>Scientific Reports</i> , 2017 , 7, 45759	4.9	33
173	Diagnosing phosphorus limitations in natural terrestrial ecosystems in carbon cycle models. <i>Earth's Future</i> , 2017 , 5, 730-749	7.9	33
172	Field-experiment constraints on the enhancement of the terrestrial carbon sink by CO2 fertilization. <i>Nature Geoscience</i> , 2019 , 12, 809-814	18.3	33
171	A new model of the global biogeochemical cycle of carbonyl sulfide [Part 2: Use of carbonyl sulfide to constrain gross primary productivity in current vegetation models. <i>Atmospheric Chemistry and Physics</i> , 2015 , 15, 9285-9312	6.8	33
170	Fire evolution in the radioactive forests of Ukraine and Belarus: future risks for the population and the environment. <i>Ecological Monographs</i> , 2015 , 85, 49-72	9	32
169	Emergent climate and CO sensitivities of net primary productivity in ecosystem models do not agree with empirical data in temperate forests of eastern North America. <i>Global Change Biology</i> , 2017 , 23, 2755-2767	11.4	31
168	Spatially Resolved Isotopic Source Signatures of Wetland Methane Emissions. <i>Geophysical Research Letters</i> , 2018 , 45, 3737-3745	4.9	31
167	Multi-model comparison highlights consistency in predicted effect of warming on a semi-arid shrub. <i>Global Change Biology</i> , 2018 , 24, 424-438	11.4	31
166	MEASURING THE IMPACT OF SEA-LEVEL RISE ON COASTAL REAL ESTATE: A HEDONIC PROPERTY MODEL APPROACH*. <i>Journal of Regional Science</i> , 2011 , 51, 751-767	1.8	31
165	Predicting pan-tropical climate change induced forest stock gains and lossesImplications for REDD. <i>Environmental Research Letters</i> , 2010 , 5, 014013	6.2	31
164	The climatic drivers of normalized difference vegetation index and tree-ring-based estimates of forest productivity are spatially coherent but temporally decoupled in Northern Hemispheric forests. <i>Global Ecology and Biogeography</i> , 2018 , 27, 1352-1365	6.1	31
163	Inundation of freshwater peatlands by sea level rise: Uncertainty and potential carbon cycle feedbacks. <i>Journal of Geophysical Research</i> , 2008 , 113, n/a-n/a		30

162	Empirical estimates of regional carbon budgets imply reduced global soil heterotrophic respiration. <i>National Science Review</i> , 2021 , 8, nwa145	10.8	30
161	Global land carbon sink response to temperature and precipitation varies with ENSO phase. <i>Environmental Research Letters</i> , 2017 , 12, 064007	6.2	29
160	Improving the dynamics of Northern Hemisphere high-latitude vegetation in the ORCHIDEE ecosystem model. <i>Geoscientific Model Development</i> , 2015 , 8, 2263-2283	6.3	29
159	Land carbon models underestimate the severity and duration of drought's impact on plant productivity. <i>Scientific Reports</i> , 2019 , 9, 2758	4.9	28
158	Global priority conservation areas in the face of 21st century climate change. <i>PLoS ONE</i> , 2013 , 8, e54839	3.7	28
157	Opportunities and Trade-offs among BECCS and the Food, Water, Energy, Biodiversity, and Social Systems Nexus at Regional Scales. <i>BioScience</i> , 2018 , 68, 100-111	5.7	27
156	Evaluation of the ORCHIDEE ecosystem model over Africa against 25 years of satellite-based water and carbon measurements. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2014 , 119, 1554-1575	3.7	27
155	Inter-annual variability of carbon and water fluxes in Amazonian forest, Cerrado and pasture sites, as simulated by terrestrial biosphere models. <i>Agricultural and Forest Meteorology</i> , 2013 , 182-183, 145-155	5.8	27
154	Methane emissions from global wetlands: An assessment of the uncertainty associated with various wetland extent data sets. <i>Atmospheric Environment</i> , 2017 , 165, 310-321	5.3	27
153	A Wood Biology Agenda to Support Global Vegetation Modelling. <i>Trends in Plant Science</i> , 2018 , 23, 1006-1015	1.0	27
152	Global Carbon Budget 2021		26
151	The terrestrial carbon budget of South and Southeast Asia. <i>Environmental Research Letters</i> , 2016 , 11, 105006	6.2	26
150	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	5.9	25
149	Evaluating the agreement between measurements and models of net ecosystem exchange at different times and timescales using wavelet coherence: an example using data from the North American Carbon Program Site-Level Interim Synthesis. <i>Biogeosciences</i> , 2013 , 10, 6893-6909	4.6	25
148	Sensitivity of global terrestrial carbon cycle dynamics to variability in satellite-observed burned area. <i>Global Biogeochemical Cycles</i> , 2015 , 29, 207-222	5.9	24
147	Decadal trends in the seasonal-cycle amplitude of terrestrial CO ₂ exchange resulting from the ensemble of terrestrial biosphere models. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , 2016 , 68, 28968	3.3	24
146	Increased light-use efficiency in northern terrestrial ecosystems indicated by CO ₂ and greening observations. <i>Geophysical Research Letters</i> , 2016 , 43, 11,339	4.9	23
145	Sources of Uncertainty in Regional and Global Terrestrial CO ₂ Exchange Estimates. <i>Global Biogeochemical Cycles</i> , 2020 , 34, e2019GB006393	5.9	23

144	Space-Based Observations for Understanding Changes in the Arctic-Boreal Zone. <i>Reviews of Geophysics</i> , 2020 , 58, e2019RG000652	23.1	23
143	FLUXNET-CH<sub>4</sub>: a global, multi-ecosystem dataset and analysis of methane seasonality from freshwater wetlands. <i>Earth System Science Data</i> , 2021 , 13, 3607-3689	10.5	23
142	Hotspots of gross emissions from the land use sector: patterns, uncertainties, and leading emission sources for the period 2000–2005 in the tropics. <i>Biogeosciences</i> , 2016 , 13, 4253-4269	4.6	23
141	Uncertainty analysis of terrestrial net primary productivity and net biome productivity in China during 1901–2005. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2016 , 121, 1372-1393	3.7	23
140	Evaluating the potential of large-scale simulations to predict carbon fluxes of terrestrial ecosystems over a European Eddy Covariance network. <i>Biogeosciences</i> , 2014 , 11, 2661-2678	4.6	22
139	Use of various remote sensing land cover products for plant functional type mapping over Siberia. <i>Earth System Science Data</i> , 2013 , 5, 331-348	10.5	22
138	A multi-scale comparison of modeled and observed seasonal methane emissions in northern wetlands. <i>Biogeosciences</i> , 2016 , 13, 5043-5056	4.6	22
137	Precipitation thresholds regulate net carbon exchange at the continental scale. <i>Nature Communications</i> , 2018 , 9, 3596	17.4	22
136	Vegetation Functional Properties Determine Uncertainty of Simulated Ecosystem Productivity: A Traceability Analysis in the East Asian Monsoon Region. <i>Global Biogeochemical Cycles</i> , 2019 , 33, 668-689	5.9	21
135	Plant Regrowth as a Driver of Recent Enhancement of Terrestrial CO ₂ Uptake. <i>Geophysical Research Letters</i> , 2018 , 45, 4820-4830	4.9	21
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33	Using satellite data to identify the methane emission controls of South Sudan's wetlands		2
32	Evaluating the potential of large scale simulations to predict carbon fluxes of terrestrial ecosystems over a European Eddy Covariance network		2
31	A model-data intercomparison of simulated runoff in the contiguous United States: results from the North America Carbon Regional and Continental Interim-Synthesis		2
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