

Ben Poulter

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.

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	A review of carbon monitoring in wet carbon systems using remote sensing. <i>Environmental Research Letters</i> , 2022 , 17, 025009	6.2	2
304	Anthropogenic emission is the main contributor to the rise of atmospheric methane during 1993-2017.. <i>National Science Review</i> , 2022 , 9, nwab200	10.8	4
303	Regional trends and drivers of the global methane budget. <i>Global Change Biology</i> , 2022 , 28, 182-200	11.4	14
302	Definitions and methods to estimate regional land carbon fluxes for the second phase of the REgional Carbon Cycle Assessment and Processes Project (RECCAP-2). <i>Geoscientific Model Development</i> , 2022 , 15, 1289-1316	6.3	6
301	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
300	Effect of tree demography and flexible root water uptake for modeling the carbon and water cycles of Amazonia. <i>Ecological Modelling</i> , 2022 , 469, 109969	3	2
299	Global Carbon Budget 2021. <i>Earth System Science Data</i> , 2022 , 14, 1917-2005	10.5	47
298	Using atmospheric trace gas vertical profiles to evaluate model fluxes: a case study of Arctic-CAP observations and GEOS simulations for the ABoVE domain. <i>Atmospheric Chemistry and Physics</i> , 2022 , 22, 6347-6364	6.8	1
297	Effect of Assimilating SMAP Soil Moisture on CO2 and CH4 Fluxes through Direct Insertion in a Land Surface Model. <i>Remote Sensing</i> , 2022 , 14, 2405	5	0
296	Semiarid ecosystems 2022 , 311-335		
295	Bottom-up approaches for estimating terrestrial GHG budgets: Bookkeeping, process-based modeling, and data-driven methods 2022 , 59-85		
294	Balancing greenhouse gas sources and sinks: Inventories, budgets, and climate policy 2022 , 3-28		
293	Regional impacts of COVID-19 on carbon dioxide detected worldwide from space. <i>Science Advances</i> , 2021 , 7, eabf9415	14.3	10
292	A Review of Global Wetland Carbon Stocks and Management Challenges. <i>Geophysical Monograph Series</i> , 2021 , 1-20	1.1	2
291	Societal shifts due to COVID-19 reveal large-scale complexities and feedbacks between atmospheric chemistry and climate change. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021 , 118,	11.5	5
290	Mapping global forest age from forest inventories, biomass and climate data. <i>Earth System Science Data</i> , 2021 , 13, 4881-4896	10.5	2
289	COVID-19 lockdowns drive decline in active fires in southeastern United States. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021 , 118,	11.5	3

288	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
287	Forest responses to last-millennium hydroclimate variability are governed by spatial variations in ecosystem sensitivity. <i>Ecology Letters</i> , 2021 , 24, 498-508	10	1
286	Substantial hysteresis in emergent temperature sensitivity of global wetland CH emissions. <i>Nature Communications</i> , 2021 , 12, 2266	17.4	10
285	Half of global methane emissions come from highly variable aquatic ecosystem sources. <i>Nature Geoscience</i> , 2021 , 14, 225-230	18.3	77
284	Ecosystem age-class dynamics and distribution in the LPJ-wsl v2.0 global ecosystem model. <i>Geoscientific Model Development</i> , 2021 , 14, 2575-2601	6.3	1
283	Systematic review on effects of bioenergy from edible versus inedible feedstocks on food security. <i>Npj Science of Food</i> , 2021 , 5, 9	6.3	7
282	Modelled land use and land cover change emissions in a spatio-temporal comparison of different approaches. <i>Earth System Dynamics</i> , 2021 , 12, 635-670	4.8	10
281	Increased CO emissions surpass reductions of non-CO emissions more under higher experimental warming in an alpine meadow. <i>Science of the Total Environment</i> , 2021 , 769, 144559	10.2	4
280	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
279	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
278	Identifying dominant environmental predictors of freshwater wetland methane fluxes across diurnal to seasonal time scales. <i>Global Change Biology</i> , 2021 , 27, 3582-3604	11.4	11
277	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
276	Development of the global dataset of Wetland Area and Dynamics for Methane Modeling (WAD2M). <i>Earth System Science Data</i> , 2021 , 13, 2001-2023	10.5	12
275	Bias-correcting carbon fluxes derived from land-surface satellite data for retrospective and near-real-time assimilation systems. <i>Atmospheric Chemistry and Physics</i> , 2021 , 21, 9609-9628	6.8	6
274	FLUXNET-CH ₄ : 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
273	Empirical estimates of regional carbon budgets imply reduced global soil heterotrophic respiration. <i>National Science Review</i> , 2021 , 8, nwa145	10.8	30
272	Beyond ecosystem modeling: A roadmap to community cyberinfrastructure for ecological data-model integration. <i>Global Change Biology</i> , 2021 , 27, 13-26	11.4	15
271	Adapting a dynamic vegetation model for regional biomass, plant biogeography, and fire modeling in the Greater Yellowstone Ecosystem: Evaluating LPJ-GUESS-LMfireCF. <i>Ecological Modelling</i> , 2021 , 440, 109417	3	2

270	Reconciling carbon-cycle processes from ecosystem to global scales. <i>Frontiers in Ecology and the Environment</i> , 2021 , 19, 57-65	5.5	5
269	Spectral Fidelity of Earth's Terrestrial and Aquatic Ecosystems. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2021 , 126, e2021JG006273	3.7	1
268	Drivers of recent forest cover change in southern South America are linked to climate and CO ₂ . <i>Landscape Ecology</i> , 2021 , 36, 3591	4.3	0
267	Land-use harmonization datasets for annual global carbon budgets. <i>Earth System Science Data</i> , 2021 , 13, 4175-4189	10.5	7
266	Large Methane Emissions From the Pantanal During Rising Water-Levels Revealed by Regularly Measured Lower Troposphere CH ₄ Profiles. <i>Global Biogeochemical Cycles</i> , 2021 , 35, e2021GB006964	5.9	0
265	Satellite Constraints on the Latitudinal Distribution and Temperature Sensitivity of Wetland Methane Emissions. <i>AGU Advances</i> , 2021 , 2, e2021AV000408	5.4	5
264	Response to Comments on "Recent global decline of CO fertilization effects on vegetation photosynthesis". <i>Science</i> , 2021 , 373, eabg7484	33.3	2
263	Gap-filling eddy covariance methane fluxes: Comparison of machine learning model predictions and uncertainties at FLUXNET-CH ₄ wetlands. <i>Agricultural and Forest Meteorology</i> , 2021 , 308-309, 108528	5.8	5
262	Using satellite data to identify the methane emission controls of South Sudan's wetlands. <i>Biogeosciences</i> , 2021 , 18, 557-572	4.6	9
261	Recent global decline of CO fertilization effects on vegetation photosynthesis. <i>Science</i> , 2020 , 370, 1295-1300	33.3	107
260	Causes of slowing-down seasonal CO amplitude at Mauna Loa. <i>Global Change Biology</i> , 2020 , 26, 4462-4477	11.4	9
259	Pervasive shifts in forest dynamics in a changing world. <i>Science</i> , 2020 , 368,	33.3	227
258	Impacts of land use change and elevated CO ₂ on the interannual variations and seasonal cycles of gross primary productivity in China. <i>Earth System Dynamics</i> , 2020 , 11, 235-249	4.8	8
257	Critical land change information enhances the understanding of carbon balance in the United States. <i>Global Change Biology</i> , 2020 , 26, 3920-3929	11.4	15
256	Impact of a Regional U.S. Drought on Land and Atmospheric Carbon. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2020 , 125, e2019JG005599	3.7	3
255	Widespread mangrove damage resulting from the 2017 Atlantic mega hurricane season. <i>Environmental Research Letters</i> , 2020 , 15, 064010	6.2	20
254	Hiatus of wetland methane emissions associated with recent La Niña episodes in the Asian monsoon region. <i>Climate Dynamics</i> , 2020 , 54, 4095-4107	4.2	2
253	Quantifying sources of Brazil's CH ₄ emissions between 2010 and 2018 from satellite data. <i>Atmospheric Chemistry and Physics</i> , 2020 , 20, 13041-13067	6.8	11

252	The Global Methane Budget 2000–2017. <i>Earth System Science Data</i> , 2020 , 12, 1561-1623	10.5	463
251	Global Carbon Budget 2020. <i>Earth System Science Data</i> , 2020 , 12, 3269-3340	10.5	533
250	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
249	Sources of Uncertainty in Regional and Global Terrestrial CO ₂ Exchange Estimates. <i>Global Biogeochemical Cycles</i> , 2020 , 34, e2019GB006393	5.9	23
248	Uncertainty Quantification of Global Net Methane Emissions From Terrestrial Ecosystems Using a Mechanistically Based Biogeochemistry Model. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2020 , 125, e2019JG005428	3.7	3
247	Aboveground carbon loss associated with the spread of ghost forests as sea levels rise. <i>Environmental Research Letters</i> , 2020 , 15, 104028	6.2	14
246	Space-Based Observations for Understanding Changes in the Arctic-Boreal Zone. <i>Reviews of Geophysics</i> , 2020 , 58, e2019RG000652	23.1	23
245	Evaluation of simulated soil carbon dynamics in Arctic-Boreal ecosystems. <i>Environmental Research Letters</i> , 2020 , 15, 025005	6.2	11
244	State of the science in reconciling top-down and bottom-up approaches for terrestrial CO budget. <i>Global Change Biology</i> , 2020 , 26, 1068-1084	11.4	19
243	Plant responses to rising vapor pressure deficit. <i>New Phytologist</i> , 2020 , 226, 1550-1566	9.8	249
242	Increasing anthropogenic methane emissions arise equally from agricultural and fossil fuel sources. <i>Environmental Research Letters</i> , 2020 , 15, 071002	6.2	99
241	A Bornean peat swamp forest is a net source of carbon dioxide to the atmosphere. <i>Global Change Biology</i> , 2020 , 26, 6931-6944	11.4	5
240	Land management and climate change determine second-generation bioenergy potential of the US Northern Great Plains. <i>GCB Bioenergy</i> , 2020 , 12, 491-509	5.6	5
239	Global vegetation biomass production efficiency constrained by models and observations. <i>Global Change Biology</i> , 2020 , 26, 1474-1484	11.4	5
238	Harmonization of Global Land-Use Change and Management for the Period 850–100 (LUH2) for CMIP6 2020 ,		15
237	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
236	Multimodel Analysis of Future Land Use and Climate Change Impacts on Ecosystem Functioning. <i>Earth's Future</i> , 2019 , 7, 833-851	7.9	10
235	Field-experiment constraints on the enhancement of the terrestrial carbon sink by CO ₂ fertilization. <i>Nature Geoscience</i> , 2019 , 12, 809-814	18.3	33

234	Prior biosphere model impact on global terrestrial CO ₂ fluxes estimated from OCO-2 retrievals 2019 ,		1
233	Redefining temperate forest responses to climate and disturbance in the eastern United States: New insights at the mesoscale. <i>Global Ecology and Biogeography</i> , 2019 , 28, 557-575	6.1	14
232	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
231	A segmentation algorithm for characterizing rise and fall segments in seasonal cycles: an application to XCO ₂ to estimate benchmarks and assess model bias. <i>Atmospheric Measurement Techniques</i> , 2019 , 12, 2611-2629	4	4
230	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
229	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
228	Modeling phenological controls on carbon dynamics in dryland sagebrush ecosystems. <i>Agricultural and Forest Meteorology</i> , 2019 , 274, 85-94	5.8	12
227	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
226	Five decades of northern land carbon uptake revealed by the interhemispheric CO gradient. <i>Nature</i> , 2019 , 568, 221-225	50.4	77
225	The Arctic-Boreal vulnerability experiment model benchmarking system. <i>Environmental Research Letters</i> , 2019 , 14, 055002	6.2	5
224	Decadal-Scale Vegetation Change Driven by Salinity at Leading Edge of Rising Sea Level. <i>Ecosystems</i> , 2019 , 22, 1918-1930	3.9	20
223	Important role of forest disturbances in the global biomass turnover and carbon sinks. <i>Nature Geoscience</i> , 2019 , 12, 730-735	18.3	53
222	FLUXNET-CH ₄ Synthesis Activity: Objectives, Observations, and Future Directions. <i>Bulletin of the American Meteorological Society</i> , 2019 , 100, 2607-2632	6.1	77
221	Comment on "The global tree restoration potential". <i>Science</i> , 2019 , 366,	33.3	41
220	Carbon and Water Use Efficiencies: A Comparative Analysis of Ten Terrestrial Ecosystem Models under Changing Climate. <i>Scientific Reports</i> , 2019 , 9, 14680	4.9	16
219	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
218	Global Carbon Budget 2019. <i>Earth System Science Data</i> , 2019 , 11, 1783-1838	10.5	776
217	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

216	Prior biosphere model impact on global terrestrial CO ₂ fluxes estimated from OCO-2 retrievals. <i>Atmospheric Chemistry and Physics</i> , 2019 , 19, 13267-13287	6.8	13
215	Large loss of CO in winter observed across the northern permafrost region.. <i>Nature Climate Change</i> , 2019 , 9, 852-857	21.4	112
214	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
213	Methane emissions from tree stems: a new frontier in the global carbon cycle. <i>New Phytologist</i> , 2019 , 222, 18-28	9.8	57
212	Disentangling Climate and Disturbance Effects on Regional Vegetation Greening Trends. <i>Ecosystems</i> , 2019 , 22, 873-891	3.9	17
211	Twentieth century redistribution in climatic drivers of global tree growth. <i>Science Advances</i> , 2019 , 5, eaat4313	14.3	150
210	Spatially Resolved Isotopic Source Signatures of Wetland Methane Emissions. <i>Geophysical Research Letters</i> , 2018 , 45, 3737-3745	4.9	31
209	Contribution of environmental forcings to US runoff changes for the period 1950-2010. <i>Environmental Research Letters</i> , 2018 , 13, 054023	6.2	5
208	Missing pieces to modeling the Arctic-Boreal puzzle. <i>Environmental Research Letters</i> , 2018 , 13, 020202	6.2	39
207	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
206	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
205	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
204	Disentangling competitive vs. climatic drivers of tropical forest mortality. <i>Journal of Ecology</i> , 2018 , 106, 1165-1179	6	20
203	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
202	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
201	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
200	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
199	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

198	Global Carbon Budget 2018. <i>Earth System Science Data</i> , 2018 , 10, 2141-2194	10.5	831
197	Global Carbon Budget 2017. <i>Earth System Science Data</i> , 2018 , 10, 405-448	10.5	614
196	Converging Climate Sensitivities of European Forests Between Observed Radial Tree Growth and Vegetation Models. <i>Ecosystems</i> , 2018 , 21, 410-425	3.9	21
195	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
194	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
193	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
192	The impact of spatiotemporal variability in atmospheric CO ₂ concentration on global terrestrial carbon fluxes. <i>Biogeosciences</i> , 2018 , 15, 5635-5652	4.6	7
191	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
190	Precipitation thresholds regulate net carbon exchange at the continental scale. <i>Nature Communications</i> , 2018 , 9, 3596	17.4	22
189	A Wood Biology Agenda to Support Global Vegetation Modelling. <i>Trends in Plant Science</i> , 2018 , 23, 1006-1015	10.1	27
188	A protocol for an intercomparison of biodiversity and ecosystem services models using harmonized land-use and climate scenarios 2018 ,		1
187	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
186	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
185	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
184	Compensatory water effects link yearly global land CO sink changes to temperature. <i>Nature</i> , 2017 , 541, 516-520	50.4	341
183	Improved tree-ring archives will support earth-system science. <i>Nature Ecology and Evolution</i> , 2017 , 1, 8	12.3	49
182	Enhanced methane emissions from tropical wetlands during the 2011 La Niña. <i>Scientific Reports</i> , 2017 , 7, 45759	4.9	33
181	Diagnosing phosphorus limitations in natural terrestrial ecosystems in carbon cycle models. <i>Earth's Future</i> , 2017 , 5, 730-749	7.9	33

180	Global wetland contribution to 2000–2012 atmospheric methane growth rate dynamics. <i>Environmental Research Letters</i> , 2017 , 12, 094013	6.2	97
179	Interannual variability of ecosystem carbon exchange: From observation to prediction. <i>Global Ecology and Biogeography</i> , 2017 , 26, 1225-1237	6.1	42
178	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
177	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
176	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
175	Global land carbon sink response to temperature and precipitation varies with ENSO phase. <i>Environmental Research Letters</i> , 2017 , 12, 064007	6.2	29
174	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
173	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
172	Higher temperature variability reduces temperature sensitivity of vegetation growth in Northern Hemisphere. <i>Geophysical Research Letters</i> , 2017 , 44, 6173-6181	4.9	19
171	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
170	Assimilating satellite-based canopy height within an ecosystem model to estimate aboveground forest biomass. <i>Geophysical Research Letters</i> , 2017 , 44, 6823-6832	4.9	9
169	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
168	Variability and quasi-decadal changes in the methane budget over the period 2000–2012 2017 ,		2
167	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
166	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
165	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
164	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
163	Top-down assessment of the Asian carbon budget since the mid 1990s. <i>Nature Communications</i> , 2016 , 7, 10724	17.4	64

162	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
161	Decrease in winter respiration explains 25% of the annual northern forest carbon sink enhancement over the last 30 years. <i>Global Ecology and Biogeography</i> , 2016 , 25, 586-595	6.1	14
160	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
159	The terrestrial biosphere as a net source of greenhouse gases to the atmosphere. <i>Nature</i> , 2016 , 531, 225-8	50.4	278
158	Global Carbon Budget 2016. <i>Earth System Science Data</i> , 2016 , 8, 605-649	10.5	730
157	The global methane budget 2000-2012. <i>Earth System Science Data</i> , 2016 , 8, 697-751	10.5	641
156	The carbon cycle in Mexico: past, present and future of C stocks and fluxes. <i>Biogeosciences</i> , 2016 , 13, 223-238	4.6	21
155	A multi-scale comparison of modeled and observed seasonal methane emissions in northern wetlands. <i>Biogeosciences</i> , 2016 , 13, 5043-5056	4.6	22
154	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
153	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
152	Multi-gas and multi-source comparisons of six land use emission datasets and AFOLU estimates in the Fifth Assessment Report, for the tropics for 2000-2005. <i>Biogeosciences</i> , 2016 , 13, 5799-5819	4.6	6
151	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
150	Seasonal responses of terrestrial ecosystem water-use efficiency to climate change. <i>Global Change Biology</i> , 2016 , 22, 2165-77	11.4	57
149	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
148	The dry season intensity as a key driver of NPP trends. <i>Geophysical Research Letters</i> , 2016 , 43, 2632-2639	4.9	42
147	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
146	The terrestrial carbon budget of South and Southeast Asia. <i>Environmental Research Letters</i> , 2016 , 11, 105006	6.2	26
145	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

144	Drought rapidly diminishes the large net CO uptake in 2011 over semi-arid Australia. <i>Scientific Reports</i> , 2016 , 6, 37747	4.9	58
143	The growing role of methane in anthropogenic climate change. <i>Environmental Research Letters</i> , 2016 , 11, 120207	6.2	190
142	Greening of the Earth and its drivers. <i>Nature Climate Change</i> , 2016 , 6, 791-795	21.4	1036
141	Change in terrestrial ecosystem water-use efficiency over the last three decades. <i>Global Change Biology</i> , 2015 , 21, 2366-78	11.4	144
140	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
139	Improving the dynamics of northern vegetation in the ORCHIDEE ecosystem model 2015 ,		1
138	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
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33	An empirical spatiotemporal description of the global surface-atmosphere carbon fluxes: opportunities and data limitations		2
32	Land-use and land-cover change carbon emissions between 1901 and 2012 constrained by biomass observations		
31	Using satellite data to identify the methane emission controls of South Sudan's wetlands		2
30	Current systematic carbon cycle observations and needs for implementing a policy-relevant carbon observing system		10
29	Evaluating the potential of large scale simulations to predict carbon fluxes of terrestrial ecosystems over a European Eddy Covariance network		2
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