

S S Peng

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.

195
papers

17,205
citations

57
h-index

129
g-index

232
ext. papers

21,956
ext. citations

9.7
avg, IF

6.22
L-index

#	Paper	IF	Citations
195	A strong mitigation scenario maintains climate neutrality of northern peatlands. <i>One Earth</i> , 2022 , 5, 86-97	11.1	1
194	Regional trends and drivers of the global methane budget. <i>Global Change Biology</i> , 2022 , 28, 182-200	11.4	14
193	Retention of deposited ammonium and nitrate and its impact on the global forest carbon sink.. <i>Nature Communications</i> , 2022 , 13, 880	17.4	5
192	A global map of planting years of plantations.. <i>Scientific Data</i> , 2022 , 9, 141	8.2	3
191	Trade-off between tree planting and wetland conservation in China.. <i>Nature Communications</i> , 2022 , 13, 1967	17.4	0
190	Reply to Comment by Rigolot on Narratives Behind Livestock Methane Mitigation Studies Matter[] <i>AGU Advances</i> , 2021 , 2, e2021AV000549	5.4	1
189	Wetlands of North Africa During the Mid-Holocene Were at Least Five Times the Area Today. <i>Geophysical Research Letters</i> , 2021 , 48, e2021GL094194	4.9	0
188	A comparative study of anthropogenic CH ₄ emissions over China based on the ensembles of bottom-up inventories. <i>Earth System Science Data</i> , 2021 , 13, 1073-1088	10.5	3
187	Irrigation, damming, and streamflow fluctuations of the Yellow River. <i>Hydrology and Earth System Sciences</i> , 2021 , 25, 1133-1150	5.5	4
186	Wetlands Cool Land Surface Temperature in Tropical Regions but Warm in Boreal Regions. <i>Remote Sensing</i> , 2021 , 13, 1439	5	4
185	Reply to: Disentangling biology from mathematical necessity in twentieth-century gymnosperm resilience trends. <i>Nature Ecology and Evolution</i> , 2021 , 5, 736-737	12.3	0
184	The Key Role of Production Efficiency Changes in Livestock Methane Emission Mitigation. <i>AGU Advances</i> , 2021 , 2, e2021AV000391	5.4	8
183	A Process-Based Model Integrating Remote Sensing Data for Evaluating Ecosystem Services. <i>Journal of Advances in Modeling Earth Systems</i> , 2021 , 13, e2020MS002451	7.1	4
182	Vapor Pressure Deficit and Sunlight Explain Seasonality of Leaf Phenology and Photosynthesis Across Amazonian Evergreen Broadleaved Forest. <i>Global Biogeochemical Cycles</i> , 2021 , 35, e2020GB006893	5.9	12
181	Low and contrasting impacts of vegetation CO ₂ fertilization on global terrestrial runoff over 1982-2010: accounting for aboveground and belowground vegetation effects. <i>Hydrology and Earth System Sciences</i> , 2021 , 25, 3411-3427	5.5	1
180	Large historical carbon emissions from cultivated northern peatlands. <i>Science Advances</i> , 2021 , 7,	14.3	12
179	Fire enhances forest degradation within forest edge zones in Africa. <i>Nature Geoscience</i> , 2021 , 14, 479-488	8.3	5

178	Empirical estimates of regional carbon budgets imply reduced global soil heterotrophic respiration. <i>National Science Review</i> , 2021 , 8, nwa145	10.8	30
177	Future impacts of climate change on inland Ramsar wetlands. <i>Nature Climate Change</i> , 2021 , 11, 45-51	21.4	28
176	Climate warming from managed grasslands cancels the cooling effect of carbon sinks in sparsely grazed and natural grasslands. <i>Nature Communications</i> , 2021 , 12, 118	17.4	34
175	Soil moisture seasonality alters vegetation response to drought in the Mongolian Plateau. <i>Environmental Research Letters</i> , 2021 , 16, 014050	6.2	3
174	Stoichiometric models of microbial metabolic limitation in soil systems. <i>Global Ecology and Biogeography</i> , 2021 , 30, 2297	6.1	7
173	Recent Slowdown of Anthropogenic Methane Emissions in China Driven by Stabilized Coal Production. <i>Environmental Science and Technology Letters</i> , 2021 , 8, 739-746	11	4
172	A warm summer is unlikely to stop transmission of COVID-19 naturally. <i>GeoHealth</i> , 2020 , 4, e2020GH000392	3.92	6
171	Causes of slowing-down seasonal CO amplitude at Mauna Loa. <i>Global Change Biology</i> , 2020 , 26, 4462-4477	11.4	9
170	Temporal trade-off between gymnosperm resistance and resilience increases forest sensitivity to extreme drought. <i>Nature Ecology and Evolution</i> , 2020 , 4, 1075-1083	12.3	42
169	Deceleration of China's human water use and its key drivers. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020 , 117, 7702-7711	11.5	61
168	The role of northern peatlands in the global carbon cycle for the 21st century. <i>Global Ecology and Biogeography</i> , 2020 , 29, 956-973	6.1	20
167	Soil moisture and hydrology projections of the permafrost region in a model intercomparison. <i>Cryosphere</i> , 2020 , 14, 445-459	5.5	44
166	Improvement of the Irrigation Scheme in the ORCHIDEE Land Surface Model and Impacts of Irrigation on Regional Water Budgets Over China. <i>Journal of Advances in Modeling Earth Systems</i> , 2020 , 12, e2019MS001770	7.1	7
165	The Global Methane Budget 2000-2017. <i>Earth System Science Data</i> , 2020 , 12, 1561-1623	10.5	463
164	Missed atmospheric organic phosphorus emitted by terrestrial plants, part 2: Experiment of volatile phosphorus. <i>Environmental Pollution</i> , 2020 , 258, 113728	9.3	3
163	Novel Representation of Leaf Phenology Improves Simulation of Amazonian Evergreen Forest Photosynthesis in a Land Surface Model. <i>Journal of Advances in Modeling Earth Systems</i> , 2020 , 12, e2018MS001565	7.1	225
162	Global terrestrial carbon fluxes of 1999-2019 estimated by upscaling eddy covariance data with a random forest. <i>Scientific Data</i> , 2020 , 7, 313	8.2	21
161	Global vegetation biomass production efficiency constrained by models and observations. <i>Global Change Biology</i> , 2020 , 26, 1474-1484	11.4	5

160	Attribution of Lake Warming in Four Shallow Lakes in the Middle and Lower Yangtze River Basin. <i>Environmental Science & Technology</i> , 2019 , 53, 12548-12555	10.3	9
159	Modelling the impacts of climate and land use changes on soil water erosion: Model applications, limitations and future challenges. <i>Journal of Environmental Management</i> , 2019 , 250, 109403	7.9	38
158	Surface conductance for evapotranspiration of tropical forests: Calculations, variations, and controls. <i>Agricultural and Forest Meteorology</i> , 2019 , 275, 317-328	5.8	15
157	The impacts of climate extremes on the terrestrial carbon cycle: A review. <i>Science China Earth Sciences</i> , 2019 , 62, 1551-1563	4.6	54
156	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
155	Changes in productivity and carbon storage of grasslands in China under future global warming scenarios of 1.5°C and 2°C. <i>Journal of Plant Ecology</i> , 2019 , 12, 804-814	1.7	11
154	Air temperature optima of vegetation productivity across global biomes. <i>Nature Ecology and Evolution</i> , 2019 , 3, 772-779	12.3	128
153	The weakening relationship between Eurasian spring snow cover and Indian summer monsoon rainfall. <i>Science Advances</i> , 2019 , 5, eaau8932	14.3	22
152	Five decades of northern land carbon uptake revealed by the interhemispheric CO gradient. <i>Nature</i> , 2019 , 568, 221-225	50.4	77
151	Spatial Pattern and Environmental Drivers of Acid Phosphatase Activity in Europe. <i>Frontiers in Big Data</i> , 2019 , 2, 51	2.8	5
150	Greenhouse Gas Concentration and Volcanic Eruptions Controlled the Variability of Terrestrial Carbon Uptake Over the Last Millennium. <i>Journal of Advances in Modeling Earth Systems</i> , 2019 , 11, 1715-1734	7.7	2
149	Modelling northern peatland area and carbon dynamics since the Holocene with the ORCHIDEE-PEAT land surface model (SVN r5488). <i>Geoscientific Model Development</i> , 2019 , 12, 2961-2982	6.3	12
148	Revisiting enteric methane emissions from domestic ruminants and their $\delta^{13}C$ source signature. <i>Nature Communications</i> , 2019 , 10, 3420	17.4	40
147	Temperature sensitivity of soil respiration across multiple time scales in a temperate plantation forest. <i>Science of the Total Environment</i> , 2019 , 688, 479-485	10.2	16
146	Tropical forest soils serve as substantial and persistent methane sinks. <i>Scientific Reports</i> , 2019 , 9, 16799	4.9	9
145	Strong but Intermittent Spatial Covariations in Tropical Land Temperature. <i>Geophysical Research Letters</i> , 2019 , 46, 356-364	4.9	6
144	Mapping global forest biomass and its changes over the first decade of the 21st century. <i>Science China Earth Sciences</i> , 2019 , 62, 585-594	4.6	4
143	Ectomycorrhizal fungi respiration quantification and drivers in three differently-aged larch plantations. <i>Agricultural and Forest Meteorology</i> , 2019 , 265, 245-251	5.8	5

142	The large mean body size of mammalian herbivores explains the productivity paradox during the Last Glacial Maximum. <i>Nature Ecology and Evolution</i> , 2018 , 2, 640-649	12.3	25
141	Inventory of methane emissions from livestock in China from 1980 to 2013. <i>Atmospheric Environment</i> , 2018 , 184, 69-76	5.3	15
140	Dominant regions and drivers of the variability of the global land carbon sink across timescales. <i>Global Change Biology</i> , 2018 , 24, 3954-3968	11.4	16
139	Extension of the growing season increases vegetation exposure to frost. <i>Nature Communications</i> , 2018 , 9, 426	17.4	106
138	Afforestation neutralizes soil pH. <i>Nature Communications</i> , 2018 , 9, 520	17.4	62
137	Recent Changes in Global Photosynthesis and Terrestrial Ecosystem Respiration Constrained From Multiple Observations. <i>Geophysical Research Letters</i> , 2018 , 45, 1058-1068	4.9	12
136	Dependence of the evolution of carbon dynamics in the northern permafrost region on the trajectory of climate change. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018 , 115, 3882-3887	11.5	186
135	Increasingly Important Role of Atmospheric Aridity on Tibetan Alpine Grasslands. <i>Geophysical Research Letters</i> , 2018 , 45, 2852-2859	4.9	65
134	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
133	Simulating CH ₄ and CO ₂ over South and East Asia using the zoomed chemistry transport model LMDz-INCA. <i>Atmospheric Chemistry and Physics</i> , 2018 , 18, 9475-9497	6.8	13
132	Relations between bacterial communities and enzyme functions of two paddy soils. <i>European Journal of Soil Science</i> , 2018 , 69, 655-665	3.4	2
131	Divergent hydrological response to large-scale afforestation and vegetation greening in China. <i>Science Advances</i> , 2018 , 4, eaar4182	14.3	128
130	Quantifying the unauthorized lake water withdrawals and their impacts on the water budget of eutrophic lake Dianchi, China. <i>Journal of Hydrology</i> , 2018 , 565, 39-48	6	9
129	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
128	Identification of typical diurnal patterns for clear-sky climatology of surface urban heat islands. <i>Remote Sensing of Environment</i> , 2018 , 217, 203-220	13.2	50
127	Gross and net land cover changes in the main plant functional types derived from the annual ESA CCI land cover maps (1992-2015). <i>Earth System Science Data</i> , 2018 , 10, 219-234	10.5	126
126	A global yield dataset for major lignocellulosic bioenergy crops based on field measurements. <i>Scientific Data</i> , 2018 , 5, 180169	8.2	17
125	Analysis of slight precipitation in China during the past decades and its relationship with advanced very high radiometric resolution normalized difference vegetation index. <i>International Journal of Climatology</i> , 2018 , 38, 5563-5575	3.5	1

124	ORCHIDEE-MICT-BIOENERGY: an attempt to represent the production of lignocellulosic crops for bioenergy in a global vegetation model. <i>Geoscientific Model Development</i> , 2018 , 11, 2249-2272	6.3	12
123	Evaluation of ORCHIDEE-MICT-simulated soil moisture over China and impacts of different atmospheric forcing data. <i>Hydrology and Earth System Sciences</i> , 2018 , 22, 5463-5484	5.5	9
122	Broad Consistency Between Satellite and Vegetation Model Estimates of Net Primary Productivity Across Global and Regional Scales. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2018 , 123, 3603-3616	3.7	13
121	Contributions of Climate Change, CO ₂ , Land-Use Change, and Human Activities to Changes in River Flow across 10 Chinese Basins. <i>Journal of Hydrometeorology</i> , 2018 , 19, 1899-1914	3.7	15
120	Emerging negative impact of warming on summer carbon uptake in northern ecosystems. <i>Nature Communications</i> , 2018 , 9, 5391	17.4	13
119	GOLUM-CNP v1.0: a data-driven modeling of carbon, nitrogen and phosphorus cycles in major terrestrial biomes. <i>Geoscientific Model Development</i> , 2018 , 11, 3903-3928	6.3	21
118	Modelling northern peatlands area and carbon dynamics since the Holocene with the ORCHIDEE-PEAT land surface model (SVN r5488) 2018 ,		1
117	The carbon sequestration potential of China's grasslands. <i>Ecosphere</i> , 2018 , 9, e02452	3.1	11
116	Non-uniform seasonal warming regulates vegetation greening and atmospheric CO ₂ amplification over northern lands. <i>Environmental Research Letters</i> , 2018 , 13, 124008	6.2	8
115	Gross changes in forest area shape the future carbon balance of tropical forests. <i>Biogeosciences</i> , 2018 , 15, 91-103	4.6	3
114	Changing the retention properties of catchments and their influence on runoff under climate change. <i>Environmental Research Letters</i> , 2018 , 13, 094019	6.2	15
113	Temporal response of soil organic carbon after grassland-related land-use change. <i>Global Change Biology</i> , 2018 , 24, 4731-4746	11.4	24
112	Representing anthropogenic gross land use change, wood harvest, and forest age dynamics in a global vegetation model ORCHIDEE-MICT v8.4.2. <i>Geoscientific Model Development</i> , 2018 , 11, 409-428	6.3	23
111	Partitioning global land evapotranspiration using CMIP5 models constrained by observations. <i>Nature Climate Change</i> , 2018 , 8, 640-646	21.4	123
110	ORCHIDEE-MICT (v8.4.1), a land surface model for the high latitudes: model description and validation. <i>Geoscientific Model Development</i> , 2018 , 11, 121-163	6.3	100
109	ORCHIDEE-PEAT (revision 4596), a model for northern peatland CO ₂ , water, and energy fluxes on daily to annual scales. <i>Geoscientific Model Development</i> , 2018 , 11, 497-519	6.3	32
108	Terrestrial ecosystem model performance in simulating productivity and its vulnerability to climate change in the northern permafrost region. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2017 , 122, 430-446	3.7	35
107	Spatiotemporal variations in the difference between satellite-observed daily maximum land surface temperature and station-based daily maximum near-surface air temperature. <i>Journal of Geophysical Research D: Atmospheres</i> , 2017 , 122, 2254-2268	4.4	11

106	Sensitivity of land use change emission estimates to historical land use and land cover mapping. <i>Global Biogeochemical Cycles</i> , 2017 , 31, 626-643	5.9	26
105	Evidence and mapping of extinction debts for global forest-dwelling reptiles, amphibians and mammals. <i>Scientific Reports</i> , 2017 , 7, 44305	4.9	7
104	Weakening temperature control on the interannual variations of spring carbon uptake across northern lands. <i>Nature Climate Change</i> , 2017 , 7, 359-363	21.4	107
103	The effects of teleconnections on carbon fluxes of global terrestrial ecosystems. <i>Geophysical Research Letters</i> , 2017 , 44, 3209-3218	4.9	36
102	Attribution of seasonal leaf area index trends in the northern latitudes with "optimally" integrated ecosystem models. <i>Global Change Biology</i> , 2017 , 23, 4798-4813	11.4	26
101	Was the extreme Northern Hemisphere greening in 2015 predictable?. <i>Environmental Research Letters</i> , 2017 , 12, 044016	6.2	18
100	Global forest carbon uptake due to nitrogen and phosphorus deposition from 1850 to 2100. <i>Global Change Biology</i> , 2017 , 23, 4854-4872	11.4	95
99	Diagnosing phosphorus limitations in natural terrestrial ecosystems in carbon cycle models. <i>Earth's Future</i> , 2017 , 5, 730-749	7.9	33
98	Regional patterns of future runoff changes from Earth system models constrained by observation. <i>Geophysical Research Letters</i> , 2017 , 44, 5540-5549	4.9	18
97	Climate mitigation from vegetation biophysical feedbacks during the past three decades. <i>Nature Climate Change</i> , 2017 , 7, 432-436	21.4	181
96	Global wetland contribution to 2000-2012 atmospheric methane growth rate dynamics. <i>Environmental Research Letters</i> , 2017 , 12, 094013	6.2	97
95	Velocity of change in vegetation productivity over northern high latitudes. <i>Nature Ecology and Evolution</i> , 2017 , 1, 1649-1654	12.3	43
94	ORCHIDEE-PEAT (revision 4596), a model for northern peatland CO ₂ , water and energy fluxes on daily to annual scales 2017 ,		1
93	Carbon stocks and fluxes in the high latitudes: using site-level data to evaluate Earth system models. <i>Biogeosciences</i> , 2017 , 14, 5143-5169	4.6	30
92	Representing anthropogenic gross land use change, wood harvest and forest age dynamics in a global vegetation model ORCHIDEE-MICT (r4259) 2017 ,		4
91	Simulating CH ₄ and CO ₂ over South and East Asia using the zoomed chemistry transport model LMDzINCA 2017 ,		1
90	Benchmarking carbon fluxes of the ISIMIP2a biome models. <i>Environmental Research Letters</i> , 2017 , 12, 045002	6.2	23
89	Global land carbon sink response to temperature and precipitation varies with ENSO phase. <i>Environmental Research Letters</i> , 2017 , 12, 064007	6.2	29

88	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
87	Temperature increase reduces global yields of major crops in four independent estimates. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017 , 114, 9326-9331	11.5	886
86	Grassland restoration reduces water yield in the headstream region of Yangtze River. <i>Scientific Reports</i> , 2017 , 7, 2162	4.9	31
85	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
84	ORCHIDEE-MICT (revision 4126), a land surface model for the high-latitudes: model description and validation 2017 ,		3
83	A representation of the phosphorus cycle for ORCHIDEE (revision 4520). <i>Geoscientific Model Development</i> , 2017 , 10, 3745-3770	6.3	78
82	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
81	Quantifying uncertainties of permafrost carbon–climate feedbacks. <i>Biogeosciences</i> , 2017 , 14, 3051-3066	4.6	43
80	Plausible rice yield losses under future climate warming. <i>Nature Plants</i> , 2016 , 3, 16202	11.5	55
79	Field warming experiments shed light on the wheat yield response to temperature in China. <i>Nature Communications</i> , 2016 , 7, 13530	17.4	39
78	Evaluating biases in simulated land surface albedo from CMIP5 global climate models. <i>Journal of Geophysical Research D: Atmospheres</i> , 2016 , 121, 6178-6190	4.4	27
77	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
76	Variability in the sensitivity among model simulations of permafrost and carbon dynamics in the permafrost region between 1960 and 2009. <i>Global Biogeochemical Cycles</i> , 2016 , 30, 1015-1037	5.9	83
75	Reducing uncertainties in decadal variability of the global carbon budget with multiple datasets. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016 , 113, 13104-13108	11.5	28
74	Inventory of anthropogenic methane emissions in mainland China from 1980 to 2010. <i>Atmospheric Chemistry and Physics</i> , 2016 , 16, 14545-14562	6.8	64
73	The contribution of China's emissions to global climate forcing. <i>Nature</i> , 2016 , 531, 357-61	50.4	145
72	Age-Related Modulation of the Nitrogen Resorption Efficiency Response to Growth Requirements and Soil Nitrogen Availability in a Temperate Pine Plantation. <i>Ecosystems</i> , 2016 , 19, 698-709	3.9	46
71	Major forest changes and land cover transitions based on plant functional types derived from the ESA CCI Land Cover product. <i>International Journal of Applied Earth Observation and Geoinformation</i> , 2016 , 47, 30-39	7.3	46

70	The global methane budget 2000-2012. <i>Earth System Science Data</i> , 2016 , 8, 697-751	10.5	641
69	Evaluation of air-soil temperature relationships simulated by land surface models during winter across the permafrost region. <i>Cryosphere</i> , 2016 , 10, 1721-1737	5.5	29
68	Re-evaluating the 1940s CO ₂ plateau. <i>Biogeosciences</i> , 2016 , 13, 4877-4897	4.6	14
67	Inventory of anthropogenic methane emissions in Mainland China from 1980 to 2010 2016 ,		1
66	Combining livestock production information in a process-based vegetation model to reconstruct the history of grassland management. <i>Biogeosciences</i> , 2016 , 13, 3757-3776	4.6	23
65	How have past fire disturbances contributed to the current carbon balance of boreal ecosystems?. <i>Biogeosciences</i> , 2016 , 13, 675-690	4.6	29
64	The Effect of Afforestation on Soil Moisture Content in Northeastern China. <i>PLoS ONE</i> , 2016 , 11, e0160736	3.6	25
63	Simulated high-latitude soil thermal dynamics during the past 4 decades. <i>Cryosphere</i> , 2016 , 10, 179-192	5.5	12
62	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
61	Seasonal responses of terrestrial ecosystem water-use efficiency to climate change. <i>Global Change Biology</i> , 2016 , 22, 2165-77	11.4	57
60	Simulating soil organic carbon in yedoma deposits during the Last Glacial Maximum in a land surface model. <i>Geophysical Research Letters</i> , 2016 , 43, 5133-5142	4.9	16
59	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
58	Rapid degradation of permafrost underneath waterbodies in tundra landscapes: toward a representation of thermokarst in land surface models. <i>Journal of Geophysical Research F: Earth Surface</i> , 2016 , 121, 2446-2470	3.8	36
57	Greening of the Earth and its drivers. <i>Nature Climate Change</i> , 2016 , 6, 791-795	21.4	1036
56	Long-term linear trends mask phenological shifts. <i>International Journal of Biometeorology</i> , 2016 , 60, 1613-16134	3.1	13
55	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
54	Improving the dynamics of northern vegetation in the ORCHIDEE ecosystem model 2015 ,		1
53	Spring snow cover deficit controlled by intraseasonal variability of the surface energy fluxes. <i>Environmental Research Letters</i> , 2015 , 10, 024018	6.2	21

52	Leaf onset in the northern hemisphere triggered by daytime temperature. <i>Nature Communications</i> , 2015 , 6, 6911	17.4	261
51	Changes in forest biomass over China during the 2000s and implications for management. <i>Forest Ecology and Management</i> , 2015 , 357, 76-83	3.9	14
50	Declining global warming effects on the phenology of spring leaf unfolding. <i>Nature</i> , 2015 , 526, 104-7	50.4	409
49	A simplified, data-constrained approach to estimate the permafrost carbon-climate feedback. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2015 , 373,	3	125
48	Seasonally different response of photosynthetic activity to daytime and night-time warming in the Northern Hemisphere. <i>Global Change Biology</i> , 2015 , 21, 377-87	11.4	48
47	Reduced carbon emission estimates from fossil fuel combustion and cement production in China. <i>Nature</i> , 2015 , 524, 335-8	50.4	804
46	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
45	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
44	Toward optimal integration of terrestrial biosphere models. <i>Geophysical Research Letters</i> , 2015 , 42, 4418-4428	4.9	42
43	Disentangling climatic and anthropogenic controls on global terrestrial evapotranspiration trends. <i>Environmental Research Letters</i> , 2015 , 10, 094008	6.2	93
42	Assessment of model estimates of land-atmosphere CO ₂ exchange across Northern Eurasia. <i>Biogeosciences</i> , 2015 , 12, 4385-4405	4.6	24
41	Site-level model intercomparison of high latitude and high altitude soil thermal dynamics in tundra and barren landscapes. <i>Cryosphere</i> , 2015 , 9, 1343-1361	5.5	32
40	Impacts of Satellite-Based Snow Albedo Assimilation on Offline and Coupled Land Surface Model Simulations. <i>PLoS ONE</i> , 2015 , 10, e0137275	3.7	10
39	Global carbon budget 2014. <i>Earth System Science Data</i> , 2015 , 7, 47-85	10.5	367
38	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
37	A two-fold increase of carbon cycle sensitivity to tropical temperature variations. <i>Nature</i> , 2014 , 506, 212-5	50.4	210
36	Evidence for a weakening relationship between interannual temperature variability and northern vegetation activity. <i>Nature Communications</i> , 2014 , 5, 5018	17.4	274
35	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

34	A new high-resolution N ₂ O emission inventory for China in 2008. <i>Environmental Science & Technology</i> , 2014 , 48, 8538-47	10.3	57
33	Testing conceptual and physically based soil hydrology schemes against observations for the Amazon Basin. <i>Geoscientific Model Development</i> , 2014 , 7, 1115-1136	6.3	44
32	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
31	Multimodel projections and uncertainties of net ecosystem production in China over the twenty-first century. <i>Science Bulletin</i> , 2014 , 59, 4681-4691		9
30	Afforestation in China cools local land surface temperature. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014 , 111, 2915-9	11.5	329
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8	Land-use and land-cover change carbon emissions between 1901 and 2012 constrained by biomass observations		
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