

Shilong Piao

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.

366
papers

43,960
citations

103
h-index

204
g-index

385
ext. papers

55,799
ext. citations

10.4
avg, IF

7.33
L-index

#	Paper	IF	Citations
366	Contrasting phenology responses to climate warming across the northern extra-tropics. <i>Fundamental Research</i> , 2022 ,		1
365	The response of the suspended sediment load of the headwaters of the Brahmaputra River to climate change: Quantitative attribution to the effects of hydrological, cryospheric and vegetation controls. <i>Global and Planetary Change</i> , 2022 , 210, 103753	4.2	0
364	Worldwide impacts of atmospheric vapor pressure deficit on the interannual variability of terrestrial carbon sinks.. <i>National Science Review</i> , 2022 , 9, nwab150	10.8	5
363	Higher temperature sensitivity of flowering than leaf-out alters the time between phenophases across temperate tree species. <i>Global Ecology and Biogeography</i> , 2022 , 31, 901-911	6.1	1
362	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
361	An earlier start of the thermal growing season enhances tree growth in cold humid areas but not in dry areas.. <i>Nature Ecology and Evolution</i> , 2022 ,	12.3	5
360	Estimation of China's terrestrial ecosystem carbon sink: Methods, progress and prospects. <i>Science China Earth Sciences</i> , 2022 , 65, 641-651	4.6	4
359	SOIL CARBON DYNAMICS AND RESPONSES TO ENVIRONMENTAL CHANGES 2022 , 207-231		
358	Vegetation Physiological Response to Increasing Atmospheric CO ₂ Slows the Decreases in the Seasonal Amplitude of Temperature. <i>Geophysical Research Letters</i> , 2022 , 49,	4.9	
357	Occurrence of crop pests and diseases has largely increased in China since 1970. <i>Nature Food</i> , 2022 , 3, 57-65	14.4	2
356	Perspectives on the role of terrestrial ecosystems in the carbon neutrality strategy. <i>Science China Earth Sciences</i> , 2022 , 65, 1178-1186	4.6	3
355	Optimal temperature of vegetation productivity and its linkage with climate and elevation on the Tibetan Plateau. <i>Global Change Biology</i> , 2021 , 27, 1942-1951	11.4	11
354	Mining Can Exacerbate Global Degradation of Dryland. <i>Geophysical Research Letters</i> , 2021 , 48, e2021GL029493	4.9	3
353	The stimulatory effect of elevated CO ₂ on soil respiration is unaffected by N addition. <i>Science of the Total Environment</i> , 2021 , 813, 151907	10.2	
352	Tropical tall forests are more sensitive and vulnerable to drought than short forests. <i>Global Change Biology</i> , 2021 , 28, 1583	11.4	3
351	Multifaceted characteristics of dryland aridity changes in a warming world. <i>Nature Reviews Earth & Environment</i> , 2021 , 2, 232-250	30.2	57
350	Responses of vegetation greenness and carbon cycle to extreme droughts in China. <i>Agricultural and Forest Meteorology</i> , 2021 , 298-299, 108307	5.8	10

349	Irrigation, damming, and streamflow fluctuations of the Yellow River. <i>Hydrology and Earth System Sciences</i> , 2021 , 25, 1133-1150	5.5	4
348	Warming homogenizes apparent temperature sensitivity of ecosystem respiration. <i>Science Advances</i> , 2021 , 7,	14.3	6
347	Emerging negative warming impacts on tibetan crop yield. <i>Engineering</i> , 2021 ,	9.7	2
346	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
345	Divergent responses of ecosystem water use efficiency to drought timing over Northern Eurasia. <i>Environmental Research Letters</i> , 2021 , 16, 045016	6.2	3
344	The contributions of individual countries and regions to the global radiative forcing. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021 , 118,	11.5	4
343	The Tibetan Plateau as the engine for Asian environmental change: the Tibetan Plateau Earth system research into a new era. <i>Science Bulletin</i> , 2021 , 66, 1263-1263	10.6	7
342	Carbon turnover times shape topsoil carbon difference between Tibetan Plateau and Arctic tundra. <i>Science Bulletin</i> , 2021 ,	10.6	4
341	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
340	A small climate-amplifying effect of climate-carbon cycle feedback. <i>Nature Communications</i> , 2021 , 12, 2952	17.4	1
339	Unusual characteristics of the carbon cycle during the 2015-2016 El Niño. <i>Global Change Biology</i> , 2021 , 27, 3798-3809	11.4	1
338	Low and contrasting impacts of vegetation CO ₂ fertilization on global terrestrial runoff over 1982-2010: accounting for aboveground and belowground vegetation N ₂ O effects. <i>Hydrology and Earth System Sciences</i> , 2021 , 25, 3411-3427	5.5	1
337	Ambient climate determines the directional trend of community stability under warming and grazing. <i>Global Change Biology</i> , 2021 , 27, 5198-5210	11.4	1
336	Higher soil acidification risk in southeastern Tibetan Plateau. <i>Science of the Total Environment</i> , 2021 , 755, 143372	10.2	5
335	Deforestation-induced warming over tropical mountain regions regulated by elevation. <i>Nature Geoscience</i> , 2021 , 14, 23-29	18.3	20
334	Data-driven estimates of global litter production imply slower vegetation carbon turnover. <i>Global Change Biology</i> , 2021 , 27, 1678-1688	11.4	2
333	Global irrigation contribution to wheat and maize yield. <i>Nature Communications</i> , 2021 , 12, 1235	17.4	11
332	Seasonal biological carryover dominates northern vegetation growth. <i>Nature Communications</i> , 2021 , 12, 983	17.4	9

331	Effects of extreme temperature on China's tea production. <i>Environmental Research Letters</i> , 2021 , 16, 044040	6.2	5
330	Vegetation Response to Rising CO2 Amplifies Contrasts in Water Resources Between Global Wet and Dry Land Areas. <i>Geophysical Research Letters</i> , 2021 , 48, e2021GL094293	4.9	0
329	A global map of root biomass across the world's forests. <i>Earth System Science Data</i> , 2021 , 13, 4263-4274	10.5	3
328	Accelerated increase in vegetation carbon sequestration in China after 2010: A turning point resulting from climate and human interaction. <i>Global Change Biology</i> , 2021 , 27, 5848-5864	11.4	14
327	Moving toward a new era of ecosystem science. <i>Geography and Sustainability</i> , 2021 , 2, 151-162	7.3	5
326	Higher plant photosynthetic capability in autumn responding to low atmospheric vapor pressure deficit.. <i>Innovation(China)</i> , 2021 , 2, 100163	17.8	3
325	A comprehensive framework for seasonal controls of leaf abscission and productivity in evergreen broadleaved tropical and subtropical forests.. <i>Innovation(China)</i> , 2021 , 2, 100154	17.8	8
324	Atmospheric dynamic constraints on Tibetan Plateau freshwater under Paris climate targets. <i>Nature Climate Change</i> , 2021 , 11, 219-225	21.4	17
323	Global Patterns and Climate Controls of Terrestrial Ecosystem Light Use Efficiency. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2020 , 125, e2020JG005908	3.7	0
322	Permafrost thawing puts the frozen carbon at risk over the Tibetan Plateau. <i>Science Advances</i> , 2020 , 6, eaaz3513	14.3	49
321	Three-dimensional change in temperature sensitivity of northern vegetation phenology. <i>Global Change Biology</i> , 2020 , 26, 5189-5201	11.4	18
320	Causes of slowing-down seasonal CO amplitude at Mauna Loa. <i>Global Change Biology</i> , 2020 , 26, 4462-4477	11.4	9
319	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
318	Accelerated terrestrial ecosystem carbon turnover and its drivers. <i>Global Change Biology</i> , 2020 , 26, 5052-5062	11.4	11
317	Divergent responses of soil organic carbon to afforestation. <i>Nature Sustainability</i> , 2020 , 3, 694-700	22.1	39
316	Increased control of vegetation on global terrestrial energy fluxes. <i>Nature Climate Change</i> , 2020 , 10, 356-362	21.4	55
315	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
314	Quantifying Water Scarcity in Northern China Within the Context of Climatic and Societal Changes and South-to-North Water Diversion. <i>Earth's Future</i> , 2020 , 8, e2020EF001492	7.9	9

313	Emergent constraint on crop yield response to warmer temperature from field experiments. <i>Nature Sustainability</i> , 2020 , 3, 908-916	22.1	30
312	Soil thawing regulates the spring growth onset in tundra and alpine biomes. <i>Science of the Total Environment</i> , 2020 , 742, 140637	10.2	5
311	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
310	Modeling leaf senescence of deciduous tree species in Europe. <i>Global Change Biology</i> , 2020 , 26, 4104-4118	11.4	17
309	Spatiotemporal dynamics of ecosystem fires and biomass burning-induced carbon emissions in China over the past two decades. <i>Geography and Sustainability</i> , 2020 , 1, 47-58	7.3	5
308	Biomass energy in China's terrestrial ecosystems: Insights into the nation's sustainable energy supply. <i>Renewable and Sustainable Energy Reviews</i> , 2020 , 127, 109857	16.2	22
307	Interannual variation of terrestrial carbon cycle: Issues and perspectives. <i>Global Change Biology</i> , 2020 , 26, 300-318	11.4	83
306	Summer soil drying exacerbated by earlier spring greening of northern vegetation. <i>Science Advances</i> , 2020 , 6, eaax0255	14.3	106
305	Missed atmospheric organic phosphorus emitted by terrestrial plants, part 2: Experiment of volatile phosphorus. <i>Environmental Pollution</i> , 2020 , 258, 113728	9.3	3
304	Characteristics, drivers and feedbacks of global greening. <i>Nature Reviews Earth & Environment</i> , 2020 , 1, 14-27	30.2	316
303	Vegetation forcing modulates global land monsoon and water resources in a CO ₂ -enriched climate. <i>Nature Communications</i> , 2020 , 11, 5184	17.4	11
302	Short-lived climate forcers have long-term climate impacts via the carbon-climate feedback. <i>Nature Climate Change</i> , 2020 , 10, 851-855	21.4	12
301	Biophysical impacts of Earth greening largely controlled by aerodynamic resistance. <i>Science Advances</i> , 2020 , 6,	14.3	21
300	Climate warming increases spring phenological differences among temperate trees. <i>Global Change Biology</i> , 2020 , 26, 5979-5987	11.4	18
299	Local and teleconnected temperature effects of afforestation and vegetation greening in China. <i>National Science Review</i> , 2020 , 7, 897-912	10.8	25
298	Data-driven estimates of global nitrous oxide emissions from croplands. <i>National Science Review</i> , 2020 , 7, 441-452	10.8	42
297	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
296	The paleoclimatic footprint in the soil carbon stock of the Tibetan permafrost region. <i>Nature Communications</i> , 2019 , 10, 4195	17.4	16

295	Climatic Warming Increases Spatial Synchrony in Spring Vegetation Phenology Across the Northern Hemisphere. <i>Geophysical Research Letters</i> , 2019 , 46, 1641-1650	4.9	18
294	China's road towards sustainable development: Geography bridges science and solution. <i>Progress in Physical Geography</i> , 2019 , 43, 694-706	3.5	5
293	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
292	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
291	Stabilization of atmospheric nitrogen deposition in China over the past decade. <i>Nature Geoscience</i> , 2019 , 12, 424-429	18.3	232
290	Nutrient availability alters the correlation between spring leaf-out and autumn leaf senescence dates. <i>Tree Physiology</i> , 2019 , 39, 1277-1284	4.2	16
289	The bioelements, the elementome, and the biogeochemical niche. <i>Ecology</i> , 2019 , 100, e02652	4.6	71
288	Deciphering impacts of climate extremes on Tibetan grasslands in the last fifteen years. <i>Science Bulletin</i> , 2019 , 64, 446-454	10.6	20
287	Plant Feedback Aggravates Soil Organic Carbon Loss Associated With Wind Erosion in Northwest China. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2019 , 124, 825-839	3.7	7
286	Plant phenology and global climate change: Current progresses and challenges. <i>Global Change Biology</i> , 2019 , 25, 1922-1940	11.4	382
285	Air temperature optima of vegetation productivity across global biomes. <i>Nature Ecology and Evolution</i> , 2019 , 3, 772-779	12.3	128
284	The weakening relationship between Eurasian spring snow cover and Indian summer monsoon rainfall. <i>Science Advances</i> , 2019 , 5, eaau8932	14.3	22
283	Daylength helps temperate deciduous trees to leaf-out at the optimal time. <i>Global Change Biology</i> , 2019 , 25, 2410-2418	11.4	50
282	Changes in timing of seasonal peak photosynthetic activity in northern ecosystems. <i>Global Change Biology</i> , 2019 , 25, 2382-2395	11.4	31
281	Richness of plant communities plays a larger role than climate in determining responses of species richness to climate change. <i>Journal of Ecology</i> , 2019 , 107, 1944-1955	6	3
280	Increased Global Land Carbon Sink Due to Aerosol-Induced Cooling. <i>Global Biogeochemical Cycles</i> , 2019 , 33, 439-457	5.9	17
279	The impact of the 2009/2010 drought on vegetation growth and terrestrial carbon balance in Southwest China. <i>Agricultural and Forest Meteorology</i> , 2019 , 269-270, 239-248	5.8	89
278	China and India lead in greening of the world through land-use management. <i>Nature Sustainability</i> , 2019 , 2, 122-129	22.1	796

277	A meta-analysis of 1,119 manipulative experiments on terrestrial carbon-cycling responses to global change. <i>Nature Ecology and Evolution</i> , 2019 , 3, 1309-1320	12.3	150
276	Increased atmospheric vapor pressure deficit reduces global vegetation growth. <i>Science Advances</i> , 2019 , 5, eaax1396	14.3	270
275	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 ²	17.4	59
274	Nitrogen and phosphorus constrain the CO ₂ fertilization of global plant biomass. <i>Nature Climate Change</i> , 2019 , 9, 684-689	21.4	125
273	Divergent changes in the elevational gradient of vegetation activities over the last 30 years. <i>Nature Communications</i> , 2019 , 10, 2970	17.4	59
272	Shortened temperature-relevant period of spring leaf-out in temperate-zone trees. <i>Global Change Biology</i> , 2019 , 25, 4282-4290	11.4	12
271	Soil organic carbon and nutrient losses resulted from spring dust emissions in Northern China. <i>Atmospheric Environment</i> , 2019 , 213, 585-596	5.3	15
270	Climate Change Trends and Impacts on Vegetation Greening Over the Tibetan Plateau. <i>Journal of Geophysical Research D: Atmospheres</i> , 2019 , 124, 7540-7552	4.4	41
269	Responses and feedback of the Tibetan Plateau's alpine ecosystem to climate change. <i>Chinese Science Bulletin</i> , 2019 , 64, 2842-2855	2.9	33
268	Annual ecosystem respiration is resistant to changes in freeze-thaw periods in semi-arid permafrost. <i>Global Change Biology</i> , 2019 , 26, 2630	11.4	6
267	Altered trends in carbon uptake in China's terrestrial ecosystems under the enhanced summer monsoon and warming hiatus. <i>National Science Review</i> , 2019 , 6, 505-514	10.8	28
266	Short photoperiod reduces the temperature sensitivity of leaf-out in saplings of <i>Fagus sylvatica</i> but not in horse chestnut. <i>Global Change Biology</i> , 2019 , 25, 1696-1703	11.4	32
265	A reversal in global terrestrial stilling and its implications for wind energy production. <i>Nature Climate Change</i> , 2019 , 9, 979-985	21.4	115
264	Wildfire Detection Probability of MODIS Fire Products under the Constraint of Environmental Factors: A Study Based on Confirmed Ground Wildfire Records. <i>Remote Sensing</i> , 2019 , 11, 3031	5	12
263	Effects of wildfire on soil respiration and its heterotrophic and autotrophic components in a montane coniferous forest. <i>Journal of Plant Ecology</i> , 2019 , 12, 336-345	1.7	5
262	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
261	Strong but Intermittent Spatial Covariations in Tropical Land Temperature. <i>Geophysical Research Letters</i> , 2019 , 46, 356-364	4.9	6
260	Elevated CO ₂ does not stimulate carbon sink in a semi-arid grassland. <i>Ecology Letters</i> , 2019 , 22, 458-468	10	22

259	Enhanced growth after extreme wetness compensates for post-drought carbon loss in dry forests. <i>Nature Communications</i> , 2019 , 10, 195	17.4	23
258	Interannual variability of terrestrial net ecosystem productivity over China: regional contributions and climate attribution. <i>Environmental Research Letters</i> , 2019 , 14, 014003	6.2	14
257	Regional differences of lake evolution across China during 1960s–2015 and its natural and anthropogenic causes. <i>Remote Sensing of Environment</i> , 2019 , 221, 386-404	13.2	140
256	Ecosystem Traits Linking Functional Traits to Macroecology. <i>Trends in Ecology and Evolution</i> , 2019 , 34, 200-210	10.9	64
255	Recent Third Pole–Rapid Warming Accompanies Cryospheric Melt and Water Cycle Intensification and Interactions between Monsoon and Environment: Multidisciplinary Approach with Observations, Modeling, and Analysis. <i>Bulletin of the American Meteorological Society</i> , 2019 , 100, 423-444	6.1	253
254	A new estimation of China’s net ecosystem productivity based on eddy covariance measurements and a model tree ensemble approach. <i>Agricultural and Forest Meteorology</i> , 2018 , 253-254, 84-93	5.8	25
253	Excessive Afforestation and Soil Drying on China’s Loess Plateau. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2018 , 123, 923-935	3.7	73
252	Changes in the Response of the Northern Hemisphere Carbon Uptake to Temperature Over the Last Three Decades. <i>Geophysical Research Letters</i> , 2018 , 45, 4371-4380	4.9	17
251	Spring phenology at different altitudes is becoming more uniform under global warming in Europe. <i>Global Change Biology</i> , 2018 , 24, 3969-3975	11.4	33
250	Joint structural and physiological control on the interannual variation in productivity in a temperate grassland: A data-model comparison. <i>Global Change Biology</i> , 2018 , 24, 2965-2979	11.4	31
249	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
248	Extension of the growing season increases vegetation exposure to frost. <i>Nature Communications</i> , 2018 , 9, 426	17.4	106
247	Afforestation neutralizes soil pH. <i>Nature Communications</i> , 2018 , 9, 520	17.4	62
246	The Accelerating Land Carbon Sink of the 2000s May Not Be Driven Predominantly by the Warming Hiatus. <i>Geophysical Research Letters</i> , 2018 , 45, 1402-1409	4.9	9
245	Keeping global warming within 1.5 °C constrains emergence of aridification. <i>Nature Climate Change</i> , 2018 , 8, 70-74	21.4	96
244	Influence of Vegetation Growth on the Enhanced Seasonality of Atmospheric CO ₂ . <i>Global Biogeochemical Cycles</i> , 2018 , 32, 32-41	5.9	20
243	Impact of Earth Greening on the Terrestrial Water Cycle. <i>Journal of Climate</i> , 2018 , 31, 2633-2650	4.4	72
242	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

241	Contrasting responses of grassland water and carbon exchanges to climate change between Tibetan Plateau and Inner Mongolia. <i>Agricultural and Forest Meteorology</i> , 2018 , 249, 163-175	5.8	38
240	Detection and attribution of nitrogen runoff trend in China's croplands. <i>Environmental Pollution</i> , 2018 , 234, 270-278	9.3	30
239	Spring Snow-Albedo Feedback Analysis Over the Third Pole: Results From Satellite Observation and CMIP5 Model Simulations. <i>Journal of Geophysical Research D: Atmospheres</i> , 2018 , 123, 750-763	4.4	7
238	Drought timing influences the legacy of tree growth recovery. <i>Global Change Biology</i> , 2018 , 24, 3546-3559	11.4	83
237	Response of terrestrial evapotranspiration to Earth's greening. <i>Current Opinion in Environmental Sustainability</i> , 2018 , 33, 9-25	7.2	41
236	Global patterns of vegetation carbon use efficiency and their climate drivers deduced from MODIS satellite data and process-based models. <i>Agricultural and Forest Meteorology</i> , 2018 , 256-257, 150-158	5.8	38
235	Increasingly Important Role of Atmospheric Aridity on Tibetan Alpine Grasslands. <i>Geophysical Research Letters</i> , 2018 , 45, 2852-2859	4.9	65
234	The role of plant phenology in stomatal ozone flux modeling. <i>Global Change Biology</i> , 2018 , 24, 235-248	11.4	17
233	Spatiotemporal pattern of gross primary productivity and its covariation with climate in China over the last thirty years. <i>Global Change Biology</i> , 2018 , 24, 184-196	11.4	110
232	Simulating the onset of spring vegetation growth across the Northern Hemisphere. <i>Global Change Biology</i> , 2018 , 24, 1342-1356	11.4	25
231	Disentangling the mechanisms behind winter snow impact on vegetation activity in northern ecosystems. <i>Global Change Biology</i> , 2018 , 24, 1651-1662	11.4	41
230	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
229	Future biomass carbon sequestration capacity of Chinese forests. <i>Science Bulletin</i> , 2018 , 63, 1108-1117	10.6	45
228	Contrasting effects of N addition on the N and P status of understory vegetation in plantations of sapling and mature <i>Larix principis-rupprechtii</i> . <i>Journal of Plant Ecology</i> , 2018 , 11, 843-852	1.7	3
227	Shifts in the dynamics of productivity signal ecosystem state transitions at the biome-scale. <i>Ecology Letters</i> , 2018 , 21, 1457-1466	10	35
226	Evaluation of CMIP5 Earth System Models for the Spatial Patterns of Biomass and Soil Carbon Turnover Times and Their Linkage with Climate. <i>Journal of Climate</i> , 2018 , 31, 5947-5960	4.4	25
225	Spatiotemporal pattern of terrestrial evapotranspiration in China during the past thirty years. <i>Agricultural and Forest Meteorology</i> , 2018 , 259, 131-140	5.8	42
224	Divergent hydrological response to large-scale afforestation and vegetation greening in China. <i>Science Advances</i> , 2018 , 4, eaar4182	14.3	128

223	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
222	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
221	Field evidences for the positive effects of aerosols on tree growth. <i>Global Change Biology</i> , 2018 , 24, 4983-4992	11.4	32
220	Comment on "Satellites reveal contrasting responses of regional climate to the widespread greening of Earth". <i>Science</i> , 2018 , 360,	33.3	6
219	Decelerating Autumn CO2 Release With Warming Induced by Attenuated Temperature Dependence of Respiration in Northern Ecosystems. <i>Geophysical Research Letters</i> , 2018 , 45, 5562-5571	4.9	4
218	Larger temperature response of autumn leaf senescence than spring leaf-out phenology. <i>Global Change Biology</i> , 2018 , 24, 2159-2168	11.4	62
217	Vegetation cover-another dominant factor in determining global water resources in forested regions. <i>Global Change Biology</i> , 2018 , 24, 786-795	11.4	50
216	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
215	Contributions of Climate Change, CO2, 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
214	Contrasting streamflow regimes induced by melting glaciers across the Tien Shan - Pamir - North Karakoram. <i>Scientific Reports</i> , 2018 , 8, 16470	4.9	23
213	Emerging negative impact of warming on summer carbon uptake in northern ecosystems. <i>Nature Communications</i> , 2018 , 9, 5391	17.4	13
212	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
211	The carbon sequestration potential of China's grasslands. <i>Ecosphere</i> , 2018 , 9, e02452	3.1	11
210	Global terrestrial stilling: does Earth's greening play a role?. <i>Environmental Research Letters</i> , 2018 , 13, 124013	6.2	14
209	Using research networks to create the comprehensive datasets needed to assess nutrient availability as a key determinant of terrestrial carbon cycling. <i>Environmental Research Letters</i> , 2018 , 13, 125006	6.2	21
208	A Large Committed Long-Term Sink of Carbon due to Vegetation Dynamics. <i>Earth's Future</i> , 2018 , 6, 1413-1432	7.9	15
207	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
206	Temporal response of soil organic carbon after grassland-related land-use change. <i>Global Change Biology</i> , 2018 , 24, 4731-4746	11.4	24

205	Negative effect of nitrogen addition on soil respiration dependent on stand age: Evidence from a 7-year field study of larch plantations in northern China. <i>Agricultural and Forest Meteorology</i> , 2018 , 262, 24-33	5.8	15
204	Partitioning global land evapotranspiration using CMIP5 models constrained by observations. <i>Nature Climate Change</i> , 2018 , 8, 640-646	21.4	123
203	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
202	Changes in nutrient concentrations of leaves and roots in response to global change factors. <i>Global Change Biology</i> , 2017 , 23, 3849-3856	11.4	106
201	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
200	The effects of teleconnections on carbon fluxes of global terrestrial ecosystems. <i>Geophysical Research Letters</i> , 2017 , 44, 3209-3218	4.9	36
199	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
198	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
197	Diagnosing phosphorus limitations in natural terrestrial ecosystems in carbon cycle models. <i>Earth's Future</i> , 2017 , 5, 730-749	7.9	33
196	Seasonal Responses of Terrestrial Carbon Cycle to Climate Variations in CMIP5 Models: Evaluation and Projection. <i>Journal of Climate</i> , 2017 , 30, 6481-6503	4.4	9
195	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
194	Climate mitigation from vegetation biophysical feedbacks during the past three decades. <i>Nature Climate Change</i> , 2017 , 7, 432-436	21.4	181
193	Varying responses of vegetation activity to climate changes on the Tibetan Plateau grassland. <i>International Journal of Biometeorology</i> , 2017 , 61, 1433-1444	3.7	62
192	Little change in heat requirement for vegetation green-up on the Tibetan Plateau over the warming period of 1998-2012. <i>Agricultural and Forest Meteorology</i> , 2017 , 232, 650-658	5.8	33
191	Extensive and drastically different alpine lake changes on Asia's high plateaus during the past four decades. <i>Geophysical Research Letters</i> , 2017 , 44, 252-260	4.9	141
190	Mapping spatial distribution of forest age in China. <i>Earth and Space Science</i> , 2017 , 4, 108-116	3.1	37
189	Velocity of change in vegetation productivity over northern high latitudes. <i>Nature Ecology and Evolution</i> , 2017 , 1, 1649-1654	12.3	43
188	Reducing the uncertainty of parameters controlling seasonal carbon and water fluxes in Chinese forests and its implication for simulated climate sensitivities. <i>Global Biogeochemical Cycles</i> , 2017 , 31, 1344-1366	5.9	7

187	Shifting from a fertilization-dominated to a warming-dominated period. <i>Nature Ecology and Evolution</i> , 2017 , 1, 1438-1445	12.3	99
186	Benchmarking carbon fluxes of the ISIMIP2a biome models. <i>Environmental Research Letters</i> , 2017 , 12, 045002	6.2	23
185	Atmospheric deposition, CO ₂ , and change in the land carbon sink. <i>Scientific Reports</i> , 2017 , 7, 9632	4.9	41
184	Development of a land surface model with coupled snow and frozen soil physics. <i>Water Resources Research</i> , 2017 , 53, 5085-5103	5.4	45
183	Global land carbon sink response to temperature and precipitation varies with ENSO phase. <i>Environmental Research Letters</i> , 2017 , 12, 064007	6.2	29
182	Recent increases in terrestrial carbon uptake at little cost to the water cycle. <i>Nature Communications</i> , 2017 , 8, 110	17.4	103
181	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
180	Management outweighs climate change on affecting length of rice growing period for early rice and single rice in China during 1991–2012. <i>Agricultural and Forest Meteorology</i> , 2017 , 233, 1-11	5.8	33
179	Detection and Attribution of Changes in Land Surface Sensitive Components. <i>Springer Geography</i> , 2017 , 495-509	0.4	
178	Global Change and Terrestrial Ecosystems. <i>Springer Geography</i> , 2017 , 205-232	0.4	
177	Higher temperature variability reduces temperature sensitivity of vegetation growth in Northern Hemisphere. <i>Geophysical Research Letters</i> , 2017 , 44, 6173-6181	4.9	19
176	Dominance of climate warming effects on recent drying trends over wet monsoon regions. <i>Atmospheric Chemistry and Physics</i> , 2017 , 17, 10467-10476	6.8	5
175	Plausible rice yield losses under future climate warming. <i>Nature Plants</i> , 2016 , 3, 16202	11.5	55
174	Three times greater weight of daytime than of night-time temperature on leaf unfolding phenology in temperate trees. <i>New Phytologist</i> , 2016 , 212, 590-597	9.8	52
173	Application of the metabolic scaling theory and water–energy balance equation to model large-scale patterns of maximum forest canopy height. <i>Global Ecology and Biogeography</i> , 2016 , 25, 1428–1442	6.1	5
172	Field warming experiments shed light on the wheat yield response to temperature in China. <i>Nature Communications</i> , 2016 , 7, 13530	17.4	39
171	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
170	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

169	Contrasting responses of water use efficiency to drought across global terrestrial ecosystems. <i>Scientific Reports</i> , 2016 , 6, 23284	4.9	143
168	European land CO2 sink influenced by NAO and East-Atlantic Pattern coupling. <i>Nature Communications</i> , 2016 , 7, 10315	17.4	54
167	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
166	Temperature, precipitation, and insolation effects on autumn vegetation phenology in temperate China. <i>Global Change Biology</i> , 2016 , 22, 644-55	11.4	184
165	A cross-biome synthesis of soil respiration and its determinants under simulated precipitation changes. <i>Global Change Biology</i> , 2016 , 22, 1394-405	11.4	145
164	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
163	Lateral transport of soil carbon and land-atmosphere CO2 flux induced by water erosion in China. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016 , 113, 6617-22	11.5	86
162	Human-induced greening of the northern extratropical land surface. <i>Nature Climate Change</i> , 2016 , 6, 959-963	21.4	109
161	Delayed autumn phenology in the Northern Hemisphere is related to change in both climate and spring phenology. <i>Global Change Biology</i> , 2016 , 22, 3702-3711	11.4	199
160	Quantifying nitrogen leaching response to fertilizer additions in China's cropland. <i>Environmental Pollution</i> , 2016 , 211, 241-51	9.3	34
159	The contribution of China's emissions to global climate forcing. <i>Nature</i> , 2016 , 531, 357-61	50.4	145
158	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
157	Estimation of gross primary production in China (1982-2010) with multiple ecosystem models. <i>Ecological Modelling</i> , 2016 , 324, 33-44	3	20
156	Spatial and temporal variations of spring dust emissions in northern China over the last 30 years. <i>Atmospheric Environment</i> , 2016 , 126, 117-127	5.3	54
155	Reduced sediment transport in the Yellow River due to anthropogenic changes. <i>Nature Geoscience</i> , 2016 , 9, 38-41	18.3	613
154	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
153	The Effect of Afforestation on Soil Moisture Content in Northeastern China. <i>PLoS ONE</i> , 2016 , 11, e0160776	3.6	25
152	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

151	Seasonal responses of terrestrial ecosystem water-use efficiency to climate change. <i>Global Change Biology</i> , 2016 , 22, 2165-77	11.4	57
150	Strong impacts of daily minimum temperature on the green-up date and summer greenness of the Tibetan Plateau. <i>Global Change Biology</i> , 2016 , 22, 3057-66	11.4	147
149	Relatively stable response of fruiting stage to warming and cooling relative to other phenological events. <i>Ecology</i> , 2016 , 97, 1961-1969	4.6	24
148	Changes in interannual climate sensitivities of terrestrial carbon fluxes during the 21st century predicted by CMIP5 Earth System Models. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2016 , 121, 903-918	3.7	12
147	Responses of land evapotranspiration to Earth's greening in CMIP5 Earth System Models. <i>Environmental Research Letters</i> , 2016 , 11, 104006	6.2	26
146	Species interactions slow warming-induced upward shifts of treelines on the Tibetan Plateau. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016 , 113, 4380-5	11.5	149
145	Greening of the Earth and its drivers. <i>Nature Climate Change</i> , 2016 , 6, 791-795	21.4	1036
144	Seasonal and interannual changes in vegetation activity of tropical forests in Southeast Asia. <i>Agricultural and Forest Meteorology</i> , 2016 , 224, 1-10	5.8	39
143	Emerging opportunities and challenges in phenology: a review. <i>Ecosphere</i> , 2016 , 7, e01436	3.1	144
142	Long-term linear trends mask phenological shifts. <i>International Journal of Biometeorology</i> , 2016 , 60, 1613-1614	3.7	16134
141	Spatial variations in responses of vegetation autumn phenology to climate change on the Tibetan Plateau. <i>Journal of Plant Ecology</i> , 2016 , rtw084	1.7	25
140	Revegetation in China's Loess Plateau is approaching sustainable water resource limits. <i>Nature Climate Change</i> , 2016 , 6, 1019-1022	21.4	708
139	Increased phosphate uptake but not resorption alleviates phosphorus deficiency induced by nitrogen deposition in temperate <i>Larix principis-rupprechtii</i> plantations. <i>New Phytologist</i> , 2016 , 212, 1019-1029	9.8	69
138	Change in terrestrial ecosystem water-use efficiency over the last three decades. <i>Global Change Biology</i> , 2015 , 21, 2366-78	11.4	144
137	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
136	Increased heat requirement for leaf flushing in temperate woody species over 1980-2012: effects of chilling, precipitation and insolation. <i>Global Change Biology</i> , 2015 , 21, 2687-2697	11.4	103
135	Evaporative cooling over the Tibetan Plateau induced by vegetation growth. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015 , 112, 9299-304	11.5	270
134	Spatial patterns of climatological temperature lapse rate in mainland China: A multi-time scale investigation. <i>Journal of Geophysical Research D: Atmospheres</i> , 2015 , 120, 2661-2675	4.4	26

133	Precipitation impacts on vegetation spring phenology on the Tibetan Plateau. <i>Global Change Biology</i> , 2015 , 21, 3647-56	11.4	260
132	Leaf onset in the northern hemisphere triggered by daytime temperature. <i>Nature Communications</i> , 2015 , 6, 6911	17.4	261
131	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
130	Declining global warming effects on the phenology of spring leaf unfolding. <i>Nature</i> , 2015 , 526, 104-7	50.4	409
129	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
128	Plant phenological responses to climate change on the Tibetan Plateau: research status and challenges. <i>National Science Review</i> , 2015 , 2, 454-467	10.8	99
127	Biomass production efficiency controlled by management in temperate and boreal ecosystems. <i>Nature Geoscience</i> , 2015 , 8, 843-846	18.3	79
126	Regional air pollution brightening reverses the greenhouse gases induced warming-elevation relationship. <i>Geophysical Research Letters</i> , 2015 , 42, 4563-4572	4.9	20
125	Mapping tree density at a global scale. <i>Nature</i> , 2015 , 525, 201-5	50.4	402
124	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
123	Spatiotemporal patterns of terrestrial gross primary production: A review. <i>Reviews of Geophysics</i> , 2015 , 53, 785-818	23.1	297
122	The recent hiatus in global warming of the land surface: Scale-dependent breakpoint occurrences in space and time. <i>Geophysical Research Letters</i> , 2015 , 42, 6471-6478	4.9	17
121	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
120	Disentangling climatic and anthropogenic controls on global terrestrial evapotranspiration trends. <i>Environmental Research Letters</i> , 2015 , 10, 094008	6.2	93
119	Recent trends and drivers of regional sources and sinks of carbon dioxide. <i>Biogeosciences</i> , 2015 , 12, 653-679	4.79	432
118	Has the advancing onset of spring vegetation green-up slowed down or changed abruptly over the last three decades?. <i>Global Ecology and Biogeography</i> , 2015 , 24, 621-631	6.1	86
117	New model for capturing the variations of fertilizer-induced emission factors of N ₂ O. <i>Global Biogeochemical Cycles</i> , 2015 , 29, 885-897	5.9	35
116	Multispherical interactions and their effects on the Tibetan Plateau's earth system: a review of the recent researches. <i>National Science Review</i> , 2015 , 2, 468-488	10.8	65

115	Joint control of terrestrial gross primary productivity by plant phenology and physiology. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015 , 112, 2788-93	11.5	181
114	Ecological change on the Tibetan Plateau. <i>Chinese Science Bulletin</i> , 2015 , 60, 3048-3056	2.9	38
113	MODIS Based Estimation of Forest Aboveground Biomass in China. <i>PLoS ONE</i> , 2015 , 10, e0130143	3.7	21
112	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
111	Terrestrial carbon cycle affected by non-uniform climate warming. <i>Nature Geoscience</i> , 2014 , 7, 173-180	18.3	149
110	Unexpected role of winter precipitation in determining heat requirement for spring vegetation green-up at northern middle and high latitudes. <i>Global Change Biology</i> , 2014 , 20, 3743-55	11.4	122
109	Soil respiration under climate warming: differential response of heterotrophic and autotrophic respiration. <i>Global Change Biology</i> , 2014 , 20, 3229-37	11.4	177
108	A two-fold increase of carbon cycle sensitivity to tropical temperature variations. <i>Nature</i> , 2014 , 506, 212-5	50.4	210
107	Recent spring phenology shifts in western Central Europe based on multiscale observations. <i>Global Ecology and Biogeography</i> , 2014 , 23, 1255-1263	6.1	143
106	Evidence for a weakening relationship between interannual temperature variability and northern vegetation activity. <i>Nature Communications</i> , 2014 , 5, 5018	17.4	274
105	The effect of nitrogen addition on soil respiration from a nitrogen-limited forest soil. <i>Agricultural and Forest Meteorology</i> , 2014 , 197, 103-110	5.8	70
104	Divergence of climate impacts on maize yield in Northeast China. <i>Agriculture, Ecosystems and Environment</i> , 2014 , 196, 51-58	5.7	38
103	Widespread decline of Congo rainforest greenness in the past decade. <i>Nature</i> , 2014 , 509, 86-90	50.4	274
102	Environmental determinants of tropical forest and savanna distribution: A quantitative model evaluation and its implication. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2014 , 119, 1432-1445	3.7	13
101	Variation in leaf flushing date influences autumnal senescence and next year's flushing date in two temperate tree species. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014 , 111, 7355-60	11.5	178
100	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
99	Effects of double cropping on summer climate of the North China Plain and neighbouring regions. <i>Nature Climate Change</i> , 2014 , 4, 615-619	21.4	64
98	1982-2010 Trends of Light Use Efficiency and Inherent Water Use Efficiency in African vegetation: Sensitivity to Climate and Atmospheric CO ₂ Concentrations. <i>Remote Sensing</i> , 2014 , 6, 8923-8944	5	14

97	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
96	A worldwide analysis of spatiotemporal changes in water balance-based evapotranspiration from 1982 to 2009. <i>Journal of Geophysical Research D: Atmospheres</i> , 2014 , 119, 1186-1202	4.4	79
95	Asymmetric sensitivity of first flowering date to warming and cooling in alpine plants. <i>Ecology</i> , 2014 , 95, 3387-3398	4.6	52
94	High carbon dioxide uptake by subtropical forest ecosystems in the East Asian monsoon region. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014 , 111, 4910-5	11.5	266
93	Nutrient availability as the key regulator of global forest carbon balance. <i>Nature Climate Change</i> , 2014 , 4, 471-476	21.4	269
92	Multimodel projections and uncertainties of net ecosystem production in China over the twenty-first century. <i>Science Bulletin</i> , 2014 , 59, 4681-4691		9
91	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
90	Increasing altitudinal gradient of spring vegetation phenology during the last decade on the Qinghai-Tibetan Plateau. <i>Agricultural and Forest Meteorology</i> , 2014 , 189-190, 71-80	5.8	236
89	Stand ages regulate the response of soil respiration to temperature in a <i>Larix principis-rupprechtii</i> plantation. <i>Agricultural and Forest Meteorology</i> , 2014 , 184, 179-187	5.8	42
88	Diurnal and seasonal change in stem respiration of <i>Larix principis-rupprechtii</i> trees, northern China. <i>PLoS ONE</i> , 2014 , 9, e89294	3.7	6
87	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
86	Drought Influences the Accuracy of Simulated Ecosystem Fluxes: A Model-Data Meta-analysis for Mediterranean Oak Woodlands. <i>Ecosystems</i> , 2013 , 16, 749-764	3.9	37
85	Does the integration of the dynamic nitrogen cycle in a terrestrial biosphere model improve the long-term trend of the leaf area index?. <i>Climate Dynamics</i> , 2013 , 40, 2535-2548	4.2	7
84	Asymmetric effects of daytime and night-time warming on Northern Hemisphere vegetation. <i>Nature</i> , 2013 , 501, 88-92	50.4	328
83	Precipitation amount, seasonality and frequency regulate carbon cycling of a semi-arid grassland ecosystem in Inner Mongolia, China: A modeling analysis. <i>Agricultural and Forest Meteorology</i> , 2013 , 178-179, 46-55	5.8	102
82	Attributing the increase in atmospheric CO ₂ to emitters and absorbers. <i>Nature Climate Change</i> , 2013 , 3, 926-930	21.4	53
81	Large-scale variations in the vegetation growing season and annual cycle of atmospheric CO ₂ at high northern latitudes from 1950 to 2011. <i>Global Change Biology</i> , 2013 , 19, 3167-83	11.4	206
80	Drought and spring cooling induced recent decrease in vegetation growth in Inner Asia. <i>Agricultural and Forest Meteorology</i> , 2013 , 178-179, 21-30	5.8	114

79	Temperature and vegetation seasonality diminishment over northern lands. <i>Nature Climate Change</i> , 2013 , 3, 581-586	21.4	381
78	Changes in satellite-derived spring vegetation green-up date and its linkage to climate in China from 1982 to 2010: a multimethod analysis. <i>Global Change Biology</i> , 2013 , 19, 881-91	11.4	215
77	The impacts of climate change and human activities on biogeochemical cycles on the Qinghai-Tibetan Plateau. <i>Global Change Biology</i> , 2013 , 19, 2940-55	11.4	428
76	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
75	Global Data Sets of Vegetation Leaf Area Index (LAI)3g and Fraction of Photosynthetically Active Radiation (FPAR)3g Derived from Global Inventory Modeling and Mapping Studies (GIMMS) Normalized Difference Vegetation Index (NDVI3g) for the Period 1981 to 2011. <i>Remote Sensing</i> , 2013 , 5, 927-948	5	579
74	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
73	Committed changes in tropical tree cover under the projected 21st century climate change. <i>Scientific Reports</i> , 2013 , 3, 1951	4.9	17
72	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
71	No evidence of continuously advanced green-up dates in the Tibetan Plateau over the last decade. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013 , 110, E2329	11.5	85
70	High-resolution mapping of combustion processes and implications for CO ₂ emissions. <i>Atmospheric Chemistry and Physics</i> , 2013 , 13, 5189-5203	6.8	131
69	Evaluation of an improved intermediate complexity snow scheme in the ORCHIDEE land surface model. <i>Journal of Geophysical Research D: Atmospheres</i> , 2013 , 118, 6064-6079	4.4	57
68	The carbon budget of South Asia. <i>Biogeosciences</i> , 2013 , 10, 513-527	4.6	71
67	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
66	Fertile forests produce biomass more efficiently. <i>Ecology Letters</i> , 2012 , 15, 520-6	10	211
65	Response to Comment on Surface Urban Heat Island Across 419 Global Big Cities. <i>Environmental Science & Technology</i> , 2012 , 46, 6889-6890	10.3	9
64	Surface urban heat island across 419 global big cities. <i>Environmental Science & Technology</i> , 2012 , 46, 696-703	10.3	598
63	Spring vegetation green-up date in China inferred from SPOT NDVI data: A multiple model analysis. <i>Agricultural and Forest Meteorology</i> , 2012 , 165, 104-113	5.8	170
62	State-dependent errors in a land surface model across biomes inferred from eddy covariance observations on multiple timescales. <i>Ecological Modelling</i> , 2012 , 246, 11-25	3	16

61	Impacts of climate and CO ₂ changes on the vegetation growth and carbon balance of Qinghai-Tibetan grasslands over the past five decades. <i>Global and Planetary Change</i> , 2012 , 98-99, 73-80	4.2	171
60	Large inert carbon pool in the terrestrial biosphere during the Last Glacial Maximum. <i>Nature Geoscience</i> , 2012 , 5, 74-79	18.3	120
59	The carbon budget of terrestrial ecosystems in East Asia over the last two decades. <i>Biogeosciences</i> , 2012 , 9, 3571-3586	4.6	83
58	A framework for benchmarking land models. <i>Biogeosciences</i> , 2012 , 9, 3857-3874	4.6	238
57	Causes of spring vegetation growth trends in the northern mid-high latitudes from 1982 to 2004. <i>Environmental Research Letters</i> , 2012 , 7, 014010	6.2	42
56	Spatio-temporal patterns of the area experiencing negative vegetation growth anomalies in China over the last three decades. <i>Environmental Research Letters</i> , 2012 , 7, 035701	6.2	50
55	Global evapotranspiration over the past three decades: estimation based on the water balance equation combined with empirical models. <i>Environmental Research Letters</i> , 2012 , 7, 014026	6.2	86
54	Browning in desert boundaries in Asia in recent decades. <i>Journal of Geophysical Research</i> , 2011 , 116,		37
53	Altitude and temperature dependence of change in the spring vegetation green-up date from 1982 to 2006 in the Qinghai-Xizang Plateau. <i>Agricultural and Forest Meteorology</i> , 2011 , 151, 1599-1608	5.8	331
52	Contribution of climate change and rising CO ₂ to terrestrial carbon balance in East Asia: A multi-model analysis. <i>Global and Planetary Change</i> , 2011 , 75, 133-142	4.2	63
51	Controls on winter ecosystem respiration in temperate and boreal ecosystems. <i>Biogeosciences</i> , 2011 , 8, 2009-2025	4.6	35
50	Forest annual carbon cost: reply. <i>Ecology</i> , 2011 , 92, 1998-2002	4.6	2
49	Effects of land use change and management on the European cropland carbon balance. <i>Global Change Biology</i> , 2011 , 17, 320-338	11.4	49
48	Changes in satellite-derived vegetation growth trend in temperate and boreal Eurasia from 1982 to 2006. <i>Global Change Biology</i> , 2011 , 17, 3228-3239	11.4	451
47	NDVI indicated characteristics of vegetation cover change in China's metropolises over the last three decades. <i>Environmental Monitoring and Assessment</i> , 2011 , 179, 1-14	3.1	87
46	A large and persistent carbon sink in the world's forests. <i>Science</i> , 2011 , 333, 988-93	33.3	3950
45	Spring temperature change and its implication in the change of vegetation growth in North America from 1982 to 2006. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011 , 108, 1240-5	11.5	352
44	Recent change of vegetation growth trend in China. <i>Environmental Research Letters</i> , 2011 , 6, 044027	6.2	197

43	The European carbon balance. Part 3: forests. <i>Global Change Biology</i> , 2010 , 16, 1429-1450	11.4	206
42	Change in winter snow depth and its impacts on vegetation in China. <i>Global Change Biology</i> , 2010 , 16, no-no	11.4	59
41	The impacts of climate change on water resources and agriculture in China. <i>Nature</i> , 2010 , 467, 43-51	50.4	2046
40	Reduction of forest soil respiration in response to nitrogen deposition. <i>Nature Geoscience</i> , 2010 , 3, 315-323	12.3	988
39	Autumn temperature and carbon balance of a boreal Scots pine forest in Southern Finland. <i>Biogeosciences</i> , 2010 , 7, 163-176	4.6	49
38	Forest annual carbon cost: a global-scale analysis of autotrophic respiration. <i>Ecology</i> , 2010 , 91, 652-61	4.6	137
37	Influence of spring and autumn phenological transitions on forest ecosystem productivity. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2010 , 365, 3227-46	5.8	594
36	Application of the ORCHIDEE global vegetation model to evaluate biomass and soil carbon stocks of Qinghai-Tibetan grasslands. <i>Global Biogeochemical Cycles</i> , 2010 , 24, n/a-n/a	5.9	92
35	Benchmarking coupled climate-carbon models against long-term atmospheric CO2 measurements. <i>Global Biogeochemical Cycles</i> , 2010 , 24, n/a-n/a	5.9	88
34	Biomass carbon stocks in China's forests between 2000 and 2050: a prediction based on forest biomass-age relationships. <i>Science China Life Sciences</i> , 2010 , 53, 776-83	8.5	69
33	Regional differences in the timing of recent air warming during the past four decades in China. <i>Science Bulletin</i> , 2010 , 55, 1968-1973		43
32	Are ecological gradients in seasonal Q10 of soil respiration explained by climate or by vegetation seasonality?. <i>Soil Biology and Biochemistry</i> , 2010 , 42, 1728-1734	7.5	87
31	Can we reconcile atmospheric estimates of the Northern terrestrial carbon sink with land-based accounting?. <i>Current Opinion in Environmental Sustainability</i> , 2010 , 2, 225-230	7.2	63
30	Temperature sensitivity of soil respiration in different ecosystems in China. <i>Soil Biology and Biochemistry</i> , 2009 , 41, 1008-1014	7.5	187
29	The carbon balance of terrestrial ecosystems in China. <i>Nature</i> , 2009 , 458, 1009-13	50.4	887
28	Quantifying the response of forest carbon balance to future climate change in Northeastern China: Model validation and prediction. <i>Global and Planetary Change</i> , 2009 , 66, 179-194	4.2	87
27	Spatiotemporal patterns of terrestrial carbon cycle during the 20th century. <i>Global Biogeochemical Cycles</i> , 2009 , 23, n/a-n/a	5.9	151
26	Footprint of temperature changes in the temperate and boreal forest carbon balance. <i>Geophysical Research Letters</i> , 2009 , 36, n/a-n/a	4.9	34

25	Net carbon dioxide losses of northern ecosystems in response to autumn warming. <i>Nature</i> , 2008 , 451, 49-52	50.4	759
24	Carbon accumulation in European forests. <i>Nature Geoscience</i> , 2008 , 1, 425-429	18.3	227
23	Evaluation of the terrestrial carbon cycle, future plant geography and climate-carbon cycle feedbacks using five Dynamic Global Vegetation Models (DGVMs). <i>Global Change Biology</i> , 2008 , 14, 2015-2039	11.4	955
22	Changes in biomass carbon stocks in China's grasslands between 1982 and 1999. <i>Global Biogeochemical Cycles</i> , 2007 , 21, n/a-n/a	5.9	102
21	Growing season extension and its impact on terrestrial carbon cycle in the Northern Hemisphere over the past 2 decades. <i>Global Biogeochemical Cycles</i> , 2007 , 21, n/a-n/a	5.9	443
20	CO2 balance of boreal, temperate, and tropical forests derived from a global database. <i>Global Change Biology</i> , 2007 , 13, 2509-2537	11.4	744
19	Terrestrial vegetation carbon sinks in China, 1981-2000. <i>Science in China Series D: Earth Sciences</i> , 2007 , 50, 1341-1350		322
18	Changes in climate and land use have a larger direct impact than rising CO2 on global river runoff trends. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007 , 104, 15242-7	11.5	422
17	Effect of climate and CO2 changes on the greening of the Northern Hemisphere over the past two decades. <i>Geophysical Research Letters</i> , 2006 , 33,	4.9	166
16	NDVI-based increase in growth of temperate grasslands and its responses to climate changes in China. <i>Global Environmental Change</i> , 2006 , 16, 340-348	10.1	345
15	Patterns of fish species richness in China's lakes. <i>Global Ecology and Biogeography</i> , 2006 , 15, 386-394	6.1	41
14	Variations in satellite-derived phenology in China's temperate vegetation. <i>Global Change Biology</i> , 2006 , 12, 672-685	11.4	505
13	Variations in Vegetation Net Primary Production in the Qinghai-Xizang Plateau, China, from 1982 to 1999. <i>Climatic Change</i> , 2006 , 74, 253-267	4.5	229
12	Changes in vegetation net primary productivity from 1982 to 1999 in China. <i>Global Biogeochemical Cycles</i> , 2005 , 19, n/a-n/a	5.9	185
11	NDVI-indicated decline in desertification in China in the past two decades. <i>Geophysical Research Letters</i> , 2005 , 32,	4.9	102
10	Precipitation patterns alter growth of temperate vegetation. <i>Geophysical Research Letters</i> , 2005 , 32,	4.9	135
9	Forest biomass carbon stocks in China over the past 2 decades: Estimation based on integrated inventory and satellite data. <i>Journal of Geophysical Research</i> , 2005 , 110,		77
8	Increasing terrestrial vegetation activity in China, 1982-1999. <i>Science in China Series C: Life Sciences</i> , 2004 , 47, 229-40		36

7	Variation in a satellite-based vegetation index in relation to climate in China. <i>Journal of Vegetation Science</i> , 2004 , 15, 219	3.1	136
6	Increasing net primary production in China from 1982 to 1999. <i>Frontiers in Ecology and the Environment</i> , 2003 , 1, 293-297	5.5	167
5	Interannual variations of monthly and seasonal normalized difference vegetation index (NDVI) in China from 1982 to 1999. <i>Journal of Geophysical Research</i> , 2003 , 108,		312
4	The greenhouse gas balance of European grasslands		39
3	The carbon budget of South Asia		2
2	A global map of root biomass across the world's forests		2
1	Spring and autumn phenology across the Tibetan Plateau inferred from normalized difference vegetation index and solar-induced chlorophyll fluorescence. <i>Big Earth Data</i> , 1-19	4.1	4