

Shilong Piao

List of Publications by Year in descending order

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Version: 2024-02-01

378
papers

68,222
citations

701

121
h-index

799

247
g-index

385
all docs

385
docs citations

385
times ranked

36755
citing authors

#	ARTICLE	IF	CITATIONS
1	A Large and Persistent Carbon Sink in the World's Forests. <i>Science</i> , 2011, 333, 988-993.	12.6	5,393
2	The impacts of climate change on water resources and agriculture in China. <i>Nature</i> , 2010, 467, 43-51.	27.8	2,656
3	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.	7.1	1,708
4	Greening of the Earth and its drivers. <i>Nature Climate Change</i> , 2016, 6, 791-795.	18.8	1,675
5	China and India lead in greening of the world through land-use management. <i>Nature Sustainability</i> , 2019, 2, 122-129.	23.7	1,636
6	Revegetation in China's Loess Plateau is approaching sustainable water resource limits. <i>Nature Climate Change</i> , 2016, 6, 1019-1022.	18.8	1,270
7	Reduction of forest soil respiration in response to nitrogen deposition. <i>Nature Geoscience</i> , 2010, 3, 315-322.	12.9	1,254
8	The carbon balance of terrestrial ecosystems in China. <i>Nature</i> , 2009, 458, 1009-1013.	27.8	1,243
9	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.	9.5	1,097
10	Reduced sediment transport in the Yellow River due to anthropogenic changes. <i>Nature Geoscience</i> , 2016, 9, 38-41.	12.9	948
11	Plant phenology and global climate change: Current progresses and challenges. <i>Global Change Biology</i> , 2019, 25, 1922-1940.	9.5	944
12	Net carbon dioxide losses of northern ecosystems in response to autumn warming. <i>Nature</i> , 2008, 451, 49-52.	27.8	930
13	Characteristics, drivers and feedbacks of global greening. <i>Nature Reviews Earth & Environment</i> , 2020, 1, 14-27.	29.7	889
14	Surface Urban Heat Island Across 419 Global Big Cities. <i>Environmental Science & Technology</i> , 2012, 46, 696-703.	10.0	864
15	CO ₂ balance of boreal, temperate, and tropical forests derived from a global database. <i>Global Change Biology</i> , 2007, 13, 2509-2537.	9.5	863
16	Increased atmospheric vapor pressure deficit reduces global vegetation growth. <i>Science Advances</i> , 2019, 5, eaax1396.	10.3	755
17	Influence of spring and autumn phenological transitions on forest ecosystem productivity. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2010, 365, 3227-3246.	4.0	751
18	Global Data Sets of Vegetation Leaf Area Index (LAI) and Fraction of Photosynthetically Active Radiation (FPAR) Derived from Global Inventory Modeling and Mapping Studies (GIMMS) Normalized Difference Vegetation Index (NDVI) for the Period 1981 to 2011. <i>Remote Sensing</i> , 2013, 5, 927-948.	4.0	748

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19	The impacts of climate change and human activities on biogeochemical cycles on the Qinghai-Tibetan Plateau. <i>Global Change Biology</i> , 2013, 19, 2940-2955.	9.5	670
20	Variations in satellite-derived phenology in China's temperate vegetation. <i>Global Change Biology</i> , 2006, 12, 672-685.	9.5	643
21	Mapping tree density at a global scale. <i>Nature</i> , 2015, 525, 201-205.	27.8	642
22	Declining global warming effects on the phenology of spring leaf unfolding. <i>Nature</i> , 2015, 526, 104-107.	27.8	637
23	Evaluation of terrestrial carbon cycle models for their response to climate variability and to CO ₂ trends. <i>Global Change Biology</i> , 2013, 19, 2117-2132.	9.5	617
24	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, .	4.9	598
25	Detection and attribution of vegetation greening trend in China over the last 30 years. <i>Global Change Biology</i> , 2015, 21, 1601-1609.	9.5	597
26	Recent Third Pole's 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.	3.3	590
27	Recent trends and drivers of regional sources and sinks of carbon dioxide. <i>Biogeosciences</i> , 2015, 12, 653-679.	3.3	587
28	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.	9.5	586
29	Changes in climate and land use have a larger direct impact than rising CO ₂ on global river runoff trends. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007, 104, 15242-15247.	7.1	504
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, 2915-2919.	7.1	501
31	Stabilization of atmospheric nitrogen deposition in China over the past decade. <i>Nature Geoscience</i> , 2019, 12, 424-429.	12.9	490
32	Temperature and vegetation seasonality diminishment over northern lands. <i>Nature Climate Change</i> , 2013, 3, 581-586.	18.8	485
33	Asymmetric effects of daytime and night-time warming on Northern Hemisphere vegetation. <i>Nature</i> , 2013, 501, 88-92.	27.8	482
34	Terrestrial vegetation carbon sinks in China, 1981-2000. <i>Science in China Series D: Earth Sciences</i> , 2007, 50, 1341-1350.	0.9	466
35	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.	7.8	447
36	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.	4.8	442

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37	Spring temperature change and its implication in the change of vegetation growth in North America from 1982 to 2006. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 1240-1245.	7.1	432
38	Spatiotemporal patterns of terrestrial gross primary production: A review. Reviews of Geophysics, 2015, 53, 785-818.	23.0	432
39	Evidence for a weakening relationship between interannual temperature variability and northern vegetation activity. Nature Communications, 2014, 5, 5018.	12.8	414
40	Evaporative cooling over the Tibetan Plateau induced by vegetation growth. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 9299-9304.	7.1	404
41	High carbon dioxide uptake by subtropical forest ecosystems in the East Asian monsoon region. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 4910-4915.	7.1	403
42	Interannual variations of monthly and seasonal normalized difference vegetation index (NDVI) in China from 1982 to 1999. Journal of Geophysical Research, 2003, 108, .	3.3	401
43	Leaf onset in the northern hemisphere triggered by daytime temperature. Nature Communications, 2015, 6, 6911.	12.8	384
44	Nutrient availability as the key regulator of global forest carbon balance. Nature Climate Change, 2014, 4, 471-476.	18.8	383
45	Precipitation impacts on vegetation spring phenology on the Tibetan Plateau. Global Change Biology, 2015, 21, 3647-3656.	9.5	377
46	Widespread decline of Congo rainforest greenness in the past decade. Nature, 2014, 509, 86-90.	27.8	351
47	Increasing altitudinal gradient of spring vegetation phenology during the last decade on the Qinghai-Tibetan Plateau. Agricultural and Forest Meteorology, 2014, 189-190, 71-80.	4.8	323
48	Climate mitigation from vegetation biophysical feedbacks during the past three decades. Nature Climate Change, 2017, 7, 432-436.	18.8	323
49	Delayed autumn phenology in the Northern Hemisphere is related to change in both climate and spring phenology. Global Change Biology, 2016, 22, 3702-3711.	9.5	319
50	Air temperature optima of vegetation productivity across global biomes. Nature Ecology and Evolution, 2019, 3, 772-779.	7.8	316
51	A meta-analysis of 1,119 manipulative experiments on terrestrial carbon-cycling responses to global change. Nature Ecology and Evolution, 2019, 3, 1309-1320.	7.8	304
52	Temperature, precipitation, and insolation effects on autumn vegetation phenology in temperate China. Global Change Biology, 2016, 22, 644-655.	9.5	294
53	Divergent hydrological response to large-scale afforestation and vegetation greening in China. Science Advances, 2018, 4, eaar4182.	10.3	287
54	The imbalance of the Asian water tower. Nature Reviews Earth & Environment, 2022, 3, 618-632.	29.7	286

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55	A two-fold increase of carbon cycle sensitivity to tropical temperature variations. <i>Nature</i> , 2014, 506, 212-215.	27.8	284
56	Multifaceted characteristics of dryland aridity changes in a warming world. <i>Nature Reviews Earth & Environment</i> , 2021, 2, 232-250.	29.7	281
57	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, 881-891.	9.5	276
58	Fertile forests produce biomass more efficiently. <i>Ecology Letters</i> , 2012, 15, 520-526.	6.4	273
59	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, 3167-3183.	9.5	273
60	Variations in Vegetation Net Primary Production in the Qinghai-Xizang Plateau, China, from 1982 to 1999. <i>Climatic Change</i> , 2006, 74, 253-267.	3.6	271
61	Nitrogen and phosphorus constrain the CO ₂ fertilization of global plant biomass. <i>Nature Climate Change</i> , 2019, 9, 684-689.	18.8	269
62	A framework for benchmarking land models. <i>Biogeosciences</i> , 2012, 9, 3857-3874.	3.3	267
63	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, 2788-2793.	7.1	265
64	Carbon accumulation in European forests. <i>Nature Geoscience</i> , 2008, 1, 425-429.	12.9	263
65	Summer soil drying exacerbated by earlier spring greening of northern vegetation. <i>Science Advances</i> , 2020, 6, eaax0255.	10.3	258
66	Recent change of vegetation growth trend in China. <i>Environmental Research Letters</i> , 2011, 6, 044027.	5.2	255
67	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, 7355-7360.	7.1	254
68	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.	11.0	252
69	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.	3.5	248
70	The European carbon balance. Part 3: forests. <i>Global Change Biology</i> , 2010, 16, 1429-1450.	9.5	247
71	A reversal in global terrestrial stilling and its implications for wind energy production. <i>Nature Climate Change</i> , 2019, 9, 979-985.	18.8	246
72	Changes in vegetation net primary productivity from 1982 to 1999 in China. <i>Global Biogeochemical Cycles</i> , 2005, 19, n/a-n/a.	4.9	244

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73	Soil respiration under climate warming: differential response of heterotrophic and autotrophic respiration. <i>Global Change Biology</i> , 2014, 20, 3229-3237.	9.5	239
74	Contrasting responses of water use efficiency to drought across global terrestrial ecosystems. <i>Scientific Reports</i> , 2016, 6, 23284.	3.3	227
75	Terrestrial carbon cycle affected by non-uniform climate warming. <i>Nature Geoscience</i> , 2014, 7, 173-180.	12.9	226
76	Emerging opportunities and challenges in phenology: a review. <i>Ecosphere</i> , 2016, 7, e01436.	2.2	225
77	Temperature sensitivity of soil respiration in different ecosystems in China. <i>Soil Biology and Biochemistry</i> , 2009, 41, 1008-1014.	8.8	223
78	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, 3057-3066.	9.5	223
79	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.	4.0	223
80	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.	4.8	222
81	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, 4380-4385.	7.1	221
82	Partitioning global land evapotranspiration using CMIP5 models constrained by observations. <i>Nature Climate Change</i> , 2018, 8, 640-646.	18.8	219
83	Change in terrestrial ecosystem water-use efficiency over the last three decades. <i>Global Change Biology</i> , 2015, 21, 2366-2378.	9.5	215
84	The contribution of China's emissions to global climate forcing. <i>Nature</i> , 2016, 531, 357-361.	27.8	214
85	Interannual variation of terrestrial carbon cycle: Issues and perspectives. <i>Global Change Biology</i> , 2020, 26, 300-318.	9.5	214
86	A cross-biome synthesis of soil respiration and its determinants under simulated precipitation changes. <i>Global Change Biology</i> , 2016, 22, 1394-1405.	9.5	211
87	Recent spring phenology shifts in western Central Europe based on multiscale observations. <i>Global Ecology and Biogeography</i> , 2014, 23, 1255-1263.	5.8	208
88	Effect of climate and CO ₂ changes on the greening of the Northern Hemisphere over the past two decades. <i>Geophysical Research Letters</i> , 2006, 33, .	4.0	207
89	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.	4.8	199
90	Increasing net primary production in China from 1982 to 1999. <i>Frontiers in Ecology and the Environment</i> , 2003, 1, 293-297.	4.0	195

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91	Extension of the growing season increases vegetation exposure to frost. <i>Nature Communications</i> , 2018, 9, 426.	12.8	190
92	Current systematic carbon-cycle observations and the need for implementing a policy-relevant carbon observing system. <i>Biogeosciences</i> , 2014, 11, 3547-3602.	3.3	189
93	Recent increases in terrestrial carbon uptake at little cost to the water cycle. <i>Nature Communications</i> , 2017, 8, 110.	12.8	186
94	Weakening temperature control on the interannual variations of spring carbon uptake across northern lands. <i>Nature Climate Change</i> , 2017, 7, 359-363.	18.8	183
95	Spatiotemporal patterns of terrestrial carbon cycle during the 20th century. <i>Global Biogeochemical Cycles</i> , 2009, 23, .	4.9	180
96	Precipitation patterns alter growth of temperate vegetation. <i>Geophysical Research Letters</i> , 2005, 32, .	4.0	179
97	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.	9.5	177
98	Changes in nutrient concentrations of leaves and roots in response to global change factors. <i>Global Change Biology</i> , 2017, 23, 3849-3856.	9.5	174
99	Forest annual carbon cost: a global scale analysis of autotrophic respiration. <i>Ecology</i> , 2010, 91, 652-661.	3.2	171
100	Shifting from a fertilization-dominated to a warming-dominated period. <i>Nature Ecology and Evolution</i> , 2017, 1, 1438-1445.	7.8	167
101	Drought timing influences the legacy of tree growth recovery. <i>Global Change Biology</i> , 2018, 24, 3546-3559.	9.5	165
102	High-resolution mapping of combustion processes and implications for CO ₂ emissions. <i>Atmospheric Chemistry and Physics</i> , 2013, 13, 5189-5203.	4.9	164
103	Variation in a satellite-based vegetation index in relation to climate in China. <i>Journal of Vegetation Science</i> , 2004, 15, 219.	2.2	163
104	Global trends in carbon sinks and their relationships with CO ₂ and temperature. <i>Nature Climate Change</i> , 2019, 9, 73-79.	18.8	163
105	Plant phenological responses to climate change on the Tibetan Plateau: research status and challenges. <i>National Science Review</i> , 2015, 2, 454-467.	9.5	161
106	Unexpected role of winter precipitation in determining heat requirement for spring vegetation greenup at northern middle and high latitudes. <i>Global Change Biology</i> , 2014, 20, 3743-3755.	9.5	159
107	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.	9.5	158
108	Global forest carbon uptake due to nitrogen and phosphorus deposition from 1850 to 2100. <i>Global Change Biology</i> , 2017, 23, 4854-4872.	9.5	158

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109	Keeping global warming within 1.5 °C constrains emergence of aridification. <i>Nature Climate Change</i> , 2018, 8, 70-74.	18.8	158
110	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.	7.1	155
111	Estimation of China's terrestrial ecosystem carbon sink: Methods, progress and prospects. <i>Science China Earth Sciences</i> , 2022, 65, 641-651.	5.2	155
112	Increased control of vegetation on global terrestrial energy fluxes. <i>Nature Climate Change</i> , 2020, 10, 356-362.	18.8	152
113	Drought and spring cooling induced recent decrease in vegetation growth in Inner Asia. <i>Agricultural and Forest Meteorology</i> , 2013, 178-179, 21-30.	4.8	150
114	Excessive Afforestation and Soil Drying on China's Loess Plateau. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2018, 123, 923-935.	3.0	147
115	Large inert carbon pool in the terrestrial biosphere during the Last Glacial Maximum. <i>Nature Geoscience</i> , 2012, 5, 74-79.	12.9	145
116	Human-induced greening of the northern extratropical land surface. <i>Nature Climate Change</i> , 2016, 6, 959-963.	18.8	145
117	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, 13061-13066.	7.1	144
118	Impact of Earth Greening on the Terrestrial Water Cycle. <i>Journal of Climate</i> , 2018, 31, 2633-2650.	3.2	142
119	Afforestation neutralizes soil pH. <i>Nature Communications</i> , 2018, 9, 520.	12.8	140
120	Ecosystem Traits Linking Functional Traits to Macroecology. <i>Trends in Ecology and Evolution</i> , 2019, 34, 200-210.	8.7	140
121	The bioelements, the elementome, and the biogeochemical niche. <i>Ecology</i> , 2019, 100, e02652.	3.2	139
122	Increasingly Important Role of Atmospheric Aridity on Tibetan Alpine Grasslands. <i>Geophysical Research Letters</i> , 2018, 45, 2852-2859.	4.0	136
123	The impacts of climate extremes on the terrestrial carbon cycle: A review. <i>Science China Earth Sciences</i> , 2019, 62, 1551-1563.	5.2	134
124	Temporal trade-off between gymnosperm resistance and resilience increases forest sensitivity to extreme drought. <i>Nature Ecology and Evolution</i> , 2020, 4, 1075-1083.	7.8	134
125	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.	4.8	130
126	Changes in biomass carbon stocks in China's grasslands between 1982 and 1999. <i>Global Biogeochemical Cycles</i> , 2007, 21, n/a-n/a.	4.9	127

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127	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.	9.5	127
128	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.	5.2	126
129	NDVI-indicated decline in desertification in China in the past two decades. <i>Geophysical Research Letters</i> , 2005, 32, .	4.0	125
130	Larger temperature response of autumn leaf senescence than spring leafâ€out phenology. <i>Global Change Biology</i> , 2018, 24, 2159-2168.	9.5	124
131	NDVI indicated characteristics of vegetation cover change in Chinaâ€™s metropolises over the last three decades. <i>Environmental Monitoring and Assessment</i> , 2011, 179, 1-14.	2.7	119
132	Disentangling climatic and anthropogenic controls on global terrestrial evapotranspiration trends. <i>Environmental Research Letters</i> , 2015, 10, 094008.	5.2	119
133	Divergent changes in the elevational gradient of vegetation activities over the last 30 years. <i>Nature Communications</i> , 2019, 10, 2970.	12.8	119
134	Application of the ORCHIDEE global vegetation model to evaluate biomass and soil carbon stocks of Qinghaiâ€™Tibetan grasslands. <i>Global Biogeochemical Cycles</i> , 2010, 24, .	4.9	118
135	Divergent responses of soil organic carbon to afforestation. <i>Nature Sustainability</i> , 2020, 3, 694-700.	23.7	118
136	Lateral transport of soil carbon and landâ€™atmosphere CO ₂ flux induced by water erosion in China. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, 6617-6622.	7.1	117
137	Permafrost thawing puts the frozen carbon at risk over the Tibetan Plateau. <i>Science Advances</i> , 2020, 6, eaz3513.	10.3	117
138	Change in winter snow depth and its impacts on vegetation in China. <i>Global Change Biology</i> , 2010, 16, 3004-3013.	9.5	115
139	Plausible rice yield losses under future climate warming. <i>Nature Plants</i> , 2017, 3, 16202.	9.3	114
140	Has the advancing onset of spring vegetation greenâ€™up slowed down or changed abruptly over the last three decades?. <i>Global Ecology and Biogeography</i> , 2015, 24, 621-631.	5.8	111
141	Lower land-use emissions responsible for increased net land carbon sink during the slow warming period. <i>Nature Geoscience</i> , 2018, 11, 739-743.	12.9	110
142	A worldwide analysis of spatiotemporal changes in water balanceâ€™based evapotranspiration from 1982 to 2009. <i>Journal of Geophysical Research D: Atmospheres</i> , 2014, 119, 1186-1202.	3.3	109
143	Biomass production efficiency controlled by management in temperate and boreal ecosystems. <i>Nature Geoscience</i> , 2015, 8, 843-846.	12.9	109
144	Climate Change Trends and Impacts on Vegetation Greening Over the Tibetan Plateau. <i>Journal of Geophysical Research D: Atmospheres</i> , 2019, 124, 7540-7552.	3.3	109

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145	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.	4.8	108
146	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.	8.8	106
147	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.	7.3	106
148	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, 776-783.	4.9	105
149	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.	3.5	103
150	The carbon budget of terrestrial ecosystems in East Asia over the last two decades. <i>Biogeosciences</i> , 2012, 9, 3571-3586.	3.3	103
151	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.	7.1	103
152	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.	9.5	103
153	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.	5.8	102
154	Seasonal responses of terrestrial ecosystem water-use efficiency to climate change. <i>Global Change Biology</i> , 2016, 22, 2165-2177.	9.5	100
155	Varying responses of vegetation activity to climate changes on the Tibetan Plateau grassland. <i>International Journal of Biometeorology</i> , 2017, 61, 1433-1444.	3.0	99
156	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, .	3.3	98
157	Benchmarking coupled climate-carbon models against long-term atmospheric CO ₂ measurements. <i>Global Biogeochemical Cycles</i> , 2010, 24, .	4.9	97
158	Emergent constraint on crop yield response to warmer temperature from field experiments. <i>Nature Sustainability</i> , 2020, 3, 908-916.	23.7	96
159	Data-driven estimates of global nitrous oxide emissions from croplands. <i>National Science Review</i> , 2020, 7, 441-452.	9.5	95
160	The carbon budget of South Asia. <i>Biogeosciences</i> , 2013, 10, 513-527.	3.3	94
161	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.	9.5	93
162	Future biomass carbon sequestration capacity of Chinese forests. <i>Science Bulletin</i> , 2018, 63, 1108-1117.	9.0	92

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163	Spatial and temporal variations of spring dust emissions in northern China over the last 30 years. <i>Atmospheric Environment</i> , 2016, 126, 117-127.	4.1	91
164	Responses and feedback of the Tibetan Plateau's alpine ecosystem to climate change. <i>Chinese Science Bulletin</i> , 2019, 64, 2842-2855.	0.7	91
165	Response of terrestrial evapotranspiration to Earth's greening. <i>Current Opinion in Environmental Sustainability</i> , 2018, 33, 9-25.	6.3	89
166	Daylength helps temperate deciduous trees to leaf out at the optimal time. <i>Global Change Biology</i> , 2019, 25, 2410-2418.	9.5	88
167	Atmospheric dynamic constraints on Tibetan Plateau freshwater under Paris climate targets. <i>Nature Climate Change</i> , 2021, 11, 219-225.	18.8	87
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