Shilong Piao

List of Publications by Year
in descending order

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378	68,222	701	799
papers	citations	121 h-index	247 g-index

385	385	385	36755
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Emerging Negative Warming Impacts on Tibetan Crop Yield. Engineering, 2022, 14, 163-168.	6.7	6
2	Worldwide impacts of atmospheric vapor pressure deficit on the interannual variability of terrestrial carbon sinks. National Science Review, 2022, 9, nwab150.	9.5	49
3	Essential outcomes for COP26. Global Change Biology, 2022, 28, 1-3.	9.5	40
4	Tropical tall forests are more sensitive and vulnerable to drought than short forests. Global Change Biology, 2022, 28, 1583-1595.	9.5	20
5	Contrasting phenology responses to climate warming across the northern extra-tropics. Fundamental Research, 2022, 2, 708-715.	3.3	6
6	Short-term reduction of regional enhancement of atmospheric CO₂ in China during the first COVID-19 pandemic period. Environmental Research Letters, 2022, 17, 024036.	5.2	6
7	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. Global and Planetary Change, 2022, 210, 103753.	3.5	13
8	Higher temperature sensitivity of flowering than leafâ€out alters the time between phenophases across temperate tree species. Global Ecology and Biogeography, 2022, 31, 901-911.	5.8	7
9	Definitions and methods to estimate regional land carbon fluxes for the second phase of the REgional Carbon Cycle Assessment and Processes Project (RECCAP-2). Geoscientific Model Development, 2022, 15, 1289-1316.	3.6	34
10	An earlier start of the thermal growing season enhances tree growth in cold humid areas but not in dry areas. Nature Ecology and Evolution, 2022, 6, 397-404.	7.8	78
11	Estimation of Chinaâ€™s terrestrial ecosystem carbon sink: Methods, progress and prospects. Science China Earth Sciences, 2022, 65, 641-651.	5.2	155
12	Vegetation Physiological Response to Increasing Atmospheric CO₂ Slows the Decreases in the Seasonal Amplitude of Temperature. Geophysical Research Letters, 2022, 49, .	4.0	5
13	Occurrence of crop pests and diseases has largely increased in China since 1970. Nature Food, 2022, 3, 57-65.	14.0	39
14	Perspectives on the role of terrestrial ecosystems in the â€˜carbon neutralityâ€™ strategy. Science China Earth Sciences, 2022, 65, 1178-1186.	5.2	60
15	Future reversal of warming-enhanced vegetation productivity in the Northern Hemisphere. Nature Climate Change, 2022, 12, 581-586.	18.8	47
16	Enhanced habitat loss of the Himalayan endemic flora driven by warming-forced upslope tree expansion. Nature Ecology and Evolution, 2022, 6, 890-899.	7.8	72
17	The imbalance of the Asian water tower. Nature Reviews Earth & Environment, 2022, 3, 618-632.	29.7	286
18	Data-driven quantification of nitrogen enrichment impact on Northern Hemisphere plant biomass. Environmental Research Letters, 2022, 17, 074032.	5.2	5

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19	Climate Warming Mitigation from Nationally Determined Contributions. Advances in Atmospheric Sciences, 2022, 39, 1217-1228.	4.3	6
20	Soil quality both increases crop production and improves resilience to climate change. Nature Climate Change, 2022, 12, 574-580.	18.8	56
21	Regional and seasonal partitioning of water and temperature controls on global land carbon uptake variability. Nature Communications, 2022, 13, .	12.8	18
22	Species richness is a strong driver of forest biomass along broad bioclimatic gradients in the Himalayas. Ecosphere, 2022, 13, .	2.2	8
23	Rising ecosystem water demand exacerbates the lengthening of tropical dry seasons. Nature Communications, 2022, 13, .	12.8	8
24	Amplified warming from physiological responses to carbon dioxide reduces the potential of vegetation for climate change mitigation. Communications Earth & Environment, 2022, 3, .	6.8	13
25	Biophysical impacts of northern vegetation changes on seasonal warming patterns. Nature Communications, 2022, 13, .	12.8	26
26	Decoupling of greenness and gross primary productivity as aridity decreases. Remote Sensing of Environment, 2022, 279, 113120.	11.0	34
27	Higher soil acidification risk in southeastern Tibetan Plateau. Science of the Total Environment, 2021, 755, 143372.	8.0	13
28	Deforestation-induced warming over tropical mountain regions regulated by elevation. Nature Geoscience, 2021, 14, 23-29.	12.9	73
29	Dataâ€driven estimates of global litter production imply slower vegetation carbon turnover. Global Change Biology, 2021, 27, 1678-1688.	9.5	8
30	Global irrigation contribution to wheat and maize yield. Nature Communications, 2021, 12, 1235.	12.8	61
31	Seasonal biological carryover dominates northern vegetation growth. Nature Communications, 2021, 12, 983.	12.8	45
32	Effects of extreme temperature on Chinaâ€™s tea production. Environmental Research Letters, 2021, 16, 044040.	5.2	23
33	Multifaceted characteristics of dryland aridity changes in a warming world. Nature Reviews Earth & Environment, 2021, 2, 232-250.	29.7	281
34	Responses of vegetation greenness and carbon cycle to extreme droughts in China. Agricultural and Forest Meteorology, 2021, 298-299, 108307.	4.8	46
35	Irrigation, damming, and streamflow fluctuations of the Yellow River. Hydrology and Earth System Sciences, 2021, 25, 1133-1150.	4.9	19
36	Warming homogenizes apparent temperature sensitivity of ecosystem respiration. Science Advances, 2021, 7, .	10.3	28

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37	Reply to: Disentangling biology from mathematical necessity in twentieth-century gymnosperm resilience trends. Nature Ecology and Evolution, 2021, 5, 736-737.	7.8	1
38	Divergent responses of ecosystem water use efficiency to drought timing over Northern Eurasia. Environmental Research Letters, 2021, 16, 045016.	5.2	19
39	The contributions of individual countries and regions to the global radiative forcing. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	7.1	15
40	The Tibetan Plateau as the engine for Asian environmental change: the Tibetan Plateau Earth system research into a new era. Science Bulletin, 2021, 66, 1263-1266.	9.0	51
41	Carbon turnover times shape topsoil carbon difference between Tibetan Plateau and Arctic tundra. Science Bulletin, 2021, 66, 1698-1704.	9.0	14
42	Five years of variability in the global carbon cycle: comparing an estimate from the Orbiting Carbon Observatory-2 and process-based models. Environmental Research Letters, 2021, 16, 054041.	5.2	8
43	A small climate-amplifying effect of climate-carbon cycle feedback. Nature Communications, 2021, 12, 2952.	12.8	5
44	Unusual characteristics of the carbon cycle during the 2015â˜'2016 El NiÃ±o. Global Change Biology, 2021, 27, 3798-3809.	9.5	6
45	Low and contrasting impacts of vegetation CO₂ fertilization on global terrestrial runoff over 1982â€“2010: accounting for aboveground and belowground vegetationâ€“CO₂ effects. Hydrology and Earth System Sciences, 2021, 25, 3411-3427.	4.9	11
46	Spring and autumn phenology across the Tibetan Plateau inferred from normalized difference vegetation index and solar-induced chlorophyll fluorescence. Big Earth Data, 2021, 5, 182-200.	4.4	30
47	Ambient climate determines the directional trend of community stability under warming and grazing. Global Change Biology, 2021, 27, 5198-5210.	9.5	9
48	Vegetation Response to Rising CO₂ Amplifies Contrasts in Water Resources Between Global Wet and Dry Land Areas. Geophysical Research Letters, 2021, 48, e2021GL094293.	4.0	16
49	A global map of root biomass across the world's forests. Earth System Science Data, 2021, 13, 4263-4274.	9.9	19
50	Accelerated increase in vegetation carbon sequestration in China after 2010: A turning point resulting from climate and human interaction. Global Change Biology, 2021, 27, 5848-5864.	9.5	127
51	Moving toward a new era of ecosystem science. Geography and Sustainability, 2021, 2, 151-162.	4.3	15
52	Higher plant photosynthetic capability in autumn responding to low atmospheric vapor pressure deficit. Innovation(China), 2021, 2, 100163.	9.1	6
53	A comprehensive framework for seasonal controls of leaf abscission and productivity in evergreen broadleaved tropical and subtropical forests. Innovation(China), 2021, 2, 100154.	9.1	19
54	Atmospheric dynamic constraints on Tibetan Plateau freshwater under Paris climate targets. Nature Climate Change, 2021, 11, 219-225.	18.8	87

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55	Optimal temperature of vegetation productivity and its linkage with climate and elevation on the Tibetan Plateau. Global Change Biology, 2021, 27, 1942-1951.	9.5	60
56	Mining can exacerbate global degradation of dryland. Geophysical Research Letters, 2021, 48, e2021GL094490.	4.0	9
57	Strong direct and indirect influences of climate change on water yield confirmed by the Budyko framework. Geography and Sustainability, 2021, 2, 281-287.	4.3	3
58	The stimulatory effect of elevated CO2 on soil respiration is unaffected by N addition. Science of the Total Environment, 2021, 813, 151907.	8.0	3
59	Local and teleconnected temperature effects of afforestation and vegetation greening in China. National Science Review, 2020, 7, 897-912.	9.5	60
60	Data-driven estimates of global nitrous oxide emissions from croplands. National Science Review, 2020, 7, 441-452.	9.5	95
61	Interannual variation of terrestrial carbon cycle: Issues and perspectives. Global Change Biology, 2020, 26, 300-318.	9.5	214
62	Summer soil drying exacerbated by earlier spring greening of northern vegetation. Science Advances, 2020, 6, eaax0255.	10.3	258
63	Missed atmospheric organic phosphorus emitted by terrestrial plants, part 2: Experiment of volatile phosphorus. Environmental Pollution, 2020, 258, 113728.	7.5	10
64	Characteristics, drivers and feedbacks of global greening. Nature Reviews Earth & Environment, 2020, 1, 14-27.	29.7	889
65	Annual ecosystem respiration is resistant to changes in freezeâ€“thaw periods in semiâ€arid permafrost. Global Change Biology, 2020, 26, 2630-2641.	9.5	18
66	Vegetation forcing modulates global land monsoon and water resources in a CO2-enriched climate. Nature Communications, 2020, 11, 5184.	12.8	37
67	Short-lived climate forcers have long-term climate impacts via the carbonâ€“climate feedback. Nature Climate Change, 2020, 10, 851-855.	18.8	31
68	Biophysical impacts of Earth greening largely controlled by aerodynamic resistance. Science Advances, 2020, 6, .	10.3	67
69	Climate warming increases spring phenological differences among temperate trees. Global Change Biology, 2020, 26, 5979-5987.	9.5	37
70	Global Patterns and Climate Controls of Terrestrial Ecosystem Light Use Efficiency. Journal of Geophysical Research G: Biogeosciences, 2020, 125, e2020JG005908.	3.0	7
71	Permafrost thawing puts the frozen carbon at risk over the Tibetan Plateau. Science Advances, 2020, 6, eaaz3513.	10.3	117
72	Threeâ€dimensional change in temperature sensitivity of northern vegetation phenology. Global Change Biology, 2020, 26, 5189-5201.	9.5	48

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73	Causes of slowingâ€down seasonal CO₂ amplitude at Mauna Loa. Global Change Biology, 2020, 26, 4462-4477.	9.5	14
74	Temporal trade-off between gymnosperm resistance and resilience increases forest sensitivity to extreme drought. Nature Ecology and Evolution, 2020, 4, 1075-1083.	7.8	134
75	Accelerated terrestrial ecosystem carbon turnover and its drivers. Global Change Biology, 2020, 26, 5052-5062.	9.5	42
76	Divergent responses of soil organic carbon to afforestation. Nature Sustainability, 2020, 3, 694-700.	23.7	118
77	Increased control of vegetation on global terrestrial energy fluxes. Nature Climate Change, 2020, 10, 356-362.	18.8	152
78	Deceleration of Chinaâ€™s human water use and its key drivers. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 7702-7711.	7.1	155
79	Quantifying Water Scarcity in Northern China Within the Context of Climatic and Societal Changes and Southâ€toâ€North Water Diversion. Earth's Future, 2020, 8, e2020EF001492.	6.3	30
80	Emergent constraint on crop yield response to warmer temperature from field experiments. Nature Sustainability, 2020, 3, 908-916.	23.7	96
81	Soil thawing regulates the spring growth onset in tundra and alpine biomes. Science of the Total Environment, 2020, 742, 140637.	8.0	16
82	Improvement of the Irrigation Scheme in the ORCHIDEE Land Surface Model and Impacts of Irrigation on Regional Water Budgets Over China. Journal of Advances in Modeling Earth Systems, 2020, 12, e2019MS001770.	3.8	15
83	Modeling leaf senescence of deciduous tree species in Europe. Global Change Biology, 2020, 26, 4104-4118.	9.5	41
84	Spatiotemporal dynamics of ecosystem fires and biomass burning-induced carbon emissions in China over the past two decades. Geography and Sustainability, 2020, 1, 47-58.	4.3	14
85	Biomass energy in China's terrestrial ecosystems: Insights into the nation's sustainable energy supply. Renewable and Sustainable Energy Reviews, 2020, 127, 109857.	16.4	51
86	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
87	Increased atmospheric vapor pressure deficit reduces global vegetation growth. Science Advances, 2019, 5, eaax1396.	10.3	755
88	Greenhouse Gas Concentration and Volcanic Eruptions Controlled the Variability of Terrestrial Carbon Uptake Over the Last Millennium. Journal of Advances in Modeling Earth Systems, 2019, 11, 1715-1734.	3.8	3
89	Nitrogen and phosphorus constrain the CO2 fertilization of global plant biomass. Nature Climate Change, 2019, 9, 684-689.	18.8	269
90	Divergent changes in the elevational gradient of vegetation activities over the last 30 years. Nature Communications, 2019, 10, 2970.	12.8	119

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91	Shortened temperatureâ€relevant period of spring leafâ€out in temperateâ€zone trees. Global Change Biology, 2019, 25, 4282-4290.	9.5	20
92	Soil organic carbon and nutrient losses resulted from spring dust emissions in Northern China. Atmospheric Environment, 2019, 213, 585-596.	4.1	28
93	Climate Change Trends and Impacts on Vegetation Greening Over the Tibetan Plateau. Journal of Geophysical Research D: Atmospheres, 2019, 124, 7540-7552.	3.3	109
94	Field-experiment constraints on the enhancement of the terrestrial carbon sink by CO2 fertilization. Nature Geoscience, 2019, 12, 809-814.	12.9	58
95	The paleoclimatic footprint in the soil carbon stock of the Tibetan permafrost region. Nature Communications, 2019, 10, 4195.	12.8	39
96	Climatic Warming Increases Spatial Synchrony in Spring Vegetation Phenology Across the Northern Hemisphere. Geophysical Research Letters, 2019, 46, 1641-1650.	4.0	40
97	Chinaâ€™s road towards sustainable development: Geography bridges science and solution. Progress in Physical Geography, 2019, 43, 694-706.	3.2	8
98	The impacts of climate extremes on the terrestrial carbon cycle: A review. Science China Earth Sciences, 2019, 62, 1551-1563.	5.2	134
99	Changes in productivity and carbon storage of grasslands in China under future global warming scenarios of 1.5Â°C and 2Â°C. Journal of Plant Ecology, 2019, 12, 804-814.	2.3	18
100	Stabilization of atmospheric nitrogen deposition in China over the past decade. Nature Geoscience, 2019, 12, 424-429.	12.9	490
101	Nutrient availability alters the correlation between spring leaf-out and autumn leaf senescence dates. Tree Physiology, 2019, 39, 1277-1284.	3.1	37
102	The bioelements, the elementome, and the biogeochemical niche. Ecology, 2019, 100, e02652.	3.2	139
103	Deciphering impacts of climate extremes on Tibetan grasslands in the last fifteen years. Science Bulletin, 2019, 64, 446-454.	9.0	45
104	Plant Feedback Aggravates Soil Organic Carbon Loss Associated With Wind Erosion in Northwest China. Journal of Geophysical Research G: Biogeosciences, 2019, 124, 825-839.	3.0	17
105	Plant phenology and global climate change: Current progresses and challenges. Global Change Biology, 2019, 25, 1922-1940.	9.5	944
106	Air temperature optima of vegetation productivity across global biomes. Nature Ecology and Evolution, 2019, 3, 772-779.	7.8	316
107	The weakening relationship between Eurasian spring snow cover and Indian summer monsoon rainfall. Science Advances, 2019, 5, eaau8932.	10.3	39
108	Daylength helps temperate deciduous trees to leafâ€out at the optimal time. Global Change Biology, 2019, 25, 2410-2418.	9.5	88

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109	Changes in timing of seasonal peak photosynthetic activity in northern ecosystems. Global Change Biology, 2019, 25, 2382-2395.	9.5	83
110	Richness of plant communities plays a larger role than climate in determining responses of species richness to climate change. Journal of Ecology, 2019, 107, 1944-1955.	4.0	12
111	Increased Global Land Carbon Sink Due to Aerosolâ€Induced Cooling. Global Biogeochemical Cycles, 2019, 33, 439-457.	4.9	27
112	The impact of the 2009/2010 drought on vegetation growth and terrestrial carbon balance in Southwest China. Agricultural and Forest Meteorology, 2019, 269-270, 239-248.	4.8	199
113	China and India lead in greening of the world through land-use management. Nature Sustainability, 2019, 2, 122-129.	23.7	1,636
114	Altered trends in carbon uptake in China's terrestrial ecosystems under the enhanced summer monsoon and warming hiatus. National Science Review, 2019, 6, 505-514.	9.5	93
115	Short photoperiod reduces the temperature sensitivity of leafâ€out in saplings of Fagus sylvatica but not in horse chestnut. Global Change Biology, 2019, 25, 1696-1703.	9.5	63
116	A reversal in global terrestrial stilling and its implications for wind energy production. Nature Climate Change, 2019, 9, 979-985.	18.8	246
117	Wildfire Detection Probability of MODIS Fire Products under the Constraint of Environmental Factors: A Study Based on Confirmed Ground Wildfire Records. Remote Sensing, 2019, 11, 3031.	4.0	33
118	Effects of wildfire on soil respiration and its heterotrophic and autotrophic components in a montane coniferous forest. Journal of Plant Ecology, 2019, 12, 336-345.	2.3	11
119	Global trends in carbon sinks and their relationships with CO2 and temperature. Nature Climate Change, 2019, 9, 73-79.	18.8	163
120	Strong but Intermittent Spatial Covariations in Tropical Land Temperature. Geophysical Research Letters, 2019, 46, 356-364.	4.0	9
121	Elevated CO₂ does not stimulate carbon sink in a semi-arid grassland. Ecology Letters, 2019, 22, 458-468.	6.4	34
122	Enhanced growth after extreme wetness compensates for post-drought carbon loss in dry forests. Nature Communications, 2019, 10, 195.	12.8	59
123	Interannual variability of terrestrial net ecosystem productivity over China: regional contributions and climate attribution. Environmental Research Letters, 2019, 14, 014003.	5.2	50
124	Regional differences of lake evolution across China during 1960sâ€“2015 and its natural and anthropogenic causes. Remote Sensing of Environment, 2019, 221, 386-404.	11.0	252
125	Ecosystem Traits Linking Functional Traits to Macroecology. Trends in Ecology and Evolution, 2019, 34, 200-210.	8.7	140
126	Recent Third Poleâ€™s Rapid Warming Accompanies Cryospheric Melt and Water Cycle Intensification and Interactions between Monsoon and Environment: Multidisciplinary Approach with Observations, Modeling, and Analysis. Bulletin of the American Meteorological Society, 2019, 100, 423-444.	3.3	590

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127	Responses and feedback of the Tibetan Plateau’s alpine ecosystem to climate change. Chinese Science Bulletin, 2019, 64, 2842-2855.	0.7	91
128	A new estimation of Chinaâ€™s net ecosystem productivity based on eddy covariance measurements and a model tree ensemble approach. Agricultural and Forest Meteorology, 2018, 253-254, 84-93.	4.8	58
129	Excessive Afforestation and Soil Drying on China's Loess Plateau. Journal of Geophysical Research G: Biogeosciences, 2018, 123, 923-935.	3.0	147
130	Changes in the Response of the Northern Hemisphere Carbon Uptake to Temperature Over the Last Three Decades. Geophysical Research Letters, 2018, 45, 4371-4380.	4.0	21
131	Spring phenology at different altitudes is becoming more uniform under global warming in Europe. Global Change Biology, 2018, 24, 3969-3975.	9.5	64
132	Joint structural and physiological control on the interannual variation in productivity in a temperate grassland: A dataâ€model comparison. Global Change Biology, 2018, 24, 2965-2979.	9.5	53
133	Dominant regions and drivers of the variability of the global land carbon sink across timescales. Global Change Biology, 2018, 24, 3954-3968.	9.5	30
134	Extension of the growing season increases vegetation exposure to frost. Nature Communications, 2018, 9, 426.	12.8	190
135	Afforestation neutralizes soil pH. Nature Communications, 2018, 9, 520.	12.8	140
136	The Accelerating Land Carbon Sink of the 2000s May Not Be Driven Predominantly by the Warming Hiatus. Geophysical Research Letters, 2018, 45, 1402-1409.	4.0	13
137	Keeping global warming within 1.5 Â°C constrains emergence of aridification. Nature Climate Change, 2018, 8, 70-74.	18.8	158
138	Influence of Vegetation Growth on the Enhanced Seasonality of Atmospheric CO₂. Global Biogeochemical Cycles, 2018, 32, 32-41.	4.9	29
139	Impact of Earth Greening on the Terrestrial Water Cycle. Journal of Climate, 2018, 31, 2633-2650.	3.2	142
140	Recent Changes in Global Photosynthesis and Terrestrial Ecosystem Respiration Constrained From Multiple Observations. Geophysical Research Letters, 2018, 45, 1058-1068.	4.0	19
141	Contrasting responses of grassland water and carbon exchanges to climate change between Tibetan Plateau and Inner Mongolia. Agricultural and Forest Meteorology, 2018, 249, 163-175.	4.8	62
142	Detection and attribution of nitrogen runoff trend in China's croplands. Environmental Pollution, 2018, 234, 270-278.	7.5	47
143	Spring Snowâ€Albedo Feedback Analysis Over the Third Pole: Results From Satellite Observation and CMIP5 Model Simulations. Journal of Geophysical Research D: Atmospheres, 2018, 123, 750-763.	3.3	17
144	Drought timing influences the legacy of tree growth recovery. Global Change Biology, 2018, 24, 3546-3559.	9.5	165

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145	Response of terrestrial evapotranspiration to Earth's greening. Current Opinion in Environmental Sustainability, 2018, 33, 9-25.	6.3	89
146	Global patterns of vegetation carbon use efficiency and their climate drivers deduced from MODIS satellite data and process-based models. Agricultural and Forest Meteorology, 2018, 256-257, 150-158.	4.8	69
147	Increasingly Important Role of Atmospheric Aridity on Tibetan Alpine Grasslands. Geophysical Research Letters, 2018, 45, 2852-2859.	4.0	136
148	The role of plant phenology in stomatal ozone flux modeling. Global Change Biology, 2018, 24, 235-248.	9.5	22
149	Spatiotemporal pattern of gross primary productivity and its covariation with climate in China over the last thirty years. Global Change Biology, 2018, 24, 184-196.	9.5	177
150	Simulating the onset of spring vegetation growth across the Northern Hemisphere. Global Change Biology, 2018, 24, 1342-1356.	9.5	44
151	Disentangling the mechanisms behind winter snow impact on vegetation activity in northern ecosystems. Global Change Biology, 2018, 24, 1651-1662.	9.5	76
152	On the causes of trends in the seasonal amplitude of atmospheric <scp>CO</scp>₂. Global Change Biology, 2018, 24, 608-616.	9.5	48
153	Larger temperature response of autumn leaf senescence than spring leafâ€out phenology. Global Change Biology, 2018, 24, 2159-2168.	9.5	124
154	Vegetation coverâ€”another dominant factor in determining global water resources in forested regions. Global Change Biology, 2018, 24, 786-795.	9.5	84
155	Evaluation of ORCHIDEE-MICT-simulated soil moisture over China and impacts of different atmospheric forcing data. Hydrology and Earth System Sciences, 2018, 22, 5463-5484.	4.9	13
156	Contributions of Climate Change, CO2, Land-Use Change, and Human Activities to Changes in River Flow across 10 Chinese Basins. Journal of Hydrometeorology, 2018, 19, 1899-1914.	1.9	24
157	Contrasting streamflow regimes induced by melting glaciers across the Tien Shan â€“ Pamir â€“ North Karakoram. Scientific Reports, 2018, 8, 16470.	3.3	54
158	Emerging negative impact of warming on summer carbon uptake in northern ecosystems. Nature Communications, 2018, 9, 5391.	12.8	31
159	GOLUM-CNP v1.0: a data-driven modeling of carbon, nitrogen and phosphorus cycles in major terrestrial biomes. Geoscientific Model Development, 2018, 11, 3903-3928.	3.6	32
160	The carbon sequestration potential of China's grasslands. Ecosphere, 2018, 9, e02452.	2.2	22
161	Global terrestrial stilling: does Earthâ€™s greening play a role?. Environmental Research Letters, 2018, 13, 124013.	5.2	33
162	Using research networks to create the comprehensive datasets needed to assess nutrient availability as a key determinant of terrestrial carbon cycling. Environmental Research Letters, 2018, 13, 125006.	5.2	36

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163	A Large Committed Longâ€Term Sink of Carbon due to Vegetation Dynamics. Earth's Future, 2018, 6, 1413-1432.	6.3	24
164	Changing the retention properties of catchments and their influence on runoff under climate change. Environmental Research Letters, 2018, 13, 094019.	5.2	21
165	Temporal response of soil organic carbon after grasslandâ€related landâ€use change. Global Change Biology, 2018, 24, 4731-4746.	9.5	44
166	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. Agricultural and Forest Meteorology, 2018, 262, 24-33.	4.8	27
167	Partitioning global land evapotranspiration using CMIP5 models constrained by observations. Nature Climate Change, 2018, 8, 640-646.	18.8	219
168	Future biomass carbon sequestration capacity of Chinese forests. Science Bulletin, 2018, 63, 1108-1117.	9.0	92
169	Contrasting effects of N addition on the N and P status of understory vegetation in plantations of sapling and matureLarix principis-rupprechtii. Journal of Plant Ecology, 2018, 11, 843-852.	2.3	9
170	Shifts in the dynamics of productivity signal ecosystem state transitions at the biomeâ€scale. Ecology Letters, 2018, 21, 1457-1466.	6.4	57
171	Evaluation of CMIP5 Earth System Models for the Spatial Patterns of Biomass and Soil Carbon Turnover Times and Their Linkage with Climate. Journal of Climate, 2018, 31, 5947-5960.	3.2	36
172	Spatiotemporal pattern of terrestrial evapotranspiration in China during the past thirty years. Agricultural and Forest Meteorology, 2018, 259, 131-140.	4.8	75
173	Divergent hydrological response to large-scale afforestation and vegetation greening in China. Science Advances, 2018, 4, eaar4182.	10.3	287
174	Quantifying the unauthorized lake water withdrawals and their impacts on the water budget of eutrophic lake Dianchi, China. Journal of Hydrology, 2018, 565, 39-48.	5.4	13
175	Lower land-use emissions responsible for increased net land carbon sink during the slow warming period. Nature Geoscience, 2018, 11, 739-743.	12.9	110
176	Field evidences for the positive effects of aerosols on tree growth. Global Change Biology, 2018, 24, 4983-4992.	9.5	64
177	Comment on â€œSatellites reveal contrasting responses of regional climate to the widespread greening of Earthâ€. Science, 2018, 360, .	12.6	19
178	Decelerating Autumn CO 2 Release With Warming Induced by Attenuated Temperature Dependence of Respiration in Northern Ecosystems. Geophysical Research Letters, 2018, 45, 5562-5571.	4.0	8
179	Spatiotemporal variations in the difference between satelliteâ€observed daily maximum land surface temperature and stationâ€based daily maximum nearâ€surface air temperature. Journal of Geophysical Research D: Atmospheres, 2017, 122, 2254-2268.	3.3	24
180	Changes in nutrient concentrations of leaves and roots in response to global change factors. Global Change Biology, 2017, 23, 3849-3856.	9.5	174

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181	Weakening temperature control on the interannual variations of spring carbon uptake across northern lands. Nature Climate Change, 2017, 7, 359-363.	18.8	183
182	The effects of teleconnections on carbon fluxes of global terrestrial ecosystems. Geophysical Research Letters, 2017, 44, 3209-3218.	4.0	58
183	Attribution of seasonal leaf area index trends in the northern latitudes with â€œoptimallyâ€•integrated ecosystem models. Global Change Biology, 2017, 23, 4798-4813.	9.5	41
184	Global forest carbon uptake due to nitrogen and phosphorus deposition from 1850 to 2100. Global Change Biology, 2017, 23, 4854-4872.	9.5	158
185	Diagnosing phosphorus limitations in natural terrestrial ecosystems in carbon cycle models. Earth's Future, 2017, 5, 730-749.	6.3	59
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