

Anping Chen

List of Publications by Citations

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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.

88

papers

7,633

citations

36

h-index

87

g-index

97

ext. papers

10,365

ext. citations

11.8

avg, IF

5.85

L-index

#	Paper	IF	Citations
88	Changes in forest biomass carbon storage in China between 1949 and 1998. <i>Science</i> , 2001 , 292, 2320-2	33.3	966
87	Net carbon dioxide losses of northern ecosystems in response to autumn warming. <i>Nature</i> , 2008 , 451, 49-52	50.4	759
86	TRY plant trait database - enhanced coverage and open access. <i>Global Change Biology</i> , 2020 , 26, 119-188	11.4	399
85	Plant phenology and global climate change: Current progresses and challenges. <i>Global Change Biology</i> , 2019 , 25, 1922-1940	11.4	382
84	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
83	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
82	Asymmetric effects of daytime and night-time warming on Northern Hemisphere vegetation. <i>Nature</i> , 2013 , 501, 88-92	50.4	328
81	Terrestrial vegetation carbon sinks in China, 1981-2000. <i>Science in China Series D: Earth Sciences</i> , 2007 , 50, 1341-1350		322
80	Characteristics, drivers and feedbacks of global greening. <i>Nature Reviews Earth & Environment</i> , 2020 , 1, 14-27	30.2	316
79	Evidence for a weakening relationship between interannual temperature variability and northern vegetation activity. <i>Nature Communications</i> , 2014 , 5, 5018	17.4	274
78	Leaf onset in the northern hemisphere triggered by daytime temperature. <i>Nature Communications</i> , 2015 , 6, 6911	17.4	261
77	A two-fold increase of carbon cycle sensitivity to tropical temperature variations. <i>Nature</i> , 2014 , 506, 212-5	50.4	210
76	Recent change of vegetation growth trend in China. <i>Environmental Research Letters</i> , 2011 , 6, 044027	6.2	197
75	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
74	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,	4.9	166
73	Forest annual carbon cost: a global-scale analysis of autotrophic respiration. <i>Ecology</i> , 2010 , 91, 652-61	4.6	137
72	High-spatiotemporal-resolution mapping of global urban change from 1985 to 2015. <i>Nature Sustainability</i> , 2020 , 3, 564-570	22.1	133

71	Divergent hydrological response to large-scale afforestation and vegetation greening in China. <i>Science Advances</i> , 2018 , 4, eaar4182	14.3	128
70	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
69	Changes in topsoil carbon stock in the Tibetan grasslands between the 1980s and 2004. <i>Global Change Biology</i> , 2009 , 15, 2723-2729	11.4	113
68	Summer soil drying exacerbated by earlier spring greening of northern vegetation. <i>Science Advances</i> , 2020 , 6, eaax0255	14.3	106
67	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
66	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
65	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
64	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
63	Highland cropland expansion and forest loss in Southeast Asia in the twenty-first century. <i>Nature Geoscience</i> , 2018 , 11, 556-562	18.3	80
62	Afforestation neutralizes soil pH. <i>Nature Communications</i> , 2018 , 9, 520	17.4	62
61	Divergent changes in the elevational gradient of vegetation activities over the last 30 years. <i>Nature Communications</i> , 2019 , 10, 2970	17.4	59
60	Multifaceted characteristics of dryland aridity changes in a warming world. <i>Nature Reviews Earth & Environment</i> , 2021 , 2, 232-250	30.2	57
59	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
58	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
57	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
56	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
55	Divergent responses of soil organic carbon to afforestation. <i>Nature Sustainability</i> , 2020 , 3, 694-700	22.1	39
54	WHITE SPRUCE MEETS BLACK SPRUCE: DISPERSAL, POSTFIRE ESTABLISHMENT, AND GROWTH IN A WARMING CLIMATE. <i>Ecological Monographs</i> , 2008 , 78, 489-505	9	39

53	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
52	Unlocking the forest inventory data: relating individual tree performance to unmeasured environmental factors 2010 , 20, 684-99		35
51	Environmental controls on soil pH in planted forest and its response to nitrogen deposition. <i>Environmental Research</i> , 2019 , 172, 159-165	7.9	34
50	Impacts of climate on the biodiversity-productivity relationship in natural forests. <i>Nature Communications</i> , 2018 , 9, 5436	17.4	29
49	Global priority conservation areas in the face of 21st century climate change. <i>PLoS ONE</i> , 2013 , 8, e54839	3.7	28
48	Responses of land evapotranspiration to Earth's greening in CMIP5 Earth System Models. <i>Environmental Research Letters</i> , 2016 , 11, 104006	6.2	26
47	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
46	Carbon Storage and Sequestration of Urban Street Trees in Beijing, China. <i>Frontiers in Ecology and Evolution</i> , 2016 , 4,	3.7	25
45	Local and teleconnected temperature effects of afforestation and vegetation greening in China. <i>National Science Review</i> , 2020 , 7, 897-912	10.8	25
44	Resolving the Dust Bowl paradox of grassland responses to extreme drought. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020 , 117, 22249-22255	11.5	23
43	Determinants of the ratio of actual to potential evapotranspiration. <i>Global Change Biology</i> , 2019 , 25, 1326	11.4	21
42	Moisture availability mediates the relationship between terrestrial gross primary production and solar-induced chlorophyll fluorescence: Insights from global-scale variations. <i>Global Change Biology</i> , 2021 , 27, 1144-1156	11.4	21
41	Regional air pollution brightening reverses the greenhouse gases induced warming-elevation relationship. <i>Geophysical Research Letters</i> , 2015 , 42, 4563-4572	4.9	20
40	Deforestation-induced warming over tropical mountain regions regulated by elevation. <i>Nature Geoscience</i> , 2021 , 14, 23-29	18.3	20
39	Early post-fire regeneration of a fire-prone subtropical mixed Yunnan pine forest in Southwest China: Effects of pre-fire vegetation, fire severity and topographic factors. <i>Forest Ecology and Management</i> , 2015 , 356, 31-40	3.9	19
38	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
37	Committed changes in tropical tree cover under the projected 21st century climate change. <i>Scientific Reports</i> , 2013 , 3, 1951	4.9	17
36	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

35	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
34	Speciation rates decline through time in individual-based models of speciation and extinction. <i>American Naturalist</i> , 2013 , 182, E83-93	3.7	13
33	Why abundant tropical tree species are phylogenetically old. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013 , 110, 16039-43	11.5	11
32	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
31	Species-independent down-regulation of leaf photosynthesis and respiration in response to shading: evidence from six temperate tree species. <i>PLoS ONE</i> , 2014 , 9, e91798	3.7	10
30	Seasonal biological carryover dominates northern vegetation growth. <i>Nature Communications</i> , 2021 , 12, 983	17.4	9
29	Consumption of atmospheric methane by the Qinghai-Tibet Plateau alpine steppe ecosystem. <i>Cryosphere</i> , 2018 , 12, 2803-2819	5.5	7
28	Spatial Variation of Reactive Nitrogen Emissions From China's Croplands Codetermined by Regional Urbanization and Its Feedback to Global Climate Change. <i>Geophysical Research Letters</i> , 2020 , 47, e2019GL086551	4.9	6
27	Strong but Intermittent Spatial Covariations in Tropical Land Temperature. <i>Geophysical Research Letters</i> , 2019 , 46, 356-364	4.9	6
26	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
25	Comment on "Global correlations in tropical tree species richness and abundance reject neutrality". <i>Science</i> , 2012 , 336, 1639; author reply 1639	33.3	4
24	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
23	Mapping global forest biomass and its changes over the first decade of the 21st century. <i>Science China Earth Sciences</i> , 2019 , 62, 585-594	4.6	4
22	Soil moisture seasonality alters vegetation response to drought in the Mongolian Plateau. <i>Environmental Research Letters</i> , 2021 , 16, 014050	6.2	3
21	Fertilization regulates the response of wheat yield to interannual temperature variation in North China. <i>Journal of Plant Ecology</i> , 2015 , 8, 523-529	1.7	2
20	Forest annual carbon cost: reply. <i>Ecology</i> , 2011 , 92, 1998-2002	4.6	2
19	Emerging negative warming impacts on tibetan crop yield. <i>Engineering</i> , 2021 ,	9.7	2
18	Data-driven estimates of global litter production imply slower vegetation carbon turnover. <i>Global Change Biology</i> , 2021 , 27, 1678-1688	11.4	2

17	Optimizing livestock carrying capacity for wild ungulate-livestock coexistence in a Qinghai-Tibet Plateau grassland. <i>Scientific Reports</i> , 2021 , 11, 3635	4.9	2
16	Seasonal changes in GPP/SIF ratios and their climatic determinants across the Northern Hemisphere. <i>Global Change Biology</i> , 2021 , 27, 5186-5197	11.4	2
15	Occurrence of crop pests and diseases has largely increased in China since 1970. <i>Nature Food</i> , 2022 , 3, 57-65	14.4	2
14	Warming and Increased Respiration Have Transformed an Alpine Steppe Ecosystem on the Tibetan Plateau From a Carbon Dioxide Sink Into a Source. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2022 , 127,	3.7	2
13	Density-dependent speciation alters the structure and dynamics of neutral communities. <i>Journal of Theoretical Biology</i> , 2015 , 372, 128-34	2.3	1
12	Comparing community birdwatching and professional bird monitoring with implications for avian diversity research: a case study of Suzhou, China. <i>Avian Research</i> , 2020 , 11,	2	1
11	Large net forest loss in Cambodia's Tonle Sap Lake protected areas during 1992-2019.. <i>Ambio</i> , 2022 , 1	6.5	1
10	Role of Organic and Conservation Agriculture in Ammonia Emissions and Crop Productivity in China.. <i>Environmental Science & Technology</i> , 2022 ,	10.3	1
9	Unusual characteristics of the carbon cycle during the 2015-2016 El Niño. <i>Global Change Biology</i> , 2021 , 27, 3798-3809	11.4	1
8	Divergent Response of Vegetation Growth to Soil Water Availability in Dry and Wet Periods Over Central Asia. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2021 , 126, e2020JG005912	3.7	1
7	Increased vigilance of plains zebras (<i>Equus quagga</i>) in response to more bush coverage in a Kenyan savanna. <i>Climate Change Ecology</i> , 2021 , 1, 100001		1
6	Dynamics of greenhouse gas emission induced by different burrowing activities of fossorial vertebrates in the Qinghai-Tibetan Plateau alpine meadow ecosystem. <i>International Journal of Biometeorology</i> , 2020 , 64, 115-122	3.7	1
5	Interannual variability and climatic sensitivity of global wildfire activity. <i>Advances in Climate Change Research</i> , 2021 , 12, 686-695	4.1	1
4	Machine learning-based observation-constrained projections reveal elevated global socioeconomic risks from wildfire.. <i>Nature Communications</i> , 2022 , 13, 1250	17.4	1
3	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
2	The 400-year natural history of a tropical coastal mangrove-fringed lagoon: What can we learn?. <i>Global Change Biology</i> , 2020 , 26, 3185-3187	11.4	
1	Ecological and political costs of river diversion. <i>Nature</i> , 2004 , 429, 501	50.4	