Anping Chen

List of Publications by Year
in descending order

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95 papers	13,430 citations	53794 45 h-index	40979 93 g-index
97 all docs	97 docs citations	97 times ranked	13208 citing authors

#	Article	IF	Citations
1	Changes in Forest Biomass Carbon Storage in China Between 1949 and 1998. Science, 2001, 292, 2320-2322.	12.6	1,202
2	TRY plant trait database â€“ enhanced coverage and open access. Global Change Biology, 2020, 26, 119-188.	9.5	1,038
3	Plant phenology and global climate change: Current progresses and challenges. Global Change Biology, 2019, 25, 1922-1940.	9.5	944
4	Net carbon dioxide losses of northern ecosystems in response to autumn warming. Nature, 2008, 451, 49-52.	27.8	930
5	Characteristics, drivers and feedbacks of global greening. Nature Reviews Earth & Environment, 2020, 1, 14-27.	29.7	889
6	Asymmetric effects of daytime and night-time warming on Northern Hemisphere vegetation. Nature, 2013, 501, 88-92.	27.8	482
7	Terrestrial vegetation carbon sinks in China, 1981â€“2000. Science in China Series D: Earth Sciences, 2007, 50, 1341-1350.	0.9	466
8	Altitude and temperature dependence of change in the spring vegetation green-up date from 1982 to 2006 in the Qinghai-Xizang Plateau. Agricultural and Forest Meteorology, 2011, 151, 1599-1608.	4.8	442
9	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
10	Evidence for a weakening relationship between interannual temperature variability and northern vegetation activity. Nature Communications, 2014, 5, 5018.	12.8	414
11	High-spatiotemporal-resolution mapping of global urban change from 1985 to 2015. Nature Sustainability, 2020, 3, 564-570.	23.7	391
12	Leaf onset in the northern hemisphere triggered by daytime temperature. Nature Communications, 2015, 6, 6911.	12.8	384
13	Divergent hydrological response to large-scale afforestation and vegetation greening in China. Science Advances, 2018, 4, eaar4182.	10.3	287
14	A two-fold increase of carbon cycle sensitivity to tropical temperature variations. Nature, 2014, 506, 212-215.	27.8	284
15	Multifaceted characteristics of dryland aridity changes in a warming world. Nature Reviews Earth & Environment, 2021, 2, 232-250.	29.7	281
16	Summer soil drying exacerbated by earlier spring greening of northern vegetation. Science Advances, 2020, 6, eaax0255.	10.3	258
17	Recent change of vegetation growth trend in China. Environmental Research Letters, 2011, 6, 044027.	5.2	255
18	A reversal in global terrestrial stilling and its implications for wind energy production. Nature Climate Change, 2019, 9, 979-985.	18.8	246

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19	Spring vegetation green-up date in China inferred from SPOT NDVI data: A multiple model analysis. Agricultural and Forest Meteorology, 2012, 165, 104-113.	4.8	222
20	Effect of climate and CO2changes on the greening of the Northern Hemisphere over the past two decades. Geophysical Research Letters, 2006, 33, .	4.0	207
21	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
22	Forest annual carbon cost: a globalâ€scale analysis of autotrophic respiration. Ecology, 2010, 91, 652-661.	3.2	171
23	Highland cropland expansion and forest loss in Southeast Asia in the twenty-first century. Nature Geoscience, 2018, 11, 556-562.	12.9	168
24	Afforestation neutralizes soil pH. Nature Communications, 2018, 9, 520.	12.8	140
25	Changes in topsoil carbon stock in the Tibetan grasslands between the 1980s and 2004. Global Change Biology, 2009, 15, 2723-2729.	9.5	135
26	The impacts of climate extremes on the terrestrial carbon cycle: A review. Science China Earth Sciences, 2019, 62, 1551-1563.	5.2	134
27	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
28	Precipitation amount, seasonality and frequency regulate carbon cycling of a semi-arid grassland ecosystem in Inner Mongolia, China: A modeling analysis. Agricultural and Forest Meteorology, 2013, 178-179, 46-55.	4.8	130
29	NDVI indicated characteristics of vegetation cover change in Chinaâ€™s metropolises over the last three decades. Environmental Monitoring and Assessment, 2011, 179, 1-14.	2.7	119
30	Divergent changes in the elevational gradient of vegetation activities over the last 30 years. Nature Communications, 2019, 10, 2970.	12.8	119
31	Divergent responses of soil organic carbon to afforestation. Nature Sustainability, 2020, 3, 694-700.	23.7	118
32	No evidence of continuously advanced green-up dates in the Tibetan Plateau over the last decade. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, E2329.	7.1	103
33	Environmental controls on soil pH in planted forest and its response to nitrogen deposition. Environmental Research, 2019, 172, 159-165.	7.5	78
34	Deforestation-induced warming over tropical mountain regions regulated by elevation. Nature Geoscience, 2021, 14, 23-29.	12.9	73
35	Seasonally different response of photosynthetic activity to daytime and nightâ€time warming in the Northern Hemisphere. Global Change Biology, 2015, 21, 377-387.	9.5	72
36	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

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37	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
38	Spatio-temporal patterns of the area experiencing negative vegetation growth anomalies in China over the last three decades. Environmental Research Letters, 2012, 7, 035701.	5.2	65
39	Resolving the Dust Bowl paradox of grassland responses to extreme drought. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 22249-22255.	7.1	63
40	Local and teleconnected temperature effects of afforestation and vegetation greening in China. National Science Review, 2020, 7, 897-912.	9.5	60
41	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
42	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
43	Moisture availability mediates the relationship between terrestrial gross primary production and solarâ€induced chlorophyll fluorescence: Insights from globalâ€scale variations. Global Change Biology, 2021, 27, 1144-1156.	9.5	57
44	Impacts of climate on the biodiversity-productivity relationship in natural forests. Nature Communications, 2018, 9, 5436.	12.8	54
45	WHITE SPRUCE MEETS BLACK SPRUCE: DISPERSAL, POSTFIRE ESTABLISHMENT, AND GROWTH IN A WARMING CLIMATE. Ecological Monographs, 2008, 78, 489-505.	5.4	47
46	Future reversal of warming-enhanced vegetation productivity in the Northern Hemisphere. Nature Climate Change, 2022, 12, 581-586.	18.8	47
47	Responses of land evapotranspiration to Earthâ€™s greening in CMIP5 Earth System Models. Environmental Research Letters, 2016, 11, 104006.	5.2	46
48	Seasonal biological carryover dominates northern vegetation growth. Nature Communications, 2021, 12, 983.	12.8	45
49	Carbon Storage and Sequestration of Urban Street Trees in Beijing, China. Frontiers in Ecology and Evolution, 2016, 4, .	2.2	43
50	Determinants of the ratio of actual to potential evapotranspiration. Global Change Biology, 2019, 25, 1326-1343.	9.5	39
51	Occurrence of crop pests and diseases has largely increased in China since 1970. Nature Food, 2022, 3, 57-65.	14.0	39
52	Global Priority Conservation Areas in the Face of 21st Century Climate Change. PLoS ONE, 2013, 8, e54839.	2.5	38
53	Unlocking the forest inventory data: relating individual tree performance to unmeasured environmental factors. , 2010, 20, 684-699.		37
54	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. Forest Ecology and Management, 2015, 356, 31-40.	3.2	37

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55	Seasonal changes in GPP/SIF ratios and their climatic determinants across the Northern Hemisphere. Global Change Biology, 2021, 27, 5186-5197.	9.5	34
56	Regional air pollution brightening reverses the greenhouse gases induced warmingâ€elevation relationship. Geophysical Research Letters, 2015, 42, 4563-4572.	4.0	30
57	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
58	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
59	Regional patterns of future runoff changes from Earth system models constrained by observation. Geophysical Research Letters, 2017, 44, 5540-5549.	4.0	26
60	Role of Organic and Conservation Agriculture in Ammonia Emissions and Crop Productivity in China. Environmental Science & Technology, 2022, 56, 2977-2989.	10.0	23
61	Environmental determinants of tropical forest and savanna distribution: A quantitative model evaluation and its implication. Journal of Geophysical Research G: Biogeosciences, 2014, 119, 1432-1445.	3.0	22
62	Committed changes in tropical tree cover under the projected 21st century climate change. Scientific Reports, 2013, 3, 1951.	3.3	20
63	Policy-enabled stabilization of nitrous oxide emissions from livestock production in China over 1978â€“2017. Nature Food, 2022, 3, 356-366.	14.0	20
64	Machine learningâ€–based observation-constrained projections reveal elevated global socioeconomic risks from wildfire. Nature Communications, 2022, 13, 1250.	12.8	19
65	Spatial Variation of Reactive Nitrogen Emissions From China's Croplands Codetermined by Regional Urbanization and Its Feedback to Global Climate Change. Geophysical Research Letters, 2020, 47, e2019GL086551.	4.0	18
66	Divergent Response of Vegetation Growth to Soil Water Availability in Dry and Wet Periods Over Central Asia. Journal of Geophysical Research G: Biogeosciences, 2021, 126, e2020JG005912.	3.0	17
67	Photosynthesis phenology, as defined by solar-induced chlorophyll fluorescence, is overestimated by vegetation indices in the extratropical Northern Hemisphere. Agricultural and Forest Meteorology, 2022, 323, 109027.	4.8	17
68	Speciation Rates Decline through Time in Individual-Based Models of Speciation and Extinction. American Naturalist, 2013, 182, E83-E93.	2.1	16
69	Why abundant tropical tree species are phylogenetically old. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 16039-16043.	7.1	15
70	Consumption of atmospheric methane by the Qinghaiâ€–Tibet Plateau alpine steppe ecosystem. Cryosphere, 2018, 12, 2803-2819.	3.9	15
71	Soil moisture seasonality alters vegetation response to drought in the Mongolian Plateau. Environmental Research Letters, 2021, 16, 014050.	5.2	15
72	Species-Independent Down-Regulation of Leaf Photosynthesis and Respiration in Response to Shading: Evidence from Six Temperate Tree Species. PLoS ONE, 2014, 9, e91798.	2.5	15

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73	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
74	Optimizing livestock carrying capacity for wild ungulate-livestock coexistence in a Qinghai-Tibet Plateau grassland. Scientific Reports, 2021, 11, 3635.	3.3	11
75	Strong but Intermittent Spatial Covariations in Tropical Land Temperature. Geophysical Research Letters, 2019, 46, 356-364.	4.0	9
76	Interannual variability and climatic sensitivity of global wildfire activity. Advances in Climate Change Research, 2021, 12, 686-695.	5.1	9
77	Dataâ€driven estimates of global litter production imply slower vegetation carbon turnover. Global Change Biology, 2021, 27, 1678-1688.	9.5	8
78	Contrasting Responses of Soil Inorganic Carbon to Afforestation in Acidic Versus Alkaline Soils. Global Biogeochemical Cycles, 2022, 36, .	4.9	8
79	Rising ecosystem water demand exacerbates the lengthening of tropical dry seasons. Nature Communications, 2022, 13, .	12.8	8
80	Timing and Order of Extreme Drought and Wetness Determine Bioclimatic Sensitivity of Tree Growth. Earth's Future, 2022, 10, .	6.3	7
81	Mapping global forest biomass and its changes over the first decade of the 21st century. Science China Earth Sciences, 2019, 62, 585-594.	5.2	6
82	Emerging Negative Warming Impacts on Tibetan Crop Yield. Engineering, 2022, 14, 163-168.	6.7	6
83	Unusual characteristics of the carbon cycle during the 2015â˜2016 El NiÃ±o. Global Change Biology, 2021, 27, 3798-3809.	9.5	6
84	Comparing community birdwatching and professional bird monitoring with implications for avian diversity research: a case study of Suzhou, China. Avian Research, 2020, 11, .	1.2	5
85	Increased vigilance of plains zebras (Equus quagga) in response to more bush coverage in a Kenyan savanna. Climate Change Ecology, 2021, 1, 100001.	1.9	5
86	Large net forest loss in Cambodiaâ€™s Tonle Sap Lake protected areas during 1992â€“2019. Ambio, 2022, 51, 1889-1903.	5.5	5
87	Warming and Increased Respiration Have Transformed an Alpine Steppe Ecosystem on the Tibetan Plateau From a Carbon Dioxide Sink Into a Source. Journal of Geophysical Research G: Biogeosciences, 2022, 127, .	3.0	5
88	Comment on â€œGlobal Correlations in Tropical Tree Species Richness and Abundance Reject Neutralityâ€. Science, 2012, 336, 1639-1639.	12.6	4
89	Fertilization regulates the response of wheat yield to interannual temperature variation in North China. Journal of Plant Ecology, 2015, 8, 523-529.	2.3	4
90	Forest annual carbon cost: reply. Ecology, 2011, 92, 1998-2002.	3.2	3

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91	Dynamics of greenhouse gas emission induced by different burrowing activities of fossorial vertebrates in the Qinghaiâ€“Tibetan Plateau alpine meadow ecosystem. International Journal of Biometeorology, 2020, 64, 115-122.	3.0	2
92	Ecological and political costs of river diversion. Nature, 2004, 429, 501-501.	27.8	1
93	Density-dependent speciation alters the structure and dynamics of neutral communities. Journal of Theoretical Biology, 2015, 372, 128-134.	1.7	1
94	Reply to: Disentangling biology from mathematical necessity in twentieth-century gymnosperm resilience trends. Nature Ecology and Evolution, 2021, 5, 736-737.	7.8	1
95	The 400â€year natural history of a tropical coastal mangroveâ€fringed lagoon: What can we learn?. Global Change Biology, 2020, 26, 3185-3187.	9.5	0