Xian-Zhou Zhang

List of Publications by Year
in descending order

72 papers	3,418 citations	147801 31 h-index	149698 56 g-index
72 all docs	72 docs citations	72 times ranked	2795 citing authors

#	Article	IF	Citations
1	The impact of climate change and anthropogenic activities on alpine grassland over the Qinghai-Tibet Plateau. Agricultural and Forest Meteorology, 2014, 189-190, 11-18.	4.8	486
2	Mutual influence between human activities and climate change in the Tibetan Plateau during recent years. Global and Planetary Change, 2004, 41, 241-249.	3.5	296
3	Effects of grazing exclusion on carbon sequestration and plant diversity in grasslands of Chinaâ€"A meta-analysis. Ecological Engineering, 2016, 94, 647-655.	3.6	148
4	Ecological and Environmental Issues Faced by a Developing Tibet. Environmental Science & Technology, 2012, 46, 1979-1980.	10.0	123
5	Increased precipitation has stronger effects on plant production of an alpine meadow than does experimental warming in the Northern Tibetan Plateau. Agricultural and Forest Meteorology, 2018, 249, 11-21.	4.8	117
6	Root biomass distribution in alpine ecosystems of the northern Tibetan Plateau. Environmental Earth Sciences, 2011, 64, 1911-1919.	2.7	99
7	Net ecosystem CO2 exchange and controlling factors in a steppeâ€"Kobresia meadow on the Tibetan Plateau. Science in China Series D: Earth Sciences, 2006, 49, 207-218.	0.9	97
8	Measuring and modelling photosynthetically active radiation in Tibet Plateau during Aprilâ€"October. Agricultural and Forest Meteorology, 2000, 102, 207-212.	4.8	87
9	A Meta-analysis of the Effects of Experimental Warming on Plant Physiology and Growth on the Tibetan Plateau. Journal of Plant Growth Regulation, 2015, 34, 57-65.	5.1	86
10	Elevation-dependent relationships between climate change and grassland vegetation variation across the Qinghai-Xizang Plateau. International Journal of Climatology, 2015, 35, 1638-1647.	3.5	85
11	Changes in individual plant traits and biomass allocation in alpine meadow with elevation variation on the Qinghai-Tibetan Plateau. Science China Life Sciences, 2010, 53, 1142-1151.	4.9	73
12	Effects of grazing exclusion on plant productivity and soil carbon, nitrogen storage in alpine meadows in northern Tibet, China. Chinese Geographical Science, 2014, 24, 488-498.	3.0	72
13	Response of soil microbial biomass to short-term experimental warming in alpine meadow on the Tibetan Plateau. Applied Soil Ecology, 2012, 61, 158-160.	4.3	70
14	Grazing-Exclusion Effects on Aboveground Biomass and Water-Use Efficiency of Alpine Grasslands on the Northern Tibetan Plateau. Rangeland Ecology and Management, 2013, 66, 454-461.	2.3	65
15	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
16	Effects of Grazing on Above- vs. Below-Ground Biomass Allocation of Alpine Grasslands on the Northern Tibetan Plateau. PLoS ONE, 2015, 10, e0135173.	2.5	60
17	Precipitation and species composition primarily determine the diversityâ€"productivity relationship of alpine grasslands on the Northern Tibetan Plateau. Alpine Botany, 2014, 124, 13-25.	2.4	59
18	Experimental warming does not enhance gross primary production and above-ground biomass in the alpine meadow of Tibet. Journal of Applied Remote Sensing, 2013, 7, 073505.	1.3	58

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19	Foliar nutrient resorption patterns of four functional plants along a precipitation gradient on the Tibetan Changtang Plateau. Ecology and Evolution, 2017, 7, 7201-7212.	1.9	58
20	Relationship between the Growing Season Maximum Enhanced Vegetation Index and Climatic Factors on the Tibetan Plateau. Remote Sensing, 2014, 6, 6765-6789.	4.0	52
21	Light-intensity grazing improves alpine meadow productivity and adaption to climate change on the Tibetan Plateau. Scientific Reports, 2015, 5, 15949.	3.3	50
22	Response of microbial biomass to grazing in an alpine meadow along an elevation gradient on the Tibetan Plateau. European Journal of Soil Biology, 2012, 52, 27-29.	3.2	48
23	Disentangling climatic and anthropogenic contributions to nonlinear dynamics of alpine grassland productivity on the Qinghai-Tibetan Plateau. Journal of Environmental Management, 2021, 281, 111875.	7.8	44
24	Grazing exclusion by fencing non-linearly restored the degraded alpine grasslands on the Tibetan Plateau. Scientific Reports, 2017, 7, 15202.	3.3	42
25	Dynamic forage-livestock balance analysis in alpine grasslands on the Northern Tibetan Plateau. Journal of Environmental Management, 2019, 238, 352-359.	7.8	42
26	Effects of Grazing Exclusion on Plant Functional Group Diversity of Alpine Grasslands Along a Precipitation Gradient on the Northern Tibetan Plateau. Arctic, Antarctic, and Alpine Research, 2014, 46, 419-429.	1.1	40
27	Plant functional trait diversity regulates the nonlinear response of productivity to regional climate change in Tibetan alpine grasslands. Scientific Reports, 2016, 6, 35649.	3.3	36
28	Grazing Exclusion to Recover Degraded Alpine Pastures Needs Scientific Assessments across the Northern Tibetan Plateau. Sustainability, 2016, 8, 1162.	3.2	35
29	Declining human activity intensity on alpine grasslands of the Tibetan Plateau. Journal of Environmental Management, 2021, 296, 113198.	7.8	35
30	Effects of livestock exclusion and climate change on aboveground biomass accumulation in alpine pastures across the Northern Tibetan Plateau. Science Bulletin, 2014, 59, 4332-4340.	1.7	34
31	Impacts of grazing exclusion on productivity partitioning along regional plant diversity and climatic gradients in Tibetan alpine grasslands. Journal of Environmental Management, 2019, 231, 635-645.	7.8	34
32	Biomass allocation patterns of alpine grassland species and functional groups along a precipitation gradient on the Northern Tibetan Plateau. Journal of Mountain Science, 2013, 10, 1097-1108.	2.0	33
33	Temporal Variability of Precipitation and Biomass of Alpine Grasslands on the Northern Tibetan Plateau. Remote Sensing, 2019, 11, 360.	4.0	33
34	Climate Variability Rather Than Livestock Grazing Dominates Changes in Alpine Grassland Productivity Across Tibet. Frontiers in Ecology and Evolution, 2021, 9, .	2.2	28
35	Warming homogenizes apparent temperature sensitivity of ecosystem respiration. Science Advances, 2021, 7, .	10.3	28
36	Lagged climatic effects on carbon fluxes over three grassland ecosystems in China. Journal of Plant Ecology, 2015, 8, 291-302.	2.3	27

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37	Plant and soilâ€™s Î´15N are regulated by climate, soil nutrients, and species diversity in alpine grasslands on the northern Tibetan Plateau. Agriculture, Ecosystems and Environment, 2019, 281, 111-123.	5.3	27
38	Response of ecosystem respiration to experimental warming and clipping at daily time scale in an alpine meadow of tibet. Journal of Mountain Science, 2013, 10, 455-463.	2.0	26
39	Response of Soil C and N, Dissolved Organic C and N, and Inorganic N to Short-Term Experimental Warming in an Alpine Meadow on the Tibetan Plateau. Scientific World Journal, The, 2014, 2014, 1-10.	2.1	25
40	Tower-Based Validation and Improvement of MODIS Gross Primary Production in an Alpine Swamp Meadow on the Tibetan Plateau. Remote Sensing, 2016, 8, 592.	4.0	24
41	Patterns and dynamics of the human appropriation of net primary production and its components in Tibet. Journal of Environmental Management, 2018, 210, 280-289.	7.8	24
42	Vegetation Expansion on the Tibetan Plateau and Its Relationship with Climate Change. Remote Sensing, 2020, 12, 4150.	4.0	23
43	Identifying the Relative Contributions of Climate and Grazing to Both Direction and Magnitude of Alpine Grassland Productivity Dynamics from 1993 to 2011 on the Northern Tibetan Plateau. Remote Sensing, 2017, 9, 136.	4.0	22
44	Response of Soil Respiration to Grazing in an Alpine Meadow at Three Elevations in Tibet. Scientific World Journal, The, 2014, 2014, 1-9.	2.1	21
45	A modified framework for the regional assessment of climate and human impacts on net primary productivity. Ecological Indicators, 2016, 60, 184-191.	6.3	21
46	Changes in plant species richness distribution in Tibetan alpine grasslands under different precipitation scenarios. Global Ecology and Conservation, 2020, 21, e00848.	2.1	21
47	Sensitivity of terrestrial carbon cycle to changes in precipitation regimes. Ecological Indicators, 2020, 113, 106223.	6.3	21
48	Modeling the maximum apparent quantum use efficiency of alpine meadow ecosystem on Tibetan Plateau. Ecological Modelling, 2007, 208, 129-134.	2.5	20
49	Calibration of MODIS-based gross primary production over an alpine meadow on the Tibetan Plateau. Canadian Journal of Remote Sensing, 2012, 38, 157-168.	2.4	20
50	Responses of Ecosystem CO_{2}Fluxes to Short-Term Experimental Warming and Nitrogen Enrichment in an Alpine Meadow, Northern Tibet Plateau. Scientific World Journal, The, 2013, 2013, 1-11.	2.1	20
51	Occurrence frequencies and regional variations in Visible Infrared Imaging Radiometer Suite (VIIRS) global active fires. Global Change Biology, 2020, 26, 2970-2987.	9.5	20
52	Effect of solar radiation on net ecosystem CO2 exchange of alpine meadow on the Tibetan Plateau. Journal of Chinese Geography, 2011, 21, 666-676.	3.9	18
53	Assessment of the vulnerability of alpine grasslands on the Qinghai-Tibetan Plateau. PeerJ, 2020, 8, e8513.	2.0	18
54	Clipping alters the response of biomass production to experimental warming: A case study in an alpine meadow on the Tibetan Plateau, China. Journal of Mountain Science, 2015, 12, 935-942.	2.0	17

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55	Responses of ecosystem respiration to nitrogen enrichment and clipping mediated by soil acidification in an alpine meadow. Pedobiologia, 2017, 60, 1-10.	1.2	16
56	Land Use and Land Cover Change in the Kailash Sacred Landscape of China. Sustainability, 2019, 11, 1788.	3.2	16
57	Impacts of human appropriation of net primary production on ecosystem regulating services in Tibet. Ecosystem Services, 2021, 47, 101231.	5.4	16
58	Validation of collection of 6 MODIS/Terra and MODIS/Aqua gross primary production in an alpine meadow of the Northern Tibetan Plateau. International Journal of Remote Sensing, 2017, 38, 4517-4534.	2.9	15
59	High Below-Ground Productivity Allocation of Alpine Grasslands on the Northern Tibet. Plants, 2019, 8, 535.	3.5	15
60	Restoration effects of fertilization and grazing exclusion on different degraded alpine grasslands: Evidence from a 10-year experiment. Ecological Engineering, 2021, 170, 106361.	3.6	14
61	Spatial and climatic patterns of the relative abundance of poisonous vs. non-poisonous plants across the Northern Tibetan Plateau. Environmental Monitoring and Assessment, 2015, 187, 491.	2.7	13
62	Heavy Grazing Altered the Biodiversityâ€"Productivity Relationship of Alpine Grasslands in Lhasa River Valley, Tibet. Frontiers in Ecology and Evolution, 2021, 9, .	2.2	13
63	Elevation-dependent effects of growing season length on carbon sequestration in Xizang Plateau grassland. Ecological Indicators, 2020, 110, 105880.	6.3	12
64	Climatic and geographic factors affect ecosystem multifunctionality through biodiversity in the Tibetan alpine grasslands. Journal of Mountain Science, 2017, 14, 1604-1614.	2.0	11
65	A growing season climatic index to simulate gross primary productivity and carbon budget in a Tibetan alpine meadow. Ecological Indicators, 2017, 81, 285-294.	6.3	10
66	Modeling Net Ecosystem Carbon Exchange of Alpine Grasslands with a Satellite-Driven Model. PLoS ONE, 2015, 10, e0122486.	2.5	8
67	Satellite-Based Inversion and Field Validation of Autotrophic and Heterotrophic Respiration in an Alpine Meadow on the Tibetan Plateau. Remote Sensing, 2017, 9, 615.	4.0	6
68	Spatialâ€"Temporal Variation of ANPP and Rain-Use Efficiency Along a Precipitation Gradient on Changtang Plateau, Tibet. Remote Sensing, 2019, 11, 325.	4.0	6
69	Divergent Climate Sensitivities of the Alpine Grasslands to Early Growing Season Precipitation on the Tibetan Plateau. Remote Sensing, 2022, 14, 2484.	4.0	6
70	Alpine grassland fPAR change over the Northern Tibetan Plateau from 2002 to 2011. Advances in Climate Change Research, 2017, 8, 108-116.	5.1	5
71	Species-area relationship within and across functional groups at alpine grasslands on the northern Tibetan Plateau, China. Journal of Mountain Science, 2016, 13, 265-275.	2.0	4
72	Stable Water Use Efficiency of Tibetan Alpine Meadows in Past Half Century: Evidence from Wool Î´13C Values. PLoS ONE, 2015, 10, e0144752.	2.5	2