Pei-li Shi

List of Publications by Year
in descending order

126 papers	6,052 citations	101496 36 h-index	79644 73 g-index
127 all docs	127 docs citations	127 times ranked	5953 citing authors

#	Article	IF	Citations
1	The FLUXNET2015 dataset and the ONEFlux processing pipeline for eddy covariance data. Scientific Data, 2020, 7, 225.	2.4	646
2	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.	1.9	486
3	Effects of national ecological restoration projects on carbon sequestration in China from 2001 to 2010. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 4039-4044.	3.3	486
4	Effects of vegetation control on ecosystem water use efficiency within and among four grassland ecosystems in China. Global Change Biology, 2008, 14, 1609-1619.	4.2	288
5	Spatial patterns and climate drivers of carbon fluxes in terrestrial ecosystems of China. Global Change Biology, 2013, 19, 798-810.	4.2	256
6	Partitioning of evapotranspiration and its controls in four grassland ecosystems: Application of a two-source model. Agricultural and Forest Meteorology, 2009, 149, 1410-1420.	1.9	227
7	Reconsidering the efficiency of grazing exclusion using fences on the Tibetan Plateau. Science Bulletin, 2020, 65, 1405-1414.	4.3	151
8	Effects of grazing exclusion on carbon sequestration and plant diversity in grasslands of Chinaâ€”A meta-analysis. Ecological Engineering, 2016, 94, 647-655.	1.6	148
9	Leaf area index and net primary productivity along subtropical to alpine gradients in the Tibetan Plateau. Global Ecology and Biogeography, 2004, 13, 345-358.	2.7	121
10	Climate warming impacts on soil organic carbon fractions and aggregate stability in a Tibetan alpine meadow. Soil Biology and Biochemistry, 2018, 116, 224-236.	4.2	108
11	Nitrogen and carbon sourceâ€“sink relationships in trees at the Himalayan treelines compared with lower elevations. Plant, Cell and Environment, 2008, 31, 1377-1387.	2.8	99
12	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
13	The Leaf Sizeâ€“Twig Size Spectrum of Temperate Woody Species Along an Altitudinal Gradient: An Invariant Allometric Scaling Relationship. Annals of Botany, 2006, 97, 97-107.	1.4	97
14	Diurnal and seasonal variability of soil CO2 efflux in a cropland ecosystem on the Tibetan Plateau. Agricultural and Forest Meteorology, 2006, 137, 220-233.	1.9	91
15	Spatial variability of water use efficiency in China's terrestrial ecosystems. Global and Planetary Change, 2015, 129, 37-44.	1.6	89
16	Simulation of the Stomatal Conductance of Winter Wheat in Response to Light, Temperature and CO2 Changes. Annals of Botany, 2004, 93, 435-441.	1.4	88
17	Temperature and precipitation control of the spatial variation of terrestrial ecosystem carbon exchange in the Asian region. Agricultural and Forest Meteorology, 2013, 182-183, 266-276.	1.9	86
18	Water and heat availability are drivers of the aboveground plant carbon accumulation rate in alpine grasslands on the Tibetan Plateau. Global Ecology and Biogeography, 2020, 29, 50-64.	2.7	77

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19	End of season carbon supply status of woody species near the treeline in western China. Basic and Applied Ecology, 2006, 7, 370-377.	1.2	75
20	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.	2.3	73
21	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.	1.2	72
22	Ecological change on the Tibetan Plateau. Chinese Science Bulletin, 2015, 60, 3048-3056.	0.4	66
23	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.	1.1	65
24	Nitrogen Critical Loads for an Alpine Meadow Ecosystem on the Tibetan Plateau. Environmental Management, 2016, 57, 531-542.	1.2	64
25	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.	0.6	58
26	Foliar nutrient resorption patterns of four functional plants along a precipitation gradient on the Tibetan Changtang Plateau. Ecology and Evolution, 2017, 7, 7201-7212.	0.8	58
27	Improving the light use efficiency model for simulating terrestrial vegetation gross primary production by the inclusion of diffuse radiation across ecosystems in China. Ecological Complexity, 2015, 23, 1-13.	1.4	54
28	Responses of ecosystem respiration and its components to fertilization in an alpine meadow on the Tibetan Plateau. European Journal of Soil Biology, 2013, 56, 101-106.	1.4	53
29	A MODIS-based Photosynthetic Capacity Model to estimate gross primary production in Northern China and the Tibetan Plateau. Remote Sensing of Environment, 2014, 148, 108-118.	4.6	52
30	Largeâ€scale estimation and uncertainty analysis of gross primary production in Tibetan alpine grasslands. Journal of Geophysical Research G: Biogeosciences, 2014, 119, 466-486.	1.3	50
31	Biotic and climatic controls on interannual variability in carbon fluxes across terrestrial ecosystems. Agricultural and Forest Meteorology, 2015, 205, 11-22.	1.9	47
32	Root biomass along subtropical to alpine gradients: global implication from Tibetan transect studies. Forest Ecology and Management, 2005, 206, 349-363.	1.4	46
33	Diversity of vegetation composition enhances ecosystem stability along elevational gradients in the Taihang Mountains, China. Ecological Indicators, 2019, 104, 594-603.	2.6	41
34	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.	0.4	40
35	Temporal-Spatial Variation and Controls of Soil Respiration in Different Primary Succession Stages on Glacier Forehead in Gongga Mountain, China. PLoS ONE, 2012, 7, e42354.	1.1	39
36	Litter species traits, but not richness, contribute to carbon and nitrogen dynamics in an alpine meadow on the Tibetan Plateau. Plant and Soil, 2013, 373, 931-941.	1.8	38

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37	Geographical statistical assessments of carbon fluxes in terrestrial ecosystems of China: Results from upscaling network observations. Global and Planetary Change, 2014, 118, 52-61.	1.6	38
38	Spatial variation in annual actual evapotranspiration of terrestrial ecosystems in China: Results from eddy covariance measurements. Journal of Chinese Geography, 2016, 26, 1391-1411.	1.5	35
39	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
40	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.	0.8	33
41	Spatio-temporal changes of NDVI and its relation with climatic variables in the source regions of the Yangtze and Yellow rivers. Journal of Chinese Geography, 2011, 21, 979-993.	1.5	32
42	Nutrient-induced shifts of dominant species reduce ecosystem stability via increases in species synchrony and population variability. Science of the Total Environment, 2019, 692, 441-449.	3.9	32
43	The patterns and mechanisms of precipitation use efficiency in alpine grasslands on the Tibetan Plateau. Agriculture, Ecosystems and Environment, 2020, 292, 106833.	2.5	32
44	Ecosystem response more than climate variability drives the inter-annual variability of carbon fluxes in three Chinese grasslands. Agricultural and Forest Meteorology, 2016, 225, 48-56.	1.9	31
45	CO2 Exchange in an Alpine Swamp Meadow on the Central Tibetan Plateau. Wetlands, 2017, 37, 525-543.	0.7	30
46	Warming homogenizes apparent temperature sensitivity of ecosystem respiration. Science Advances, 2021, 7, .	4.7	28
47	Lagged climatic effects on carbon fluxes over three grassland ecosystems in China. Journal of Plant Ecology, 2015, 8, 291-302.	1.2	27
48	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.	2.5	27
49	Coupling between plant nitrogen and phosphorus along water and heat gradients in alpine grassland. Science of the Total Environment, 2020, 701, 134660.	3.9	27
50	A remote sensing model to estimate ecosystem respiration in Northern China and the Tibetan Plateau. Ecological Modelling, 2015, 304, 34-43.	1.2	25
51	Leaf litter of a dominant cushion plant shifts nitrogen mineralization to immobilization at high but not low temperature in an alpine meadow. Plant and Soil, 2014, 383, 415-426.	1.8	24
52	Climatic patterns modulate ecosystem and soil respiration responses to fertilization in an alpine meadow on the Tibetan Plateau, China. Ecological Research, 2015, 30, 3-13.	0.7	24
53	Tower-Based Validation and Improvement of MODIS Gross Primary Production in an Alpine Swamp Meadow on the Tibetan Plateau. Remote Sensing, 2016, 8, 592.	1.8	24
54	Soil drainage facilitates earthworm invasion and subsequent carbon loss from peatland soil. Journal of Applied Ecology, 2017, 54, 1291-1300.	1.9	24

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55	Different sensitivity and threshold in response to nitrogen addition in four alpine grasslands along a precipitation transect on the Northern Tibetan Plateau. Ecology and Evolution, 2019, 9, 9782-9793.	0.8	24
56	Atmospheric water vapor and soil moisture jointly determine the spatiotemporal variations of CO2 fluxes and evapotranspiration across the Qinghai-Tibetan Plateau grasslands. Science of the Total Environment, 2021, 791, 148379.	3.9	24
57	The effects of warming and nitrogen addition on ecosystem respiration in a Tibetan alpine meadow: The significance of winter warming. Ecology and Evolution, 2018, 8, 10113-10125.	0.8	23
58	Warming-induced unprecedented high-elevation forest growth over the monsoonal Tibetan Plateau. Environmental Research Letters, 2020, 15, 054011.	2.2	23
59	Correlation Between CO2 Efflux and Net Nitrogen Mineralization and Its Response to External C or N Supply in an Alpine Meadow Soil. Pedosphere, 2011, 21, 666-675.	2.1	22
60	Response of Soil Respiration to Grazing in an Alpine Meadow at Three Elevations in Tibet. Scientific World Journal, The, 2014, 2014, 1-9.	0.8	21
61	Direct and indirect effects of climatic variations on the interannual variability in net ecosystem exchange across terrestrial ecosystems. Tellus, Series B: Chemical and Physical Meteorology, 2022, 68, 30575.	0.8	21
62	Uncertainty in simulating regional gross primary productivity from satellite-based models over northern China grassland. Ecological Indicators, 2018, 88, 134-143.	2.6	21
63	Modeling the maximum apparent quantum use efficiency of alpine meadow ecosystem on Tibetan Plateau. Ecological Modelling, 2007, 208, 129-134.	1.2	20
64	Calibration of MODIS-based gross primary production over an alpine meadow on the Tibetan Plateau. Canadian Journal of Remote Sensing, 2012, 38, 157-168.	1.1	20
65	Responses of Ecosystem CO₂Fluxes to Short-Term Experimental Warming and Nitrogen Enrichment in an Alpine Meadow, Northern Tibet Plateau. Scientific World Journal, The, 2013, 2013, 1-11.	0.8	20
66	Timing patterns of nitrogen application alter plant production and CO2 efflux in an alpine meadow on the Tibetan Plateau, China. Pedobiologia, 2014, 57, 263-269.	0.5	20
67	Challenges to Sustainable Development in China: A Review of Six Large-Scale Forest Restoration and Land Conservation Programs. Journal of Sustainable Forestry, 2014, 33, 435-453.	0.6	20
68	Assessing the ability of potential evapotranspiration models in capturing dynamics of evaporative demand across various biomes and climatic regimes with ChinaFLUX measurements. Journal of Hydrology, 2017, 551, 70-80.	2.3	20
69	Uncertainty analysis of eddy flux measurements in typical ecosystems of ChinaFLUX. Ecological Informatics, 2010, 5, 492-502.	2.3	18
70	Effect of solar radiation on net ecosystem CO2 exchange of alpine meadow on the Tibetan Plateau. Journal of Chinese Geography, 2011, 21, 666-676.	1.5	18
71	Approaches of climate factors affecting the spatial variation of annual gross primary productivity among terrestrial ecosystems in China. Ecological Indicators, 2016, 62, 174-181.	2.6	17
72	Effects of Warming and Nitrogen Addition on Plant Photosynthate Partitioning in an Alpine Meadow on the Tibetan Plateau. Journal of Plant Growth Regulation, 2018, 37, 803-812.	2.8	17

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73	Impacts of Diffuse Radiation on Light Use Efficiency across Terrestrial Ecosystems Based on Eddy Covariance Observation in China. PLoS ONE, 2014, 9, e110988.	1.1	16
74	The Soil Drying Along the Increase of Warming Masks the Relation between Temperature and Soil Respiration in an Alpine Meadow of Northern Tibet. Polish Journal of Ecology, 2016, 64, 125-129.	0.2	16
75	Responses of ecosystem respiration to nitrogen enrichment and clipping mediated by soil acidification in an alpine meadow. Pedobiologia, 2017, 60, 1-10.	0.5	16
76	Agricultural Land Suitability of Production Space in the Taihang Mountains, China. Chinese Geographical Science, 2019, 29, 1024-1038.	1.2	16
77	Carbon flux phenology and net ecosystem productivity simulated by a bioclimatic index in an alpine steppe-meadow on the Tibetan Plateau. Ecological Modelling, 2019, 394, 66-75.	1.2	16
78	Land Use and Land Cover Change in the Kailash Sacred Landscape of China. Sustainability, 2019, 11, 1788.	1.6	16
79	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.	1.3	15
80	Effects of warming and nitrogen addition on nutrient resorption efficiency in an alpine meadow on the northern Tibetan Plateau. Soil Science and Plant Nutrition, 2018, 64, 482-490.	0.8	15
81	High Below-Ground Productivity Allocation of Alpine Grasslands on the Northern Tibet. Plants, 2019, 8, 535.	1.6	15
82	High-altitude tree growth responses to climate change across the Hindu Kush Himalaya. Journal of Plant Ecology, 2021, 14, 829-842.	1.2	15
83	Feeding solution: Crop-livestock integration via crop-forage rotation in the southern Tibetan Plateau. Agriculture, Ecosystems and Environment, 2019, 284, 106589.	2.5	14
84	Spatial patterns and climate controls of seasonal variations in carbon fluxes in China's terrestrial ecosystems. Global and Planetary Change, 2020, 189, 103175.	1.6	14
85	Plant-microbe interactions regulate the aboveground community nitrogen accumulation rate in different environmental conditions on the Tibetan Plateau. Catena, 2021, 204, 105407.	2.2	14
86	Restoration effects of fertilization and grazing exclusion on different degraded alpine grasslands: Evidence from a 10-year experiment. Ecological Engineering, 2021, 170, 106361.	1.6	14
87	Effect of Altitude on the Response of Net Photosynthetic Rate to Carbon Dioxide Increase by Spring Wheat. Plant Production Science, 2010, 13, 141-149.	0.9	13
88	Using Soil Survey Database to Assess Soil Quality in the Heterogeneous Taihang Mountains, North China. Sustainability, 2018, 10, 3443.	1.6	13
89	A Satellite-Based Model for Simulating Ecosystem Respiration in the Tibetan and Inner Mongolian Grasslands. Remote Sensing, 2018, 10, 149.	1.8	13
90	Variation of biomass and morphology of the cushion plant <scp>Androsace tapete</scp> along an elevational gradient in the <scp>T</scp>ibetan <scp>P</scp>lateau. Plant Species Biology, 2014, 29, E64.	0.6	12

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91	Enhanced Community Production rather than Structure Improvement under Nitrogen and Phosphorus Addition in Severely Degraded Alpine Meadows. Sustainability, 2019, 11, 2023.	1.6	12
92	Soil properties rather than plant production strongly impact soil bacterial community diversity along a desertification gradient on the Tibetan Plateau. Grassland Science, 2020, 66, 197-206.	0.6	11
93	Do clonal growth form and habitat origin affect resource-induced plasticity in Tibetan alpine herbs?. Flora: Morphology, Distribution, Functional Ecology of Plants, 2007, 202, 408-416.	0.6	10
94	Controls of seed quantity and quality on seedling recruitment of smith fir along altitudinal gradient in southeastern Tibetan Plateau. Journal of Mountain Science, 2016, 13, 811-821.	0.8	10
95	A growing season climatic index to simulate gross primary productivity and carbon budget in a Tibetan alpine meadow. Ecological Indicators, 2017, 81, 285-294.	2.6	10
96	Climate sensitivity of high altitude tree growth across the Hindu Kush Himalaya. Forest Ecology and Management, 2021, 486, 118963.	1.4	10
97	Nitrogen addition stimulated compensatory growth responses to clipping defoliation in a Northern Tibetan alpine meadow. Grassland Science, 2019, 65, 60-68.	0.6	9
98	Attribute parameter characterized the seasonal variation of gross primary productivity (Î±GPP): Spatiotemporal variation and influencing factors. Agricultural and Forest Meteorology, 2020, 280, 107774.	1.9	9
99	Forests buffer thermal fluctuation better than non-forests. Agricultural and Forest Meteorology, 2020, 288-289, 107994.	1.9	9
100	Modeling Net Ecosystem Carbon Exchange of Alpine Grasslands with a Satellite-Driven Model. PLoS ONE, 2015, 10, e0122486.	1.1	8
101	Nitrogen economy of alpine plants on the north Tibetan Plateau: Nitrogen conservation by resorption rather than open sources through biological symbiotic fixation. Ecology and Evolution, 2020, 10, 2051-2061.	0.8	8
102	An integrated index based on climatic constraints and soil quality to simulate vegetation productivity patterns. Ecological Indicators, 2021, 129, 108015.	2.6	8
103	Simulations of phenology in alpine grassland communities in Damxung, Xizang, based on digital camera images. Chinese Journal of Plant Ecology, 2013, 36, 1125-1135.	0.3	8
104	Effects of CO2Increase on Wheat Growth and Yield under Different Atmospheric Pressures and Their Interaction with Temperature. Plant Production Science, 2012, 15, 118-124.	0.9	7
105	Nutrient Enrichment Mediates the Relationships of Soil Microbial Respiration with Climatic Factors in an Alpine Meadow. Scientific World Journal, The, 2015, 2015, 1-11.	0.8	7
106	Estimating Ecosystem Respiration in the Grasslands of Northern China Using Machine Learning: Model Evaluation and Comparison. Sustainability, 2020, 12, 2099.	1.6	7
107	The relative controls of temperature and soil moisture on the start of carbon flux phenology and net ecosystem production in two alpine meadows on the Qinghai-Tibetan Plateau. Journal of Plant Ecology, 2020, 13, 247-255.	1.2	7
108	Satellite-Based Inversion and Field Validation of Autotrophic and Heterotrophic Respiration in an Alpine Meadow on the Tibetan Plateau. Remote Sensing, 2017, 9, 615.	1.8	6

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109	Spatialâ€“Temporal Variation of ANPP and Rain-Use Efficiency Along a Precipitation Gradient on Changtang Plateau, Tibet. Remote Sensing, 2019, 11, 325.	1.8	6
110	Seasonal variations of the water budget in typical grassland ecosystems in China. Acta Ecologica Sinica, 2016, 36, 301-310.	0.9	5
111	Intensified Interspecific Competition for Water after Afforestation with Robinia pseudoacacia into a Native Shrubland in the Taihang Mountains, Northern China. Sustainability, 2021, 13, 807.	1.6	5
112	Plant nitrogen concentration is more sensitive in response to degradation than phosphorus concentration in alpine meadow. Ecological Engineering, 2021, 169, 106323.	1.6	5
113	Effects of Fertilization and Grazing Exclosure on Vegetation Recovery in a Degraded Alpine Meadow on the Tibetan Plateau. Ying Yong Yu Huan Jing Sheng Wu Xue Bao = Chinese Journal of Applied and Environmental Biology, 2013, 19, 905.	0.1	5
114	Response of canopy quantum yield of alpine meadow to temperature under low atmospheric pressure on Tibetan Plateau. Science in China Series D: Earth Sciences, 2006, 49, 219-225.	0.9	4
115	Characteristics of net ecosystem carbon dioxide exchange (NEE) from August to October of Alpine meadow on the Tibetan Plateau, China. Frontiers of Biology in China: Selected Publications From Chinese Universities, 2006, 1, 418-422.	0.2	4
116	Comparison of Growth and Grain Yield of Spring Wheat in Lhasa, the Tibetan Plateau, with those in Sapporo, Japan. Plant Production Science, 2009, 12, 116-123.	0.9	4
117	Sources of uncertainty in exploring rangeland phenology: A case study in an alpine meadow on the central Tibetan Plateau. Journal of Mountain Science, 2017, 14, 1827-1838.	0.8	4
118	Clipping defoliation eliminates the stimulating effects of nitrogen enrichment on the aboveground productivity of an alpine meadow. Plant, Soil and Environment, 2020, 66, 47-56.	1.0	3
119	Tree Regeneration Patterns on Contrasting Slopes at Treeline Ecotones in Eastern Tibet. Forests, 2021, 12, 1605.	0.9	3
120	Stable Water Use Efficiency of Tibetan Alpine Meadows in Past Half Century: Evidence from Wool Î´13C Values. PLoS ONE, 2015, 10, e0144752.	1.1	2
121	Seed Germination in Alpine Meadow Steppe Plants from Central Tibet in Response to Experimental Warming. Sustainability, 2020, 12, 1884.	1.6	2
122	The Function of Cushion Plants in Alpine Ecosystems: Patterns and Mechanisms. Ying Yong Yu Huan Jing Sheng Wu Xue Bao = Chinese Journal of Applied and Environmental Biology, 2013, 19, 561-568.	0.1	2
123	é•è—é«˜åŽŸé«˜å¯’ç€ä¸›è‰ç”¸å’Œè‰åŽŸå–è‰ç”¸CO2é€šé‡åŠ¨æ€åŠå…¶é™å¶å› å Chinese Journal of Plant Ecology, 2018, 42, 6-19.	0.3	2
124	Ecological Restoration in the Typical Areas. , 2015, , 265-374.		1
125	Integrated landscape approaches to building resilience and multifunctionality in the Kailash Sacred Landscape, China. Journal of Mountain Science, 0, , 1.	0.8	0
126	Impacts and Its Adaptation of Global Change. , 2015, , 469-496.		0