

Huakun Zhou

List of Publications by Year in descending order

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75
papers

2,073
citations

394421

19
h-index

265206

42
g-index

75
all docs

75
docs citations

75
times ranked

1934
citing authors

#	ARTICLE	IF	CITATIONS
1	Combatting global grassland degradation. <i>Nature Reviews Earth & Environment</i> , 2021, 2, 720-735.	29.7	377
2	Alpine grassland degradation and its control in the source region of the Yangtze and Yellow Rivers, China. <i>Grassland Science</i> , 2005, 51, 191-203.	1.1	258
3	Climate change and human activities altered the diversity and composition of soil microbial community in alpine grasslands of the Qinghai-Tibetan Plateau. <i>Science of the Total Environment</i> , 2016, 562, 353-363.	8.0	195
4	Effects of short-term and long-term warming on soil nutrients, microbial biomass and enzyme activities in an alpine meadow on the Qinghai-Tibet Plateau of China. <i>Soil Biology and Biochemistry</i> , 2014, 76, 140-142.	8.8	111
5	Land Use/Land Cover Changes and Their Driving Factors in the Northeastern Tibetan Plateau Based on Geographical Detectors and Google Earth Engine: A Case Study in Gannan Prefecture. <i>Remote Sensing</i> , 2020, 12, 3139.	4.0	90
6	Autotrophic and symbiotic diazotrophs dominate nitrogen-fixing communities in Tibetan grassland soils. <i>Science of the Total Environment</i> , 2018, 639, 997-1006.	8.0	88
7	Characterizing evapotranspiration over a meadow ecosystem on the Qinghai-Tibetan Plateau. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	77
8	Manganese Toxicity Inhibited Root Growth by Disrupting Auxin Biosynthesis and Transport in <i>Arabidopsis</i> . <i>Frontiers in Plant Science</i> , 2017, 8, 272.	3.6	52
9	Stability of alpine meadow ecosystem on the Qinghai-Tibetan Plateau. <i>Science Bulletin</i> , 2006, 51, 320-327.	1.7	48
10	Contrasting effects of nitrogen and phosphorus addition on soil respiration in an alpine grassland on the Qinghai-Tibetan Plateau. <i>Scientific Reports</i> , 2016, 6, 34786.	3.3	37
11	The phylogenetic structure of AMF communities shifts in response to gradient warming with and without winter grazing on the Qinghai-Tibet Plateau. <i>Applied Soil Ecology</i> , 2017, 121, 31-40.	4.3	34
12	UV-B Radiation Induces Root Bending Through the Flavonoid-Mediated Auxin Pathway in <i>Arabidopsis</i> . <i>Frontiers in Plant Science</i> , 2018, 9, 618.	3.6	34
13	The uptake diversity of soil nitrogen nutrients by main plant species in <i>Kobresia humilis</i> alpine meadow on the Qinghai-Tibet Plateau. <i>Science China Earth Sciences</i> , 2012, 55, 1688-1695.	5.2	33
14	Different responses of multifaceted plant diversities of alpine meadow and alpine steppe to nitrogen addition gradients on Qinghai-Tibetan Plateau. <i>Science of the Total Environment</i> , 2019, 688, 1405-1412.	8.0	29
15	Effect of grassland degradation on aggregate-associated soil organic carbon of alpine grassland ecosystems in the Qinghai-Tibetan Plateau. <i>European Journal of Soil Science</i> , 2020, 71, 69-79.	3.9	27
16	Microbial community responses reduce soil carbon loss in Tibetan alpine grasslands under short-term warming. <i>Global Change Biology</i> , 2019, 25, 3438-3449.	9.5	24
17	Opposite effects of winter day and night temperature changes on early phenophases. <i>Ecology</i> , 2019, 100, e02775.	3.2	24
18	Atmospheric water vapor and soil moisture jointly determine the spatiotemporal variations of CO ₂ fluxes and evapotranspiration across the Qinghai-Tibetan Plateau grasslands. <i>Science of the Total Environment</i> , 2021, 791, 148379.	8.0	24

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19	Effects of simulated N deposition on photosynthesis and productivity of key plants from different functional groups of alpine meadow on Qinghai-Tibetan plateau. <i>Environmental Pollution</i> , 2019, 251, 731-737.	7.5	23
20	Effects of Warming and N Deposition on the Physiological Performances of <i>Leymus secalinus</i> in Alpine Meadow of Qinghai-Tibetan Plateau. <i>Frontiers in Plant Science</i> , 2019, 10, 1804.	3.6	23
21	Warming has a minor effect on surface soil organic carbon in alpine meadow ecosystems on the Qinghai-Tibetan Plateau. <i>Global Change Biology</i> , 2022, 28, 1618-1629.	9.5	22
22	Effects of Different Grazing Disturbances on the Plant Diversity and Ecological Functions of Alpine Grassland Ecosystem on the Qinghai-Tibetan Plateau. <i>Frontiers in Plant Science</i> , 2021, 12, 765070.	3.6	22
23	Involvement of reactive oxygen species and auxin in serotonin-induced inhibition of primary root elongation. <i>Journal of Plant Physiology</i> , 2018, 229, 89-99.	3.5	20
24	Response of net reduction rate in vegetation carbon uptake to climate change across a unique gradient zone on the Tibetan Plateau. <i>Environmental Research</i> , 2022, 203, 111894.	7.5	20
25	Ecosystem nitrogen retention is regulated by plant community trait interactions with nutrient status in an alpine meadow. <i>Journal of Ecology</i> , 2018, 106, 1570-1581.	4.0	19
26	Elevation is Associated with Human Skin Microbiomes. <i>Microorganisms</i> , 2019, 7, 611.	3.6	19
27	Variations in the nitrogen saturation threshold of soil respiration in grassland ecosystems. <i>Biogeochemistry</i> , 2020, 148, 311-324.	3.5	19
28	Annual ecosystem respiration is resistant to changes in freeze-thaw periods in semi-arid permafrost. <i>Global Change Biology</i> , 2020, 26, 2630-2641.	9.5	18
29	Effect of loss of plant functional group and simulated nitrogen deposition on subalpine ecosystem properties on the Tibetan Plateau. <i>Science of the Total Environment</i> , 2018, 631-632, 289-297.	8.0	17
30	The volatile organic compounds of <i>Floccularia luteovirens</i> modulate plant growth and metabolism in <i>Arabidopsis thaliana</i> . <i>Plant and Soil</i> , 2020, 456, 207-221.	3.7	16
31	Restoration of Degraded Grassland Significantly Improves Water Storage in Alpine Grasslands in the Qinghai-Tibet Plateau. <i>Frontiers in Plant Science</i> , 2021, 12, 778656.	3.6	16
32	Phosphorus does not alleviate the negative effect of nitrogen enrichment on legume performance in an alpine grassland. <i>Journal of Plant Ecology</i> , 0, , rtw089.	2.3	15
33	Direct and indirect effects of long-term fertilization on the stability of the persistent seed bank. <i>Plant and Soil</i> , 2019, 438, 239-250.	3.7	15
34	Predicting the Suitable Geographical Distribution of <i>Sinodoxa Corydalifolia</i> under Different Climate Change Scenarios in the Three-River Region Using the MaxEnt Model. <i>Plants</i> , 2020, 9, 1015.	3.5	15
35	Light Grazing Significantly Reduces Soil Water Storage in Alpine Grasslands on the Qinghai-Tibet Plateau. <i>Sustainability</i> , 2020, 12, 2523.	3.2	14
36	Richness of plant communities plays a larger role than climate in determining responses of species richness to climate change. <i>Journal of Ecology</i> , 2019, 107, 1944-1955.	4.0	12

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37	The effects of long-term warming on arbuscular mycorrhizal fungal communities depend on habitat type on the Qinghai-Tibet Plateau. <i>Applied Soil Ecology</i> , 2021, 167, 104030.	4.3	12
38	Early-Warning Measures for Ecological Security in the Qinghai Alpine Agricultural Area. <i>International Journal of Environmental Research and Public Health</i> , 2020, 17, 9292.	2.6	11
39	Enhanced spring temperature sensitivity of carbon emission links to earlier phenology. <i>Science of the Total Environment</i> , 2020, 745, 140999.	8.0	9
40	Non-linear temperature sensitivity of litter component decomposition under warming gradient with precipitation addition on the Tibetan plateau. <i>Plant and Soil</i> , 2020, 448, 335-351.	3.7	9
41	Long-term warming does not affect soil ecoenzyme activity and original microbial nutrient limitation on the Qinghai-Tibet Plateau. <i>Soil Ecology Letters</i> , 0, , 1.	4.5	9
42	Natural Products, Traditional Uses and Pharmacological Activities of the Genus <i>Biebersteinia</i> (Biebersteiniaceae). <i>Plants</i> , 2020, 9, 595.	3.5	8
43	Evaluation of actual evapotranspiration measured by large-scale weighing lysimeters in a humid alpine meadow, northeastern Qinghai-Tibetan Plateau. <i>Hydrological Processes</i> , 2021, 35, e14051.	2.6	8
44	Spatiotemporal Dynamics of the Carbon Budget and the Response to Grazing in Qinghai Grasslands. <i>Frontiers in Plant Science</i> , 2021, 12, 775015.	3.6	8
45	Vegetation attributes and soil properties of alpine grassland in different degradation stages on the Qinghai-Tibet Plateau, China: a meta-analysis. <i>Arabian Journal of Geosciences</i> , 2022, 15, 1.	1.3	8
46	The East Asian Winter Monsoon Acts as a Major Selective Factor in the Intraspecific Differentiation of Drought-Tolerant <i>Nitraria tangutorum</i> in Northwest China. <i>Plants</i> , 2020, 9, 1100.	3.5	7
47	Transcriptome Analysis Reveals Potential Roles of Abscisic Acid and Polyphenols in Adaptation of <i>Onobrychis viciifolia</i> to Extreme Environmental Conditions in the Qinghai-Tibetan Plateau. <i>Biomolecules</i> , 2020, 10, 967.	4.0	7
48	Effect of <i>Elymus nutan</i> on the assemblage of arbuscular mycorrhizal fungal communities enhanced by soil available nitrogen in the restoration succession of revegetated grassland on the Qinghai-Tibetan Plateau. <i>Land Degradation and Development</i> , 2022, 33, 931-944.	3.9	7
49	Responses of Soil Microbial Metabolic Activity and Community Structure to Different Degraded and Restored Grassland Gradients of the Tibetan Plateau. <i>Frontiers in Plant Science</i> , 2022, 13, 770315.	3.6	7
50	How precipitation and grazing influence the ecological functions of drought-prone grasslands on the northern slopes of the Tianshan Mountains, China?. <i>Journal of Arid Land</i> , 2021, 13, 88-97.	2.3	6
51	Long-term warming results in species-specific shifts in seed mass in alpine communities. <i>PeerJ</i> , 2019, 7, e7416.	2.0	6
52	Context-Dependency in Relationships Between Herbaceous Plant Leaf Traits and Abiotic Factors. <i>Frontiers in Plant Science</i> , 2022, 13, 757077.	3.6	6
53	Effects of chemical substances on the rapid cultivation of moss crusts in a phytotron from the Loess Plateau, China. <i>International Journal of Phytoremediation</i> , 2019, 21, 268-278.	3.1	5
54	<i>Floccularia luteovirens</i> modulates the growth of alpine meadow plants and affects soil metabolite accumulation on the Qinghai-Tibet Plateau. <i>Plant and Soil</i> , 2021, 459, 125-136.	3.7	5

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55	USING A CELLULAR-AUTOMATA MODEL TO INVESTIGATE THE EFFECTS OF GRAZING ON PLATEAU PIKA POPULATION DYNAMICS. <i>International Journal of Biomathematics</i> , 2011, 04, 275-287.	2.9	4
56	Different types of biocrusts affect plant communities by changing the microenvironment and surface soil nutrients in the Qinghai-Tibetan Plateau. <i>Arid Land Research and Management</i> , 2020, 34, 306-318.	1.6	4
57	Temporal and Spatial Characteristics of CO ₂ Flux in Plateau Urban Wetlands and Their Influencing Factors Based on Eddy Covariance Technique. <i>Water (Switzerland)</i> , 2021, 13, 1176.	2.7	4
58	The complete chloroplast genome and phylogenetic analysis of <i>Syringa reticulata</i> subsp. <i>amurensis</i> (Rupr.) P.S.Green & M.C.Chang from Qinghai Province, China. <i>Mitochondrial DNA Part B: Resources</i> , 2021, 6, 1829-1831.	0.4	4
59	Genus <i>Ribes</i> Linn. (Grossulariaceae): A comprehensive review of traditional uses, phytochemistry, pharmacology and clinical applications. <i>Journal of Ethnopharmacology</i> , 2021, 276, 114166.	4.1	4
60	Light plasticity of germination on the eastern Tibetan Plateau: Phylogeny, trait, and environmental correlates. <i>Journal of Plant Physiology</i> , 2022, 272, 153670.	3.5	4
61	The Predominance of Nongrowing Season Emissions to the Annual Methane Budget of a Semiarid Alpine Meadow on the Northeastern Qinghai-Tibetan Plateau. <i>Ecosystems</i> , 2022, 25, 526-536.	3.4	3
62	Single-Species Artificial Grasslands Decrease Soil Multifunctionality in a Temperate Steppe on the Qinghai-Tibet Plateau. <i>Agronomy</i> , 2021, 11, 2092.	3.0	3
63	Effects of Increased Precipitation and Nitrogen Deposition on Methane Uptake of Alpine Meadow in Qinghai-Tibet Plateau: in situ Experiments. <i>Polish Journal of Ecology</i> , 2020, 68, .	0.2	3
64	Quantifying and Mapping Human Appropriation of Net Primary Productivity in Qinghai Grasslands in China. <i>Agriculture (Switzerland)</i> , 2022, 12, 483.	3.1	3
65	Experimental Warming Has Not Affected the Changes in Soil Organic Carbon During the Growing Season in an Alpine Meadow Ecosystem on the Qinghai-Tibet Plateau. <i>Frontiers in Plant Science</i> , 2022, 13, 847680.	3.6	3
66	Effects of plant species richness on ¹³ C assimilate partitioning in artificial grasslands of different established ages. <i>Scientific Reports</i> , 2017, 7, 40307.	3.3	2
67	Effect of nitrification inhibitor on plant biomass and N ₂ O emission rates in alpine meadows on the Tibetan Plateau. <i>Chemistry and Ecology</i> , 2020, 36, 410-418.	1.6	2
68	The sequence and characterization of the complete plastome of <i>Syringa reticulata</i> subsp. <i>pekinensis</i> (Oleaceae). <i>Mitochondrial DNA Part B: Resources</i> , 2020, 5, 2015-2017.	0.4	2
69	Antraquinone and Flavonoid Compounds from Gum of <i>Rheum tanguticum</i> . <i>Chemistry of Natural Compounds</i> , 2021, 57, 521-522.	0.8	1
70	Human appropriation of net primary production estimates in the Xinjiang grasslands. <i>PLoS ONE</i> , 2020, 15, e0242478.	2.5	1
71	Impact of Industrial Pollution of Cadmium on Traditional Crop Planting Areas and Land Management: A Case Study in Northwest China. <i>Land</i> , 2021, 10, 1364.	2.9	1
72	Characterization of the complete chloroplast genome of <i>Cornus bretschneideri</i> (cornaceae). <i>Mitochondrial DNA Part B: Resources</i> , 2020, 5, 543-544.	0.4	0

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73	A System Dynamics Model for Assessing the Efficacy of Lethal Control for Sustainable Management of <i>Ochotona curzoniae</i> on Tibetan Plateau. <i>Sustainability</i> , 2021, 13, 543.	3.2	0
74	Evidence for miRNAs involved in the high-altitude responses of sainfoin (<i>Onobrychis viciifolia</i>) grown in the Qinghai-Tibetan plateau. <i>Journal of Plant Biochemistry and Biotechnology</i> , 0, , 1.	1.7	0
75	Effects of long-term nitrogen & phosphorus fertilization on soil microbial, bacterial and fungi respiration and their temperature sensitivity on the Qinghai-Tibet Plateau. <i>PeerJ</i> , 2022, 10, e12851.	2.0	0