

Zhenzhu Xu

List of Publications by Year in descending order

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Version: 2024-02-01

55
papers

3,448
citations

218592

26
h-index

149623

56
g-index

69
all docs

69
docs citations

69
times ranked

4501
citing authors

#	ARTICLE	IF	CITATIONS
1	Responses of leaf stomatal density to water status and its relationship with photosynthesis in a grass. <i>Journal of Experimental Botany</i> , 2008, 59, 3317-3325.	2.4	624
2	Plant responses to drought and rewatering. <i>Plant Signaling and Behavior</i> , 2010, 5, 649-654.	1.2	427
3	Elevated-CO ₂ Response of Stomata and Its Dependence on Environmental Factors. <i>Frontiers in Plant Science</i> , 2016, 7, 657.	1.7	265
4	Combined effects of water stress and high temperature on photosynthesis, nitrogen metabolism and lipid peroxidation of a perennial grass <i>Leymus chinensis</i> . <i>Planta</i> , 2006, 224, 1080-1090.	1.6	255
5	Response and adaptation of photosynthesis, respiration, and antioxidant systems to elevated CO ₂ with environmental stress in plants. <i>Frontiers in Plant Science</i> , 2015, 6, 701.	1.7	188
6	Are plant growth and photosynthesis limited by pre-drought following rewatering in grass?. <i>Journal of Experimental Botany</i> , 2009, 60, 3737-3749.	2.4	155
7	Effects of elevated CO ₂ , warming and precipitation change on plant growth, photosynthesis and peroxidation in dominant species from North China grassland. <i>Planta</i> , 2014, 239, 421-435.	1.6	141
8	Biotic and abiotic factors controlling the spatial and temporal variation of soil respiration in an agricultural ecosystem. <i>Soil Biology and Biochemistry</i> , 2007, 39, 418-425.	4.2	116
9	Interactive Effects of Elevated CO ₂ , Drought, and Warming on Plants. <i>Journal of Plant Growth Regulation</i> , 2013, 32, 692-707.	2.8	96
10	Nitrogen Metabolism and Photosynthesis in <i>Leymus chinensis</i> in Response to Long-term Soil Drought. <i>Journal of Plant Growth Regulation</i> , 2006, 25, 252-266.	2.8	78
11	Maize leaf functional responses to drought episode and rewatering. <i>Agricultural and Forest Meteorology</i> , 2018, 249, 57-70.	1.9	76
12	Changes in Chlorophyll Fluorescence in Maize Plants with Imposed Rapid Dehydration at Different Leaf Ages. <i>Journal of Plant Growth Regulation</i> , 2008, 27, 83-92.	2.8	61
13	Responses of photosynthetic capacity to soil moisture gradient in perennial rhizome grass and perennial bunchgrass. <i>BMC Plant Biology</i> , 2011, 11, 21.	1.6	59
14	Nitrogen Translocation in Wheat Plants Under Soil Water Deficit. <i>Plant and Soil</i> , 2006, 280, 291-303.	1.8	50
15	Effects of Soil Drought with Nocturnal Warming on Leaf Stomatal Traits and Mesophyll Cell Ultrastructure of a Perennial Grass. <i>Crop Science</i> , 2009, 49, 1843-1851.	0.8	49
16	Theory and application for the promotion of wheat production in China: past, present and future. <i>Journal of the Science of Food and Agriculture</i> , 2013, 93, 2339-2350.	1.7	48
17	Vertical distributions of chlorophyll and nitrogen and their associations with photosynthesis under drought and rewatering regimes in a maize field. <i>Agricultural and Forest Meteorology</i> , 2019, 272-273, 40-54.	1.9	48
18	Soil temperature and biotic factors drive the seasonal variation of soil respiration in a maize (<i>Zea</i>) Tj ETQq0 0 0 rgBTJ Overlock 10 Tf 50	1.8	43

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19	Combined effects of elevated CO ₂ and soil drought on carbon and nitrogen allocation of the desert shrub <i>Caragana intermedia</i> . <i>Plant and Soil</i> , 2007, 301, 87-97.	1.8	43
20	Tracking chlorophyll fluorescence as an indicator of drought and rewatering across the entire leaf lifespan in a maize field. <i>Agricultural Water Management</i> , 2019, 211, 190-201.	2.4	43
21	Nitrogen deposition magnifies the sensitivity of desert steppe plant communities to large changes in precipitation. <i>Journal of Ecology</i> , 2020, 108, 598-610.	1.9	41
22	Interactive Effects of Warming and Increased Precipitation on Community Structure and Composition in an Annual Forb Dominated Desert Steppe. <i>PLoS ONE</i> , 2013, 8, e70114.	1.1	37
23	Climatic warming shifts the soil nematode community in a desert steppe. <i>Climatic Change</i> , 2018, 150, 243-258.	1.7	37
24	Effects of warming and changing precipitation rates on soil respiration over two years in a desert steppe of northern China. <i>Plant and Soil</i> , 2016, 400, 15-27.	1.8	36
25	Photosynthetic Potential and its Association with Lipid Peroxidation in Response to High Temperature at Different Leaf Ages in Maize. <i>Journal of Plant Growth Regulation</i> , 2011, 30, 41-50.	2.8	35
26	Excessive nitrogen application decreases grain yield and increases nitrogen loss in a wheat-soil system. <i>Acta Agriculturae Scandinavica - Section B Soil and Plant Science</i> , 2011, 61, 681-692.	0.3	33
27	Photosynthetic resistance and resilience under drought, flooding and rewatering in maize plants. <i>Photosynthesis Research</i> , 2021, 148, 1-15.	1.6	31
28	Ecosystem responses to warming and watering in typical and desert steppes. <i>Scientific Reports</i> , 2016, 6, 34801.	1.6	27
29	Climate warming-induced drought constrains vegetation productivity by weakening the temporal stability of the plant community in an arid grassland ecosystem. <i>Agricultural and Forest Meteorology</i> , 2021, 307, 108526.	1.9	26
30	Nitrogen metabolism in flag leaf and grain of wheat in response to irrigation regimes. <i>Journal of Plant Nutrition and Soil Science</i> , 2006, 169, 118-126.	1.1	24
31	Nitrogen cycles in terrestrial ecosystems: climate change impacts and mitigation. <i>Environmental Reviews</i> , 2016, 24, 132-143.	2.1	24
32	Forest litterfall and its composition: a new data set of observational data from China. <i>Ecology</i> , 2016, 97, 1365-1365.	1.5	20
33	Short- and long-term warming alters soil microbial community and relates to soil traits. <i>Applied Soil Ecology</i> , 2018, 131, 22-28.	2.1	20
34	Comparison of water vapour, heat and energy exchanges over agricultural and wetland ecosystems. <i>Hydrological Processes</i> , 2009, 23, 2069-2080.	1.1	18
35	Statistical characteristics of forest litterfall in China. <i>Science China Life Sciences</i> , 2018, 61, 358-360.	2.3	17
36	Detection of Photosynthetic Performance of <i>Stipa bungeana</i> Seedlings under Climatic Change using Chlorophyll Fluorescence Imaging. <i>Frontiers in Plant Science</i> , 2015, 6, 1254.	1.7	15

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37	Responses of plant biomass and yield component in rice, wheat, and maize to climatic warming: a meta-analysis. <i>Planta</i> , 2020, 252, 90.	1.6	14
38	Effects of cotton field management practices on soil CO ₂ emission and C balance in an arid region of Northwest China. <i>Journal of Arid Land</i> , 2014, 6, 468-477.	0.9	13
39	Elevated CO ₂ can modify the response to a water status gradient in a steppe grass: from cell organelles to photosynthetic capacity to plant growth. <i>BMC Plant Biology</i> , 2016, 16, 157.	1.6	13
40	Temperature sensitivity increases with decreasing soil carbon quality in forest ecosystems across northeast China. <i>Climatic Change</i> , 2020, 160, 373-384.	1.7	10
41	Climatic warming enhances soil respiration resilience in an arid ecosystem. <i>Science of the Total Environment</i> , 2021, 756, 144005.	3.9	10
42	Growth variations of Dahurian larch plantations across northeast China: Understanding the effects of temperature and precipitation. <i>Journal of Environmental Management</i> , 2021, 292, 112739.	3.8	10
43	Resistance, recovery, and resilience of desert steppe to precipitation alterations with nitrogen deposition. <i>Journal of Cleaner Production</i> , 2021, 317, 128434.	4.6	10
44	Soil carbon release responses to long-term versus short-term climatic warming in an arid ecosystem. <i>Biogeosciences</i> , 2020, 17, 781-792.	1.3	9
45	Evaluation of restoration approaches on the Inner Mongolian Steppe based on criteria of the Society for Ecological Restoration. <i>Land Degradation and Development</i> , 2020, 31, 285-296.	1.8	7
46	A self-photoprotection mechanism helps <i>Stipa baicalensis</i> adapt to future climate change. <i>Scientific Reports</i> , 2016, 6, 25839.	1.6	6
47	Driving mechanisms of climate-plant-soil patterns on the structure and function of different grasslands along environmental gradients in Tibetan and Inner Mongolian Plateaus in China. <i>Journal of Cleaner Production</i> , 2022, 339, 130696.	4.6	6
48	Interactive effects of elevated CO ₂ and precipitation change on leaf nitrogen of dominant <i>Stipa L.</i> species. <i>Ecology and Evolution</i> , 2015, 5, 2956-2965.	0.8	5
49	Precipitation variations, rather than N deposition, determine plant ecophysiological traits in a desert steppe in Northern China. <i>Ecological Indicators</i> , 2022, 141, 109144.	2.6	5
50	Does precipitation mediate the effects of elevated CO ₂ on plant growth in the grass species <i>Stipa grandis</i> ?. <i>Environmental and Experimental Botany</i> , 2016, 131, 146-154.	2.0	4
51	Sensitive indicators of <i>Stipa bungeana</i> response to precipitation under ambient and elevated CO ₂ concentration. <i>International Journal of Biometeorology</i> , 2018, 62, 141-151.	1.3	4
52	The relationship between leaf and ecosystem CO ₂ exchanges in a maize field. <i>Acta Physiologiae Plantarum</i> , 2018, 40, 1.	1.0	4
53	A compiled soil respiration dataset at different time scales for forest ecosystems across China from 2000 to 2018. <i>Earth System Science Data</i> , 2022, 14, 2951-2961.	3.7	4
54	Effects of elevated CO ₂ on <i>Stipa baicalensis</i> photosynthesis depend on precipitation and growth phase. <i>Ecological Research</i> , 2019, 34, 790-801.	0.7	3

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55	Vertical distribution of gas exchanges and their integration throughout the entire canopy in a maize field. <i>Photosynthesis Research</i> , 2021, 147, 269-281.	1.6	2