

# Zhenzhu Xu

## List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

53  
papers

2,375  
citations

24  
h-index

48  
g-index

69  
ext. papers

2,895  
ext. citations

4.9  
avg, IF

5.34  
L-index

#	Paper	IF	Citations
53	Responses of leaf stomatal density to water status and its relationship with photosynthesis in a grass. <i>Journal of Experimental Botany</i> , <b>2008</b> , 59, 3317-25	7	433
52	Plant responses to drought and rewatering. <i>Plant Signaling and Behavior</i> , <b>2010</b> , 5, 649-54	2.5	301
51	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> , <b>2006</b> , 224, 1080-90	4.7	194
50	Elevated-CO <sub>2</sub> Response of Stomata and Its Dependence on Environmental Factors. <i>Frontiers in Plant Science</i> , <b>2016</b> , 7, 657	6.2	168
49	Response and adaptation of photosynthesis, respiration, and antioxidant systems to elevated CO <sub>2</sub> with environmental stress in plants. <i>Frontiers in Plant Science</i> , <b>2015</b> , 6, 701	6.2	120
48	Are plant growth and photosynthesis limited by pre-drought following rewatering in grass?. <i>Journal of Experimental Botany</i> , <b>2009</b> , 60, 3737-49	7	114
47	Biotic and abiotic factors controlling the spatial and temporal variation of soil respiration in an agricultural ecosystem. <i>Soil Biology and Biochemistry</i> , <b>2007</b> , 39, 418-425	7.5	100
46	Effects of elevated CO <sub>2</sub> warming and precipitation change on plant growth, photosynthesis and peroxidation in dominant species from North China grassland. <i>Planta</i> , <b>2014</b> , 239, 421-35	4.7	91
45	Interactive Effects of Elevated CO <sub>2</sub> , Drought, and Warming on Plants. <i>Journal of Plant Growth Regulation</i> , <b>2013</b> , 32, 692-707	4.7	76
44	Nitrogen Metabolism and Photosynthesis in <i>Leymus chinensis</i> in Response to Long-term Soil Drought. <i>Journal of Plant Growth Regulation</i> , <b>2006</b> , 25, 252-266	4.7	67
43	Maize leaf functional responses to drought episode and rewatering. <i>Agricultural and Forest Meteorology</i> , <b>2018</b> , 249, 57-70	5.8	49
42	Changes in Chlorophyll Fluorescence in Maize Plants with Imposed Rapid Dehydration at Different Leaf Ages. <i>Journal of Plant Growth Regulation</i> , <b>2008</b> , 27, 83-92	4.7	47
41	Effects of Soil Drought with Nocturnal Warming on Leaf Stomatal Traits and Mesophyll Cell Ultrastructure of a Perennial Grass. <i>Crop Science</i> , <b>2009</b> , 49, 1843-1851	2.4	43
40	Responses of photosynthetic capacity to soil moisture gradient in perennial rhizome grass and perennial bunchgrass. <i>BMC Plant Biology</i> , <b>2011</b> , 11, 21	5.3	40
39	Nitrogen Translocation in Wheat Plants Under Soil Water Deficit. <i>Plant and Soil</i> , <b>2006</b> , 280, 291-303	4.2	40
38	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> , <b>2013</b> , 93, 2339-50	4.3	38
37	Soil temperature and biotic factors drive the seasonal variation of soil respiration in a maize ( <i>Zea mays</i> L.) agricultural ecosystem. <i>Plant and Soil</i> , <b>2007</b> , 291, 15-26	4.2	37

36	Combined effects of elevated CO <sub>2</sub> and soil drought on carbon and nitrogen allocation of the desert shrub <i>Caragana intermedia</i> . <i>Plant and Soil</i> , <b>2007</b> , 301, 87-97	4.2	36
35	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> , <b>2011</b> , 30, 41-50	4.7	28
34	Interactive effects of warming and increased precipitation on community structure and composition in an annual forb dominated desert steppe. <i>PLoS ONE</i> , <b>2013</b> , 8, e70114	3.7	27
33	Climatic warming shifts the soil nematode community in a desert steppe. <i>Climatic Change</i> , <b>2018</b> , 150, 243-258	4.5	26
32	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> , <b>2016</b> , 400, 15-27	4.2	25
31	Tracking chlorophyll fluorescence as an indicator of drought and rewatering across the entire leaf lifespan in a maize field. <i>Agricultural Water Management</i> , <b>2019</b> , 211, 190-201	5.9	25
30	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> , <b>2019</b> , 272-273, 40-54	5.8	24
29	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> , <b>2011</b> , 61, 681-692	1.1	21
28	Nitrogen metabolism in flag leaf and grain of wheat in response to irrigation regimes. <i>Journal of Plant Nutrition and Soil Science</i> , <b>2006</b> , 169, 118-126	2.3	19
27	Comparison of water vapour, heat and energy exchanges over agricultural and wetland ecosystems. <i>Hydrological Processes</i> , <b>2009</b> , 23, 2069-2080	3.3	18
26	Ecosystem responses to warming and watering in typical and desert steppes. <i>Scientific Reports</i> , <b>2016</b> , 6, 34801	4.9	17
25	Short- and long-term warming alters soil microbial community and relates to soil traits. <i>Applied Soil Ecology</i> , <b>2018</b> , 131, 22-28	5	16
24	Nitrogen deposition magnifies the sensitivity of desert steppe plant communities to large changes in precipitation. <i>Journal of Ecology</i> , <b>2020</b> , 108, 598-610	6	16
23	Forest litterfall and its composition: a new data set of observational data from China. <i>Ecology</i> , <b>2016</b> , 97, 1365-1365	4.6	15
22	Nitrogen cycles in terrestrial ecosystems: climate change impacts and mitigation. <i>Environmental Reviews</i> , <b>2016</b> , 24, 132-143	4.5	14
21	Elevated CO <sub>2</sub> 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> , <b>2016</b> , 16, 157	5.3	13
20	Statistical characteristics of forest litterfall in China. <i>Science China Life Sciences</i> , <b>2018</b> , 61, 358-360	8.5	12
19	Effects of cotton field management practices on soil CO <sub>2</sub> emission and C balance in an arid region of Northwest China. <i>Journal of Arid Land</i> , <b>2014</b> , 6, 468-477	2.2	10

18	Detection of Photosynthetic Performance of <i>Stipa bungeana</i> Seedlings under Climatic Change using Chlorophyll Fluorescence Imaging. <i>Frontiers in Plant Science</i> , <b>2015</b> , 6, 1254	6.2	8
17	Photosynthetic resistance and resilience under drought, flooding and rewating in maize plants. <i>Photosynthesis Research</i> , <b>2021</b> , 148, 1-15	3.7	5
16	Sensitive indicators of <i>Stipa bungeana</i> response to precipitation under ambient and elevated CO concentration. <i>International Journal of Biometeorology</i> , <b>2018</b> , 62, 141-151	3.7	4
15	Interactive effects of elevated CO <sub>2</sub> and precipitation change on leaf nitrogen of dominant <i>Stipa L.</i> species. <i>Ecology and Evolution</i> , <b>2015</b> , 5, 2956-65	2.8	4
14	Climatic warming enhances soil respiration resilience in an arid ecosystem. <i>Science of the Total Environment</i> , <b>2021</b> , 756, 144005	10.2	4
13	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> , <b>2021</b> , 307, 108526	5.8	4
12	Soil carbon release responses to long-term versus short-term climatic warming in an arid ecosystem. <i>Biogeosciences</i> , <b>2020</b> , 17, 781-792	4.6	3
11	The relationship between leaf and ecosystem CO <sub>2</sub> exchanges in a maize field. <i>Acta Physiologiae Plantarum</i> , <b>2018</b> , 40, 1	2.6	3
10	Evaluation of restoration approaches on the Inner Mongolian Steppe based on criteria of the Society for Ecological Restoration. <i>Land Degradation and Development</i> , <b>2020</b> , 31, 285-296	4.4	3
9	A self-photoprotection mechanism helps <i>Stipa baicalensis</i> adapt to future climate change. <i>Scientific Reports</i> , <b>2016</b> , 6, 25839	4.9	3
8	Does precipitation mediate the effects of elevated CO <sub>2</sub> on plant growth in the grass species <i>Stipa grandis</i> ?. <i>Environmental and Experimental Botany</i> , <b>2016</b> , 131, 146-154	5.9	3
7	Responses of plant biomass and yield component in rice, wheat, and maize to climatic warming: a meta-analysis. <i>Planta</i> , <b>2020</b> , 252, 90	4.7	2
6	Growth variations of Dahurian larch plantations across northeast China: Understanding the effects of temperature and precipitation. <i>Journal of Environmental Management</i> , <b>2021</b> , 292, 112739	7.9	2
5	Effects of elevated CO <sub>2</sub> on <i>Stipa baicalensis</i> photosynthesis depend on precipitation and growth phase. <i>Ecological Research</i> , <b>2019</b> , 34, 790-801	1.9	1
4	Temperature sensitivity increases with decreasing soil carbon quality in forest ecosystems across northeast China. <i>Climatic Change</i> , <b>2020</b> , 160, 373-384	4.5	1
3	Vertical distribution of gas exchanges and their integration throughout the entire canopy in a maize field. <i>Photosynthesis Research</i> , <b>2021</b> , 147, 269-281	3.7	1
2	Resistance, recovery, and resilience of desert steppe to precipitation alterations with nitrogen deposition. <i>Journal of Cleaner Production</i> , <b>2021</b> , 317, 128434	10.3	1
1	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> , <b>2022</b> , 339, 130696	10.3	0

