

Wen-Hao Zhang

List of Publications by Year in Descending Order

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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.

114
papers

6,498
citations

40
h-index

79
g-index

121
ext. papers

7,715
ext. citations

5.5
avg, IF

6.04
L-index

#	Paper	IF	Citations
114	Carbon allocation patterns in forbs and grasses differ in responses to mowing and nitrogen fertilization in a temperate grassland. <i>Ecological Indicators</i> , 2022 , 135, 108588	5.8	0
113	An integrated belowground trait-based understanding of nitrogen driven plant diversity loss.. <i>Global Change Biology</i> , 2022 ,	11.4	2
112	Priorities for the development of alfalfa pasture in northern China. <i>Fundamental Research</i> , 2022 ,		0
111	Aboveground productivity and community stability tend to keep stable under long-term fencing and nitrogen fertilization on restoration of degraded grassland. <i>Ecological Indicators</i> , 2022 , 140, 108971	5.8	1
110	Genome-wide analysis of the Glutathione S-Transferase family in wild <i>Medicago ruthenica</i> and drought-tolerant breeding application of MrUGSTU39 gene in cultivated alfalfa. <i>Theoretical and Applied Genetics</i> , 2021 , 135, 853	6	2
109	Major advances in plant ecology research in China (2020). <i>Journal of Plant Ecology</i> , 2021 , 14, 995-1001	1.7	
108	The genome of a wild <i>Medicago</i> species provides insights into the tolerant mechanisms of legume forage to environmental stress. <i>BMC Biology</i> , 2021 , 19, 96	7.3	5
107	Ambient nitrogen deposition drives plant-diversity decline by nitrogen accumulation in a closed grassland ecosystem. <i>Journal of Applied Ecology</i> , 2021 , 58, 1888-1898	5.8	2
106	Root anatomical traits determined leaf-level physiology and responses to precipitation change of herbaceous species in a temperate steppe. <i>New Phytologist</i> , 2021 , 229, 1481-1491	9.8	7
105	Processes at the soil-root interface determine the different responses of nutrient limitation and metal toxicity in forbs and grasses to nitrogen enrichment. <i>Journal of Ecology</i> , 2021 , 109, 927-938	6	6
104	Integrative taxonomy recognized a new cryptic species within <i>Stipa grandis</i> from Loess Plateau of China. <i>Journal of Systematics and Evolution</i> , 2021 ,	2.9	2
103	Below-ground-mediated and phase-dependent processes drive nitrogen-evoked community changes in grasslands. <i>Journal of Ecology</i> , 2020 , 108, 1874-1887	6	14
102	A rice small GTPase, Rab6a, is involved in the regulation of grain yield and iron nutrition in response to CO ₂ enrichment. <i>Journal of Experimental Botany</i> , 2020 , 71, 5680-5688	7	6
101	Identification of tissue-specific and cold-responsive lncRNAs in <i>Medicago truncatula</i> by high-throughput RNA sequencing. <i>BMC Plant Biology</i> , 2020 , 20, 99	5.3	15
100	Transcriptomic profiling of genes and pathways associated with osmotic and salt stress responses in <i>Medicago truncatula</i> 2020 , 1062-1068		1
99	New development phase of JPE. <i>Journal of Plant Ecology</i> , 2020 , 13, 1-2	1.7	2
98	Enhanced accumulation of gibberellins rendered rice seedlings sensitive to ammonium toxicity. <i>Journal of Experimental Botany</i> , 2020 , 71, 1514-1526	7	7

97	Higher endogenous bioactive gibberellins and α-amylase activity confer greater tolerance of rice seed germination to saline-alkaline stress. <i>Environmental and Experimental Botany</i> , 2019 , 162, 357-363	5.9	7
96	Armet, an aphid effector protein, induces pathogen resistance in plants by promoting the accumulation of salicylic acid. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2019 , 374, 20180314	5.8	19
95	Physiological and proteomic analyses for seed dormancy and release in the perennial grass of <i>Leymus chinensis</i> . <i>Environmental and Experimental Botany</i> , 2019 , 162, 95-102	5.9	7
94	The response of root traits to precipitation change of herbaceous species in temperate steppes. <i>Functional Ecology</i> , 2019 , 33, 2030-2041	5.6	10
93	Root trait-mediated belowground competition and community composition of a temperate steppe under nitrogen enrichment. <i>Plant and Soil</i> , 2019 , 437, 341-354	4.2	11
92	A Dual-Purpose Model for Spring-Sown Oats in Cold Regions of Northern China. <i>Agronomy</i> , 2019 , 9, 721	3.6	2
91	Clonality-dependent dynamic change of plant community in temperate grasslands under nitrogen enrichment. <i>Oecologia</i> , 2019 , 189, 255-266	2.9	7
90	Calmodulin-like gene MtCML40 is involved in salt tolerance by regulating MtHKTs transporters in <i>Medicago truncatula</i> . <i>Environmental and Experimental Botany</i> , 2019 , 157, 79-90	5.9	18
89	Application of molybdenum fertilizer enhanced quality and production of alfalfa in northern China under non-irrigated conditions. <i>Journal of Plant Nutrition</i> , 2018 , 41, 1009-1019	2.3	8
88	Arbuscular mycorrhizal fungal communities associated with two dominant species differ in their responses to long-term nitrogen addition in temperate grasslands. <i>Functional Ecology</i> , 2018 , 32, 1575-1588	5.6	23
87	Multi-dimensional patterns of variation in root traits among coexisting herbaceous species in temperate steppes. <i>Journal of Ecology</i> , 2018 , 106, 2320-2331	6	23
86	Glutamate Receptor Homolog3.4 is Involved in Regulation of Seed Germination Under Salt Stress in <i>Arabidopsis</i> . <i>Plant and Cell Physiology</i> , 2018 , 59, 978-988	4.9	30
85	Gibberellins regulate iron deficiency-response by influencing iron transport and translocation in rice seedlings (<i>Oryza sativa</i>). <i>Annals of Botany</i> , 2017 , 119, 945-956	4.1	22
84	Differences in spatial and temporal root lifespan of three <i>Stipa</i> grasslands in northern China. <i>Biogeochemistry</i> , 2017 , 132, 293-306	3.8	7
83	Comparative studies on tolerance of rice genotypes differing in their tolerance to moderate salt stress. <i>BMC Plant Biology</i> , 2017 , 17, 141	5.3	29
82	Novel phosphate deficiency-responsive long non-coding RNAs in the legume model plant <i>Medicago truncatula</i> . <i>Journal of Experimental Botany</i> , 2017 , 68, 5937-5948	7	41
81	A novel soil manganese mechanism drives plant species loss with increased nitrogen deposition in a temperate steppe. <i>Ecology</i> , 2016 , 97, 65-74	4.6	103
80	<i>Artemisia frigida</i> and <i>Stipa krylovii</i> , two dominant species in Inner Mongolia steppe, differed in their responses to elevated atmospheric CO ₂ concentration. <i>Plant and Soil</i> , 2016 , 409, 117-129	4.2	8

79	Efficient acquisition of iron confers greater tolerance to saline-alkaline stress in rice (<i>Oryza sativa</i> L.). <i>Journal of Experimental Botany</i> , 2016 , 67, 6431-6444	7	53
78	Sulfur deficiency had different effects on <i>Medicago truncatula</i> ecotypes A17 and R108 in terms of growth, root morphology and nutrient contents. <i>Journal of Plant Nutrition</i> , 2016 , 39, 301-314	2.3	8
77	The RING Finger E3 Ligase SpRING is a Positive Regulator of Salt Stress Signaling in Salt-Tolerant Wild Tomato Species. <i>Plant and Cell Physiology</i> , 2016 , 57, 528-39	4.9	30
76	OsWRKY74, a WRKY transcription factor, modulates tolerance to phosphate starvation in rice. <i>Journal of Experimental Botany</i> , 2016 , 67, 947-60	7	146
75	CIPK23 is involved in iron acquisition of <i>Arabidopsis</i> by affecting ferric chelate reductase activity. <i>Plant Science</i> , 2016 , 246, 70-79	5.3	41
74	Glutamate receptors are involved in mitigating effects of amino acids on seed germination of <i>Arabidopsis thaliana</i> under salt stress. <i>Environmental and Experimental Botany</i> , 2016 , 130, 68-78	5.9	18
73	A glimpse of environmental plant science in China. <i>Environmental and Experimental Botany</i> , 2016 , 129, 1-3	5.9	
72	A Small GTPase, OsRab6a, is Involved in the Regulation of Iron Homeostasis in Rice. <i>Plant and Cell Physiology</i> , 2016 , 57, 1271-80	4.9	11
71	Brassinosteroids are involved in Fe homeostasis in rice (<i>Oryza sativa</i> L.). <i>Journal of Experimental Botany</i> , 2015 , 66, 2749-61	7	41
70	Identification and characterization of long non-coding RNAs involved in osmotic and salt stress in <i>Medicago truncatula</i> using genome-wide high-throughput sequencing. <i>BMC Plant Biology</i> , 2015 , 15, 131	5.3	116
69	Heavily intensified grazing reduces root production in an Inner Mongolia temperate steppe. <i>Agriculture, Ecosystems and Environment</i> , 2015 , 200, 143-150	5.7	37
68	Sodium extrusion associated with enhanced expression of SOS1 underlies different salt tolerance between <i>Medicago falcata</i> and <i>Medicago truncatula</i> seedlings. <i>Environmental and Experimental Botany</i> , 2015 , 110, 46-55	5.9	26
67	Differential responses of grasses and forbs led to marked reduction in below-ground productivity in temperate steppe following chronic N deposition. <i>Journal of Ecology</i> , 2015 , 103, 1570-1579	6	34
66	Plant stomatal closure improves aphid feeding under elevated CO ₂ . <i>Global Change Biology</i> , 2015 , 21, 2739-2748	3.0	30
65	Disruption of metal ion homeostasis in soils is associated with nitrogen deposition-induced species loss in an Inner Mongolia steppe. <i>Biogeosciences</i> , 2015 , 12, 3499-3512	4.6	13
64	Rhizosphere bacterial communities of dominant steppe plants shift in response to a gradient of simulated nitrogen deposition. <i>Frontiers in Microbiology</i> , 2015 , 6, 789	5.7	11
63	Elevated CO ₂ decreases the response of the ethylene signaling pathway in <i>Medicago truncatula</i> and increases the abundance of the pea aphid. <i>New Phytologist</i> , 2014 , 201, 279-291	9.8	54
62	Cold acclimation-induced freezing tolerance of <i>Medicago truncatula</i> seedlings is negatively regulated by ethylene. <i>Physiologia Plantarum</i> , 2014 , 152, 115-29	4.6	83

61	Genome variations account for different response to three mineral elements between <i>Medicago truncatula</i> ecotypes Jemalong A17 and R108. <i>BMC Plant Biology</i> , 2014 , 14, 122	5.3	8
60	<i>Medicago truncatula</i> ecotypes A17 and R108 differed in their response to iron deficiency. <i>Journal of Plant Physiology</i> , 2014 , 171, 639-47	3.6	17
59	Ethylene negatively regulates aluminium-induced malate efflux from wheat roots and tobacco cells transformed with TaALMT1. <i>Journal of Experimental Botany</i> , 2014 , 65, 2415-26	7	38
58	Systemic regulation of sulfur homeostasis in <i>Medicago truncatula</i> . <i>Planta</i> , 2014 , 239, 79-96	4.7	13
57	Expression of a <i>Medicago falcata</i> small GTPase gene, MfARL1 enhanced tolerance to salt stress in <i>Arabidopsis thaliana</i> . <i>Plant Physiology and Biochemistry</i> , 2013 , 63, 227-35	5.4	11
56	Genome-wide identification of microRNAs in <i>Medicago truncatula</i> by high-throughput sequencing. <i>Methods in Molecular Biology</i> , 2013 , 1069, 67-80	1.4	0
55	A receptor-like protein RMC is involved in regulation of iron acquisition in rice. <i>Journal of Experimental Botany</i> , 2013 , 64, 5009-20	7	28
54	Wheat genotypes differing in aluminum tolerance differ in their growth response to CO ₂ enrichment in acid soils. <i>Ecology and Evolution</i> , 2013 , 3, 1440-8	2.8	12
53	A <i>Medicago truncatula</i> EF-hand family gene, MtCaMP1, is involved in drought and salt stress tolerance. <i>PLoS ONE</i> , 2013 , 8, e58952	3.7	26
52	A novel <i>Medicago truncatula</i> HD-Zip gene, MtHB2, is involved in abiotic stress responses. <i>Environmental and Experimental Botany</i> , 2012 , 80, 1-9	5.9	43
51	Identification of aluminum-responsive microRNAs in <i>Medicago truncatula</i> by genome-wide high-throughput sequencing. <i>Planta</i> , 2012 , 235, 375-86	4.7	144
50	Brassinosteroids are involved in response of cucumber (<i>Cucumis sativus</i>) to iron deficiency. <i>Annals of Botany</i> , 2012 , 110, 681-8	4.1	64
49	A R2R3-type MYB gene, OsMYB2, is involved in salt, cold, and dehydration tolerance in rice. <i>Journal of Experimental Botany</i> , 2012 , 63, 2541-56	7	464
48	OsMYB2P-1, an R2R3 MYB transcription factor, is involved in the regulation of phosphate-starvation responses and root architecture in rice. <i>Plant Physiology</i> , 2012 , 159, 169-83	6.6	175
47	A rice F-box gene, OsFbx352, is involved in glucose-delayed seed germination in rice. <i>Journal of Experimental Botany</i> , 2012 , 63, 5559-68	7	25
46	The achene mucilage hydrated in desert dew assists seed cells in maintaining DNA integrity: adaptive strategy of desert plant <i>Artemisia sphaerocephala</i> . <i>PLoS ONE</i> , 2011 , 6, e24346	3.7	30
45	Stimulation of root acid phosphatase by phosphorus deficiency is regulated by ethylene in <i>Medicago falcata</i> . <i>Environmental and Experimental Botany</i> , 2011 , 71, 114-120	5.9	37
44	Ameliorative effect of brassinosteroid and ethylene on germination of cucumber seeds in the presence of sodium chloride. <i>Plant Growth Regulation</i> , 2011 , 65, 407-413	3.2	38

43	Physiological mechanisms underlying OsNAC5-dependent tolerance of rice plants to abiotic stress. <i>Planta</i> , 2011 , 234, 331-45	4.7	245
42	Comparative studies on tolerance of <i>Medicago truncatula</i> and <i>Medicago falcata</i> to freezing. <i>Planta</i> , 2011 , 234, 445-57	4.7	69
41	Identification of drought-responsive microRNAs in <i>Medicago truncatula</i> by genome-wide high-throughput sequencing. <i>BMC Genomics</i> , 2011 , 12, 367	4.5	253
40	The identification of aluminium-resistance genes provides opportunities for enhancing crop production on acid soils. <i>Journal of Experimental Botany</i> , 2011 , 62, 9-20	7	234
39	Effects of increased nitrogen deposition and precipitation on seed and seedling production of <i>Potentilla tanacetifolia</i> in a temperate steppe ecosystem. <i>PLoS ONE</i> , 2011 , 6, e28601	3.7	25
38	Comparative studies on adaptive strategies of <i>Medicago falcata</i> and <i>M. truncatula</i> to phosphorus deficiency in soil. <i>Chinese Journal of Plant Ecology</i> , 2011 , 35, 632-640	1.2	1
37	Nitric oxide is involved in phosphorus deficiency-induced cluster-root development and citrate exudation in white lupin. <i>New Phytologist</i> , 2010 , 187, 1112-1123	9.8	127
36	Increased temperature and precipitation interact to affect root production, mortality, and turnover in a temperate steppe: implications for ecosystem C cycling. <i>Global Change Biology</i> , 2010 , 16, 1306-1316 ^{11.4}	11.4	146
35	Aluminium-induced inhibition of root elongation in <i>Arabidopsis</i> is mediated by ethylene and auxin. <i>Journal of Experimental Botany</i> , 2010 , 61, 347-56	7	200
34	The ameliorative effect of silicon on soybean seedlings grown in potassium-deficient medium. <i>Annals of Botany</i> , 2010 , 105, 967-73	4.1	122
33	Alleviation of salt stress-induced inhibition of seed germination in cucumber (<i>Cucumis sativus</i> L.) by ethylene and glutamate. <i>Journal of Plant Physiology</i> , 2010 , 167, 1152-6	3.6	40
32	Boron toxicity is alleviated by hydrogen sulfide in cucumber (<i>Cucumis sativus</i> L.) seedlings. <i>Planta</i> , 2010 , 231, 1301-9	4.7	142
31	Rhizome severing increases root lifespan of <i>Leymus chinensis</i> in a typical steppe of Inner Mongolia. <i>PLoS ONE</i> , 2010 , 5, e12125	3.7	10
30	Phosphorus deficiency-induced reduction in root hydraulic conductivity in <i>Medicago falcata</i> is associated with ethylene production. <i>Environmental and Experimental Botany</i> , 2009 , 67, 172-177	5.9	69
29	Glucose-induced inhibition of seed germination in <i>Lotus japonicus</i> is alleviated by nitric oxide and spermine. <i>Journal of Plant Physiology</i> , 2009 , 166, 213-8	3.6	17
28	Nitric reductase-dependent nitric oxide production is involved in cold acclimation and freezing tolerance in <i>Arabidopsis</i> . <i>Plant Physiology</i> , 2009 , 151, 755-67	6.6	376
27	Water translocation between ramets of strawberry during soil drying and its effects on photosynthetic performance. <i>Physiologia Plantarum</i> , 2009 , 137, 225-34	4.6	17
26	Ethylene is involved in nitrate-dependent root growth and branching in <i>Arabidopsis thaliana</i> . <i>New Phytologist</i> , 2009 , 184, 918-31	9.8	103

25	Spatial and temporal effects of nitrogen addition on root life span of <i>Leymus chinensis</i> in a typical steppe of Inner Mongolia. <i>Functional Ecology</i> , 2008 , 22, 583-591	5.6	49
24	Characterization of the TaALMT1 protein as an Al ³⁺ -activated anion channel in transformed tobacco (<i>Nicotiana tabacum</i> L.) cells. <i>Plant and Cell Physiology</i> , 2008 , 49, 1316-30	4.9	67
23	Nitric oxide synthase-dependent nitric oxide production is associated with salt tolerance in <i>Arabidopsis</i> . <i>Plant Physiology</i> , 2007 , 144, 206-17	6.6	297
22	Review: Nutrient loading of developing seeds. <i>Functional Plant Biology</i> , 2007 , 34, 314-331	2.7	143
21	Actin filaments modulate hypoosmotic-responsive K efflux channels in specialised cells of developing bean seed coats. <i>Functional Plant Biology</i> , 2007 , 34, 874-884	2.7	3
20	Inhibition of nitric oxide synthase (NOS) underlies aluminum-induced inhibition of root elongation in <i>Hibiscus moscheutos</i> . <i>New Phytologist</i> , 2007 , 174, 322-331	9.8	178
19	Ethylene activates a plasma membrane Ca ²⁺ -permeable channel in tobacco suspension cells. <i>New Phytologist</i> , 2007 , 174, 507-515	9.8	37
18	Citrate exudation from white lupin induced by phosphorus deficiency differs from that induced by aluminum. <i>New Phytologist</i> , 2007 , 176, 581-589	9.8	58
17	Aluminum-induced ethylene production is associated with inhibition of root elongation in <i>Lotus japonicus</i> L. <i>Plant and Cell Physiology</i> , 2007 , 48, 1229-35	4.9	91
16	Nitric oxide is involved in nitrate-induced inhibition of root elongation in <i>Zea mays</i> . <i>Annals of Botany</i> , 2007 , 100, 497-503	4.1	75
15	Citrate-permeable channels in the plasma membrane of cluster roots from white lupin. <i>Plant Physiology</i> , 2004 , 136, 3771-83	6.6	70
14	Pulsing Cl ⁻ channels in coat cells of developing bean seeds linked to hypo-osmotic turgor regulation. <i>Journal of Experimental Botany</i> , 2004 , 55, 993-1001	7	13
13	Calcium-dependent K current in plasma membranes of dermal cells of developing bean cotyledons. <i>Plant, Cell and Environment</i> , 2004 , 27, 251-262	8.4	8
12	Role of dynamics of intracellular calcium in aluminium-toxicity syndrome. <i>New Phytologist</i> , 2003 , 159, 295-314	9.8	201
11	Nonselective currents and channels in plasma membranes of protoplasts from coats of developing seeds of bean. <i>Plant Physiology</i> , 2002 , 128, 388-99	6.6	27
10	Malate-permeable channels and cation channels activated by aluminum in the apical cells of wheat roots. <i>Plant Physiology</i> , 2001 , 125, 1459-72	6.6	159
9	Fast activation of a time-dependent outward current in protoplasts derived from coats of developing <i>Phaseolus vulgaris</i> seeds. <i>Planta</i> , 2000 , 211, 894-8	4.7	15
8	Inhibition of water channels by HgCl ₂ in intact wheat root cells. <i>Plant Physiology</i> , 1999 , 120, 849-58	6.6	216

7	Aluminium induces an increase in cytoplasmic calcium in intact wheat root apical cells. <i>Functional Plant Biology</i> , 1999 , 26, 401	2.7	42
6	Aluminium Effects on Pollen Germination and Tube Growth of <i>Chamaecrista uncinatum</i> . A Comparison with Other Ca ²⁺ -Antagonists. <i>Annals of Botany</i> , 1999 , 84, 559-564	4.1	24
5	Determination of intracellular Ca ²⁺ in cells of intact wheat roots: loading of acetoxymethyl ester of Fluo-3 under low temperature. <i>Plant Journal</i> , 1998 , 15, 147-151	6.9	92
4	Effect of low oxygen concentration on the electrical properties of cortical cells of wheat roots. <i>Journal of Plant Physiology</i> , 1997 , 150, 567-72	3.6	19
3	Water permeability in wheat root protoplasts determined from nuclear magnetic resonance relaxation times. <i>Plant Science</i> , 1996 , 118, 97-105	5.3	10
2	Efflux of photosynthate and acid from developing seed coats of <i>Phaseolus vulgaris</i> L.: a chemiosmotic analysis of pump-driven efflux. <i>Journal of Experimental Botany</i> , 1995 , 46, 539-549	7	34
1	Differences in spatial and temporal root lifespan of temperate steppes across Inner Mongolia grasslands		2