

Wen-Hao Zhang

List of Publications by Citations

Source: <https://exaly.com/author-pdf/8477689/wen-hao-zhang-publications-by-citations.pdf>

Version: 2024-04-26

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

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	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
113	Nitric reductase-dependent nitric oxide production is involved in cold acclimation and freezing tolerance in Arabidopsis. <i>Plant Physiology</i> , 2009 , 151, 755-67	6.6	376
112	Nitric oxide synthase-dependent nitric oxide production is associated with salt tolerance in Arabidopsis. <i>Plant Physiology</i> , 2007 , 144, 206-17	6.6	297
111	Identification of drought-responsive microRNAs in Medicago truncatula by genome-wide high-throughput sequencing. <i>BMC Genomics</i> , 2011 , 12, 367	4.5	253
110	Physiological mechanisms underlying OsNAC5-dependent tolerance of rice plants to abiotic stress. <i>Planta</i> , 2011 , 234, 331-45	4.7	245
109	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
108	Inhibition of water channels by HgCl ₂ in intact wheat root cells. <i>Plant Physiology</i> , 1999 , 120, 849-58	6.6	216
107	Role of dynamics of intracellular calcium in aluminium-toxicity syndrome. <i>New Phytologist</i> , 2003 , 159, 295-314	9.8	201
106	Aluminium-induced inhibition of root elongation in Arabidopsis is mediated by ethylene and auxin. <i>Journal of Experimental Botany</i> , 2010 , 61, 347-56	7	200
105	Inhibition of nitric oxide synthase (NOS) underlies aluminum-induced inhibition of root elongation in Hibiscus moscheutos. <i>New Phytologist</i> , 2007 , 174, 322-331	9.8	178
104	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
103	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
102	OsWRKY74, a WRKY transcription factor, modulates tolerance to phosphate starvation in rice. <i>Journal of Experimental Botany</i> , 2016 , 67, 947-60	7	146
101	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	146
100	Identification of aluminum-responsive microRNAs in Medicago truncatula by genome-wide high-throughput sequencing. <i>Planta</i> , 2012 , 235, 375-86	4.7	144
99	Review: Nutrient loading of developing seeds. <i>Functional Plant Biology</i> , 2007 , 34, 314-331	2.7	143
98	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

97	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
96	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
95	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
94	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
93	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
92	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
91	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
90	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
89	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
88	Citrate-permeable channels in the plasma membrane of cluster roots from white lupin. <i>Plant Physiology</i> , 2004 , 136, 3771-83	6.6	70
87	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
86	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
85	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
84	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
83	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
82	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
81	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
80	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

79	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
78	Aluminium induces an increase in cytoplasmic calcium in intact wheat root apical cells. <i>Functional Plant Biology</i> , 1999 , 26, 401	2.7	42
77	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
76	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
75	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
74	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
73	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
72	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
71	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
70	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
69	Ethylene activates a plasma membrane Ca(2+)-permeable channel in tobacco suspension cells. <i>New Phytologist</i> , 2007 , 174, 507-515	9.8	37
68	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
67	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
66	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
65	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
64	Plant stomatal closure improves aphid feeding under elevated CO ₂ . <i>Global Change Biology</i> , 2015 , 21, 2739-2748	3.0	30
63	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
62	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

61	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
60	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
59	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
58	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
57	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
56	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
55	Aluminium Effects on Pollen Germination and Tube Growth of <i>Chamelaucium uncinatum</i> . A Comparison with Other Ca ²⁺ -Antagonists. <i>Annals of Botany</i> , 1999 , 84, 559-564	4.1	24
54	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
53	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
52	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
51	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
50	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
49	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
48	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
47	<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
46	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
45	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
44	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

43	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
42	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
41	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
40	Systemic regulation of sulfur homeostasis in <i>Medicago truncatula</i> . <i>Planta</i> , 2014 , 239, 79-96	4.7	13
39	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
38	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
37	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
36	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
35	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
34	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
33	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
32	Water permeability in wheat root protoplasts determined from nuclear magnetic resonance relaxation times. <i>Plant Science</i> , 1996 , 118, 97-105	5.3	10
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	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
29	<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
28	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
27	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
26	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

25	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
24	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
23	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
22	Enhanced accumulation of gibberellins rendered rice seedlings sensitive to ammonium toxicity. <i>Journal of Experimental Botany</i> , 2020 , 71, 1514-1526	7	7
21	Clonality-dependent dynamic change of plant community in temperate grasslands under nitrogen enrichment. <i>Oecologia</i> , 2019 , 189, 255-266	2.9	7
20	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
19	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
18	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
17	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
16	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
15	New development phase of JPE. <i>Journal of Plant Ecology</i> , 2020 , 13, 1-2	1.7	2
14	Genome-wide analysis of the Glutathione S-Transferase family in wild <i>Medicago ruthenica</i> and drought-tolerant breeding application of γ -MrUGSTU39 gene in cultivated alfalfa. <i>Theoretical and Applied Genetics</i> , 2021 , 135, 853	6	2
13	Differences in spatial and temporal root lifespan of temperate steppes across Inner Mongolia grasslands		2
12	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
11	A Dual-Purpose Model for Spring-Sown Oats in Cold Regions of Northern China. <i>Agronomy</i> , 2019 , 9, 721	3.6	2
10	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
9	An integrated belowground trait-based understanding of nitrogen driven plant diversity loss.. <i>Global Change Biology</i> , 2022 ,	11.4	2
8	Transcriptomic profiling of genes and pathways associated with osmotic and salt stress responses in <i>Medicago truncatula</i> 2020 , 1062-1068		1

7	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
6	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
5	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
4	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
3	Priorities for the development of alfalfa pasture in northern China. <i>Fundamental Research</i> , 2022 ,		0
2	Major advances in plant ecology research in China (2020). <i>Journal of Plant Ecology</i> , 2021 , 14, 995-1001	1.7	
1	A glimpse of environmental plant science in China. <i>Environmental and Experimental Botany</i> , 2016 , 129, 1-3	5.9	