## Weijun Zhou

## List of Publications by Year in descending order

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61984 76900 6,302 119 43 74 citations h-index g-index papers 120 120 120 5110 docs citations times ranked citing authors all docs

#	Article	IF	CITATIONS
1	Mitigation effects of exogenous melatonin-selenium nanoparticles on arsenic-induced stress in Brassica napus. Environmental Pollution, 2022, 292, 118473.	7.5	48
2	Endogenous nitric oxide contributes to chloride and sulphate salinity tolerance by modulation of ion transporter expression and reestablishment of redox balance in Brassica napus cultivars. Environmental and Experimental Botany, 2022, 194, 104734.	4.2	12
3	Insights into the plateau adaptation of Salvia castanea by comparative genomic and WGCNA analyses. Journal of Advanced Research, 2022, 42, 221-235.	9.5	18
4	Attenuation mechanisms of arsenic induced toxicity and its accumulation in plants by engineered nanoparticles: A review. Environmental Pollution, 2022, 302, 119038.	7.5	29
5	The potential of nanomaterials for sustainable modern agriculture: present findings and future perspectives. Environmental Science: Nano, 2022, 9, 1926-1951.	4.3	13
6	Selenium-Mediated Regulation of Antioxidant Defense System and Improved Heavy Metals Tolerance in Plants., 2022,, 369-382.		1
7	Application of biochar for attenuating heavy metals in contaminated soil: potential implications and research gaps., 2022,, 77-110.		O
8	Synergistic effects of EDDS and ALA on phytoextraction of cadmium as revealed by biochemical and ultrastructural changes in sunflower (Helianthus annuus L.) tissues. Journal of Hazardous Materials, 2021, 407, 124764.	12.4	26
9	Comprehensive proteomic analysis of arsenic induced toxicity reveals the mechanism of multilevel coordination of efficient defense and energy metabolism in two Brassica napus cultivars. Ecotoxicology and Environmental Safety, 2021, 208, 111744.	6.0	27
10	Drought tolerance in <scp> <i>Brassica napus </i> </scp> is accompanied withÂenhanced antioxidative protection, photosynthetic andÂhormonal regulation at seedling stage. Physiologia Plantarum, 2021, 172, 1133-1148.	5.2	25
11	Genome-wide investigation and expression analysis of membrane-bound fatty acid desaturase genes under different biotic and abiotic stresses in sunflower (Helianthus annuus L.). International Journal of Biological Macromolecules, 2021, 175, 188-198.	7.5	18
12	A model for phenotyping crop fractional vegetation cover using imagery from unmanned aerial vehicles. Journal of Experimental Botany, 2021, 72, 4691-4707.	4.8	28
13	Challenges and prospects for a potential allohexaploid Brassica crop. Theoretical and Applied Genetics, 2021, 134, 2711-2726.	3.6	15
14	Photosynthesis research under climate change. Photosynthesis Research, 2021, 150, 5-19.	2.9	68
15	Organic and inorganic amendments for the remediation of nickel contaminated soil and its improvement on Brassica napus growth and oxidative defense. Journal of Hazardous Materials, 2021, 416, 125921.	12.4	22
16	Salicylic acid underpins silicon in ameliorating chromium toxicity in rice by modulating antioxidant defense, ion homeostasis and cellular ultrastructure. Plant Physiology and Biochemistry, 2021, 166, 1001-1013.	5.8	74
17	Endogenous indoleâ€3â€acetic acid and nitric oxide are required for calciumâ€mediated alleviation of copper oxide nanoparticles toxicity in wheat seedlings. Physiologia Plantarum, 2021, 173, 2262-2275.	5.2	5
18	Genome-wide investigation of bHLH genes and expression analysis under different biotic and abiotic stresses in Helianthus annuus L International Journal of Biological Macromolecules, 2021, 189, 72-83.	7.5	29

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19	Interactive effects of biochar and mussel shell activated concoctions on immobilization of nickel and their amelioration on the growth of rapeseed in contaminated aged soil. Chemosphere, 2021, 282, 130897.	8.2	20
20	Biofortification of Cereals and Pulses Using New Breeding Techniques: Current and Future Perspectives. Frontiers in Nutrition, 2021, 8, 721728.	3.7	28
21	The Role of Membrane Transporters in Plant Growth and Development, and Abiotic Stress Tolerance. International Journal of Molecular Sciences, 2021, 22, 12792.	4.1	26
22	Weed research status, challenges, and opportunities in China. Crop Protection, 2020, 134, 104449.	2.1	55
23	Genome-wide identification of MYB genes and expression analysis under different biotic and abiotic stresses in Helianthus annuus L Industrial Crops and Products, 2020, 143, 111924.	5.2	42
24	Insights on SNP types, detection methods and their utilization in Brassica species: Recent progress and future perspectives. Journal of Biotechnology, 2020, 324, 11-20.	3.8	8
25	QTL Mapping Using a High-Density Genetic Map to Identify Candidate Genes Associated With Metribuzin Tolerance in Hexaploid Wheat (Triticum aestivum L.). Frontiers in Plant Science, 2020, 11, 573439.	3.6	10
26	The Effect of Virulence and Resistance Mechanisms on the Interactions between Parasitic Plants and Their Hosts. International Journal of Molecular Sciences, 2020, 21, 9013.	4.1	16
27	Evaluation of quinclorac toxicity and alleviation by salicylic acid in rice seedlings using ground-based visible/near-infrared hyperspectral imaging. Plant Methods, 2020, 16, 30.	4.3	19
28	Safety of Oilseed Rape Straw Mulch of Different Lengths to Rice and Its Suppressive Effects on Weeds. Agronomy, 2020, 10, 201.	3.0	3
29	Ursolic Acid Limits Salt-Induced Oxidative Damage by Interfering With Nitric Oxide Production and Oxidative Defense Machinery in Rice. Frontiers in Plant Science, 2020, 11, 697.	3.6	20
30	Conventional and Molecular Techniques from Simple Breeding to Speed Breeding in Crop Plants: Recent Advances and Future Outlook. International Journal of Molecular Sciences, 2020, 21, 2590.	4.1	241
31	Transcriptional profiling of underground interaction of two contrasting sunflower cultivars with the root parasitic weed Orobanche cumana. Plant and Soil, 2020, 450, 303-321.	3.7	10
32	Lead Toxicity in Cereals: Mechanistic Insight Into Toxicity, Mode of Action, and Management. Frontiers in Plant Science, 2020, 11, 587785.	3.6	64
33	Genome-wide characterization of WRKY gene family in Helianthus annuus L. and their expression profiles under biotic and abiotic stresses. PLoS ONE, 2020, 15, e0241965.	2.5	15
34	Title is missing!. , 2020, 15, e0241965.		0
35	Title is missing!. , 2020, 15, e0241965.		0
36	Title is missing!. , 2020, 15, e0241965.		O

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37	Title is missing!. , 2020, 15, e0241965.		O
38	5-aminolevolinic acid enhances sunflower resistance to Orobanche cumana (Broomrape). Industrial Crops and Products, 2019, 140, 111467.	5.2	11
39	Selenium mitigates the chromium toxicity in Brassicca napus L. by ameliorating nutrients uptake, amino acids metabolism and antioxidant defense system. Plant Physiology and Biochemistry, 2019, 145, 142-152.	5.8	139
40	Dual behavior of selenium: Insights into physio-biochemical, anatomical and molecular analyses of four Brassica napus cultivars. Chemosphere, 2019, 225, 329-341.	8.2	78
41	Synergistic effects of chromium and copper on photosynthetic inhibition, subcellular distribution, and related gene expression in Brassica napus cultivars. Environmental Science and Pollution Research, 2019, 26, 11827-11845.	5.3	24
42	Characteristics of membrane-bound fatty acid desaturase (FAD) genes in Brassica napus L. and their expressions under different cadmium and salinity stresses. Environmental and Experimental Botany, 2019, 162, 144-156.	4.2	33
43	Protective mechanisms of melatonin against selenium toxicity in Brassica napus: insights into physiological traits, thiol biosynthesis and antioxidant machinery. BMC Plant Biology, 2019, 19, 507.	3.6	79
44	Use of Phytohormones in Improving Abiotic Stress Tolerance in Rice. , 2019, , 651-675.		3
45	Rice Responses and Tolerance to Salt Stress. , 2019, , 791-819.		17
46	Physiological and iTRAQâ€Based Quantitative Proteomics Analysis of Methyl Jasmonate–Induced Tolerance in <i>Brassica napus</i> Under Arsenic Stress. Proteomics, 2018, 18, e1700290.	2.2	26
47	Methyl jasmonate alleviates arsenic-induced oxidative damage and modulates the ascorbate–glutathione cycle in oilseed rape roots. Plant Growth Regulation, 2018, 84, 135-148.	3.4	68
48	Salinity reduces 2,4-D efficacy in Echinochloa crusgalli by affecting redox balance, nutrient acquisition, and hormonal regulation. Protoplasma, 2018, 255, 785-802.	2.1	26
49	A High-Density Genetic Map of an Allohexaploid Brassica Doubled Haploid Population Reveals Quantitative Trait Loci for Pollen Viability and Fertility. Frontiers in Plant Science, 2018, 9, 1161.	3.6	18
50	Insights on the responses of Brassica napus cultivars against the cobalt-stress as revealed by carbon assimilation, anatomical changes and secondary metabolites. Environmental and Experimental Botany, 2018, 156, 183-196.	4.2	32
51	Ecotoxicological and Interactive Effects of Copper and Chromium on Physiochemical, Ultrastructural, and Molecular Profiling in <i> Brassica napus</i> L BioMed Research International, 2018, 2018, 1-17.	1.9	40
52	Beryllium Stress-Induced Modifications in Antioxidant Machinery and Plant Ultrastructure in the Seedlings of Black and Yellow Seeded Oilseed Rape. BioMed Research International, 2018, 2018, 1-14.	1.9	16
53	Comparative orchestrating response of four oilseed rape (Brassica napus) cultivars against the selenium stress as revealed by physio-chemical, ultrastructural and molecular profiling. Ecotoxicology and Environmental Safety, 2018, 161, 634-647.	6.0	28
54	Potential impact of the herbicide 2,4-dichlorophenoxyacetic acid on human and ecosystems. Environment International, 2018, 111, 332-351.	10.0	268

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55	iTRAQâ€based proteomics of sunflower cultivars differing in resistance to parasitic weed <i>Orobanche cumana</i> . Proteomics, 2017, 17, 1700009.	2.2	30
56	Mid-infrared spectroscopy combined with chemometrics to detect Sclerotinia stem rot on oilseed rape (Brassica napus L.) leaves. Plant Methods, 2017, 13, 39.	4.3	25
57	Butachlorâ€Induced Alterations in Ultrastructure, Antioxidant, and Stressâ€Responsive Gene Regulations in Rice Cultivars. Clean - Soil, Air, Water, 2017, 45, 1500851.	1.1	18
58	2,4-D attenuates salinity-induced toxicity by mediating anatomical changes, antioxidant capacity and cation transporters in the roots of rice cultivars. Scientific Reports, 2017, 7, 10443.	3.3	57
59	Silicon and water-deficit stress differentially modulate physiology and ultrastructure in wheat (Triticum aestivum L.). 3 Biotech, 2017, 7, 273.	2.2	43
60	Enhancing the lead phytostabilization in wetland plant Juncus effusus L. through somaclonal manipulation and EDTA enrichment. Arabian Journal of Chemistry, 2017, 10, S3310-S3317.	4.9	70
61	Reduced Glutathione Mediates Pheno-Ultrastructure, Kinome and Transportome in Chromium-Induced Brassica napus L Frontiers in Plant Science, 2017, 8, 2037.	<b>3.</b> 6	42
62	Complementary RNA-Sequencing Based Transcriptomics and iTRAQ Proteomics Reveal the Mechanism of the Alleviation of Quinclorac Stress by Salicylic Acid in Oryza sativa ssp. japonica. International Journal of Molecular Sciences, 2017, 18, 1975.	4.1	41
63	Breeding Oil Crops for Sustainable Production: Heavy Metal Tolerance. , 2016, , 19-31.		7
64	Methyl Jasmonate Regulates Antioxidant Defense and Suppresses Arsenic Uptake in Brassica napus L Frontiers in Plant Science, 2016, 7, 468.	3.6	156
65	OsPEX11, a Peroxisomal Biogenesis Factor 11, Contributes to Salt Stress Tolerance in Oryza sativa. Frontiers in Plant Science, 2016, 7, 1357.	3.6	44
66	Comparative transcriptome profiling of two Brassica napus cultivars under chromium toxicity and its alleviation by reduced glutathione. BMC Genomics, 2016, 17, 885.	2.8	69
67	Combined herbicide and saline stress differentially modulates hormonal regulation and antioxidant defense system in Oryza sativa cultivars. Plant Physiology and Biochemistry, 2016, 107, 82-95.	5.8	54
68	Salicylic acid mediates antioxidant defense system and ABA pathway related gene expression in Oryza sativa against quinclorac toxicity. Ecotoxicology and Environmental Safety, 2016, 133, 146-156.	6.0	73
69	Arsenic toxicity in plants: Cellular and molecular mechanisms of its transport and metabolism. Environmental and Experimental Botany, 2016, 132, 42-52.	4.2	213
70	Differential subcellular distribution and chemical forms of cadmium and copper in Brassica napus. Ecotoxicology and Environmental Safety, 2016, 134, 239-249.	6.0	104
71	Role of exogenous salicylic acid in regulating physio-morphic and molecular changes under chromium toxicity in black- and yellow- seeded Brassica napus L Environmental Science and Pollution Research, 2016, 23, 20483-20496.	5.3	79
72	Subcellular distribution, modulation of antioxidant and stress-related genes response to arsenic in Brassica napus L Ecotoxicology, 2016, 25, 350-366.	2.4	74

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73	Plant growth promoting bacteria confer salt tolerance in Vigna radiata by up-regulating antioxidant defense and biological soil fertility. Plant Growth Regulation, 2016, 80, 23-36.	3.4	202
74	Oxidative injury and antioxidant enzymes regulation in arsenic-exposed seedlings of four Brassica napus L. cultivars. Environmental Science and Pollution Research, 2015, 22, 10699-10712.	5.3	73
75	Physiological and molecular analyses of black and yellow seeded Brassica napus regulated by 5-aminolivulinic acid under chromium stress. Plant Physiology and Biochemistry, 2015, 94, 130-143.	5.8	92
76	Synergism of herbicide toxicity by 5-aminolevulinic acid is related to physiological and ultra-structural disorders in crickweed (Malachium aquaticum L.). Pesticide Biochemistry and Physiology, 2015, 125, 53-61.	3.6	33
77	Genetic analysis and fine mapping of the LOBED-LEAF 1 (BnLL1) gene in rapeseed (Brassica napus L.). Euphytica, 2015, 204, 29-38.	1.2	21
78	Hydrogen sulfide alleviates the aluminum-induced changes in Brassica napus as revealed by physiochemical and ultrastructural study of plant. Environmental Science and Pollution Research, 2015, 22, 3068-3081.	5.3	42
79	Chromium-induced physio-chemical and ultrastructural changes in four cultivars of Brassica napus L Chemosphere, 2015, 120, 154-164.	8.2	305
80	Regulation of Cadmium-Induced Proteomic and Metabolic Changes by 5-Aminolevulinic Acid in Leaves of Brassica napus L PLoS ONE, 2015, 10, e0123328.	2.5	130
81	Alleviation of Lead Toxicity by 5-Aminolevulinic Acid Is Related to Elevated Growth, Photosynthesis, and Suppressed Ultrastructural Damages in Oilseed Rape. BioMed Research International, 2014, 2014, 1-11.	1.9	41
82	Effects of Hydrogen Sulfide on Growth, Antioxidative Capacity, and Ultrastructural Changes in Oilseed Rape Seedlings Under Aluminum Toxicity. Journal of Plant Growth Regulation, 2014, 33, 526-538.	5.1	43
83	Promotive role of 5-aminolevulinic acid on mineral nutrients and antioxidative defense system under lead toxicity in Brassica napus. Industrial Crops and Products, 2014, 52, 617-626.	5.2	119
84	Improvement of element uptake and antioxidative defense in Brassica napus under lead stress by application of hydrogen sulfide. Plant Growth Regulation, 2014, 74, 261-273.	3.4	82
85	Hydrogen sulfide alleviates cadmium-induced morpho-physiological and ultrastructural changes in Brassica napus. Ecotoxicology and Environmental Safety, 2014, 110, 197-207.	6.0	124
86	The influence of new herbicide ZJ0273 on the total- and branched-chain amino acids in oilseed rape (Brassica napus L.) leaves as revealed by near-infrared spectroscopy. Acta Physiologiae Plantarum, 2014, 36, 2149-2156.	2.1	5
87	5-Aminolevulinic acid enhances photosynthetic gas exchange, chlorophyll fluorescence and antioxidant system in oilseed rape under drought stress. Acta Physiologiae Plantarum, 2013, 35, 2747-2759.	2.1	86
88	5-Aminolevolinic acid mitigates the cadmium-induced changes in Brassica napus as revealed by the biochemical and ultra-structural evaluation of roots. Ecotoxicology and Environmental Safety, 2013, 92, 271-280.	6.0	134
89	Distant Hybridization Involving Different In Vitro Techniques. , 2013, , 23-44.		1
90	Genetic Modifications for Pest Resistance. , 2013, , 221-234.		0

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91	Quantitative Analysis of Total Amino Acid in Barley Leaves under Herbicide Stress Using Spectroscopic Technology and Chemometrics. Sensors, 2012, 12, 13393-13401.	3.8	11
92	5-Aminolevulinic acid alleviates the salinity-induced changes in Brassica napus as revealed by the ultrastructural study of chloroplast. Plant Physiology and Biochemistry, 2012, 57, 84-92.	5.8	119
93	Analysis of gene expression profiles of two near-isogenic lines differing at a QTL region affecting oil content at high temperatures during seed maturation in oilseed rape (Brassica napus L.). Theoretical and Applied Genetics, 2012, 124, 515-531.	3.6	41
94	Analyses of inheritance patterns and consistent expression of <i>sporamin</i> and <i>chitinase PjChiâ€4</i> genes in <i>Brassica napus</i> Plant Breeding, 2011, 130, 345-351.	1.9	10
95	Transgenic Brassica napus L. lines carrying a two gene construct demonstrate enhanced resistance against Plutella xylostella and Sclerotinia sclerotiorum. Plant Cell, Tissue and Organ Culture, 2011, 106, 143-151.	2.3	50
96	Calcium invigorates the cadmium-stressed Brassica napus L. plants by strengthening their photosynthetic system. Environmental Science and Pollution Research, 2011, 18, 1478-1486.	5.3	76
97	Ultraviolet-C mediated physiological and ultrastructural alterations in Juncus effusus L. shoots. Acta Physiologiae Plantarum, 2011, 33, 481-488.	2.1	11
98	Insights into cadmium induced physiological and ultra-structural disorders in Juncus effusus L. and its remediation through exogenous citric acid. Journal of Hazardous Materials, 2011, 186, 565-574.	12.4	232
99	Trigenomic Bridges for <i>Brassica </i> Improvement. Critical Reviews in Plant Sciences, 2011, 30, 524-547.	5.7	83
100	DNA allelic variations at the loci putatively implicated in seed oil formation among Brassica oilseed cultivars. Molecular Breeding, 2010, 26, 51-64.	2.1	4
101	Determination of Total Amino Acids in Oilseed Rape Leaves Using Near Infrared Spectroscopy and Chemometrics. , 2009, , .		O
102	Determination of acetolactate synthase activity and protein content of oilseed rape (Brassica napus) Tj ETQq0 0 0	rgBT /Ove	erlock 10 Tf
103	Soil Temperature Associated with Degradable, Non-Degradable Plastic and Organic Mulches and Their Effect on Biomass Production, Enzyme Activities and Seed Yield of Winter Rapeseed ( <i>Brassica napus) Tj ETQq1</i>	b <b>@</b> 7843	1 <b>4</b> &gBT /Ov
104	Detection of Protein Content of Oilseed Rape Leaves Using Visible/Near-Infrared Spectroscopy and Multivariate Calibrations. , 2008, , .		0
105	Soil Properties and Yield of Groundnut associated with Herbicides, Plant Geometry, and Plastic Mulch. Communications in Soil Science and Plant Analysis, 2008, 39, 1206-1234.	1.4	26
106	Crop productivity and soil properties as affected by polyethylene film mulch and land configurations in groundnut (Arachis hypogaeal.). Archives of Agronomy and Soil Science, 2006, 52, 79-103.	2.6	31
107	Nitrogen accumulation, remobilization and partitioning in rice (Oryza sativa L.) under an improved irrigation practice. Field Crops Research, 2006, 96, 448-454.	5.1	38
108	Sowing seasons and drying methods during post-harvest influence the seed vigour of soybean (Glycine max (L.) Merr.). Acta Physiologiae Plantarum, 2006, 28, 273-280.	2.1	4

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109	Genetic analyses of agronomic and seed quality traits of synthetic oilseedBrassica napus produced from interspecific hybridization of B. campestris and B. oleracea. Journal of Genetics, 2006, 85, 45-51.	0.7	47
110	Correlation between derived weather parameters and crop parameters as influenced by land configuration, herbicide and plant geometry under polyethylene film mulched groundnut (Arachis) Tj ETQq0 0 0	rg <b>B</b> ∏dOve	rlo <b>c</b> k 10 Tf 50
111	The role of GA, IAA and BAP in the regulation of in vitro shoot growth and microtuberization in potato. Acta Physiologiae Plantarum, 2005, 27, 363-369.	2.1	40
112	Effect of salinity on physiological characteristics, yield and quality of microtubers in vitro in potato. Acta Physiologiae Plantarum, 2005, 27, 481-489.	2.1	38
113	Effect of SWD irrigation on photosynthesis and grain yield of rice (Oryza sativa L.). Field Crops Research, 2005, 94, 67-75.	5.1	20
114	Genotypic Variation of Sweetpotatoes Grown Under Low Potassium Stress. Journal of Plant Nutrition, 2003, 26, 745-756.	1.9	10
115	Genotypic variation for potassium uptake and utilization efficiency in sweet potato (Ipomoea batatas) Tj ETQq1	1 0.78431 5.1	.4 rgBT /Over
116	Title is missing!. Plant Growth Regulation, 1999, 27, 99-104.	3.4	198
117	Title is missing!. Plant Growth Regulation, 1998, 26, 41-47.	3.4	202
118	Alleviation of waterlogging damage in winter rape by application of uniconazole. Field Crops Research, 1998, 59, 121-127.	5.1	64
119	Effects of waterlogging at different growth stages on physiological characteristics and seed yield of winter rape (Brassica napus L.). Field Crops Research, 1995, 44, 103-110.	5.1	73