

Hai-Lei Zheng

List of Publications by Year in descending order

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Version: 2024-02-01

80
papers

3,000
citations

218381

26
h-index

174990

52
g-index

82
all docs

82
docs citations

82
times ranked

2916
citing authors

#	ARTICLE	IF	CITATIONS
1	Hydrogen sulphide enhances photosynthesis through promoting chloroplast biogenesis, photosynthetic enzyme expression, and thiol redox modification in <i>Spinacia oleracea</i> seedlings. <i>Journal of Experimental Botany</i> , 2011, 62, 4481-4493.	2.4	317
2	Hydrogen sulfide alleviates aluminum toxicity in barley seedlings. <i>Plant and Soil</i> , 2013, 362, 301-318.	1.8	181
3	Coupling Diurnal Cytosolic Ca ²⁺ Oscillations to the CAS-IP3 Pathway in Arabidopsis. <i>Science</i> , 2007, 315, 1423-1426.	6.0	167
4	Hydrogen sulfide enhances salt tolerance through nitric oxide-mediated maintenance of ion homeostasis in barley seedling roots. <i>Scientific Reports</i> , 2015, 5, 12516.	1.6	140
5	Nitric oxide ameliorates zinc oxide nanoparticles-induced phytotoxicity in rice seedlings. <i>Journal of Hazardous Materials</i> , 2015, 297, 173-182.	6.5	133
6	<i>Spartina alterniflora</i> invasion alters soil bacterial communities and enhances soil N ₂ O emissions by stimulating soil denitrification in mangrove wetland. <i>Science of the Total Environment</i> , 2019, 653, 231-240.	3.9	126
7	Nitric oxide enhances salt secretion and Na ⁺ sequestration in a mangrove plant, <i>Avicennia marina</i> , through increasing the expression of H ⁺ -ATPase and Na ⁺ /H ⁺ antiporter under high salinity. <i>Tree Physiology</i> , 2010, 30, 1570-1585.	1.4	124
8	Hydrogen Sulfide-Mediated Polyamines and Sugar Changes Are Involved in Hydrogen Sulfide-Induced Drought Tolerance in <i>Spinacia oleracea</i> Seedlings. <i>Frontiers in Plant Science</i> , 2016, 7, 1173.	1.7	114
9	Calcium-sensing receptor regulates stomatal closure through hydrogen peroxide and nitric oxide in response to extracellular calcium in Arabidopsis. <i>Journal of Experimental Botany</i> , 2012, 63, 177-190.	2.4	103
10	Comparison of flooding-tolerance in four mangrove species in a diurnal tidal zone in the Beibu Gulf. <i>Estuarine, Coastal and Shelf Science</i> , 2007, 74, 254-262.	0.9	101
11	Hydrogen sulfide alleviates zinc toxicity by reducing zinc uptake and regulating genes expression of antioxidative enzymes and metallothioneins in roots of the cadmium/zinc hyperaccumulator <i>Solanum nigrum</i> L.. <i>Plant and Soil</i> , 2016, 400, 177-192.	1.8	85
12	Photosynthetic and antioxidant responses of <i>Liquidambar formosana</i> and <i>Schima superba</i> seedlings to sulfuric-rich and nitric-rich simulated acid rain. <i>Plant Physiology and Biochemistry</i> , 2013, 64, 41-51.	2.8	76
13	Regulation of the calcium-sensing receptor in both stomatal movement and photosynthetic electron transport is crucial for water use efficiency and drought tolerance in Arabidopsis. <i>Journal of Experimental Botany</i> , 2014, 65, 223-234.	2.4	69
14	Physiological and proteomic characterization of salt tolerance in a mangrove plant, <i>Bruguiera gymnorhiza</i> (L.) Lam. <i>Tree Physiology</i> , 2012, 32, 1378-1388.	1.4	63
15	Hydrogen sulphide improves adaptation of <i>Zea mays</i> seedlings to iron deficiency. <i>Journal of Experimental Botany</i> , 2015, 66, 6605-6622.	2.4	59
16	Nitric Oxide Mediates Root K ⁺ /Na ⁺ Balance in a Mangrove Plant, <i>Kandelia obovata</i> , by Enhancing the Expression of AKT1-Type K ⁺ Channel and Na ⁺ /H ⁺ Antiporter under High Salinity. <i>PLoS ONE</i> , 2013, 8, e71543.	1.1	53
17	Effects of calcium on seed germination, seedling growth and photosynthesis of six forest tree species under simulated acid rain. <i>Tree Physiology</i> , 2011, 31, 402-413.	1.4	52
18	Insight into the long-term effect of mangrove species on removal of polybrominated diphenyl ethers (PBDEs) from BDE-47 contaminated sediments. <i>Science of the Total Environment</i> , 2017, 575, 390-399.	3.9	51

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19	Comparative Proteomic Analysis Reveals the Regulatory Effects of H ₂ S on Salt Tolerance of Mangrove Plant <i>Kandelia obovata</i> . <i>International Journal of Molecular Sciences</i> , 2020, 21, 118.	1.8	44
20	Nitric oxide alleviates oxidative stress caused by salt in leaves of a mangrove species, <i>Aegiceras corniculatum</i> . <i>Aquatic Botany</i> , 2014, 117, 41-47.	0.8	43
21	Changes in lipid peroxidation, the redox system and ATPase activities in plasma membranes of rice seedling roots caused by lanthanum chloride. <i>BioMetals</i> , 2000, 13, 157-163.	1.8	41
22	Comparative Proteomic Analysis of Proteins in Response to Simulated Acid Rain in <i>Arabidopsis</i> . <i>Journal of Proteome Research</i> , 2011, 10, 2579-2589.	1.8	35
23	Proteome and calcium-related gene expression in <i>Pinus massoniana</i> needles in response to acid rain under different calcium levels. <i>Plant and Soil</i> , 2014, 380, 285-303.	1.8	31
24	Calcium and calcium receptor CAS promote <i>Arabidopsis thaliana</i> de-etiolation. <i>Physiologia Plantarum</i> , 2012, 144, 73-82.	2.6	30
25	The reduced state of the plastoquinone pool is required for chloroplast-mediated stomatal closure in response to calcium stimulation. <i>Plant Journal</i> , 2016, 86, 132-144.	2.8	29
26	Exotic <i>Spartina alterniflora</i> invasion increases CH ₄ while reduces CO ₂ emissions from mangrove wetland soils in southeastern China. <i>Scientific Reports</i> , 2018, 8, 9243.	1.6	29
27	Proteomic analysis reveals the protective role of exogenous hydrogen sulfide against salt stress in rice seedlings. <i>Nitric Oxide - Biology and Chemistry</i> , 2021, 111-112, 14-30.	1.2	29
28	Diurnal variation of nitric oxide emission flux from a mangrove wetland in Zhangjiang River Estuary, China. <i>Estuarine, Coastal and Shelf Science</i> , 2010, 90, 212-220.	0.9	27
29	Physiological and Root Exudation Response of Maize Seedlings to TiO ₂ and SiO ₂ Nanoparticles Exposure. <i>BioNanoScience</i> , 2020, 10, 473-485.	1.5	26
30	Comparative proteomic analysis of differentially expressed proteins in γ -aminobutyric acid enhanced <i>Arabidopsis thaliana</i> tolerance to simulated acid rain. <i>Proteomics</i> , 2011, 11, 2079-2094.	1.3	24
31	Proteomic analysis on mangrove plant <i>Avicennia marina</i> leaves reveals nitric oxide enhances the salt tolerance by up-regulating photosynthetic and energy metabolic protein expression. <i>Tree Physiology</i> , 2018, 38, 1605-1622.	1.4	24
32	Emissions of nitric oxide from 79 plant species in response to simulated nitrogen deposition. <i>Environmental Pollution</i> , 2012, 160, 192-200.	3.7	23
33	Physiological and proteomic responses of mangrove plant <i>Avicennia marina</i> seedlings to simulated periodical inundation. <i>Plant and Soil</i> , 2020, 450, 231-254.	1.8	23
34	Glutathione homeostasis and Cd tolerance in the <i>Arabidopsis sultr1;1-sultr1;2</i> double mutant with limiting sulfate supply. <i>Plant Cell Reports</i> , 2016, 35, 397-413.	2.8	21
35	Unravelling calcium-alleviated aluminium toxicity in <i>Arabidopsis thaliana</i> : Insights into regulatory mechanisms using proteomics. <i>Journal of Proteomics</i> , 2019, 199, 15-30.	1.2	21
36	Soil acidity reconstruction based on tree ring information of a dominant species <i>Abies fabri</i> in the subalpine forest ecosystems in southwest China. <i>Environmental Pollution</i> , 2010, 158, 3219-3224.	3.7	20

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37	Comparative proteomics reveal the impact of OmcA/MtrC deletion on <i>Shewanella oneidensis</i> MR-1 in response to hexavalent chromium exposure. <i>Applied Microbiology and Biotechnology</i> , 2014, 98, 9735-9747.	1.7	20
38	Comparative proteomic analysis on wild type and nitric oxide-overproducing mutant (nox1) of <i>Arabidopsis thaliana</i> . <i>Nitric Oxide - Biology and Chemistry</i> , 2014, 36, 19-30.	1.2	20
39	A transcriptomic study reveals differentially expressed genes and pathways respond to simulated acid rain in <i>Arabidopsis thaliana</i> . <i>Genome</i> , 2013, 56, 49-60.	0.9	19
40	Comparative Proteomic Analysis of Differential Responses of <i>Pinus massoniana</i> and <i>Taxus wallichiana</i> var. <i>mairei</i> to Simulated Acid Rain. <i>International Journal of Molecular Sciences</i> , 2014, 15, 4333-4355.	1.8	19
41	Chloroplast calcium and ROS signaling networks potentially facilitate the primed state for stomatal closure under multiple stresses. <i>Environmental and Experimental Botany</i> , 2016, 122, 85-93.	2.0	19
42	Unraveling hydrogen sulfide-promoted lateral root development and growth in mangrove plant <i>Kandelia obovata</i> : insight into regulatory mechanism by TMT-based quantitative proteomic approaches. <i>Tree Physiology</i> , 2021, 41, 1749-1766.	1.4	19
43	Ammonium has stronger Cd detoxification ability than nitrate by reducing Cd influx and increasing Cd fixation in <i>Solanum nigrum</i> L.. <i>Journal of Hazardous Materials</i> , 2022, 425, 127947.	6.5	17
44	Elevated nitrogen metabolism and nitric oxide production are involved in <i>Arabidopsis</i> resistance to acid rain. <i>Plant Physiology and Biochemistry</i> , 2018, 127, 238-247.	2.8	16
45	Chromosome-level assembly of the mangrove plant <i>Aegiceras corniculatum</i> genome generated through Illumina, PacBio and Hi-C sequencing technologies. <i>Molecular Ecology Resources</i> , 2021, 21, 1593-1607.	2.2	16
46	Mechanisms for calcium sensing receptor-regulated stomatal closure in response to the extracellular calcium signal. <i>Plant Signaling and Behavior</i> , 2012, 7, 289-291.	1.2	14
47	Continental-scale plant invasions reshuffle the soil microbiome of blue carbon ecosystems. <i>Global Change Biology</i> , 2022, 28, 4423-4438.	4.2	14
48	Solute accumulation and osmotic adjustment characteristics of the mangrove <i>Avicennia marina</i> under NaCl-induced salinity stress. <i>Botanica Marina</i> , 2011, 54, .	0.6	13
49	The changes of nitric oxide production during the growth of <i>Microcystis aeruginosa</i> . <i>Environmental Pollution</i> , 2011, 159, 3784-3792.	3.7	13
50	A Combined Proteomic and Transcriptomic Analysis on Sulfur Metabolism Pathways of <i>Arabidopsis thaliana</i> under Simulated Acid Rain. <i>PLoS ONE</i> , 2014, 9, e90120.	1.1	13
51	Comparative Proteomic Analysis of Differentially Expressed Proteins Induced by Hydrogen Sulfide in <i>Spinacia oleracea</i> Leaves. <i>PLoS ONE</i> , 2014, 9, e105400.	1.1	13
52	Transcriptome analysis of <i>Medicago lupulina</i> seedlings leaves treated by high calcium provides insights into calcium oxalate formation. <i>Plant and Soil</i> , 2019, 444, 299-314.	1.8	13
53	Proteome analysis reveals a systematic response of cold-acclimated seedlings of an exotic mangrove plant <i>Sonneratia apetala</i> to chilling stress. <i>Journal of Proteomics</i> , 2021, 248, 104349.	1.2	13
54	Genome-wide identification and characterization of aquaporins in mangrove plant <i>Kandelia obovata</i> and its role in response to the intertidal environment. <i>Plant, Cell and Environment</i> , 2022, 45, 1698-1718.	2.8	13

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55	Comparative Proteomic Analysis Reveals the Effects of Exogenous Calcium against Acid Rain Stress in <i>Liquidambar formosana</i> Hance Leaves. <i>Journal of Proteome Research</i> , 2016, 15, 216-228.	1.8	12
56	Short- and long-term effects of NaCl on physiological and biochemical characteristics in leaves of a true mangrove, <i>Kandelia candel</i> . <i>Russian Journal of Plant Physiology</i> , 2009, 56, 363-369.	0.5	11
57	Source or sink? A study on the methane flux from mangroves stems in Zhangjiang estuary, southeast coast of China. <i>Science of the Total Environment</i> , 2021, 788, 147782.	3.9	11
58	Leaf miner-induced morphological, physiological and molecular changes in mangrove plant <i>Avicennia marina</i> (Forsk.) Vierh. <i>Tree Physiology</i> , 2016, 37, 82-97.	1.4	10
59	The function of hydrogen sulphide in iron availability: Sulfur nutrient or signaling molecule?. <i>Plant Signaling and Behavior</i> , 2016, 11, e1132967.	1.2	10
60	Exogenous hydrogen sulfide mediates Na ⁺ and K ⁺ fluxes of salt gland in salt-secreting mangrove plant <i>Avicennia marina</i> . <i>Tree Physiology</i> , 2022, 42, 1812-1826.	1.4	10
61	Proteomic investigation of Zn-challenged rice roots reveals adverse effects and root physiological adaptation. <i>Plant and Soil</i> , 2021, 460, 69-88.	1.8	9
62	Identification, characterization and expression analysis of lineage-specific genes within mangrove species <i>Aegiceras corniculatum</i> . <i>Molecular Genetics and Genomics</i> , 2021, 296, 1235-1247.	1.0	9
63	Transcriptomic analyses reveal the effect of nitric oxide on the lateral root development and growth of mangrove plant <i>Kandelia obovata</i> . <i>Plant and Soil</i> , 2022, 472, 543-564.	1.8	9
64	Microwave-assisted extraction and identification of polysaccharide from <i>Lycoris aurea</i> . <i>Chemistry of Natural Compounds</i> , 2009, 45, 474-477.	0.2	8
65	Effect of salinity on osmotic adjustment characteristics of <i>Kandelia candel</i> . <i>Russian Journal of Plant Physiology</i> , 2011, 58, 226-232.	0.5	8
66	Physiological and comparative proteomic analyses in response to nitrogen application in an Amaryllidaceae plant, <i>Lycoris aurea</i> . <i>Acta Physiologiae Plantarum</i> , 2013, 35, 271-282.	1.0	8
67	Trace metals complexation behavior with root exudates induced by salinity from a mangrove plant <i>Avicennia marina</i> (Forsk.) Vierh. <i>Bioremediation Journal</i> , 2019, 23, 82-93.	1.0	8
68	Proteomic Analysis Reveals Differences in Tolerance to Acid Rain in Two Broad-Leaf Tree Species, <i>Liquidambar formosana</i> and <i>Schima superba</i> . <i>PLoS ONE</i> , 2014, 9, e102532.	1.1	8
69	Physiological and Proteomic Analyses of Two <i>Acanthus</i> Species to Tidal Flooding Stress. <i>International Journal of Molecular Sciences</i> , 2021, 22, 1055.	1.8	7
70	Nitric oxide enhances selenium concentration by promoting selenite uptake by rice roots. <i>Journal of Plant Nutrition and Soil Science</i> , 2017, 180, 788-799.	1.1	6
71	Expression analysis of calcium-dependent protein kinases (CDPKs) superfamily genes in <i>Medicago lupulina</i> in response to high calcium, carbonate and drought. <i>Plant and Soil</i> , 2019, 441, 219-234.	1.8	5
72	Examining Soil Carbon Gas (CO ₂ , CH ₄) Emissions and the Effect on Functional Microbial Abundances in the Zhangjiang Estuary Mangrove Reserve. <i>Journal of Coastal Research</i> , 2020, 36, 54.	0.1	5

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73	Physiological, Proteomic Analysis, and Calcium-Related Gene Expression Reveal <i>Taxus wallichiana</i> var. <i>mairei</i> Adaptability to Acid Rain Stress Under Various Calcium Levels. <i>Frontiers in Plant Science</i> , 2022, 13, 845107.	1.7	5
74	The genome of a mangrove plant, <i>Avicennia marina</i> , provides insights into adaptation to coastal intertidal habitats. <i>Planta</i> , 2022, 256, .	1.6	5
75	Differential responses of <i>Abies fabri</i> and <i>Rhododendron calophytum</i> at two sites with contrasting pollution deposition and available calcium in southwestern China. <i>Plant Ecology</i> , 2013, 214, 557-569.	0.7	4
76	Variation of nitric oxide emission potential in plants: a possible link to leaf N content and net photosynthetic activity. <i>Journal of Plant Ecology</i> , 2015, 8, 313-320.	1.2	4
77	Effects of shrimp pond effluent on functional traits and functional diversity of mangroves in Zhangjiang Estuary. <i>Environmental Pollution</i> , 2022, 297, 118762.	3.7	3
78	Comparative transcriptome analysis on the mangrove <i>Acanthus ilicifolius</i> and its two terrestrial relatives provides insights into adaptation to intertidal habitats. <i>Gene</i> , 2022, 839, 146730.	1.0	3
79	Proteomic Analysis Reveals Nitric Oxide Functions in Promoting Etiolated Barley Seedlings Greening. <i>Crop Science</i> , 2014, 54, 757-769.	0.8	2
80	Changes in functional traits and stoichiometry of <i>Aegiceras corniculatum</i> propagule in three shrimp aquaculture effluent regions. <i>Aquatic Ecology</i> , 2020, 54, 927-940.	0.7	2