Li-Song Chen

List of Publications by Year
in descending order

114 papers	4,510 citations	87843 38 h-index	123376 61 g-index
117 all docs	117 docs citations	117 times ranked	3113 citing authors

#	Article	IF	Citations
1	Soil chemical quality assessment and spatial distribution of pomelo orchards in acidic red soil hilly regions of <scp>C</scp>hina. Journal of the Science of Food and Agriculture, 2022, 102, 2613-2622.	1.7	9
2	Copper Toxicity Differentially Regulates the Seedling Growth, Copper Distribution, and Photosynthetic Performance of Citrus sinensis and Citrus grandis. Journal of Plant Growth Regulation, 2022, 41, 3333-3344.	2.8	3
3	Magnesium absorption, translocation, subcellular distribution and chemical forms in citrus seedlings. Tree Physiology, 2022, 42, 862-876.	1.4	4
4	<i>CsiLAC4</i> modulates boron flow in <i>Arabidopsis</i> and <i>Citrus</i> via highâ€boronâ€dependent lignification of cell walls. New Phytologist, 2022, 233, 1257-1273.	3.5	9
5	Mechanisms for increased pH-mediated amelioration of copper toxicity in Citrus sinensis leaves using physiology, transcriptomics and metabolomics. Environmental and Experimental Botany, 2022, 196, 104812.	2.0	17
6	The aluminum distribution and translocation in two citrus species differing in aluminum tolerance. BMC Plant Biology, 2022, 22, 93.	1.6	5
7	Boron-mediated amelioration of copper-toxicity in sweet orange [Citrus sinensis (L.) Osbeck cv. Xuegan] seedlings involved reduced damage to roots and improved nutrition and water status. Ecotoxicology and Environmental Safety, 2022, 234, 113423.	2.9	13
8	Molecular mechanisms for pH-mediated amelioration of aluminum-toxicity revealed by conjoint analysis of transcriptome and metabolome in Citrus sinensis roots. Chemosphere, 2022, 299, 134335.	4.2	17
9	Citrus Physiological and Molecular Response to Boron Stresses. Plants, 2022, 11, 40.	1.6	27
10	Molecular and Physiological Responses of Citrus sinensis Leaves to Long-Term Low pH Revealed by RNA-Seq Integrated with Targeted Metabolomics. International Journal of Molecular Sciences, 2022, 23, 5844.	1.8	4
11	Raised pH conferred the ability to maintain a balance between production and detoxification of reactive oxygen species and methylglyoxal in aluminum-toxic Citrus sinensis leaves and roots. Environmental Pollution, 2021, 268, 115676.	3.7	16
12	UHPLC-Q-TOF/MS-based metabolomics reveals altered metabolic profiles in magnesium deficient leaves of Citrus sinensis. Scientia Horticulturae, 2021, 278, 109870.	1.7	11
13	Molecular mechanisms for magnesium-deficiency-induced leaf vein lignification, enlargement and cracking in <i>Citrus sinensis</i> revealed by RNA-Seq. Tree Physiology, 2021, 41, 280-301.	1.4	13
14	Effects of phosphorus deficiency on the absorption of mineral nutrients, photosynthetic system performance and antioxidant metabolism in Citrus grandis. PLoS ONE, 2021, 16, e0246944.	1.1	70
15	Leaf Photosynthesis and Carbon Metabolism Adapt to Crop Load in â€˜Galaâ€™ Apple Trees. Horticulturae, 2021, 7, 47.	1.2	6
16	Differences in morphological and physiological features of citrus seedlings are related to Mg transport from the parent to branch organs. BMC Plant Biology, 2021, 21, 239.	1.6	10
17	Growth, Mineral Nutrients, Photosynthesis and Related Physiological Parameters of Citrus in Response to Nitrogen Deficiency. Agronomy, 2021, 11, 1859.	1.3	23
18	Increased pH-mediated alleviation of copper-toxicity and growth response function in Citrus sinensis seedlings. Scientia Horticulturae, 2021, 288, 110310.	1.7	15

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19	Metabolomics combined with physiology and transcriptomics reveals how Citrus grandis leaves cope with copper-toxicity. Ecotoxicology and Environmental Safety, 2021, 223, 112579.	2.9	31
20	Adaptive Responses of CitrusÂgrandis Leaves to Copper Toxicity Revealed by RNA-Seq and Physiology. International Journal of Molecular Sciences, 2021, 22, 12023.	1.8	20
21	Comparative transcriptome analysis reveals candidate genes related to cadmium accumulation and tolerance in two almond mushroom (Agaricus brasiliensis) strains with contrasting cadmium tolerance. PLoS ONE, 2020, 15, e0239617.	1.1	6
22	Illumina sequencing revealed roles of microRNAs in different aluminum tolerance of two citrus species. Physiology and Molecular Biology of Plants, 2020, 26, 2173-2187.	1.4	5
23	Molecular and physiological mechanisms underlying magnesium-deficiency-induced enlargement, cracking and lignification of Citrus sinensis leaf veins. Tree Physiology, 2020, 40, 1277-1291.	1.4	9
24	Ammonium nutrition inhibits plant growth and nitrogen uptake in citrus seedlings. Scientia Horticulturae, 2020, 272, 109526.	1.7	42
25	Interactive effects of pH and aluminum on the secretion of organic acid anions by roots and related metabolic factors in Citrus sinensis roots and leaves. Environmental Pollution, 2020, 262, 114303.	3.7	33
26	Excess Copper-Induced Alterations of Protein Profiles and Related Physiological Parameters in Citrus Leaves. Plants, 2020, 9, 291.	1.6	34
27	Aluminum toxicity and fruit nutrition. , 2020, , 223-240.		2
28	Excess copper effects on growth, uptake of water and nutrients, carbohydrates, and PSII photochemistry revealed by OJIP transients in Citrus seedlings. Environmental Science and Pollution Research, 2019, 26, 30188-30205.	2.7	47
29	Magnesium Deficiency Induced Global Transcriptome Change in Citrus sinensis Leaves Revealed by RNA-Seq. International Journal of Molecular Sciences, 2019, 20, 3129.	1.8	28
30	Phosphorus-mediated alleviation of aluminum toxicity revealed by the iTRAQ technique in Citrus grandis roots. PLoS ONE, 2019, 14, e0223516.	1.1	6
31	Magnesium-Deficiency Effects on Pigments, Photosynthesis and Photosynthetic Electron Transport of Leaves, and Nutrients of Leaf Blades and Veins in Citrus sinensis Seedlings. Plants, 2019, 8, 389.	1.6	45
32	Low pH effects on reactive oxygen species and methylglyoxal metabolisms in Citrus roots and leaves. BMC Plant Biology, 2019, 19, 477.	1.6	13
33	Increasing Nutrient Solution pH Alleviated Aluminum-Induced Inhibition of Growth and Impairment of Photosynthetic Electron Transport Chain in<i> Citrus sinensis</i> Seedlings. BioMed Research International, 2019, 2019, 1-17.	0.9	26
34	Analysis of Interacting Proteins of Aluminum Toxicity Response Factor ALS3 and CAD in Citrus. International Journal of Molecular Sciences, 2019, 20, 4846.	1.8	5
35	Overexpression of the peanut CLAVATA1-like leucine-rich repeat receptor-like kinase AhRLK1 confers increased resistance to bacterial wilt in tobacco. Journal of Experimental Botany, 2019, 70, 5407-5421.	2.4	25
36	MicroRNA Sequencing Revealed Citrus Adaptation to Long-Term Boron Toxicity through Modulation of Root Development by miR319 and miR171. International Journal of Molecular Sciences, 2019, 20, 1422.	1.8	29

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37	Responses of reactive oxygen species and methylglyoxal metabolisms to magnesium-deficiency differ greatly among the roots, upper and lower leaves of Citrus sinensis. BMC Plant Biology, 2019, 19, 76.	1.6	40
38	Lower soil chemical quality of pomelo orchards compared with that of paddy and vegetable fields in acidic red soil hilly regions of southern China. Journal of Soils and Sediments, 2019, 19, 2752-2763.	1.5	26
39	Magnesium deficiency affects secondary lignification of the vascular system in Citrus sinensis seedlings. Trees - Structure and Function, 2019, 33, 171-182.	0.9	40
40	Aluminum-responsive genes revealed by RNA-Seq and related physiological responses in leaves of two Citrus species with contrasting aluminum-tolerance. Ecotoxicology and Environmental Safety, 2018, 158, 213-222.	2.9	24
41	Aluminum effects on photosynthesis, reactive oxygen species and methylglyoxal detoxification in two Citrus species differing in aluminum tolerance. Tree Physiology, 2018, 38, 1548-1565.	1.4	77
42	Low pH-responsive proteins revealed by a 2-DE based MS approach and related physiological responses in Citrus leaves. BMC Plant Biology, 2018, 18, 188.	1.6	14
43	Proteome profile analysis of boron-induced alleviation of aluminum-toxicity in Citrus grandis roots. Ecotoxicology and Environmental Safety, 2018, 162, 488-498.	2.9	21
44	Abnormal megagametogenesis results in seedlessness of a polyembryonic â€˜Meiguichengâ€™ orange () Tj ETQq0 0 0 rgBT /Overlock 1	1.7	7
45	Identification of manganese-toxicity-responsive genes in roots of two citrus species differing in manganese tolerance using cDNA-AFLP. Trees - Structure and Function, 2017, 31, 813-831.	0.9	18
46	Long-term manganese-toxicity-induced alterations of physiology and leaf protein profiles in two Citrus species differing in manganese-tolerance. Journal of Plant Physiology, 2017, 218, 249-257.	1.6	12
47	Magnesium-deficiency-induced alterations of gas exchange, major metabolites and key enzymes differ among roots, and lower and upper leaves of Citrus sinensis seedlings. Tree Physiology, 2017, 37, 1564-1581.	1.4	54
48	Effects of High Toxic Boron Concentration on Protein Profiles in Roots of Two Citrus Species Differing in Boron-Tolerance Revealed by a 2-DE Based MS Approach. Frontiers in Plant Science, 2017, 8, 180.	1.7	26
49	Effects of Low pH on Photosynthesis, Related Physiological Parameters, and Nutrient Profiles of Citrus. Frontiers in Plant Science, 2017, 8, 185.	1.7	90
50	Root Adaptive Responses to Aluminum-Treatment Revealed by RNA-Seq in Two Citrus Species With Different Aluminum-Tolerance. Frontiers in Plant Science, 2017, 8, 330.	1.7	40
51	Sulfur-Mediated-Alleviation of Aluminum-Toxicity in Citrus grandis Seedlings. International Journal of Molecular Sciences, 2017, 18, 2570.	1.8	39
52	MicroRNA-mediated responses to long-term magnesium-deficiency in Citrus sinensis roots revealed by Illumina sequencing. BMC Genomics, 2017, 18, 657.	1.2	37
53	Aluminum Toxicity-Induced Alterations of Leaf Proteome in Two Citrus Species Differing in Aluminum Tolerance. International Journal of Molecular Sciences, 2016, 17, 1180.	1.8	35
54	MicroRNA Regulatory Mechanisms on Citrus sinensis leaves to Magnesium-Deficiency. Frontiers in Plant Science, 2016, 7, 201.	1.7	35

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55	Long-Term Boron-Excess-Induced Alterations of Gene Profiles in Roots of Two Citrus Species Differing in Boron-Tolerance Revealed by cDNA-AFLP. Frontiers in Plant Science, 2016, 7, 898.	1.7	9
56	Alterations of physiology and gene expression due to long-term magnesium-deficiency differ between leaves and roots of Citrus reticulata. Journal of Plant Physiology, 2016, 198, 103-115.	1.6	40
57	Illumina microRNA profiles reveal the involvement of miR397a in Citrus adaptation to long-term boron toxicity via modulating secondary cell-wall biosynthesis. Scientific Reports, 2016, 6, 22900.	1.6	41
58	Proteomic profile of Citrus grandis roots under long-term boron-deficiency revealed by iTRAQ. Trees - Structure and Function, 2016, 30, 1057-1071.	0.9	16
59	Root iTRAQ protein profile analysis of two Citrus species differing in aluminum-tolerance in response to long-term aluminum-toxicity. BMC Genomics, 2015, 16, 949.	1.2	47
60	Boron-deficiency-responsive microRNAs and their targets in Citrus sinensis leaves. BMC Plant Biology, 2015, 15, 271.	1.6	34
61	Long-term boron-deficiency-responsive genes revealed by cDNA-AFLP differ between Citrus sinensis roots and leaves. Frontiers in Plant Science, 2015, 6, 585.	1.7	25
62	An investigation of boron-toxicity in leaves of two citrus species differing in boron-tolerance using comparative proteomics. Journal of Proteomics, 2015, 123, 128-146.	1.2	33
63	Proteomic analysis of Citrus sinensis roots and leaves in response to long-term magnesium-deficiency. BMC Genomics, 2015, 16, 253.	1.2	65
64	Two-dimensional gel electrophoresis data in support of leaf comparative proteomics of two citrus species differing in boron-tolerance. Data in Brief, 2015, 4, 44-46.	0.5	5
65	Leaf cDNA-AFLP analysis reveals novel mechanisms for boron-induced alleviation of aluminum-toxicity in Citrus grandis seedlings. Ecotoxicology and Environmental Safety, 2015, 120, 349-359.	2.9	18
66	Roles of rootstocks and scions in aluminum-tolerance of Citrus. Acta Physiologiae Plantarum, 2015, 37, 1.	1.0	15
67	Mechanisms on Boron-Induced Alleviation of Aluminum-Toxicity in Citrus grandis Seedlings at a Transcriptional Level Revealed by cDNA-AFLP Analysis. PLoS ONE, 2015, 10, e0115485.	1.1	37
68	Effects of boron toxicity on root and leaf anatomy in two Citrus species differing in boron tolerance. Trees - Structure and Function, 2014, 28, 1653-1666.	0.9	56
69	cDNA-AFLP analysis reveals the adaptive responses of citrus to long-term boron-toxicity. BMC Plant Biology, 2014, 14, 284.	1.6	30
70	Proteomic changes of Citrus roots in response to long-term manganese toxicity. Trees - Structure and Function, 2014, 28, 1383-1399.	0.9	37
71	Effects of boron deficiency on major metabolites, key enzymes and gas exchange in leaves and roots of Citrus sinensis seedlings. Tree Physiology, 2014, 34, 608-618.	1.4	60
72	Identification of boron-deficiency-responsive microRNAs in Citrus sinensis roots by Illumina sequencing. BMC Plant Biology, 2014, 14, 123.	1.6	57

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73	Effects of granulation on organic acid metabolism and its relation to mineral elements in Citrus grandis juice sacs. Food Chemistry, 2014, 145, 984-990.	4.2	52
74	Leaf cDNA-AFLP analysis of two citrus species differing in manganese tolerance in response to long-term manganese-toxicity. BMC Genomics, 2013, 14, 621.	1.2	54
75	iTRAQ protein profile analysis of Citrus sinensis roots in response to long-term boron-deficiency. Journal of Proteomics, 2013, 93, 179-206.	1.2	135
76	Roles of Organic Acid Anion Secretion in Aluminium Tolerance of Higher Plants. BioMed Research International, 2013, 2013, 1-16.	0.9	85
77	Roles of Organic Acid Metabolism in Plant Tolerance to Phosphorus-Deficiency. Progress in Botany Fortschritte Der Botanik, 2013, , 213-237.	0.1	8
78	Organic acid metabolism in Citrus grandis leaves and roots is differently affected by nitric oxide and aluminum interactions. Scientia Horticulturae, 2012, 133, 40-46.	1.7	28
79	Physiological Responses and Tolerance of Citrus to Aluminum Toxicity. , 2012, , 435-452.		0
80	Antioxidant system of tea (Camellia sinensis) leaves in response to phosphorus supply. Acta Physiologiae Plantarum, 2012, 34, 2443-2448.	1.0	14
81	Magnesium deficiencyâ€"induced impairment of photosynthesis in leaves of fruiting <i>Citrus reticulata</i> trees accompanied by upâ€regulation of antioxidant metabolism to avoid photoâ€oxidative damage. Journal of Plant Nutrition and Soil Science, 2012, 175, 784-793.	1.1	75
82	Differential expression of genes involved in alternative glycolytic pathways, phosphorus scavenging and recycling in response to aluminum and phosphorus interactions in Citrus roots. Molecular Biology Reports, 2012, 39, 6353-6366.	1.0	41
83	Physiological impacts of magnesium-deficiency in Citrus seedlings: photosynthesis, antioxidant system and carbohydrates. Trees - Structure and Function, 2012, 26, 1237-1250.	0.9	115
84	Effects of phosphorus supply on the quality of green tea. Food Chemistry, 2012, 130, 908-914.	4.2	64
85	Nitric oxide protects sour pummelo (Citrus grandis) seedlings against aluminum-induced inhibition of growth and photosynthesis. Environmental and Experimental Botany, 2012, 82, 1-13.	2.0	40
86	Root release and metabolism of organic acids in tea plants in response to phosphorus supply. Journal of Plant Physiology, 2011, 168, 644-652.	1.6	45
87	Mechanisms of aluminum-tolerance in two species of citrus: Secretion of organic acid anions and immobilization of aluminum by phosphorus in roots. Plant Science, 2011, 180, 521-530.	1.7	80
88	Expression of genes for two phosphofructokinases, tonoplast ATPase subunit A, and pyrophosphatase of tea roots in response to phosphorus-deficiency. Journal of Horticultural Science and Biotechnology, 2010, 85, 449-453.	0.9	11
89	The acceptor side of photosystem II is damaged more severely than the donor side of photosystem II in â€˜Honeycrispâ€™ apple leaves with zonal chlorosis. Acta Physiologiae Plantarum, 2010, 32, 253-261.	1.0	23
90	Effects of manganese-excess on CO2 assimilation, ribulose-1,5-bisphosphate carboxylase/oxygenase, carbohydrates and photosynthetic electron transport of leaves, and antioxidant systems of leaves and roots in Citrus grandisseedlings. BMC Plant Biology, 2010, 10, 42.	1.6	112

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91	Ethychlozate reduces acidity of loquat (Eriobotrya japonica) fruit. Scientia Horticulturae, 2010, 124, 331-337.	1.7	4
92	Antagonistic actions of boron against inhibitory effects of aluminum toxicity on growth, CO2 assimilation, ribulose-1,5-bisphosphate carboxylase/oxygenase, and photosynthetic electron transport probed by the JIP-test, of Citrus grandisseedlings. BMC Plant Biology, 2009, 9, 102.	1.6	60
93	CO2assimilation, ribulose-1,5-bisphosphate carboxylase/oxygenase, carbohydrates and photosynthetic electron transport probed by the JIP-test, of tea leaves in response to phosphorus supply. BMC Plant Biology, 2009, 9, 43.	1.6	114
94	Comparison of thermotolerance of sun-exposed peel and shaded peel of â€˜Fujiâ€™ apple. Environmental and Experimental Botany, 2009, 66, 110-116.	2.0	47
95	Phosphorus alleviates aluminumâ€induced inhibition of growth and photosynthesis in <i>Citrus grandis</i> seedlings. Physiologia Plantarum, 2009, 137, 298-311.	2.6	70
96	CO2 assimilation, photosystem II photochemistry, carbohydrate metabolism and antioxidant system of citrus leaves in response to boron stress. Plant Science, 2009, 176, 143-153.	1.7	175
97	Changes in organic acid metabolism differ between roots and leaves of Citrus grandis in response to phosphorus and aluminum interactions. Journal of Plant Physiology, 2009, 166, 2023-2034.	1.6	31
98	Effects of high temperature coupled with high light on the balance between photooxidation and photoprotection in the sun-exposed peel of apple. Planta, 2008, 228, 745-756.	1.6	116
99	Boron deficiency decreases growth and photosynthesis, and increases starch and hexoses in leaves of citrus seedlings. Journal of Plant Physiology, 2008, 165, 1331-1341.	1.6	201
100	Aluminum-induced effects on Photosystem II photochemistry in Citrus leaves assessed by the chlorophyll a fluorescence transient. Tree Physiology, 2008, 28, 1863-1871.	1.4	233
101	The sun-exposed peel of apple fruit has a higher photosynthetic capacity than the shaded peel. Functional Plant Biology, 2007, 34, 1038.	1.1	32
102	Dithiothreitol decreasesin vitro activity of ADP-glucose pyrophosphorylase from leaves of apple (Malus domestica Borkh.) and many other plant species. Phytochemical Analysis, 2007, 18, 300-305.	1.2	6
103	Physiological responses and tolerance of plant shoot to aluminum toxicity. Zhi Wu Sheng Li Yu Fen Zi Sheng Wu Xue Xue Bao = Journal of Plant Physiology and Molecular Biology, 2006, 32, 143-55.	0.0	2
104	Aluminum-induced decrease in CO2 assimilation in citrus seedlings is unaccompanied by decreased activities of key enzymes involved in CO2 assimilation. Tree Physiology, 2005, 25, 317-324.	1.4	96
105	Effects of Aluminum on Light Energy Utilization and Photoprotective Systems in Citrus Leaves. Annals of Botany, 2005, 96, 35-41.	1.4	97
106	Dayâ€“Night Changes of Energy-rich Compounds in Crassulacean Acid Metabolism (CAM) Species Utilizing Hexose and Starch. Annals of Botany, 2004, 94, 449-455.	1.4	23
107	Photosynthetic enzymes and carbohydrate metabolism of apple leaves in response to nitrogen limitation. Journal of Horticultural Science and Biotechnology, 2004, 79, 923-929.	0.9	21
108	CO2 Assimilation, Carbohydrate Metabolism, Xanthophyll Cycle, and the Antioxidant System of `Honeycrisp' Apple Leaves with Zonal Chlorosis. Journal of the American Society for Horticultural Science, 2004, 129, 729-737.	0.5	18

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109	CO2 Assimilation, Photosynthetic Enzymes, and Carbohydrates of `Concord' Grape Leaves in Response to Iron Supply. Journal of the American Society for Horticultural Science, 2004, 129, 738-744.	0.5	23
110	Both xanthophyll cycleâ€dependent thermal dissipation and the antioxidant system are upâ€regulated in grape (Vitis labrusca L. cv. Concord) leaves in response to N limitation. Journal of Experimental Botany, 2003, 54, 2165-2175.	2.4	75
111	Carbon Assimilation and Carbohydrate Metabolism of `Concord' Grape (Vitis labrusca L.) Leaves in Response to Nitrogen Supply. Journal of the American Society for Horticultural Science, 2003, 128, 754-760.	0.5	59
112	A comparative study on diurnal changes in metabolite levels in the leaves of three crassulacean acid metabolism (CAM) species, Ananas comosus, KalanchoÃ« daigremontiana and K. pinnata. Journal of Experimental Botany, 2002, 53, 341-350.	2.4	73
113	An Improved Method for Extraction and Measurement of the Inorganic Pyrophosphate in Leaves of Crassulacean Acid Metabolism (CAM) Plants. Plant Production Science, 2001, 4, 15-19.	0.9	4
114	Characteristics of Adenosinetriphosphatase and Inorganic Pyrophosphatase in Tonoplasts Isolated from Three CAM Species,<i>Ananas comosus, KalanchoÃ« pinnata</i>and K. daigremontiana. Plant Production Science, 2000, 3, 24-31.	0.9	10