Li-Song Chen

List of Publications by Year
in descending order

114 papers	4,510 citations	87888 38 h-index	123424 61 g-index
117 all docs	117 docs citations	117 times ranked	3113 citing authors

#	Article	IF	Citations
1	Aluminum-induced effects on Photosystem II photochemistry in Citrus leaves assessed by the chlorophyll a fluorescence transient. Tree Physiology, 2008, 28, 1863-1871.	3.1	233
2	Boron deficiency decreases growth and photosynthesis, and increases starch and hexoses in leaves of citrus seedlings. Journal of Plant Physiology, 2008, 165, 1331-1341.	3.5	201
3	CO2 assimilation, photosystem II photochemistry, carbohydrate metabolism and antioxidant system of citrus leaves in response to boron stress. Plant Science, 2009, 176, 143-153.	3.6	175
4	iTRAQ protein profile analysis of Citrus sinensis roots in response to long-term boron-deficiency. Journal of Proteomics, 2013, 93, 179-206.	2.4	135
5	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.	3.2	116
6	Physiological impacts of magnesium-deficiency in Citrus seedlings: photosynthesis, antioxidant system and carbohydrates. Trees - Structure and Function, 2012, 26, 1237-1250.	1.9	115
7	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.	3.6	114
8	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.	3.6	112
9	Effects of Aluminum on Light Energy Utilization and Photoprotective Systems in Citrus Leaves. Annals of Botany, 2005, 96, 35-41.	2.9	97
10	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.	3.1	96
11	Effects of Low pH on Photosynthesis, Related Physiological Parameters, and Nutrient Profiles of Citrus. Frontiers in Plant Science, 2017, 8, 185.	3.6	90
12	Roles of Organic Acid Anion Secretion in Aluminium Tolerance of Higher Plants. BioMed Research International, 2013, 2013, 1-16.	1.9	85
13	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.	3.6	80
14	Aluminum effects on photosynthesis, reactive oxygen species and methylglyoxal detoxification in two Citrus species differing in aluminum tolerance. Tree Physiology, 2018, 38, 1548-1565.	3.1	77
15	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.	4.8	75
16	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.	1.9	75
17	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.	4.8	73
18	Phosphorus alleviates aluminumâ€induced inhibition of growth and photosynthesis in <i>Citrus grandis</i> seedlings. Physiologia Plantarum, 2009, 137, 298-311.	5.2	70

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19	Effects of phosphorus deficiency on the absorption of mineral nutrients, photosynthetic system performance and antioxidant metabolism in Citrus grandis. PLoS ONE, 2021, 16, e0246944.	2.5	70
20	Proteomic analysis of Citrus sinensis roots and leaves in response to long-term magnesium-deficiency. BMC Genomics, 2015, 16, 253.	2.8	65
21	Effects of phosphorus supply on the quality of green tea. Food Chemistry, 2012, 130, 908-914.	8.2	64
22	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.	3.6	60
23	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.	3.1	60
24	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.	1.0	59
25	Identification of boron-deficiency-responsive microRNAs in Citrus sinensis roots by Illumina sequencing. BMC Plant Biology, 2014, 14, 123.	3.6	57
26	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.	1.9	56
27	Leaf cDNA-AFLP analysis of two citrus species differing in manganese tolerance in response to long-term manganese-toxicity. BMC Genomics, 2013, 14, 621.	2.8	54
28	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.	3.1	54
29	Effects of granulation on organic acid metabolism and its relation to mineral elements in Citrus grandis juice sacs. Food Chemistry, 2014, 145, 984-990.	8.2	52
30	Comparison of thermotolerance of sun-exposed peel and shaded peel of â€˜Fujiâ€™ apple. Environmental and Experimental Botany, 2009, 66, 110-116.	4.2	47
31	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.	2.8	47
32	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.	5.3	47
33	Root release and metabolism of organic acids in tea plants in response to phosphorus supply. Journal of Plant Physiology, 2011, 168, 644-652.	3.5	45
34	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.	3.5	45
35	Ammonium nutrition inhibits plant growth and nitrogen uptake in citrus seedlings. Scientia Horticulturae, 2020, 272, 109526.	3.6	42
36	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.	2.3	41

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37	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.	3.3	41
38	Nitric oxide protects sour pummelo (Citrus grandis) seedlings against aluminum-induced inhibition of growth and photosynthesis. Environmental and Experimental Botany, 2012, 82, 1-13.	4.2	40
39	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.	3.5	40
40	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.	3.6	40
41	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.	3.6	40
42	Magnesium deficiency affects secondary lignification of the vascular system in Citrus sinensis seedlings. Trees - Structure and Function, 2019, 33, 171-182.	1.9	40
43	Sulfur-Mediated-Alleviation of Aluminum-Toxicity in Citrus grandis Seedlings. International Journal of Molecular Sciences, 2017, 18, 2570.	4.1	39
44	Proteomic changes of Citrus roots in response to long-term manganese toxicity. Trees - Structure and Function, 2014, 28, 1383-1399.	1.9	37
45	MicroRNA-mediated responses to long-term magnesium-deficiency in Citrus sinensis roots revealed by Illumina sequencing. BMC Genomics, 2017, 18, 657.	2.8	37
46	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.	2.5	37
47	Aluminum Toxicity-Induced Alterations of Leaf Proteome in Two Citrus Species Differing in Aluminum Tolerance. International Journal of Molecular Sciences, 2016, 17, 1180.	4.1	35
48	MicroRNA Regulatory Mechanisms on Citrus sinensis leaves to Magnesium-Deficiency. Frontiers in Plant Science, 2016, 7, 201.	3.6	35
49	Boron-deficiency-responsive microRNAs and their targets in Citrus sinensis leaves. BMC Plant Biology, 2015, 15, 271.	3.6	34
50	Excess Copper-Induced Alterations of Protein Profiles and Related Physiological Parameters in Citrus Leaves. Plants, 2020, 9, 291.	3.5	34
51	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.	2.4	33
52	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.	7.5	33
53	The sun-exposed peel of apple fruit has a higher photosynthetic capacity than the shaded peel. Functional Plant Biology, 2007, 34, 1038.	2.1	32
54	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.	3.5	31

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55	Metabolomics combined with physiology and transcriptomics reveals how Citrus grandis leaves cope with copper-toxicity. Ecotoxicology and Environmental Safety, 2021, 223, 112579.	6.0	31
56	cDNA-AFLP analysis reveals the adaptive responses of citrus to long-term boron-toxicity. BMC Plant Biology, 2014, 14, 284.	3.6	30
57	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.	4.1	29
58	Organic acid metabolism in Citrus grandis leaves and roots is differently affected by nitric oxide and aluminum interactions. Scientia Horticulturae, 2012, 133, 40-46.	3.6	28
59	Magnesium Deficiency Induced Global Transcriptome Change in Citrus sinensis Leaves Revealed by RNA-Seq. International Journal of Molecular Sciences, 2019, 20, 3129.	4.1	28
60	Citrus Physiological and Molecular Response to Boron Stresses. Plants, 2022, 11, 40.	3.5	27
61	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.	3.6	26
62	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.	1.9	26
63	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.	3.0	26
64	Long-term boron-deficiency-responsive genes revealed by cDNA-AFLP differ between Citrus sinensis roots and leaves. Frontiers in Plant Science, 2015, 6, 585.	3.6	25
65	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.	4.8	25
66	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.	6.0	24
67	Dayâ€“Night Changes of Energy-rich Compounds in Crassulacean Acid Metabolism (CAM) Species Utilizing Hexose and Starch. Annals of Botany, 2004, 94, 449-455.	2.9	23
68	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.	2.1	23
69	Growth, Mineral Nutrients, Photosynthesis and Related Physiological Parameters of Citrus in Response to Nitrogen Deficiency. Agronomy, 2021, 11, 1859.	3.0	23
70	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.	1.0	23
71	Photosynthetic enzymes and carbohydrate metabolism of apple leaves in response to nitrogen limitation. Journal of Horticultural Science and Biotechnology, 2004, 79, 923-929.	1.9	21
72	Proteome profile analysis of boron-induced alleviation of aluminum-toxicity in Citrus grandis roots. Ecotoxicology and Environmental Safety, 2018, 162, 488-498.	6.0	21

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73	Adaptive Responses of CitrusÂgrandis Leaves to Copper Toxicity Revealed by RNA-Seq and Physiology. International Journal of Molecular Sciences, 2021, 22, 12023.	4.1	20
74	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.	6.0	18
75	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.	1.9	18
76	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.	1.0	18
77	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.	4.2	17
78	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.	8.2	17
79	Proteomic profile of Citrus grandis roots under long-term boron-deficiency revealed by iTRAQ. Trees - Structure and Function, 2016, 30, 1057-1071.	1.9	16
80	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.	7.5	16
81	Roles of rootstocks and scions in aluminum-tolerance of Citrus. Acta Physiologiae Plantarum, 2015, 37, 1.	2.1	15
82	Increased pH-mediated alleviation of copper-toxicity and growth response function in Citrus sinensis seedlings. Scientia Horticulturae, 2021, 288, 110310.	3.6	15
83	Antioxidant system of tea (Camellia sinensis) leaves in response to phosphorus supply. Acta Physiologiae Plantarum, 2012, 34, 2443-2448.	2.1	14
84	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.	3.6	14
85	Low pH effects on reactive oxygen species and methylglyoxal metabolisms in Citrus roots and leaves. BMC Plant Biology, 2019, 19, 477.	3.6	13
86	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.	3.1	13
87	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.	6.0	13
88	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.	3.5	12
89	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.	1.9	11
90	UHPLC-Q-TOF/MS-based metabolomics reveals altered metabolic profiles in magnesium deficient leaves of Citrus sinensis. Scientia Horticulturae, 2021, 278, 109870.	3.6	11

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91	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.	2.0	10
92	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.	3.6	10
93	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.	3.6	9
94	Molecular and physiological mechanisms underlying magnesium-deficiency-induced enlargement, cracking and lignification of Citrus sinensis leaf veins. Tree Physiology, 2020, 40, 1277-1291.	3.1	9
95	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.	3.5	9
96	<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.	7.3	9
97	Roles of Organic Acid Metabolism in Plant Tolerance to Phosphorus-Deficiency. Progress in Botany Fortschritte Der Botanik, 2013, , 213-237.	0.3	8
98	Abnormal megagametogenesis results in seedlessness of a polyembryonic â€˜Meiguichengâ€™ orange () Tj ETQq0 0 0 rgBT /Overlock 1	3.6	7
99	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.	2.4	6
100	Phosphorus-mediated alleviation of aluminum toxicity revealed by the iTRAQ technique in Citrus grandis roots. PLoS ONE, 2019, 14, e0223516.	2.5	6
101	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.	2.5	6
102	Leaf Photosynthesis and Carbon Metabolism Adapt to Crop Load in â€˜Galaâ€™ Apple Trees. Horticulturae, 2021, 7, 47.	2.8	6
103	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.	1.0	5
104	Analysis of Interacting Proteins of Aluminum Toxicity Response Factor ALS3 and CAD in Citrus. International Journal of Molecular Sciences, 2019, 20, 4846.	4.1	5
105	Illumina sequencing revealed roles of microRNAs in different aluminum tolerance of two citrus species. Physiology and Molecular Biology of Plants, 2020, 26, 2173-2187.	3.1	5
106	The aluminum distribution and translocation in two citrus species differing in aluminum tolerance. BMC Plant Biology, 2022, 22, 93.	3.6	5
107	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.	2.0	4
108	Ethychlozate reduces acidity of loquat (Eriobotrya japonica) fruit. Scientia Horticulturae, 2010, 124, 331-337.	3.6	4

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109	Magnesium absorption, translocation, subcellular distribution and chemical forms in citrus seedlings. Tree Physiology, 2022, 42, 862-876.	3.1	4
110	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.	4.1	4
111	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.	5.1	3
112	Aluminum toxicity and fruit nutrition. , 2020, , 223-240.		2
113	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
114	Physiological Responses and Tolerance of Citrus to Aluminum Toxicity. , 2012, , 435-452.		0