Suriyan Cha-Um

List of Publications by Year
in descending order

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81	1,562	331670	361022
papers	citations	21 h-index	35 g-index

82	82	82	1742
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Arbuscular mycorrhizal fungi (AMF) improved water deficit tolerance in two different sweet potato genotypes involves osmotic adjustments via soluble sugar and free proline. Scientia Horticulturae, 2016, 198, 107-117.	3.6	126
2	Arbuscular mycorrhiza improved growth performance in Macadamia tetraphylla L. grown under water deficit stress involves soluble sugar and proline accumulation. Plant Growth Regulation, 2013, 69, 285-293.	3.4	115
3	An Alkaline Phosphatase/Phosphodiesterase, PhoD, Induced by Salt Stress and Secreted Out of the Cells of Aphanothece halophytica, a Halotolerant Cyanobacterium. Applied and Environmental Microbiology, 2011, 77, 5178-5183.	3.1	108
4	Regulation of some carbohydrate metabolism-related genes, starch and soluble sugar contents, photosynthetic activities and yield attributes of two contrasting rice genotypes subjected to salt stress. Protoplasma, 2013, 250, 1157-1167.	2.1	105
5	Sugar accumulation, photosynthesis and growth of two indica rice varieties in response to salt stress. Acta Physiologiae Plantarum, 2009, 31, 477-486.	2.1	55
6	Remediation of salt-affected soil by the addition of organic matter: an investigation into improving glutinous rice productivity. Scientia Agricola, 2011, 68, 406-410.	1.2	54
7	Alleviation of Salt Stress in Upland Rice (Oryza sativa L. ssp. indica cv. Leum Pua) Using Arbuscular Mycorrhizal Fungi Inoculation. Frontiers in Plant Science, 2020, 11, 348.	3.6	47
8	Enhanced growth and photosynthesis of rain tree (Samanea saman Merr.) plantlets in vitro under a CO2-enriched condition with decreased sucrose concentrations in the medium. Scientia Horticulturae, 2004, 103, 51-63.	3.6	43
9	Comparative Effects of Salt Stress and Extreme pH Stress Combined on Glycinebetaine Accumulation, Photosynthetic Abilities and Growth Characters of Two Rice Genotypes. Rice Science, 2009, 16, 274-282.	3.9	41
10	Promoting root induction and growth of in vitro macadamia (Macadamia tetraphylla L. â€˜Keaauâ€™) plantlets using CO2-enriched photoautotrophic conditions. Plant Cell, Tissue and Organ Culture, 2011, 106, 435-444.	2.3	38
11	Water-Deficit Tolerance in Sweet Potato [Ipomoea batatas (L.) Lam.] by Foliar Application of Paclobutrazol: Role of Soluble Sugar and Free Proline. Frontiers in Plant Science, 2017, 8, 1400.	3.6	33
12	Screening sugarcane (Saccharum sp.) genotypes for salt tolerance using multivariate cluster analysis. Plant Cell, Tissue and Organ Culture, 2012, 110, 23-33.	2.3	32
13	Expression and functional analysis of putative vacuolar Ca2+-transporters (CAXs and ACAs) in roots of salt tolerant and sensitive rice cultivars. Protoplasma, 2014, 251, 1067-1075.	2.1	30
14	Foliar application of glycinebetaine regulates soluble sugars and modulates physiological adaptations in sweet potato (Ipomoea batatas) under water deficit. Protoplasma, 2020, 257, 197-211.	2.1	29
15	Responses of Nipa palm (Nypa fruticans) seedlings, a mangrove species, to salt stress in pot culture. Flora: Morphology, Distribution, Functional Ecology of Plants, 2014, 209, 597-603.	1.2	27
16	Water-deficit tolerant identification in sweet potato genotypes (Ipomoea batatas (L.) Lam.) in vegetative developmental stage using multivariate physiological indices. Scientia Horticulturae, 2013, 162, 242-251.	3.6	26
17	Physio-biochemical and morphological characters of halophyte legume shrub, Acacia ampliceps seedlings in response to salt stress under greenhouse. Frontiers in Plant Science, 2015, 6, 630.	3.6	25
18	An efficient procedure for embryogenic callus induction and double haploid plant regeneration through anther culture of Thai aromatic rice (Oryza sativa L. subsp. indica). In Vitro Cellular and Developmental Biology - Plant, 2009, 45, 171-179.	2.1	23

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19	Effects of water stress induced by sodium chloride and mannitol on proline accumulation, photosynthetic abilities and growth characters of eucalyptus (Eucalyptus camaldulensis Dehnh.). New Forests, 2010, 40, 349-360.	1.7	23
20	Differential accumulation of glycinebetaine and choline monooxygenase in bladder hairs and lamina leaves of Atriplex gmelini under high salinity. Journal of Plant Physiology, 2015, 176, 101-107.	3.5	22
21	Transcriptional regulations of the genes of starch metabolism and physiological changes in response to salt stress rice (Oryza sativa L.) seedlings. Physiology and Molecular Biology of Plants, 2012, 18, 197-208.	3.1	21
22	Morpho-physiological responses of indica rice (Oryza sativa sub. indica) to aluminum toxicity at seedling stage. Environmental Science and Pollution Research, 2021, 28, 29321-29331.	5.3	21
23	Exogenous Foliar Application of Glycine Betaine to Alleviate Water Deficit Tolerance in Two Indica Rice Genotypes under Greenhouse Conditions. Agronomy, 2019, 9, 138.	3.0	20
24	Salt tolerant screening in eucalypt genotypes (Eucalyptus spp.) using photosynthetic abilities, proline accumulation, and growth characteristics as effective indices. In Vitro Cellular and Developmental Biology - Plant, 2013, 49, 611-619.	2.1	19
25	In vitro photoautotrophic acclimatization, direct transplantation and ex vitro adaptation of rubber tree (Hevea brasiliensis). Plant Cell, Tissue and Organ Culture, 2018, 133, 215-223.	2.3	18
26	Application of infrared thermography to assess cassava physiology under water deficit condition. Plant Production Science, 2018, 21, 398-406.	2.0	18
27	Evaluating sugarcane (Saccharum sp.) cultivars for water deficit tolerance using some key physiological markers. Plant Biotechnology, 2012, 29, 431-439.	1.0	17
28	Isolation and functional characterization of 3-phosphoglycerate dehydrogenase involved in salt responses in sugar beet. Protoplasma, 2017, 254, 2305-2313.	2.1	17
29	Promoting water deficit tolerance and anthocyanin fortification in pigmented rice cultivar (Oryza) Tj ETQq1 1 0.784314 rgBT /Overloc Biology of Plants, 2019, 25, 821-835.	3.1	17
30	Disease-free Production of Sugarcane Varieties (Saccharum officinarum L.) Using in vitro Meristem Culture. Biotechnology, 2006, 5, 443-448.	0.1	17
31	Comparative proteomics and protein profile related to phenolic compounds and antioxidant activity in germinated <scp>Oryza sativa</scp> â€˜KDML105â€™ and Thai brown rice â€˜Mali Daengâ€™ for better nutritional value. Journal of the Science of Food and Agriculture, 2018, 98, 566-573.	3.5	16
32	Evaluation and clustering on salt-tolerant ability in rice genotypes (Oryza sativa L. subsp. indica) using multivariate physiological indices. Physiology and Molecular Biology of Plants, 2019, 25, 473-483.	3.1	15
33	Expression levels of the Na+/K+ transporter OsHKT2;1 and vacuolar Na+/H+ exchanger OsNHX1, Na enrichment, maintaining the photosynthetic abilities and growth performances of indica rice seedlings under salt stress. Physiology and Molecular Biology of Plants, 2020, 26, 513-523.	3.1	14
34	Effect of seed priming with potassium nitrate on growth, fruit yield, quality and water productivity of cantaloupe under water-deficit stress. Scientia Horticulturae, 2021, 288, 110354.	3.6	14
35	An effective in-vitro acclimatization using uniconazole treatments and ex-vitro adaptation of Phalaenopsis orchid. Scientia Horticulturae, 2009, 121, 468-473.	3.6	13
36	Physio-Biochemical Responses of Oil Palm (Elaeis guineensisJacq.) Seedlings to Mannitol- and Polyethylene Glycol-Induced Iso-Osmotic Stresses. Plant Production Science, 2012, 15, 65-72.	2.0	13

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37	Isolation and characterization of proline/betaine transporter gene from oil palm. Tree Physiology, 2011, 31, 462-468.	3.1	12
38	Water-deficit tolerant classification in mutant lines of indica rice. Scientia Agricola, 2012, 69, 135-141.	1.2	12
39	Title is missing!. ScienceAsia, 2004, 30, 247.	0.5	12
40	Regulation of anthocyanin accumulation in rice (Oryza sativa L. subsp. indica) using MgSO4 spraying and low temperature. Archives of Agronomy and Soil Science, 2018, 64, 1663-1677.	2.6	11
41	Expression levels of vacuolar ion homeostasis-related genes, Na+ enrichment, and their physiological responses to salt stress in sugarcane genotypes. Protoplasma, 2020, 257, 525-536.	2.1	11
42	Calcium and soluble sugar enrichments and physiological adaptation to mild NaCl salt stress in sweet potato (Ipomoea batatas) genotypes. Journal of Horticultural Science and Biotechnology, 2020, 95, 782-793.	1.9	11
43	Title is missing!. ScienceAsia, 2003, 29, 189.	0.5	11
44	Expression of developmentally regulated plasma membrane polypeptide (DREPP2) in rice root tip and interaction with Ca2+/CaM complex and microtubule. Protoplasma, 2015, 252, 1519-1527.	2.1	10
45	Non-Destructive Leaf Area Estimation Model for Overall Growth Performances in Relation to Yield Attributes of Cassava (Manihot esculenta Cranz) under Water Deficit Conditions. Notulae Botanicae Horti Agrobotanici Cluj-Napoca, 2019, 47, .	1.1	10
46	Seed priming with salicylic acid enhances growth, physiological traits, fruit yield, and quality parameters of cantaloupe under water-deficit stress. South African Journal of Botany, 2022, 150, 1-12.	2.5	10
47	CPPU elevates photosynthetic abilities, growth performances and yield traits in salt stressed rice (Oryza sativa L. spp. indica) via free proline and sugar accumulation. Pesticide Biochemistry and Physiology, 2014, 108, 27-33.	3.6	9
48	Morpho-physiological Responses of Tropical Rice to Potassium and Silicon Fertilization Under Water-Deficit Stress. Journal of Soil Science and Plant Nutrition, 2023, 23, 220-237.	3.4	9
49	Effect of salicylic acid seed priming on morpho-physiological responses and yield of baby corn under salt stress. Scientia Horticulturae, 2022, 304, 111304.	3.6	9
50	Field Screening of Sugarcane (Saccharum spp.) Mutant and Commercial Genotypes for Salt Tolerance. Notulae Botanicae Horti Agrobotanici Cluj-Napoca, 2013, 41, 286.	1.1	8
51	Regulation of some salt defense-related genes in relation to physiological and biochemical changes in three sugarcane genotypes subjected to salt stress. Protoplasma, 2015, 252, 231-243.	2.1	8
52	Regulation on anthocyanins, Î±-tocopherol and calcium in two water spinach (Ipomoea aquatica) cultivars by NaCl salt elicitor. Scientia Horticulturae, 2019, 249, 390-400.	3.6	8
53	Influence of paclobutrazol on growth performance, photosynthetic pigments, and antioxidant efficiency of Pathumthani 1 rice seedlings grown under salt stress. ScienceAsia, 2017, 43, 70.	0.5	8
54	Exogenous Glucose and Abscisic Acid Pre-treatment in Indica Rice (Oryza sativa L. spp. indica) Responses to Sodium Chloride Salt Stress. Journal of Plant Sciences, 2007, 2, 141-152.	0.2	8

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55	Salt tolerance of hybrid baby corn genotypes in relation to growth, yield, physiological, and biochemical characters. South African Journal of Botany, 2022, 147, 808-819.	2.5	8
56	Title is missing!. ScienceAsia, 2004, 30, 17.	0.5	7
57	Physio-morphological traits and osmoregulation strategies of hybrid maize (Zea mays) at the seedling stage in response to water-deficit stress. Protoplasma, 2022, 259, 869-883.	2.1	6
58	Proline, Glycinebetaine, and Trehalose Uptake and Inter-Organ Transport in Plants Under Stress. , 2019, , 201-223.		6
59	Matching of Nitrogen Enhancement and Photosynthetic Efficiency by Arbuscular Mycorrhiza in Maize (Zea mays L.) in Relation to Organic Fertilizer Type. Plants, 2022, 11, 369.	3.5	6
60	Expression level of Na+ homeostasis-related genes and salt-tolerant abilities in backcross introgression lines of rice crop under salt stress at reproductive stage. Protoplasma, 2020, 257, 1595-1606.	2.1	5
61	Characterization of macrophytes for Na⁺removal in synthetic Na-salt solution batch under greenhouse conditions. International Journal of Phytoremediation, 2021, 23, 1270-1278.	3.1	5
62	Evaluation of curcuminoids, physiological adaptation, and growth of Curcuma longa under water deficit and controlled temperature. Protoplasma, 2022, 259, 301-315.	2.1	5
63	Expression levels of genes involved in metal homeostasis, physiological adaptation, and growth characteristics of rice (Oryza sativa L.) genotypes under Fe and/or Al toxicity. Protoplasma, 2022, 259, 1013-1028.	2.1	5
64	Above-ground vegetation indices and yield attributes of rice crop using unmanned aerial vehicle combined with ground truth measurements. Notulae Botanicae Horti Agrobotanici Cluj-Napoca, 2020, 48, 2385-2398.	1.1	5
65	An Effective In-Vitro Selection of Water Spinach (Ipomoea aquatica Forsk.) for NaCl-, KH2PO4- and Temperature-Stresses. Environmental Control in Biology, 2006, 44, 265-277.	0.7	4
66	In vitro flowering of indica rice (Oryza sativa L. spp. indica). In Vitro Cellular and Developmental Biology - Plant, 2012, 48, 259-264.	2.1	4
67	Isolation, expression, and functional analysis of developmentally regulated plasma membrane polypeptide 1 (DREPP1) in Sporobolus virginicus grown under alkali salt stress. Protoplasma, 2018, 255, 1423-1432.	2.1	4
68	Influence of Different Encapsulation Types of Arbuscular Mycorrhizal Fungi on Physiological Adaptation and Growth Promotion of Maize (Zea mays L.) Subjected to Water Deficit. Notulae Botanicae Horti Agrobotanici Cluj-Napoca, 2018, 47, 213-220.	1.1	4
69	Transcriptional expression of Na+ homeostasis-related genes and physiological responses of rice seedlings under salt stress. Journal of Plant Biochemistry and Biotechnology, 2021, 30, 81-91.	1.7	4
70	Exogenous NaCl salt elicitor improves centelloside content and physio-morphological adaptations in indian pennywort (Centella asiatica). Journal of Plant Biochemistry and Biotechnology, 2022, 31, 777-787.	1.7	4
71	Arbuscular mycorrhizal fungi modulate physiological and morphological adaptations in para rubber tree (Hevea brasiliensis) under water deficit stress. Biologia (Poland), 2022, 77, 1723-1736.	1.5	4
72	Evaluation of water deficit tolerance in maize genotypes using biochemical, physio-morphological changes and yield traits as multivariate cluster analysis. Notulae Botanicae Horti Agrobotanici Cluj-Napoca, 2022, 50, 12572.	1.1	4

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73	Aluminum uptake, translocation, physiological changes, and overall growth inhibition in rice genotypes (Oryza sativa) at vegetative stage. Environmental Geochemistry and Health, 2023, 45, 187-197.	3.4	4
74	Effects of mannitol induced osmotic stress on proline accumulation, pigment degradation, photosynthetic abilities and growth characters in C3 rice and C4 sorghum. Frontiers of Agriculture in China, 2009, 3, 266-273.	0.2	3
75	Screening of Eight Eucalypt Genotypes (Eucalyptus sp.) for Water Deficit Tolerance Using Multivariate Cluster Analysis. Applied Biochemistry and Biotechnology, 2014, 173, 753-764.	2.9	3
76	Expression and functional characterization of sugar beet phosphoethanolamine/phosphocholine phosphatase under salt stress. Plant Physiology and Biochemistry, 2019, 142, 211-216.	5.8	3
77	Regulation of curcuminoids, photosynthetic abilities, total soluble sugar, and rhizome yield traits in two cultivars of turmeric (Curcuma longa) using exogenous foliar paclobutrazol. Notulae Botanicae Horti Agrobotanici Cluj-Napoca, 2021, 49, 12445.	1.1	3
78	Shoot meristem culture eliminates bacterial and fungal infections from elite varieties of turmeric (Curcuma longa L.). In Vitro Cellular and Developmental Biology - Plant, 2022, 58, 146-154.	2.1	2
79	Photosynthetic abilities, light response, and stomatal function in six agroforestry species, Dipterocarpus tuberculatus, D. alatus, Eucalyptus camaldulensis, Hevea brasiliensis, Colocasia gigantea, and C. esculenta in responses to water deficit. ScienceAsia, 2018, 44, 135.	0.5	2
80	Promotion of Mineral Contents and Antioxidant Compounds in Water Spinach Using Foliar Paclobutrazol and Salt Elicitors. Journal of Soil Science and Plant Nutrition, 0, , .	3.4	2
81	Foliar Silicon Application Regulates 2-Acetyl-1-Pyrroline Enrichment and Improves Physio-morphological Responses and Yield Attributes in Thai Jasmine Rice. Silicon, 2022, 14, 6945-6955.	3.3	1