

# Suriyan Cha-Um

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/6062394/publications.pdf>

Version: 2024-02-01

81  
papers

1,562  
citations

331538

21  
h-index

360920

35  
g-index

82  
all docs

82  
docs citations

82  
times ranked

1742  
citing authors

#	ARTICLE	IF	CITATIONS
1	Morpho-physiological Responses of Tropical Rice to Potassium and Silicon Fertilization Under Water-Deficit Stress. <i>Journal of Soil Science and Plant Nutrition</i> , 2023, 23, 220-237.	1.7	9
2	Aluminum uptake, translocation, physiological changes, and overall growth inhibition in rice genotypes ( <i>Oryza sativa</i> ) at vegetative stage. <i>Environmental Geochemistry and Health</i> , 2023, 45, 187-197.	1.8	4
3	Evaluation of curcuminoids, physiological adaptation, and growth of <i>Curcuma longa</i> under water deficit and controlled temperature. <i>Protoplasma</i> , 2022, 259, 301-315.	1.0	5
4	Shoot meristem culture eliminates bacterial and fungal infections from elite varieties of turmeric ( <i>Curcuma longa</i> L.). <i>In Vitro Cellular and Developmental Biology - Plant</i> , 2022, 58, 146-154.	0.9	2
5	Physio-morphological traits and osmoregulation strategies of hybrid maize ( <i>Zea mays</i> ) at the seedling stage in response to water-deficit stress. <i>Protoplasma</i> , 2022, 259, 869-883.	1.0	6
6	Foliar Silicon Application Regulates 2-Acetyl-1-Pyrroline Enrichment and Improves Physio-morphological Responses and Yield Attributes in Thai Jasmine Rice. <i>Silicon</i> , 2022, 14, 6945-6955.	1.8	1
7	Exogenous NaCl salt elicitor improves centelloside content and physio-morphological adaptations in indian pennywort ( <i>Centella asiatica</i> ). <i>Journal of Plant Biochemistry and Biotechnology</i> , 2022, 31, 777-787.	0.9	4
8	Expression levels of genes involved in metal homeostasis, physiological adaptation, and growth characteristics of rice ( <i>Oryza sativa</i> L.) genotypes under Fe and/or Al toxicity. <i>Protoplasma</i> , 2022, 259, 1013-1028.	1.0	5
9	Arbuscular mycorrhizal fungi modulate physiological and morphological adaptations in para rubber tree ( <i>Hevea brasiliensis</i> ) under water deficit stress. <i>Biologia (Poland)</i> , 2022, 77, 1723-1736.	0.8	4
10	Matching of Nitrogen Enhancement and Photosynthetic Efficiency by Arbuscular Mycorrhiza in Maize ( <i>Zea mays</i> L.) in Relation to Organic Fertilizer Type. <i>Plants</i> , 2022, 11, 369.	1.6	6
11	Evaluation of water deficit tolerance in maize genotypes using biochemical, physio-morphological changes and yield traits as multivariate cluster analysis. <i>Notulae Botanicae Horti Agrobotanici Cluj-Napoca</i> , 2022, 50, 12572.	0.5	4
12	Salt tolerance of hybrid baby corn genotypes in relation to growth, yield, physiological, and biochemical characters. <i>South African Journal of Botany</i> , 2022, 147, 808-819.	1.2	8
13	Effect of salicylic acid seed priming on morpho-physiological responses and yield of baby corn under salt stress. <i>Scientia Horticulturae</i> , 2022, 304, 111304.	1.7	9
14	Seed priming with salicylic acid enhances growth, physiological traits, fruit yield, and quality parameters of cantaloupe under water-deficit stress. <i>South African Journal of Botany</i> , 2022, 150, 1-12.	1.2	10
15	Transcriptional expression of Na <sup>+</sup> homeostasis-related genes and physiological responses of rice seedlings under salt stress. <i>Journal of Plant Biochemistry and Biotechnology</i> , 2021, 30, 81-91.	0.9	4
16	Morpho-physiological responses of indica rice ( <i>Oryza sativa</i> sub. indica) to aluminum toxicity at seedling stage. <i>Environmental Science and Pollution Research</i> , 2021, 28, 29321-29331.	2.7	21
17	Characterization of macrophytes for Na <sup>+</sup> removal in synthetic Na-salt solution batch under greenhouse conditions. <i>International Journal of Phytoremediation</i> , 2021, 23, 1270-1278.	1.7	5
18	Regulation of curcuminoids, photosynthetic abilities, total soluble sugar, and rhizome yield traits in two cultivars of turmeric ( <i>Curcuma longa</i> ) using exogenous foliar paclobutrazol. <i>Notulae Botanicae Horti Agrobotanici Cluj-Napoca</i> , 2021, 49, 12445.	0.5	3

#	ARTICLE	IF	CITATIONS
19	Effect of seed priming with potassium nitrate on growth, fruit yield, quality and water productivity of cantaloupe under water-deficit stress. <i>Scientia Horticulturae</i> , 2021, 288, 110354.	1.7	14
20	Foliar application of glycinebetaine regulates soluble sugars and modulates physiological adaptations in sweet potato ( <i>Ipomoea batatas</i> ) under water deficit. <i>Protoplasma</i> , 2020, 257, 197-211.	1.0	29
21	Expression levels of vacuolar ion homeostasis-related genes, Na <sup>+</sup> enrichment, and their physiological responses to salt stress in sugarcane genotypes. <i>Protoplasma</i> , 2020, 257, 525-536.	1.0	11
22	Expression level of Na <sup>+</sup> homeostasis-related genes and salt-tolerant abilities in backcross introgression lines of rice crop under salt stress at reproductive stage. <i>Protoplasma</i> , 2020, 257, 1595-1606.	1.0	5
23	Expression levels of the Na <sup>+</sup> /K <sup>+</sup> transporter OsHKT2;1 and vacuolar Na <sup>+</sup> /H <sup>+</sup> exchanger OsNHX1, Na enrichment, maintaining the photosynthetic abilities and growth performances of indica rice seedlings under salt stress. <i>Physiology and Molecular Biology of Plants</i> , 2020, 26, 513-523.	1.4	14
24	Calcium and soluble sugar enrichments and physiological adaptation to mild NaCl salt stress in sweet potato ( <i>Ipomoea batatas</i> ) genotypes. <i>Journal of Horticultural Science and Biotechnology</i> , 2020, 95, 782-793.	0.9	11
25	Alleviation of Salt Stress in Upland Rice ( <i>Oryza sativa</i> L. ssp. <i>indica</i> cv. Leum Pua) Using Arbuscular Mycorrhizal Fungi Inoculation. <i>Frontiers in Plant Science</i> , 2020, 11, 348.	1.7	47
26	Above-ground vegetation indices and yield attributes of rice crop using unmanned aerial vehicle combined with ground truth measurements. <i>Notulae Botanicae Horti Agrobotanici Cluj-Napoca</i> , 2020, 48, 2385-2398.	0.5	5
27	Expression and functional characterization of sugar beet phosphoethanolamine/phosphocholine phosphatase under salt stress. <i>Plant Physiology and Biochemistry</i> , 2019, 142, 211-216.	2.8	3
28	Exogenous Foliar Application of Glycine Betaine to Alleviate Water Deficit Tolerance in Two Indica Rice Genotypes under Greenhouse Conditions. <i>Agronomy</i> , 2019, 9, 138.	1.3	20
29	Regulation on anthocyanins, $\hat{\pm}$ -tocopherol and calcium in two water spinach ( <i>Ipomoea aquatica</i> ) cultivars by NaCl salt elicitor. <i>Scientia Horticulturae</i> , 2019, 249, 390-400.	1.7	8
30	Promoting water deficit tolerance and anthocyanin fortification in pigmented rice cultivar ( <i>Oryza</i> ) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 <i>Biology of Plants</i> , 2019, 25, 821-835.	1.4	17
31	Non-Destructive Leaf Area Estimation Model for Overall Growth Performances in Relation to Yield Attributes of Cassava ( <i>Manihot esculenta</i> Cranz) under Water Deficit Conditions. <i>Notulae Botanicae Horti Agrobotanici Cluj-Napoca</i> , 2019, 47, .	0.5	10
32	Evaluation and clustering on salt-tolerant ability in rice genotypes ( <i>Oryza sativa</i> L. subsp. <i>indica</i> ) using multivariate physiological indices. <i>Physiology and Molecular Biology of Plants</i> , 2019, 25, 473-483.	1.4	15
33	Proline, Glycinebetaine, and Trehalose Uptake and Inter-Organ Transport in Plants Under Stress. , 2019, , 201-223.		6
34	Regulation of anthocyanin accumulation in rice ( <i>Oryza sativa</i> L. subsp. <i>indica</i> ) using MgSO <sub>4</sub> spraying and low temperature. <i>Archives of Agronomy and Soil Science</i> , 2018, 64, 1663-1677.	1.3	11
35	In vitro photoautotrophic acclimatization, direct transplantation and ex vitro adaptation of rubber tree ( <i>Hevea brasiliensis</i> ). <i>Plant Cell, Tissue and Organ Culture</i> , 2018, 133, 215-223.	1.2	18
36	Isolation, expression, and functional analysis of developmentally regulated plasma membrane polypeptide 1 (DREPP1) in <i>Sporobolus virginicus</i> grown under alkali salt stress. <i>Protoplasma</i> , 2018, 255, 1423-1432.	1.0	4

#	ARTICLE	IF	CITATIONS
37	Comparative proteomics and protein profile related to phenolic compounds and antioxidant activity in germinated <i>Oryza sativa</i> KDM105™ and Thai brown rice Mali Daeng™ for better nutritional value. <i>Journal of the Science of Food and Agriculture</i> , 2018, 98, 566-573.	1.7	16
38	Influence of Different Encapsulation Types of Arbuscular Mycorrhizal Fungi on Physiological Adaptation and Growth Promotion of Maize ( <i>Zea mays</i> L.) Subjected to Water Deficit. <i>Notulae Botanicae Horti Agrobotanici Cluj-Napoca</i> , 2018, 47, 213-220.	0.5	4
39	Application of infrared thermography to assess cassava physiology under water deficit condition. <i>Plant Production Science</i> , 2018, 21, 398-406.	0.9	18
40	Photosynthetic abilities, light response, and stomatal function in six agroforestry species, <i>Dipterocarpus tuberculatus</i> , <i>D. alatus</i> , <i>Eucalyptus camaldulensis</i> , <i>Hevea brasiliensis</i> , <i>Colocasia gigantea</i> , and <i>C. esculenta</i> in responses to water deficit. <i>ScienceAsia</i> , 2018, 44, 135.	0.2	2
41	Isolation and functional characterization of 3-phosphoglycerate dehydrogenase involved in salt responses in sugar beet. <i>Protoplasma</i> , 2017, 254, 2305-2313.	1.0	17
42	Water-Deficit Tolerance in Sweet Potato [ <i>Ipomoea batatas</i> (L.) Lam.] by Foliar Application of Paclobutrazol: Role of Soluble Sugar and Free Proline. <i>Frontiers in Plant Science</i> , 2017, 8, 1400.	1.7	33
43	Influence of paclobutrazol on growth performance, photosynthetic pigments, and antioxidant efficiency of Pathumthani 1 rice seedlings grown under salt stress. <i>ScienceAsia</i> , 2017, 43, 70.	0.2	8
44	Arbuscular mycorrhizal fungi (AMF) improved water deficit tolerance in two different sweet potato genotypes involves osmotic adjustments via soluble sugar and free proline. <i>Scientia Horticulturae</i> , 2016, 198, 107-117.	1.7	126
45	Physio-biochemical and morphological characters of halophyte legume shrub, <i>Acacia ampliceps</i> seedlings in response to salt stress under greenhouse. <i>Frontiers in Plant Science</i> , 2015, 6, 630.	1.7	25
46	Regulation of some salt defense-related genes in relation to physiological and biochemical changes in three sugarcane genotypes subjected to salt stress. <i>Protoplasma</i> , 2015, 252, 231-243.	1.0	8
47	Expression of developmentally regulated plasma membrane polypeptide (DREPP2) in rice root tip and interaction with Ca <sup>2+</sup> /CaM complex and microtubule. <i>Protoplasma</i> , 2015, 252, 1519-1527.	1.0	10
48	Differential accumulation of glycinebetaine and choline monoxygenase in bladder hairs and lamina leaves of <i>Atriplex gmelini</i> under high salinity. <i>Journal of Plant Physiology</i> , 2015, 176, 101-107.	1.6	22
49	CPPU elevates photosynthetic abilities, growth performances and yield traits in salt stressed rice ( <i>Oryza sativa</i> L. spp. indica) via free proline and sugar accumulation. <i>Pesticide Biochemistry and Physiology</i> , 2014, 108, 27-33.	1.6	9
50	Expression and functional analysis of putative vacuolar Ca <sup>2+</sup> -transporters (CAXs and ACAs) in roots of salt tolerant and sensitive rice cultivars. <i>Protoplasma</i> , 2014, 251, 1067-1075.	1.0	30
51	Responses of Nipa palm ( <i>Nypa fruticans</i> ) seedlings, a mangrove species, to salt stress in pot culture. <i>Flora: Morphology, Distribution, Functional Ecology of Plants</i> , 2014, 209, 597-603.	0.6	27
52	Screening of Eight Eucalypt Genotypes ( <i>Eucalyptus</i> sp.) for Water Deficit Tolerance Using Multivariate Cluster Analysis. <i>Applied Biochemistry and Biotechnology</i> , 2014, 173, 753-764.	1.4	3
53	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. <i>Protoplasma</i> , 2013, 250, 1157-1167.	1.0	105
54	Arbuscular mycorrhiza improved growth performance in <i>Macadamia tetraphylla</i> L. grown under water deficit stress involves soluble sugar and proline accumulation. <i>Plant Growth Regulation</i> , 2013, 69, 285-293.	1.8	115

#	ARTICLE	IF	CITATIONS
55	Water-deficit tolerant identification in sweet potato genotypes ( <i>Ipomoea batatas</i> (L.) Lam.) in vegetative developmental stage using multivariate physiological indices. <i>Scientia Horticulturae</i> , 2013, 162, 242-251.	1.7	26
56	Salt tolerant screening in eucalypt genotypes ( <i>Eucalyptus</i> spp.) using photosynthetic abilities, proline accumulation, and growth characteristics as effective indices. <i>In Vitro Cellular and Developmental Biology - Plant</i> , 2013, 49, 611-619.	0.9	19
57	Field Screening of Sugarcane ( <i>Saccharum</i> spp.) Mutant and Commercial Genotypes for Salt Tolerance. <i>Notulae Botanicae Horti Agrobotanici Cluj-Napoca</i> , 2013, 41, 286.	0.5	8
58	Physio-Biochemical Responses of Oil Palm ( <i>Elaeis guineensis</i> Jacq.) Seedlings to Mannitol- and Polyethylene Glycol-Induced Iso-Osmotic Stresses. <i>Plant Production Science</i> , 2012, 15, 65-72.	0.9	13
59	Evaluating sugarcane ( <i>Saccharum</i> sp.) cultivars for water deficit tolerance using some key physiological markers. <i>Plant Biotechnology</i> , 2012, 29, 431-439.	0.5	17
60	Water-deficit tolerant classification in mutant lines of indica rice. <i>Scientia Agricola</i> , 2012, 69, 135-141.	0.6	12
61	Screening sugarcane ( <i>Saccharum</i> sp.) genotypes for salt tolerance using multivariate cluster analysis. <i>Plant Cell, Tissue and Organ Culture</i> , 2012, 110, 23-33.	1.2	32
62	In vitro flowering of indica rice ( <i>Oryza sativa</i> L. spp. indica). <i>In Vitro Cellular and Developmental Biology - Plant</i> , 2012, 48, 259-264.	0.9	4
63	Transcriptional regulations of the genes of starch metabolism and physiological changes in response to salt stress rice ( <i>Oryza sativa</i> L.) seedlings. <i>Physiology and Molecular Biology of Plants</i> , 2012, 18, 197-208.	1.4	21
64	An Alkaline Phosphatase/Phosphodiesterase, PhoD, Induced by Salt Stress and Secreted Out of the Cells of <i>Aphanothece halophytica</i> , a Halotolerant Cyanobacterium. <i>Applied and Environmental Microbiology</i> , 2011, 77, 5178-5183.	1.4	108
65	Remediation of salt-affected soil by the addition of organic matter: an investigation into improving glutinous rice productivity. <i>Scientia Agricola</i> , 2011, 68, 406-410.	0.6	54
66	Promoting root induction and growth of in vitro macadamia ( <i>Macadamia tetraphylla</i> L. 'Keaua'™) plantlets using CO <sub>2</sub> -enriched photoautotrophic conditions. <i>Plant Cell, Tissue and Organ Culture</i> , 2011, 106, 435-444.	1.2	38
67	Isolation and characterization of proline/betaine transporter gene from oil palm. <i>Tree Physiology</i> , 2011, 31, 462-468.	1.4	12
68	Effects of water stress induced by sodium chloride and mannitol on proline accumulation, photosynthetic abilities and growth characters of eucalyptus ( <i>Eucalyptus camaldulensis</i> Dehnh.). <i>New Forests</i> , 2010, 40, 349-360.	0.7	23
69	An efficient procedure for embryogenic callus induction and double haploid plant regeneration through anther culture of Thai aromatic rice ( <i>Oryza sativa</i> L. subsp. indica). <i>In Vitro Cellular and Developmental Biology - Plant</i> , 2009, 45, 171-179.	0.9	23
70	Effects of mannitol induced osmotic stress on proline accumulation, pigment degradation, photosynthetic abilities and growth characters in C3 rice and C4 sorghum. <i>Frontiers of Agriculture in China</i> , 2009, 3, 266-273.	0.2	3
71	Sugar accumulation, photosynthesis and growth of two indica rice varieties in response to salt stress. <i>Acta Physiologiae Plantarum</i> , 2009, 31, 477-486.	1.0	55
72	An effective in-vitro acclimatization using uniconazole treatments and ex-vitro adaptation of <i>Phalaenopsis</i> orchid. <i>Scientia Horticulturae</i> , 2009, 121, 468-473.	1.7	13

#	ARTICLE	IF	CITATIONS
73	Comparative Effects of Salt Stress and Extreme pH Stress Combined on Glycinebetaine Accumulation, Photosynthetic Abilities and Growth Characters of Two Rice Genotypes. <i>Rice Science</i> , 2009, 16, 274-282.	1.7	41
74	Exogenous Glucose and Abscisic Acid Pre-treatment in Indica Rice ( <i>Oryza sativa</i> L. spp. indica) Responses to Sodium Chloride Salt Stress. <i>Journal of Plant Sciences</i> , 2007, 2, 141-152.	0.2	8
75	An Effective In-Vitro Selection of Water Spinach ( <i>Ipomoea aquatica</i> Forsk.) for NaCl, KH <sub>2</sub> PO <sub>4</sub> - and Temperature-Stresses. <i>Environmental Control in Biology</i> , 2006, 44, 265-277.	0.3	4
76	Disease-free Production of Sugarcane Varieties ( <i>Saccharum officinarum</i> L.) Using in vitro Meristem Culture. <i>Biotechnology</i> , 2006, 5, 443-448.	0.5	17
77	Enhanced growth and photosynthesis of rain tree ( <i>Samanea saman</i> Merr.) plantlets in vitro under a CO <sub>2</sub> -enriched condition with decreased sucrose concentrations in the medium. <i>Scientia Horticulturae</i> , 2004, 103, 51-63.	1.7	43
78	Title is missing!. <i>ScienceAsia</i> , 2004, 30, 17.	0.2	7
79	Title is missing!. <i>ScienceAsia</i> , 2004, 30, 247.	0.2	12
80	Title is missing!. <i>ScienceAsia</i> , 2003, 29, 189.	0.2	11
81	Promotion of Mineral Contents and Antioxidant Compounds in Water Spinach Using Foliar Paclobutrazol and Salt Elicitors. <i>Journal of Soil Science and Plant Nutrition</i> , 0, , .	1.7	2