

U Surendran

List of Publications by Year in descending order

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Version: 2024-02-01

50
papers

927
citations

471061

17
h-index

525886

27
g-index

51
all docs

51
docs citations

51
times ranked

668
citing authors

#	ARTICLE	IF	CITATIONS
1	Advance molecular tools to detect plant pathogens. , 2022, , 401-416.		1
2	Hydrogeochemical characteristics of surface and groundwater: suitability for human consumption and irrigated agriculture purposes in Suruliyar sub basin, South India. Environmental Geochemistry and Health, 2022, 44, 1713-1737.	1.8	7
3	Quantifying Carbon Sequestration Potential of Soils in An Agro-Ecological Region Scale. Current Science, 2022, 120, 1334.	0.4	0
4	Assessment of compatibility of intercrops in Dalbergia sissoo based Hortisilvicultural system in Mondipatty, Manapparai block of Trichy district, Tamil Nadu. Journal of Applied and Natural Science, 2022, 14, 94-101.	0.2	1
5	Biosensors for detection of organophosphate pesticides: Current technologies and future directives. Microchemical Journal, 2022, 178, 107420.	2.3	19
6	Development and evaluation of drip irrigation and fertigation scheduling to improve water productivity and sustainable crop production using HYDRUS. Agricultural Water Management, 2022, 269, 107668.	2.4	8
7	Diatomaceous Earth as a Source of Silicon and its Impact on Soil Physical and Chemical Properties, Yield and Quality, Pests and Disease Incidence of Arabica Coffee cv. Chandragiri. Silicon, 2021, 13, 4583-4600.	1.8	7
8	Impact of Drip Fertigation on Weed Population, Dry Weight and Yield of Onion in Semiarid Tropical Region of India. The National Academy of Sciences, India, 2021, 44, 87-89.	0.8	0
9	The effect of modified pruning and planting systems on growth, yield, labour use efficiency and economics of Arabica coffee. Scientia Horticulturae, 2021, 276, 109764.	1.7	13
10	Mechanistic overview of metal tolerance in edible plants: A physiological and molecular perspective. , 2021, , 23-47.		8
11	Humic acid as foliar and soil application improve the growth, yield and quality of coffee (cv. <sc>C Ā-) Tj ETQq1 1 0.784314 rgBT /Ove and Agriculture, 2021, 101, 2273-2283.	1.7	8
12	Trend analysis of long-term rainfall and temperature data for Ethiopia. Southern African Geographical Journal, 2021, 103, 381-394.	0.9	17
13	A comparative assessment of nutrient partitioning in healthy and root (wilt) disease affected coconut palms grown in an Entisol of humid tropical Kerala. Trees - Structure and Function, 2021, 35, 621-635.	0.9	1
14	Exploring growth, physiological status, yield and water use efficiency of vegetables grown under wick method of irrigation. Plant Physiology Reports, 2021, 26, 64-73.	0.7	4
15	Ultrasonic acoustical assessment of molecular interaction in different soil texture and moisture absorbent growing media. Arabian Journal of Geosciences, 2021, 14, 1.	0.6	2
16	Use of efficient water saving techniques for production of rice in India under climate change scenario: A critical review. Journal of Cleaner Production, 2021, 309, 127272.	4.6	66
17	Assessment of water quality in a tropical Ramsar wetland of southern India in the wake of COVID-19. Remote Sensing Applications: Society and Environment, 2021, 23, 100604.	0.8	8
18	Smart controlled environment agriculture methods: a holistic review. Reviews in Environmental Science and Biotechnology, 2021, 20, 887-913.	3.9	45

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19	A review of heavy metals accumulation pathways, sources and management in soils. <i>Arabian Journal of Geosciences</i> , 2021, 14, 1.	0.6	42
20	Landuse classification of hyperspectral data by spectral angle mapper and support vector machine in humid tropical region of India. <i>Earth Science Informatics</i> , 2020, 13, 633-640.	1.6	19
21	Assessment of drought with a real-time web-based application for drought management in humid tropical Kerala, India. <i>Environmental Monitoring and Assessment</i> , 2020, 192, 728.	1.3	5
22	Evaluation of Different Soil Textures in Combination with Growing Media on Growth, Yield, and Water Productivity of Blackgram. <i>Communications in Soil Science and Plant Analysis</i> , 2020, 51, 2670-2682.	0.6	2
23	Long-term Rainfall Analysis towards Detection of Meteorological Drought over Kozhikode District of Kerala. <i>Journal of Climate Change</i> , 2019, 5, 23-34.	0.2	9
24	FAO CROPWAT Model-Based Irrigation Requirements for Coconut to Improve Crop and Water Productivity in Kerala, India. <i>Sustainability</i> , 2019, 11, 5132.	1.6	16
25	Analysis of Drought from Humid, Semi-Arid and Arid Regions of India Using DrinC Model with Different Drought Indices. <i>Water Resources Management</i> , 2019, 33, 1521-1540.	1.9	37
26	Elucidation of stage specific physiological sensitivity of okra to drought stress through leaf gas exchange, spectral indices, growth and yield parameters. <i>Agricultural Water Management</i> , 2019, 222, 92-104.	2.4	30
27	Pedogenesis of spatially associated red and black soils in Purna valley from semi-arid region of Central India. <i>Chemical Geology</i> , 2018, 483, 174-190.	1.4	3
28	Influence of Increased Temperature Along with Nutrient Management Treatments on CO ₂ Emission and Crop Productivity of Cowpea in Polyhouse Conditions Vs Natural Open Conditions Under Changing Climate Scenario. <i>International Journal of Plant Production</i> , 2018, 12, 107-114.	1.0	1
29	Influence of Open and Polyhouse Conditions on Soil Carbon Dioxide Emission from <i>Amaranthus</i> Plots with Different Nutrient Management Practices under Changing Climate Scenario. <i>Current Science</i> , 2018, 114, 1311.	0.4	3
30	Water Requirements for Horticultural Crops under Micro Irrigation. , 2018, , 3-34.		1
31	Development of Drought Indices for Semi-Arid Region Using Drought Indices Calculator (DrinC) – A Case Study from Madurai District, a Semi-Arid Region in India. <i>Water Resources Management</i> , 2017, 31, 3593-3605.	1.9	49
32	Effect of drip fertigation and polythene mulching on growth and productivity of coconut (<i>Cocos</i>) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 2017, 182, 87-93.	2.4	30
33	Hydroponic cultivation of <i>Mentha spicata</i> and comparison of biochemical and antioxidant activities with soil-grown plants. <i>Acta Physiologiae Plantarum</i> , 2017, 39, 1.	1.0	17
34	Impact of climate variability on coffee yield in India – with a micro-level case study using long-term coffee yield data of humid tropical Kerala. <i>Climatic Change</i> , 2017, 145, 335-349.	1.7	21
35	Intercropping and balanced nutrient management for sustainable cotton production. <i>Journal of Plant Nutrition</i> , 2017, 40, 632-644.	0.9	11
36	FAO-CROPWAT Model-Based Estimation of Crop Water Need and Appraisal of Water Resources for Sustainable Water Resource Management: Pilot Study for Kollam District - Humid Tropical Region of Kerala, India. <i>Current Science</i> , 2017, 112, 76.	0.4	23

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37	Climate-based statistical regression models for crop yield forecasting of coffee in humid tropical Kerala, India. <i>International Journal of Biometeorology</i> , 2016, 60, 1943-1952.	1.3	20
38	Budgeting of major nutrients and the mitigation options for nutrient mining in semi-arid tropical agro-ecosystem of Tamil Nadu, India using NUTMON model. <i>Environmental Monitoring and Assessment</i> , 2016, 188, 250.	1.3	19
39	Low cost drip irrigation: Impact on sugarcane yield, water and energy saving in semiarid tropical agro ecosystem in India. <i>Science of the Total Environment</i> , 2016, 573, 1430-1440.	3.9	41
40	The impacts of magnetic treatment of irrigation water on plant, water and soil characteristics. <i>Agricultural Water Management</i> , 2016, 178, 21-29.	2.4	94
41	Improved sugarcane productivity with tillage and trash management practices in semi arid tropical agro ecosystem in India. <i>Soil and Tillage Research</i> , 2016, 158, 10-21.	2.6	40
42	Modelling the Crop Water Requirement Using FAO-CROPWAT and Assessment of Water Resources for Sustainable Water Resource Management: A Case Study in Palakkad District of Humid Tropical Kerala, India. <i>Aquatic Procedia</i> , 2015, 4, 1211-1219.	0.9	70
43	Effect of nutrients and plant growth regulators on growth and yield of black gram in sandy loam soils of Cauvery new delta zone, India. <i>Cogent Food and Agriculture</i> , 2015, 1, 1010415.	0.6	15
44	Drip Fertigation Program on Growth, Crop Productivity, Water, and Fertilizer-Use Efficiency of Bt Cotton in Semi-arid Tropical Region of India. <i>Communications in Soil Science and Plant Analysis</i> , 2015, 46, 293-304.	0.6	27
45	Productivity, nutrient uptake and post-harvest soil fertility as influenced by cotton-based cropping system with integrated nutrient management practices in semi-arid tropics. <i>Archives of Agronomy and Soil Science</i> , 2014, 60, 87-101.	1.3	18
46	Modeling the impacts of increase in temperature on irrigation water requirements in Palakkad district: a case study in humid tropical Kerala. <i>Journal of Water and Climate Change</i> , 2014, 5, 472-485.	1.2	20
47	Pragmatic Approaches to Manage Soil Fertility in Sustainable Agriculture. <i>Journal of Agronomy</i> , 2010, 9, 57-69.	0.4	9
48	A Micro- and Meso-Level Modeling Study for Assessing Sustainability in Semi-Arid Tropical Agro Ecosystem Using. <i>Agroecology and Sustainable Food Systems</i> , 2007, 29, 151-179.	0.9	13
49	Nutrient Budgeting in Tropical Agro Ecosystem-Modeling District Scale Soil Nutrient Balance in Western Zone of Tamil Nadu Using Nutmon-Toolbox. <i>International Journal of Soil Science</i> , 2007, 2, 159-170.	0.7	7
50	Boron Adsorption on Semiarid Soils of Tamil Nadu, India. , 2007, , 331-343.		0