

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	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
2	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
3	Use of efficient water saving techniques for production of rice in India under climate change scenario: A critical review. <i>Journal of Cleaner Production</i> , 2021, 309, 127272.	4.6	66
4	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
5	Smart controlled environment agriculture methods: a holistic review. <i>Reviews in Environmental Science and Biotechnology</i> , 2021, 20, 887-913.	3.9	45
6	A review of heavy metals accumulation pathways, sources and management in soils. <i>Arabian Journal of Geosciences</i> , 2021, 14, 1.	0.6	42
7	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
8	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
9	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
10	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
11	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
12	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
13	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
14	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
15	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
16	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
17	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
18	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

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19	Biosensors for detection of organophosphate pesticides: Current technologies and future directives. <i>Microchemical Journal</i> , 2022, 178, 107420.	2.3	19
20	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
21	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
22	Trend analysis of long-term rainfall and temperature data for Ethiopia. <i>Southern African Geographical Journal</i> , 2021, 103, 381-394.	0.9	17
23	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
24	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
25	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
26	The effect of modified pruning and planting systems on growth, yield, labour use efficiency and economics of Arabica coffee. <i>Scientia Horticulturae</i> , 2021, 276, 109764.	1.7	13
27	Intercropping and balanced nutrient management for sustainable cotton production. <i>Journal of Plant Nutrition</i> , 2017, 40, 632-644.	0.9	11
28	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
29	Pragmatic Approaches to Manage Soil Fertility in Sustainable Agriculture. <i>Journal of Agronomy</i> , 2010, 9, 57-69.	0.4	9
30	Mechanistic overview of metal tolerance in edible plants: A physiological and molecular perspective. , 2021, , 23-47.		8
31	Humic acid as foliar and soil application improve the growth, yield and quality of coffee (cv. <i>C. A</i> —) Tj ETQq1 1 0.784314 rgBT /C and Agriculture, 2021, 101, 2273-2283.	1.7	8
32	Assessment of water quality in a tropical ramsar wetland of southern India in the wake of COVID-19. <i>Remote Sensing Applications: Society and Environment</i> , 2021, 23, 100604.	0.8	8
33	Development and evaluation of drip irrigation and fertigation scheduling to improve water productivity and sustainable crop production using HYDRUS. <i>Agricultural Water Management</i> , 2022, 269, 107668.	2.4	8
34	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. <i>Silicon</i> , 2021, 13, 4583-4600.	1.8	7
35	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
36	Hydrogeochemical characteristics of surface and groundwater: suitability for human consumption and irrigated agriculture purposes in Suruliyar sub basin, South India. <i>Environmental Geochemistry and Health</i> , 2022, 44, 1713-1737.	1.8	7

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37	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
38	Exploring growth, physiological status, yield and water use efficiency of vegetables grown under wick method of irrigation. <i>Plant Physiology Reports</i> , 2021, 26, 64-73.	0.7	4
39	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
40	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
41	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
42	Ultrasonic acoustical assessment of molecular interaction in different soil texture and moisture absorbent growing media. <i>Arabian Journal of Geosciences</i> , 2021, 14, 1.	0.6	2
43	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
44	A comparative assessment of nutrient partitioning in healthy and root (wilt) disease affected coconut palms grown in an Entisol of humid tropical Kerala. <i>Trees - Structure and Function</i> , 2021, 35, 621-635.	0.9	1
45	Water Requirements for Horticultural Crops under Micro Irrigation. , 2018, , 3-34.		1
46	Advance molecular tools to detect plant pathogens. , 2022, , 401-416.		1
47	Assessment of compatibility of intercrops in <i>Dalbergia sissoo</i> based Hortisilvicultural system in Mondipatty, Manapparai block of Trichy district, Tamil Nadu. <i>Journal of Applied and Natural Science</i> , 2022, 14, 94-101.	0.2	1
48	Impact of Drip Fertigation on Weed Population, Dry Weight and Yield of Onion in Semiarid Tropical Region of India. <i>The National Academy of Sciences, India</i> , 2021, 44, 87-89.	0.8	0
49	Boron Adsorption on Semiarid Soils of Tamil Nadu, India. , 2007, , 331-343.		0
50	Quantifying Carbon Sequestration Potential of Soils in An Agro-Ecological Region Scale. <i>Current Science</i> , 2022, 120, 1334.	0.4	0