

Somasundaram Jayaraman

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

60
papers

466
citations

13
h-index

20
g-index

73
ext. papers

654
ext. citations

2.3
avg, IF

3.85
L-index

#	Paper	IF	Citations
60	Impact of 47 Years of No Tillage and Stubble Retention on Soil Aggregation and Carbon Distribution in a Vertisol. <i>Land Degradation and Development</i> , 2017 , 28, 1589-1602	4.4	68
59	Effect of contrasting tillage and cropping systems on soil aggregation, carbon pools and aggregate-associated carbon in rainfed Vertisols. <i>European Journal of Soil Science</i> , 2018 , 69, 879-891	3.4	48
58	Soil Health Management under Hill Agroecosystem of North East India. <i>Applied and Environmental Soil Science</i> , 2012 , 2012, 1-9	3.8	43
57	Effects of Tillage, Residue and Fertilizer Nitrogen on Crop Yields, and Soil Physical Properties Under Soybean-Wheat Rotation in Vertisols of Central India. <i>Agricultural Research</i> , 2015 , 4, 48-56	1.4	33
56	Impact of genetically modified crops on rhizosphere microorganisms and processes: A review focusing on Bt cotton. <i>Applied Soil Ecology</i> , 2020 , 148, 103492	5	23
55	No-Till Farming and Conservation Agriculture in South Asia – Issues, Challenges, Prospects and Benefits. <i>Critical Reviews in Plant Sciences</i> , 2020 , 39, 236-279	5.6	22
54	Effect of soil aggregate size and long-term contrasting tillage, stubble and nitrogen management regimes on CO ₂ fluxes from a Vertisol. <i>Geoderma</i> , 2019 , 337, 1086-1096	6.7	21
53	Long-term Conservation Tillage Effect on Soil Organic Carbon and Available Phosphorous Content in Vertisols of Central India. <i>Agricultural Research</i> , 2016 , 5, 353-361	1.4	18
52	Cracks and Potholes in Vertisols: Characteristics, Occurrence, and Management. <i>Advances in Agronomy</i> , 2018 , 93-159	7.7	15
51	Soil carbon sequestration potential in a Vertisol in central India- results from a 43-year long-term experiment and APSIM modeling. <i>Agricultural Systems</i> , 2020 , 184, 102906	6.1	15
50	Conservation agriculture effects on soil properties and crop productivity in a semiarid region of India. <i>Soil Research</i> , 2019 , 57, 187	1.8	13
49	Disease-Suppressive Soils-Beyond Food Production: a Critical Review. <i>Journal of Soil Science and Plant Nutrition</i> , 2021 , 21, 1-29	3.2	13
48	Crop Residue Retention and Nutrient Management Practices on Stratification of Phosphorus and Soil Organic Carbon in the Soybean-Wheat System in Vertisols of Central India. <i>Communications in Soil Science and Plant Analysis</i> , 2016 , 47, 2387-2395	1.5	13
47	Soil and nutrients losses under different crop covers in vertisols of Central India. <i>Journal of Soils and Sediments</i> , 2020 , 20, 609-620	3.4	12
46	Prospects and challenges in utilization of indigenous rocks and minerals as source of potassium in farming. <i>Journal of Plant Nutrition</i> , 2019 , 42, 2682-2701	2.3	11
45	Enhancing Water and Phosphorus Use Efficiency Through Moisture Conservation Practices and Optimum Phosphorus Application in Rainfed Maize-Chickpea System in Vertisols of Central India. <i>Agricultural Research</i> , 2018 , 7, 176-186	1.4	10
44	Evaluation of spatial distribution and regional zone delineation for micronutrients in a semiarid Deccan Plateau Region of India. <i>Land Degradation and Development</i> , 2018 , 29, 2449-2459	4.4	10

43	Soil Physical Quality as Affected by Management Practices Under Maize-Wheat System. <i>The National Academy of Sciences, India</i> , 2014 , 37, 13-18	0.6	8
42	Management of black Vertisols characterized by pot-holes in the Chambal region, India. <i>Soil Use and Management</i> , 2011 , 27, 124-127	3.1	7
41	Conservation Agriculture as a System to Enhance Ecosystem Services. <i>Agriculture (Switzerland)</i> , 2021 , 11, 718	3	6
40	Long-term effects of rainwater conservation measure on improving yield, runoff use efficiency and soil properties of horti-pastoral system on the degraded ravine lands of India. <i>Agricultural Water Management</i> , 2020 , 233, 106068	5.9	5
39	Pothole Formation and Occurrence in Black Vertisols of Central and Western India. <i>Agricultural Research</i> , 2014 , 3, 87-91	1.4	4
38	Diagnosis of Micronutrient Imbalance in Lime Crop in Semi-arid Region of Rajasthan, India. <i>Communications in Soil Science and Plant Analysis</i> , 2011 , 42, 858-869	1.5	4
37	Conservation Tillage, Residue Management, and Crop Rotation Effects on Soil Major and Micro-nutrients in Semi-arid Vertisols of India. <i>Journal of Soil Science and Plant Nutrition</i> , 2021 , 21, 523-535	3.2	4
36	Climate Change Impacts on Rainfed Soybean Yield of Central India: Management Strategies Through Simulation Modelling 2015 , 39-44		3
35	50 years of continuous no-tillage, stubble retention and nitrogen fertilization enhanced macro-aggregate formation and stabilisation in a Vertisol. <i>Soil and Tillage Research</i> , 2021 , 214, 105163	6.5	3
34	Corrigendum to: Conservation agriculture effects on soil properties and crop productivity in a semiarid region of India. <i>Soil Research</i> , 2019 , 57, 200	1.8	2
33	Changes in soil organic carbon and nitrogen after 47 years with different tillage, stubble and fertiliser management in a Vertisol of north-eastern Australia. <i>Soil Research</i> , 2020 , 58, 346	1.8	2
32	Effect of sewage sludge bio-pith pellets on dry matter yield and trace metal concentration in various plant parts of forage maize. <i>Journal of Plant Nutrition</i> , 2016 , 39, 1556-1569	2.3	2
31	Using Credible Soil Loss Tolerance Value for Conservation Planning and Managing Diverse Physiographic Regions in Rajasthan. <i>Agricultural Research</i> , 2017 , 6, 169-178	1.4	2
30	Nationwide Soil Erosion Assessment in India Using Radioisotope Tracers ¹³⁷ Cs and ²¹⁰ Pb: The Need for Fallout Mapping. <i>Current Science</i> , 2018 , 115, 388	2.2	2
29	Soil organic carbon, dehydrogenase activity and fluorescein diacetate as influenced by contrasting tillage and cropping systems in Vertisols of Central India. <i>Journal of Environmental Biology</i> , 2018 , 39, 1047-1053	1.6	2
28	Soil Hydro-thermal Regimes as Affected by Different Tillage and Cropping Systems in a Rainfed Vertisol. <i>Journal of the Indian Society of Soil Science</i> , 2018 , 66, 362	1	2
27	Effect of Cultivars and Sowing Dates on Nutrient Uptake and Yield of Chickpea under Aberrant Climatic Conditions in Black Soils of Central India. <i>Advances in Research</i> , 2017 , 12, 1-11	0.1	2
26	Soil Organic Carbon Dynamics and Carbon Sequestration Under Conservation Tillage in Tropical Vertisols 2020 , 201-212		2

25	Effect of Soil Amendments and Land Use Systems on Surface Cracks, Soil Properties and Crop Yield in a Vertisol. <i>Agricultural Research</i> , 2018 , 7, 443-455	1.4	2
24	Relative Contribution of Phosphorus from Various Sources to the Upper Lake, Bhopal. <i>Water Science and Technology Library</i> , 2018 , 459-467	0.3	1
23	Ravines: Prospective Zone for Carbon Sequestration 2018 , 433-443		1
22	Root Phenotyping of Two Soybean (<i>Glycine max</i> L.) Cultivars in a Vertisol of Central India. <i>The National Academy of Sciences, India</i> , 2017 , 40, 309-313	0.6	1
21	Modeling the organic carbon dynamics in long-term fertilizer experiments of India using the Rothamsted carbon model. <i>Ecological Modelling</i> , 2021 , 450, 109562	3	1
20	Integrated Nutrient Management Affects Fruit Yield of Sapota (<i>Achras zapota</i> L.) and Nutrient Availability in a Vertisol. <i>Communications in Soil Science and Plant Analysis</i> , 2019 , 50, 2848-2863	1.5	1
19	Soil Carbon Sequestration Through Conservation Tillage and Residue Management 2021 , 299-319		1
18	Conservation Agriculture: Issues, Prospects, and Challenges in Rainfed Regions of India 2021 , 1-21		1
17	Can Conservation Agriculture Deliver Its Benefits in Arid Soils?: An Overview 2021 , 267-287		1
16	Impact of Conservation Agriculture and Residue Management on Soil Properties, Crop Productivity Under Pulse-Based Cropping Systems in Central India 2021 , 117-137		0
15	Impact of Residue Burning on Soil Biological Properties 2021 , 379-389		0
14	Intercropping and mulching in rain-dependent cotton can improve soil structure and reduce erosion. <i>Environmental Advances</i> , 2021 , 4, 100068	3.5	0
13	Methane consumption potential of soybean-wheat, maize-wheat and maize-gram cropping systems under conventional and no-tillage agriculture in a tropical vertisol. <i>Journal of Agricultural Science</i> , 2020 , 158, 38-46	1	
12	Soil, Landscape and Nutrient Management of Ravine Areas for Enhancing Crop Productivity and Livelihood Security 2018 , 161-181		
11	History of Soil Research. <i>World Soils Book Series</i> , 2020 , 17-39	0.7	
10	Potential of Agroforestry for the Rehabilitation of Degraded Ravine Lands 2020 , 229-251		
9	Participatory Soil Quality Assessment Using Low-Cost Tools under Contrasting Management Practices in a Vertisol. <i>Agricultural Research</i> , 1	1.4	
8	No-Till Farming Systems in South Asia 2020 , 459-476		

- 7 Conservation Agriculture: Carbon Turnover and Carbon Sequestration for Enhancing Soil Sustainability and Mitigation of Climate Change **2021**, 289-298
- 6 Conserving Soil and Reverting Land Degradation Through Conservation Practices with Special Emphasis on Natural Resource Conservation **2021**, 477-497
- 5 Conclusions: Perspectives on Conservation Agriculture **2021**, 623-632
- 4 Socioeconomic Challenges and Prospects in the Adoption of Conservation Agriculture Practices in India **2021**, 611-621
- 3 Inbuilt Mechanisms for Managing Weeds in Conservation Agriculture Systems: A Revisit **2021**, 73-85
- 2 Nutrient Management Strategies in the Climate Change Scenario **2021**, 407-421
- 1 Implication of Different Tillage System on Root System Architecture and Their Environment **2021**, 451-475