

# S. L. Jat

## List of Publications by Year in descending order

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Version: 2024-02-01

43  
papers

1,353  
citations

304743

22  
h-index

377865

34  
g-index

47  
all docs

47  
docs citations

47  
times ranked

1110  
citing authors

#	ARTICLE	IF	CITATIONS
1	Crop residue recycling for economic and environmental sustainability: The case of India. <i>Open Agriculture</i> , 2017, 2, 486-494.	1.7	133
2	Long term effect of conservation agriculture in maize rotations on total organic carbon, physical and biological properties of a sandy loam soil in north-western Indo-Gangetic Plains. <i>Soil and Tillage Research</i> , 2016, 161, 116-128.	5.6	127
3	Conservation agriculture in irrigated intensive maize-based systems of north-western India: Effects on crop yields, water productivity and economic profitability. <i>Field Crops Research</i> , 2016, 193, 104-116.	5.1	109
4	Bio-energy, water-use efficiency and economics of maize-wheat-mungbean system under precision-conservation agriculture in semi-arid agro-ecosystem. <i>Energy</i> , 2017, 119, 245-256.	8.8	80
5	Energy auditing and carbon footprint under long-term conservation agriculture-based intensive maize systems with diverse inorganic nitrogen management options. <i>Science of the Total Environment</i> , 2019, 664, 659-668.	8.0	64
6	Effects of precision conservation agriculture in a maize-wheat-mungbean rotation on crop yield, water-use and radiation conversion under a semiarid agro-ecosystem. <i>Agricultural Water Management</i> , 2017, 192, 306-319.	5.6	53
7	Long-term impact of conservation agriculture and diversified maize rotations on carbon pools and stocks, mineral nitrogen fractions and nitrous oxide fluxes in inceptisol of India. <i>Science of the Total Environment</i> , 2018, 640-641, 1382-1392.	8.0	52
8	Genetic Improvement of Maize in India: Retrospect and Prospects. <i>Agricultural Research</i> , 2015, 4, 325.	1.7	48
9	Changes in carbon pools and biological activities of a sandy loam soil under medium-term conservation agriculture and diversified cropping systems. <i>European Journal of Soil Science</i> , 2018, 69, 902-912.	3.9	43
10	Radiation interception, extinction coefficient and use efficiency of wheat crop at various irrigation and nitrogen levels in a semi-arid location. <i>Indian Journal of Plant Physiology</i> , 2018, 23, 416-425.	0.8	39
11	Soil quality and carbon sequestration under conservation agriculture with balanced nutrition in intensive cereal-based system. <i>Soil and Tillage Research</i> , 2020, 202, 104653.	5.6	38
12	Energy auditing of long-term conservation agriculture based irrigated intensive maize systems in semi-arid tropics of India. <i>Energy</i> , 2018, 142, 289-302.	8.8	36
13	Dynamics and temperature sensitivity of soil organic carbon mineralization under medium-term conservation agriculture as affected by residue and nitrogen management options. <i>Soil and Tillage Research</i> , 2019, 190, 175-185.	5.6	34
14	Differential response from nitrogen sources with and without residue management under conservation agriculture on crop yields, water-use and economics in maize-based rotations. <i>Field Crops Research</i> , 2019, 236, 96-110.	5.1	34
15	Invasion of Fall Armyworm (<math>Spodoptera frugiperda</math>) in India: Nature, Distribution, Management and Potential Impact. <i>Current Science</i> , 2020, 119, 44.	0.8	34
16	Dependence of temperature sensitivity of soil organic carbon decomposition on nutrient management options under conservation agriculture in a sub-tropical Inceptisol. <i>Soil and Tillage Research</i> , 2019, 190, 50-60.	5.6	33
17	Energy Budgeting, Data Envelopment Analysis and Greenhouse Gas Emission from Rice Production System: A Case Study from Puddled Transplanted Rice and Direct-Seeded Rice System of Karnataka, India. <i>Sustainability</i> , 2020, 12, 6439.	3.2	31
18	Strategies for improving nitrogen use efficiency: A review. <i>Agricultural Reviews</i> , 2017, , .	0.1	31

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19	Soil water dynamics, water productivity and radiation use efficiency of maize under multi-year conservation agriculture during contrasting rainfall events. <i>Field Crops Research</i> , 2019, 241, 107570.	5.1	28
20	Influence of pesticides and application methods on pest and predatory arthropods associated with cotton. <i>Phytoparasitica</i> , 2012, 40, 417-424.	1.2	27
21	Six years of conservation agriculture and nutrient management in maize-mustard rotation: Impact on soil properties, system productivity and profitability. <i>Field Crops Research</i> , 2021, 260, 108002.	5.1	25
22	Long-Term Conservation Agriculture and Intensified Cropping Systems: Effects on Growth, Yield, Water, and Energy-use Efficiency of Maize in Northwestern India. <i>Pedosphere</i> , 2018, 28, 952-963.	4.0	24
23	Converting primary forests to cultivated lands: Long-term effects on the vertical distribution of soil carbon and biological activity in the foothills of Eastern Himalaya. <i>Journal of Environmental Management</i> , 2022, 301, 113886.	7.8	23
24	Heat stress and yield stability of wheat genotypes under different sowing dates across agro-ecosystems in India. <i>Field Crops Research</i> , 2018, 218, 33-50.	5.1	19
25	Impact of sustainable land-use management practices on soil carbon storage and soil quality in Goa State, India. <i>Land Degradation and Development</i> , 2022, 33, 28-40.	3.9	19
26	Selection indices to identify maize ( <i>Zea mays</i> L.) hybrids adapted under drought-stress and drought-free conditions in a tropical climate. <i>Crop and Pasture Science</i> , 2016, 67, 1087.	1.5	17
27	Coated Urea Materials for Improving Yields, Profitability, and Nutrient Use Efficiencies of Aromatic Rice. <i>Global Challenges</i> , 2019, 3, 1900013.	3.6	15
28	Optimization of microwave-vacuum drying of pomegranate arils. <i>Journal of Food Measurement and Characterization</i> , 2014, 8, 398-411.	3.2	13
29	Microbiome for sustainable agriculture: a review with special reference to the corn production system. <i>Archives of Microbiology</i> , 2021, 203, 2771-2793.	2.2	13
30	Long-term conservation agriculture and best nutrient management improves productivity and profitability coupled with soil properties of a maize-chickpea rotation. <i>Scientific Reports</i> , 2021, 11, 10386.	3.3	13
31	Point placement of late vegetative stage nitrogen splits increase the productivity, N-use efficiency and profitability of tropical maize under decade long conservation agriculture. <i>European Journal of Agronomy</i> , 2022, 133, 126417.	4.1	13
32	Fodder Quality of Maize: Its Preservation. , 2014, , 153-160.		12
33	Predicting Yield and Stability Analysis of Wheat under Different Crop Management Systems across Agro-Ecosystems in India. <i>American Journal of Plant Sciences</i> , 2017, 08, 1977-2012.	0.8	10
34	Carbon footprint and economic sustainability of pearl millet-mustard system under different tillage and nutrient management practices in moisture stress conditions. <i>African Journal of Microbiology Research</i> , 2012, 6, .	0.4	10
35	Water budgeting in conservation agriculture-based sub-surface drip irrigation in tropical maize using HYDRUS-2D in South Asia. <i>Scientific Reports</i> , 2021, 11, 16770.	3.3	9
36	Comparison of Vegetation Indices from Two Ground Based Sensors. <i>Journal of the Indian Society of Remote Sensing</i> , 2018, 46, 321-326.	2.4	6

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37	Co-implementation of precision nutrient management in long-term conservation agriculture-based systems: A step towards sustainable energy-water-food nexus. <i>Energy</i> , 2022, 254, 124243.	8.8	6
38	Resource Conserving Techniques for Improving Nitrogen-Use Efficiency. , 2015, , 45-58.		5
39	Long term effect of legume intensified crop rotations and tillage practices on productivity and profitability of maize vis-a-vis soil fertility in North-Western Indo-Gangetic Plains of India. <i>Legume Research</i> , 0, , .	0.1	4
40	Wheat productivity enhancement through climate smart practices. , 2021, , 255-268.		2
41	Impact of legume intensified crop rotations and tillage practices on maize productivity vis-À-vis C and N dynamics of a sandy loam soil in north-western Indo-Gangetic Plains of India. <i>Legume Research</i> , 2017, , .	0.1	2
42	Rapid method of screening for drought stress tolerance in maize ( <i>Zea mays</i> L.). <i>Indian Journal of Genetics and Plant Breeding</i> , 2020, 80, .	0.5	1
43	Effect of Supplementation of HQPM-1 Maize Grain on Production Performances in Cross Bred (Hampshire x Chungroo) Grower Pigs. <i>International Journal of Current Microbiology and Applied Sciences</i> , 2020, 9, 1762-1767.	0.1	0