

# Virender Kumar

## List of Publications by Year in Descending Order

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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.

54  
papers

1,671  
citations

18  
h-index

40  
g-index

58  
ext. papers

2,100  
ext. citations

4.3  
avg, IF

4.86  
L-index

#	Paper	IF	Citations
54	Spatio-temporal analysis of water quality for pesticides and other agricultural pollutants in Deduru Oya river basin of Sri Lanka. <i>Journal of Cleaner Production</i> , <b>2022</b> , 330, 129897	10.3	7
53	Outburst of pest populations in rice-based cropping systems under conservation agricultural practices in the middle Indo-Gangetic Plains of South Asia.. <i>Scientific Reports</i> , <b>2022</b> , 12, 3753	4.9	1
52	Tillage and crop establishment effects on weeds and productivity of a rice-wheat-mungbean rotation. <i>Field Crops Research</i> , <b>2022</b> , 284, 108577	5.5	0
51	Assessing Potential Environmental Impacts of Pesticide Usage in Paddy Ecosystems: A Case Study in the Deduru Oya River Basin, Sri Lanka. <i>Environmental Toxicology and Chemistry</i> , <b>2021</b> , 41, 343	3.8	0
50	Seed Priming with Potassium Nitrate and Gibberellic Acid Enhances the Performance of Dry Direct Seeded Rice ( <i>Oryza sativa</i> L.) in North-Western India. <i>Agronomy</i> , <b>2021</b> , 11, 849	3.6	5
49	An impact of agronomic practices of sustainable rice-wheat crop intensification on food security, economic adaptability, and environmental mitigation across eastern Indo-Gangetic Plains. <i>Field Crops Research</i> , <b>2021</b> , 267, 108164	5.5	5
48	Potential of conservation agriculture modules for energy conservation and sustainability of rice-based production systems of Indo-Gangetic Plain region. <i>Environmental Science and Pollution Research</i> , <b>2021</b> , 28, 246-261	5.1	13
47	Weedy rice ( <i>Oryza</i> spp.) <b>2021</b> , 285-309		1
46	Crop Establishment and Weed Control Options for Sustaining Dry Direct Seeded Rice Production in Eastern India. <i>Agronomy</i> , <b>2021</b> , 11, 389	3.6	7
45	Can yield, soil C and aggregation be improved under long-term conservation agriculture in the eastern Indo-Gangetic plain of India?. <i>European Journal of Soil Science</i> , <b>2021</b> , 72, 1742-1761	3.4	4
44	Climate-smart agriculture practices influence weed density and diversity in cereal-based agri-food systems of western Indo-Gangetic plains. <i>Scientific Reports</i> , <b>2021</b> , 11, 15901	4.9	3
43	Land gradient and configuration effects on yield, irrigation amount and irrigation water productivity in rice-wheat and maize-wheat cropping systems in Eastern India. <i>Agricultural Water Management</i> , <b>2021</b> , 255, 107036	5.9	2
42	Factors contributing to farm-level productivity and household income generation in coastal Bangladesh's rice-based farming systems. <i>PLoS ONE</i> , <b>2021</b> , 16, e0256694	3.7	3
41	Understanding decision processes in becoming a fee-for-hire service provider: A case study on direct seeded rice in Bihar, India. <i>Journal of Rural Studies</i> , <b>2021</b> , 87, 254-266	4.2	3
40	Intercomparison of crop establishment methods for improving yield and profitability in the rice-wheat system of Eastern India. <i>Field Crops Research</i> , <b>2020</b> , 250, 107776	5.5	17
39	Trans-Disciplinary Responses to Climate Change: Lessons from Rice-Based Systems in Asia. <i>Climate</i> , <b>2020</b> , 8, 35	3.1	9
38	Crop and Residue Management Improves Productivity and Profitability of Rice-Maize System in Salt-Affected Rainfed Lowlands of East India. <i>Agronomy</i> , <b>2020</b> , 10, 2019	3.6	3

37	Viable weed seed density and diversity in soil and crop productivity under conservation agriculture practices in rice-based cropping systems. <i>Crop Protection</i> , <b>2020</b> , 136, 105210	2.7	7
36	Characterization of cropping practices, pest constraints, and yield variation in irrigated lowland rice of Cambodia. <i>Crop Protection</i> , <b>2020</b> , 135, 104906	2.7	7
35	Transforming labor requirement, crop yield, and profitability with precision dry-direct seeding of rice and integrated weed management in Eastern India. <i>Field Crops Research</i> , <b>2020</b> , 259, 107961	5.5	3
34	Designing profitable, resource use efficient and environmentally sound cereal based systems for the Western Indo-Gangetic plains. <i>Scientific Reports</i> , <b>2020</b> , 10, 19267	4.9	13
33	Tillage and crop establishment options for enhancing the productivity, profitability, and resource use efficiency of rice-rabi systems of the salt-affected coastal lowlands of eastern India. <i>Field Crops Research</i> , <b>2020</b> , 247, 107494	5.5	8
32	Weed management practices of smallholder rice farmers in Northwest Cambodia. <i>Crop Protection</i> , <b>2020</b> , 135, 104793	2.7	15
31	Taking the climate risk out of transplanted and direct seeded rice: Insights from dynamic simulation in Eastern India. <i>Field Crops Research</i> , <b>2019</b> , 239, 92-103	5.5	17
30	Do field-level practices of Cambodian farmers prompt a pesticide lock-in?. <i>Field Crops Research</i> , <b>2019</b> , 235, 68-78	5.5	11
29	Agronomic, economic, and environmental performance of nitrogen rates and source in Bangladesh's coastal rice agroecosystems. <i>Field Crops Research</i> , <b>2019</b> , 241, 107567	5.5	11
28	Impact of conservation tillage in rice-based cropping systems on soil aggregation, carbon pools and nutrients. <i>Geoderma</i> , <b>2019</b> , 340, 104-114	6.7	65
27	Effect of moisture regimes and sowing dates on wheat physiological process and yield attributes under rain-fed ecosystem in Eastern Indo Gangetic Plain. <i>Plant Physiology Reports</i> , <b>2019</b> , 24, 46-53	1.4	2
26	Comparative assessment of the relative proportion of weed morphology, diversity, and growth under new generation tillage and crop establishment techniques in rice-based cropping systems. <i>Crop Protection</i> , <b>2018</b> , 111, 23-32	2.7	14
25	Assessing soil properties and nutrient availability under conservation agriculture practices in a reclaimed sodic soil in cereal-based systems of North-West India. <i>Archives of Agronomy and Soil Science</i> , <b>2018</b> , 64, 531-545	2	99
24	Productivity trade-off with different water regimes and genotypes of rice under non-puddled conditions in Eastern India. <i>Field Crops Research</i> , <b>2018</b> , 222, 218-229	5.5	17
23	Can productivity and profitability be enhanced in intensively managed cereal systems while reducing the environmental footprint of production? Assessing sustainable intensification options in the breadbasket of India. <i>Agriculture, Ecosystems and Environment</i> , <b>2018</b> , 252, 132-147	5.7	99
22	Optimizing Sowing and Flooding Depth for Anaerobic Germination-Tolerant Genotypes to Enhance Crop Establishment, Early Growth, and Weed Management in Dry-Seeded Rice (L.). <i>Frontiers in Plant Science</i> , <b>2018</b> , 9, 1654	6.2	11
21	Preventive Weed Management in Direct-Seeded Rice. <i>Advances in Agronomy</i> , <b>2017</b> , 144, 45-142	7.7	22
20	Evaluation of long-term conservation agriculture and crop intensification in rice-wheat rotation of Indo-Gangetic Plains of South Asia: Carbon dynamics and productivity. <i>European Journal of Agronomy</i> , <b>2017</b> , 90, 198-208	5	42

19	Growing Rice in Eastern India: New Paradigms of Risk Reduction and Improving Productivity <b>2017</b> , 221-258	6
18	Quantifying changes to the global warming potential of rice wheat systems with the adoption of conservation agriculture in northwestern India. <i>Agriculture, Ecosystems and Environment</i> , <b>2016</b> , 219, 125-137	28
17	Agronomic improvements can make future cereal systems in South Asia far more productive and result in a lower environmental footprint. <i>Global Change Biology</i> , <b>2016</b> , 22, 1054-74	11.4 50
16	Critical period for weed control in field pea. <i>Legume Research</i> , <b>2015</b> ,	1 2
15	Assessing the performance of the photo-acoustic infrared gas monitor for measuring CO(2), N(2)O, and CH(4) fluxes in two major cereal rotations. <i>Global Change Biology</i> , <b>2014</b> , 20, 287-99	11.4 17
14	Reprint of Optimizing intensive cereal-based cropping systems addressing current and future drivers of agricultural change in the Northwestern Indo-Gangetic Plains of India <i>Agriculture, Ecosystems and Environment</i> , <b>2014</b> , 187, 33-46	5.7 28
13	Optimizing intensive cereal-based cropping systems addressing current and future drivers of agricultural change in the northwestern Indo-Gangetic Plains of India. <i>Agriculture, Ecosystems and Environment</i> , <b>2013</b> , 177, 85-97	5.7 138
12	Weed Management Strategies to Reduce Herbicide Use in Zero-Till Rice-Wheat Cropping Systems of the Indo-Gangetic Plains. <i>Weed Technology</i> , <b>2013</b> , 27, 241-254	1.4 56
11	Buckwheat Residue Effects on Emergence and Growth of Weeds in Winter-Wheat ( <i>Triticum aestivum</i> ) Cropping Systems. <i>Weed Science</i> , <b>2011</b> , 59, 567-573	2 14
10	Tillage and Crop Establishment Affects Sustainability of South Asian Rice-Wheat System. <i>Agronomy Journal</i> , <b>2011</b> , 103, 961-971	2.2 126
9	Stability analysis of farmer participatory trials for conservation agriculture using mixed models. <i>Field Crops Research</i> , <b>2011</b> , 121, 450-459	5.5 27
8	Grass-Legume Mixtures and Soil Fertility Affect Cover Crop Performance and Weed Seed Production. <i>Weed Technology</i> , <b>2011</b> , 25, 473-479	1.4 41
7	Direct Seeding of Rice. <i>Advances in Agronomy</i> , <b>2011</b> , 111, 297-413	7.7 340
6	Effect of Tillage and Crop Establishment Methods on Physical Properties of a Medium-Textured Soil under a Seven-Year Rice-Wheat Rotation. <i>Soil Science Society of America Journal</i> , <b>2011</b> , 75, 1851-1862	2.5 165
5	Suppression of Powell Amaranth ( <i>Amaranthus powellii</i> ) by Buckwheat Residues: Role of Allelopathy. <i>Weed Science</i> , <b>2009</b> , 57, 66-73	2 24
4	Effects of Spring-sown Cover Crops on Establishment and Growth of Hairy Galinsoga ( <i>Galinsoga ciliata</i> ) and Four Vegetable Crops. <i>Hortscience: A Publication of the American Society for Horticultural Science</i> , <b>2009</b> , 44, 730-736	2.4 21
3	Suppression of Powell Amaranth ( <i>Amaranthus powellii</i> ), Shepherd's-Purse ( <i>Capsella bursa-pastoris</i> ), and Corn Chamomile ( <i>Anthemis arvensis</i> ) by Buckwheat Residues: Role of Nitrogen and Fungal Pathogens. <i>Weed Science</i> , <b>2008</b> , 56, 271-280	2 26
2	Mile-a-Minute ( <i>Polygonum perfoliatum</i> ): An Increasingly Problematic Invasive Species <sup>1</sup> . <i>Weed Technology</i> , <b>2005</b> , 19, 1071-1077	1.4 14

1	Integrated weed management in transplanted rice: Options for addressing labor constraints and improving farmers' income in Bangladesh. <i>Weed Technology</i> ,1-34	1.4	○
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