

# Virender Kumar

## List of Publications by Citations

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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	Direct Seeding of Rice. <i>Advances in Agronomy</i> , <b>2011</b> , 111, 297-413	7.7	340
53	Effect of Tillage and Crop Establishment Methods on Physical Properties of a Medium-Textured Soil under a Seven-Year RiceWheat Rotation. <i>Soil Science Society of America Journal</i> , <b>2011</b> , 75, 1851-1862	2.5	165
52	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
51	Tillage and Crop Establishment Affects Sustainability of South Asian RiceWheat System. <i>Agronomy Journal</i> , <b>2011</b> , 103, 961-971	2.2	126
50	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
49	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
48	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
47	Weed Management Strategies to Reduce Herbicide Use in Zero-Till RiceWheat Cropping Systems of the Indo-Gangetic Plains. <i>Weed Technology</i> , <b>2013</b> , 27, 241-254	1.4	56
46	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
45	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
44	GrassLegume 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
43	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	5.7	28
42	Reprint of Optimizing intensive cereal-based cropping systems addressing current and future drivers of agricultural change in the Northwestern Indo-Gangetic Plains of India Agriculture, Ecosystems and Environment, <b>2014</b> , 187, 33-46	5.7	28
41	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
40	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
39	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
38	Preventive Weed Management in Direct-Seeded Rice. <i>Advances in Agronomy</i> , <b>2017</b> , 144, 45-142	7.7	22

37	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
36	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
35	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
34	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
33	Assessing the performance of the photo-acoustic infrared gas monitor for measuring CO <sub>2</sub> , N <sub>2</sub> O, and CH <sub>4</sub> fluxes in two major cereal rotations. <i>Global Change Biology</i> , <b>2014</b> , 20, 287-99	11.4	17
32	Weed management practices of smallholder rice farmers in Northwest Cambodia. <i>Crop Protection</i> , <b>2020</b> , 135, 104793	2.7	15
31	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
30	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
29	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
28	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
27	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
26	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
25	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
24	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
23	Trans-Disciplinary Responses to Climate Change: Lessons from Rice-Based Systems in Asia. <i>Climate</i> , <b>2020</b> , 8, 35	3.1	9
22	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
21	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
20	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

19	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
18	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
17	Growing Rice in Eastern India: New Paradigms of Risk Reduction and Improving Productivity <b>2017</b> , 221-258		6
16	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
15	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
14	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
13	Crop and Residue Management Improves Productivity and Profitability of RiceMaize System in Salt-Affected Rainfed Lowlands of East India. <i>Agronomy</i> , <b>2020</b> , 10, 2019	3.6	3
12	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
11	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
10	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
9	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
8	Critical period for weed control in field pea. <i>Legume Research</i> , <b>2015</b> ,	1	2
7	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
6	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
5	Weedy rice ( <i>Oryza</i> spp.) <b>2021</b> , 285-309		1
4	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
3	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
2	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	0

- 1 Tillage and crop establishment effects on weeds and productivity of a rice-wheat-mungbean rotation. *Field Crops Research*, **2022**, 284, 108577 5.5 ○