Balwinder-Singh

List of Publications by Year
in descending order

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41 papers	2,352 citations	270111 25 h-index	312153 41 g-index
42 all docs	42 docs citations	42 times ranked	2848 citing authors

#	Article	IF	Citations
1	Prior crop season management constrains farmer adaptation to warming temperatures: Evidence from the Indo-Gangetic Plains. Science of the Total Environment, 2022, 807, 151671.	3.9	8
2	Seasonal patterns in rice and wheat residue burning and surface PM2.5 concentration in northern India. Atmospheric Environment: X, 2022, 13, 100154.	0.8	2
3	Conservation Agriculture Benefits Indian Farmers, but Technology Targeting Needed for Greater Impacts. Frontiers in Agronomy, 2022, 4, .	1.5	7
4	Narrowing maize yield gaps in the rainfed plateau region of Odisha. Experimental Agriculture, 2022, 58, .	0.4	1
5	Social-ecological analysis of timely rice planting in Eastern India. Agronomy for Sustainable Development, 2021, 41, 14.	2.2	10
6	Groundwater depletion will reduce cropping intensity in India. Science Advances, 2021, 7, .	4.7	87
7	Using Sentinel-1, Sentinel-2, and Planet Imagery to Map Crop Type of Smallholder Farms. Remote Sensing, 2021, 13, 1870.	1.8	34
8	Effects of tillage and mulch on soil evaporation in a dry seeded rice-wheat cropping system. Soil and Tillage Research, 2021, 209, 104976.	2.6	7
9	The impact of groundwater depletion on agricultural production in India. Environmental Research Letters, 2021, 16, 085003.	2.2	33
10	Using Sentinel-2 to Track Field-Level Tillage Practices at Regional Scales in Smallholder Systems. Remote Sensing, 2021, 13, 5108.	1.8	4
11	Agricultural labor, COVID-19, and potential implications for food security and air quality in the breadbasket of India. Agricultural Systems, 2020, 185, 102954.	3.2	58
12	Transforming labor requirement, crop yield, and profitability with precision dry-direct seeding of rice and integrated weed management in Eastern India. Field Crops Research, 2020, 259, 107961.	2.3	11
13	Intercomparison of crop establishment methods for improving yield and profitability in the rice-wheat system of Eastern India. Field Crops Research, 2020, 250, 107776.	2.3	29
14	Indian agriculture, air pollution, and public health in the age of COVID. World Development, 2020, 135, 105064.	2.6	15
15	Factors Constraining Timely Sowing of Wheat as an Adaptation to Climate Change in Eastern India. Weather, Climate, and Society, 2020, 12, 515-528.	0.5	15
16	Tradeoffs between groundwater conservation and air pollution from agricultural fires in northwest India. Nature Sustainability, 2019, 2, 580-583.	11.5	41
17	Taking the climate risk out of transplanted and direct seeded rice: Insights from dynamic simulation in Eastern India. Field Crops Research, 2019, 239, 92-103.	2.3	30
18	Estimating soil evaporation in dry seeded rice and wheat crops after wetting events. Agricultural Water Management, 2019, 217, 98-106.	2.4	13

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19	The impact of agricultural interventions can be doubled by using satellite data. Nature Sustainability, 2019, 2, 931-934.	11.5	37
20	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. Agriculture, Ecosystems and Environment, 2018, 252, 132-147.	2.5	144
21	Role of Modelling in International Crop Research: Overview and Some Case Studies. Agronomy, 2018, 8, 291.	1.3	36
22	Evaluation of the APSIM model in cropping systems of Asia. Field Crops Research, 2017, 204, 52-75.	2.3	170
23	Using satellite data to identify the causes of and potential solutions for yield gaps in Indiaâ€™s Wheat Belt. Environmental Research Letters, 2017, 12, 094011.	2.2	72
24	Mapping Smallholder Wheat Yields and Sowing Dates Using Micro-Satellite Data. Remote Sensing, 2016, 8, 860.	1.8	74
25	Evaluation of the effects of mulch on optimum sowing date and irrigation management of zero till wheat in central Punjab, India using APSIM. Field Crops Research, 2016, 197, 83-96.	2.3	65
26	A taxonomy-based approach to shed light on the babel of mathematical models for rice simulation. Environmental Modelling and Software, 2016, 85, 332-341.	1.9	18
27	Effects of tillage and mulch on the growth, yield and irrigation water productivity of a dry seeded rice-wheat cropping system in north-west India. Field Crops Research, 2016, 196, 219-236.	2.3	39
28	Uncertainties in predicting rice yield by current crop models under a wide range of climatic conditions. Global Change Biology, 2015, 21, 1328-1341.	4.2	339
29	Options for increasing the productivity of the riceâ€“wheat system of north-west India while reducing groundwater depletion. Part 1. Rice variety duration, sowing date and inclusion of mungbean. Field Crops Research, 2015, 173, 68-80.	2.3	48
30	Options for increasing the productivity of the riceâ€“wheat system of north west India while reducing groundwater depletion. Part 2. Is conservation agriculture the answer?. Field Crops Research, 2015, 173, 81-94.	2.3	41
31	A statistical analysis of three ensembles of crop model responses to temperature and CO2 concentration. Agricultural and Forest Meteorology, 2015, 214-215, 483-493.	1.9	31
32	Applicability of APSIM to capture the effectiveness of irrigation management decisions in rice-based cropping sequence in the Upper-Gangetic Plains of India. Paddy and Water Environment, 2015, 13, 325-335.	1.0	12
33	Simulation of the evaporation of soil water beneath a wheat crop canopy. Agricultural Water Management, 2014, 135, 19-26.	2.4	21
34	Effective Management of Scarce Water Resources in North-West India. , 2013, , 103-125.		3
35	The effect of rice straw mulch on evapotranspiration, transpiration and soil evaporation of irrigated wheat in Punjab, India. Agricultural Water Management, 2011, 98, 1847-1855.	2.4	141
36	Growth, yield and water productivity of zero till wheat as affected by rice straw mulch and irrigation schedule. Field Crops Research, 2011, 121, 209-225.	2.3	121

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37	The effects of mulch and irrigation management on wheat in Punjab, Indiaâ€"Evaluation of the APSIM model. Field Crops Research, 2011, 124, 1-13.	2.3	61
38	Factors affecting irrigation water savings in raised beds in rice and wheat. Field Crops Research, 2010, 118, 43-50.	2.3	32
39	Halting the Groundwater Decline in North-West Indiaâ€"Which Crop Technologies will be Winners?. Advances in Agronomy, 2010, , 155-217.	2.4	216
40	Crop performance in permanent raised bed riceâ€"wheat cropping system in Punjab, India. Field Crops Research, 2009, 110, 1-20.	2.3	64
41	The Happy Seeder enables direct drilling of wheat into rice stubble. Australian Journal of Experimental Agriculture, 2007, 47, 844.	1.0	161