Upendra Singh

List of Publications by Citations

51 papers	3,959 citations	22 h-index	53 g-index
53 ext. papers	4,726 ext. citations	4.9 avg, IF	5.09 L-index

#	Paper	IF	Citations
51	The DSSAT cropping system model. *European Journal of Agronomy*, **2003**, 18, 235-265	5	2393
50	Uncertainties in predicting rice yield by current crop models under a wide range of climatic conditions. *Global Change Biology*, **2015**, 21, 1328-41	11.4	260
49	Composite micronutrient nanoparticles and salts decrease drought stress in soybean. *Agronomy for Sustainable Development*, **2017**, 37, 1	6.8	113
48	Zinc oxide nanoparticles alleviate drought-induced alterations in sorghum performance, nutrient acquisition, and grain fortification. *Science of the Total Environment*, **2019**, 688, 926-934	10.2	100
47	Impacts of urea deep placement on nitrous oxide and nitric oxide emissions from rice fields in Bangladesh. *Geoderma*, **2015**, 259-260, 370-379	6.7	73
46	Development of fertilizers for enhanced nitrogen use efficiency - Trends and perspectives. *Science of the Total Environment*, **2020**, 731, 139113	10.2	73
45	Facile Coating of Urea With Low-Dose ZnO Nanoparticles Promotes Wheat Performance and Enhances Zn Uptake Under Drought Stress. *Frontiers in Plant Science*, **2020**, 11, 168	6.2	65
44	Floodwater ammonium, nitrogen use efficiency and rice yields with fertilizer deep placement and alternate wetting and drying under triple rice cropping systems. *Nutrient Cycling in Agroecosystems*, **2016**, 104, 53-66	3.3	59
43	Rice Growth, Grain Yield, and Floodwater Nutrient Dynamics as Affected by Nutrient Placement Method and Rate. *Agronomy Journal*, **2008**, 100, 526-536	2.2	58
42	Interactive effects of drought, organic fertilizer, and zinc oxide nanoscale and bulk particles on wheat performance and grain nutrient accumulation. *Science of the Total Environment*, **2020**, 722, 137808	10.2	53
41	Effects of Manganese Nanoparticle Exposure on Nutrient Acquisition in Wheat (Triticum aestivum L.). *Agronomy*, **2018**, 8, 158	3.6	52
40	Modeling Soil and Plant Phosphorus Dynamics in Calcareous and Highly Weathered Soils. *Soil Science Society of America Journal*, **1989**, 53, 153-158	2.5	51
39	Modeling soil and plant phosphorus within DSSAT. *Ecological Modelling*, **2010**, 221, 2839-2849	3	44
38	Different nitrogen rates and methods of application for dry season rice cultivation with alternate wetting and drying irrigation: Fate of nitrogen and grain yield. *Agricultural Water Management*, **2018**, 196, 144-153	5.9	42
37	Exposure to Weathered and Fresh Nanoparticle and Ionic Zn in Soil Promotes Grain Yield and Modulates Nutrient Acquisition in Wheat (Triticum aestivum L.). *Journal of Agricultural and Food Chemistry*, **2018**, 66, 9645-9656	5.7	41
36	Addition-omission of zinc, copper, and boron nano and bulk oxide particles demonstrate element and size -specific response of soybean to micronutrients exposure. *Science of the Total Environment* , **2019**, 665, 606-616	10.2	40
35	Fertilizer Deep Placement Increases Rice Production: Evidence from Farmers Fields in Southern Bangladesh. *Agronomy Journal*, **2016**, 108, 805-812	2.2	40

34	Application of a Maize Crop Simulation Model in the Central Region of Malawi. *Experimental Agriculture*, **1995**, 31, 213-226	1.7	36
33	Rice yields and nitrogen use efficiency with different fertilizers and water management under intensive lowland rice cropping systems in Bangladesh. *Nutrient Cycling in Agroecosystems*, **2016**, 106, 143-156	3.3	30
32	Causes of variation among rice models in yield response to CO examined with Free-Air CO Enrichment and growth chamber experiments. *Scientific Reports*, **2017**, 7, 14858	4.9	29
31	Nitrous oxide and nitric oxide emissions and nitrogen use efficiency as affected by nitrogen placement in lowland rice fields. *Nutrient Cycling in Agroecosystems*, **2018**, 110, 277-291	3.3	26
30	Development and Validation of a Phosphate Rock Decision Support System. *Agronomy Journal*, **2006**, 98, 471-483	2.2	25
29	An Overview of CERES-Sorghum as Implemented in the Cropping System Model Version 4.5. *Agronomy Journal*, **2015**, 107, 1987-2002	2.2	22
28	Effects of water management on greenhouse gas emissions from farmers' rice fields in Bangladesh. *Science of the Total Environment*, **2020**, 734, 139382	10.2	22
27	Nitrogen Transformation, Ammonia Volatilization Loss, and Nitrate Leaching in Organically Enhanced Nitrogen Fertilizers Relative to Urea. *Soil Science Society of America Journal*, **2012**, 76, 1842-1854	2.5	20
26	Nitrogen dynamics and crop growth on an alfisol and a vertisol under rainfed lowland rice-based cropping system. *Field Crops Research*, **1999**, 61, 237-252	5.5	19
25	Using Crop Models for Sustainability and Environmental Quality Assessment. *Outlook on Agriculture*, **1992**, 21, 209-218	2.9	18
24	Modelling climate change impacts on maize yields under low nitrogen input conditions in sub-Saharan Africa. *Global Change Biology*, **2020**, 26, 5942-5964	11.4	16
23	A taxonomy-based approach to shed light on the babel of mathematical models for rice simulation. *Environmental Modelling and Software*, **2016**, 85, 332-341	5.2	15
22	Nitrogen dynamics and crop growth on an Alfisol and a Vertisol under a direct-seeded rainfed lowland rice-based system. *Field Crops Research*, **2001**, 70, 185-199	5.5	15
21	Movement and Retention of NH4-N in Wetland Rice Soils as Affected by Urea Application Methods. *Journal of Soil Science and Plant Nutrition*, **2020**, 20, 589-597	3.2	12
20	Field evaluation of agronomic effectiveness of multi-nutrient fertilizer briquettes for upland crop production. *Nutrient Cycling in Agroecosystems*, **2018**, 110, 395-406	3.3	11
19	Relative Agronomic Effectiveness of Phosphate Rock Compared With Triple Superphosphate for Initial Canola, Wheat, or Ryegrass, and Residual Wheat in Two Acid Soils. *Soil Science*, **2010**, 175, 36-43	0.9	10
18	Increasing nitrogen use efficiency in rice through fertilizer application method under rainfed drought conditions in Nepal. *Nutrient Cycling in Agroecosystems*, **2020**, 118, 103-114	3.3	10
17	Nitrous oxide and nitric oxide emissions from lowland rice cultivation with urea deep placement and alternate wetting and drying irrigation. *Scientific Reports*, **2018**, 8, 17623	4.9	10

16	Minimizing nutrient leaching from maize production systems in northern Ghana with one-time application of multi-nutrient fertilizer briquettes. *Science of the Total Environment*, **2019**, 694, 133667	10.2	7
15	Mitigating N2O and NO Emissions from Direct-Seeded Rice with Nitrification Inhibitor and Urea Deep Placement. *Rice Science*, **2020**, 27, 434-444	3.8	7
14	Agronomic effectiveness of an organically enhanced nitrogen fertilizer. *Nutrient Cycling in Agroecosystems*, **2017**, 108, 149-161	3.3	6
13	Quantifying nitric oxide emissions under rice-wheat cropping systems. *Environmental Pollution*, **2019**, 250, 856-862	9.3	6
12	Application timing of urea supergranules for climate-resilient maize cultivars grown in Northern Ghana. *Journal of Plant Nutrition*, **2020**, 43, 949-964	2.3	6
11	Nitrogen uptake kinetics of key staple cereal crops in different agro-ecological regions of the world. *Journal of Plant Nutrition*, **2017**, 40, 995-1023	2.3	5
10	Evaluation of Fused Ammonium Sulfate Nitrate Fertilizer for Crop Production. *Soil Science*, **2013**, 178, 79-86	0.9	4
9	Mitigating greenhouse gas emissions from irrigated rice cultivation through improved fertilizer and water management.. *Journal of Environmental Management*, **2022**, 307, 114520	7.9	4
8	Real-time nitrogen management using decision support-tools increases nitrogen use efficiency of rice. *Nutrient Cycling in Agroecosystems*, **2021**, 119, 355-368	3.3	4
7	Evaluation of Fiji phosphate rocks: Chemical and mineralogical properties of samples from the Lau group. *Fertilizer Research*, **1990**, 23, 181-190		2
6	Maize Grain Composition with Additions of NPK Briquette and Organically Enhanced N Fertilizer. *Agronomy*, **2020**, 10, 852	3.6	1
5	Separating Nitrogen Polymers from Urea in Ureaform Fertilizer to Study Soil Nitrogen Transformations. *Soil Science Society of America Journal*, **2011**, 75, 1574-1577	2.5	1
4	Resilient rice fertilization strategy for submergence-prone savanna agro-ecological zones of Northern Ghana. *Journal of Plant Nutrition*, **2020**, 43, 965-986	2.3	1
3	Agronomic effectiveness of urea deep placement technology for upland maize production. *Nutrient Cycling in Agroecosystems*, **2020**, 116, 179-193	3.3	1
2	Changes of Soil Microbial Population and Structure Under Short-term Application of an Organically Enhanced Nitrogen Fertilizer. *Soil Science*, **2016**, 181, 494-502	0.9	1
1	Ameliorating incongruent effects of balanced fertilization on maize productivity in strongly acid soils with liming. *Journal of Plant Nutrition*, 1-14	2.3	