Upendra Singh

List of Publications by Year
in descending order

53 papers	5,648 citations	201674 27 h-index	182427 51 g-index
53 all docs	53 docs citations	53 times ranked	5390 citing authors

#	Article	IF	Citations
1	The DSSAT cropping system model. European Journal of Agronomy, 2003, 18, 235-265.	4.1	3,085
2	Uncertainties in predicting rice yield by current crop models under a wide range of climatic conditions. Global Change Biology, 2015, 21, 1328-1341.	9.5	339
3	Zinc oxide nanoparticles alleviate drought-induced alterations in sorghum performance, nutrient acquisition, and grain fortification. Science of the Total Environment, 2019, 688, 926-934.	8.0	196
4	Development of fertilizers for enhanced nitrogen use efficiency â€“ Trends and perspectives. Science of the Total Environment, 2020, 731, 139113.	8.0	191
5	Composite micronutrient nanoparticles and salts decrease drought stress in soybean. Agronomy for Sustainable Development, 2017, 37, 1.	5.3	152
6	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.	3.6	120
7	Impacts of urea deep placement on nitrous oxide and nitric oxide emissions from rice fields in Bangladesh. Geoderma, 2015, 259-260, 370-379.	5.1	115
8	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.	8.0	104
9	Effects of Manganese Nanoparticle Exposure on Nutrient Acquisition in Wheat (Triticum aestivum L.). Agronomy, 2018, 8, 158.	3.0	91
10	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.	2.2	86
11	Rice Growth, Grain Yield, and Floodwater Nutrient Dynamics as Affected by Nutrient Placement Method and Rate. Agronomy Journal, 2008, 100, 526-536.	1.8	82
12	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.	5.6	67
13	Effects of water management on greenhouse gas emissions from farmers' rice fields in Bangladesh. Science of the Total Environment, 2020, 734, 139382.	8.0	66
14	Modeling Soil and Plant Phosphorus Dynamics in Calcareous and Highly Weathered Soils. Soil Science Society of America Journal, 1989, 53, 153-158.	2.2	63
15	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.	8.0	62
16	Modeling soil and plant phosphorus within DSSAT. Ecological Modelling, 2010, 221, 2839-2849.	2.5	60
17	Modelling climate change impacts on maize yields under low nitrogen input conditions in subâ€Saharan Africa. Global Change Biology, 2020, 26, 5942-5964.	9.5	60
18	Fertilizer Deep Placement Increases Rice Production: Evidence from Farmersâ€™ Fields in Southern Bangladesh. Agronomy Journal, 2016, 108, 805-812.	1.8	58

#	Article	IF	Citations
19	Exposure to Weathered and Fresh Nanoparticle and Ionic Zn in Soil Promotes Grain Yield and Modulates Nutrient Acquisition in Wheat (<i>Triticum aestivum</i> L.). Journal of Agricultural and Food Chemistry, 2018, 66, 9645-9656.	5.2	56
20	Mitigating greenhouse gas emissions from irrigated rice cultivation through improved fertilizer and water management. Journal of Environmental Management, 2022, 307, 114520.	7.8	47
21	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.	2.2	45
22	Application of a Maize Crop Simulation Model in the Central Region of Malawi. Experimental Agriculture, 1995, 31, 213-226.	0.9	43
23	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.	2.2	41
24	Causes of variation among rice models in yield response to CO_2 examined with Free-Air CO_2 Enrichment and growth chamber experiments. Scientific Reports, 2017, 7, 14858.	3.3	41
25	An Overview of CERES-Sorghum as Implemented in the Cropping System Model Version 4.5. Agronomy Journal, 2015, 107, 1987-2002.	1.8	32
26	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.	3.3	32
27	Development and Validation of a Phosphate Rock Decision Support System. Agronomy Journal, 2006, 98, 471-483.	1.8	31
28	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.	2.2	26
29	Using Crop Models for Sustainability and Environmental Quality Assessment. Outlook on Agriculture, 1992, 21, 209-218.	3.4	24
30	Mitigating N_2O and NO Emissions from Direct-Seeded Rice with Nitrification Inhibitor and Urea Deep Placement. Rice Science, 2020, 27, 434-444.	3.9	24
31	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.	5.1	20
32	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.	5.1	18
33	A taxonomy-based approach to shed light on the babel of mathematical models for rice simulation. Environmental Modelling and Software, 2016, 85, 332-341.	4.5	18
34	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.	8.0	18
35	Increasing nitrogen use efficiency in rice through fertilizer application method under rainfed drought conditions in Nepal. Nutrient Cycling in Agroecosystems, 2020, 118, 103-114.	2.2	18
36	Field evaluation of agronomic effectiveness of multi-nutrient fertilizer briquettes for upland crop production. Nutrient Cycling in Agroecosystems, 2018, 110, 395-406.	2.2	17

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37	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.	3.4	17
38	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	11
39	Quantifying nitric oxide emissions under rice-wheat cropping systems. Environmental Pollution, 2019, 250, 856-862.	7.5	9
40	Application timing of urea supergranules for climate-resilient maize cultivars grown in Northern Ghana. Journal of Plant Nutrition, 2020, 43, 949-964.	1.9	9
41	Real-time nitrogen management using decision support-tools increases nitrogen use efficiency of rice. Nutrient Cycling in Agroecosystems, 2021, 119, 355-368.	2.2	9
42	Nitrogen uptake kinetics of key staple cereal crops in different agro-ecological regions of the world. Journal of Plant Nutrition, 2017, 40, 995-1023.	1.9	8
43	A traitâ€based model ensemble approach to design rice plant types for future climate. Global Change Biology, 2022, 28, 2689-2710.	9.5	8
44	Maize Grain Composition with Additions of NPK Briquette and Organically Enhanced N Fertilizer. Agronomy, 2020, 10, 852.	3.0	7
45	Evaluation of Fused Ammonium Sulfate Nitrate Fertilizer for Crop Production. Soil Science, 2013, 178, 79-86.	0.9	6
46	Agronomic effectiveness of an organically enhanced nitrogen fertilizer. Nutrient Cycling in Agroecosystems, 2017, 108, 149-161.	2.2	6
47	Agronomic effectiveness of urea deep placement technology for upland maize production. Nutrient Cycling in Agroecosystems, 2020, 116, 179-193.	2.2	3
48	Evaluation of Fiji phosphate rocks: Chemical and mineralogical properties of samples from the Lau group. Fertilizer Research, 1990, 23, 181-190.	0.5	2
49	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	2
50	Resilient rice fertilization strategy for submergence-prone savanna agro-ecological zones of Northern Ghana. Journal of Plant Nutrition, 2020, 43, 965-986.	1.9	2
51	Separating Nitrogen Polymers from Urea in Ureaform Fertilizer to Study Soil Nitrogen Transformations. Soil Science Society of America Journal, 2011, 75, 1574-1577.	2.2	1
52	Ameliorating incongruent effects of balanced fertilization on maize productivity in strongly acid soils with liming. Journal of Plant Nutrition, 0, , 1-14.	1.9	0
53	Resilient Fertilization Strategies to Enhance Rice Productivity in Submergence-Prone Areas. , 2022, 1, .		0