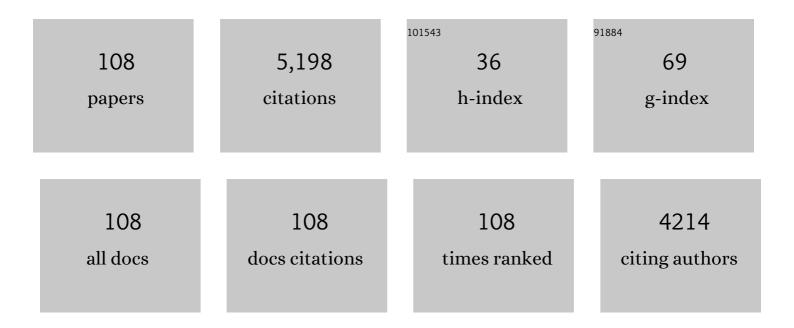


## List of Publications by Year in descending order

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NEWELL

#	Article	IF	CITATIONS
1	Crop and Soil Productivity Response to Corn Residue Removal. Agronomy Journal, 2004, 96, 1.	1.8	454
2	Accuracy issues in electromagnetic induction sensing of soil electrical conductivity for precision agriculture. Computers and Electronics in Agriculture, 2001, 31, 239-264.	7.7	303
3	Relating apparent electrical conductivity to soil properties across the north-central USA. Computers and Electronics in Agriculture, 2005, 46, 263-283.	7.7	288
4	Responsive in-season nitrogen management for cereals. Computers and Electronics in Agriculture, 2008, 61, 51-62.	7.7	228
5	Challenges and opportunities for mitigating nitrous oxide emissions from fertilized cropping systems. Frontiers in Ecology and the Environment, 2012, 10, 562-570.	4.0	220
6	Soil Electrical Conductivity as a Crop Productivity Measure for Claypan Soils. Journal of Production Agriculture, 1999, 12, 607-617.	0.4	212
7	Management Zone Analyst (MZA). Agronomy Journal, 2004, 96, 100.	1.8	204
8	Fieldâ€Scale Variability in Optimal Nitrogen Fertilizer Rate for Corn. Agronomy Journal, 2005, 97, 452-461.	1.8	185
9	Corn Response to Nitrogen is Influenced by Soil Texture and Weather. Agronomy Journal, 2012, 104, 1658-1671.	1.8	174
10	Soil Electrical Conductivity and Topography Related to Yield for Three Contrasting Soil–Crop Systems. Agronomy Journal, 2003, 95, 483-495.	1.8	162
11	Delineating productivity zones on claypan soil fields using apparent soil electrical conductivity. Computers and Electronics in Agriculture, 2005, 46, 285-308.	7.7	144
12	Groundâ€Based Canopy Reflectance Sensing for Variableâ€Rate Nitrogen Corn Fertilization. Agronomy Journal, 2010, 102, 71-84.	1.8	134
13	Assessing Indices for Predicting Potential Nitrogen Mineralization in Soils under Different Management Systems. Soil Science Society of America Journal, 2009, 73, 1575-1586.	2.2	128
14	Sensorâ€Based Nitrogen Applications Outâ€Performed Producerâ€Chosen Rates for Corn in Onâ€Farm Demonstrations. Agronomy Journal, 2011, 103, 1683-1691.	1.8	116
15	Economically Optimal Nitrogen Rate Reduces Soil Residual Nitrate. Journal of Environmental Quality, 2007, 36, 354-362.	2.0	89
16	Relationship of Apparent Soil Electrical Conductivity to Claypan Soil Properties. Soil Science Society of America Journal, 2005, 69, 883-892.	2.2	69
17	Spatial Characteristics of Claypan Soil Properties in an Agricultural Field. Soil Science Society of America Journal, 2006, 70, 1387-1397.	2.2	66
18	Algorithms for In‧eason Nutrient Management in Cereals. Agronomy Journal, 2016, 108, 1775-1781.	1.8	66

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19	Statistical and machine learning methods evaluated for incorporating soil and weather into corn nitrogen recommendations. Computers and Electronics in Agriculture, 2019, 164, 104872.	7.7	66
20	Soybean Root Distribution Related to Claypan Soil Properties and Apparent Soil Electrical Conductivity. Crop Science, 2007, 47, 1498-1509.	1.8	61
21	Management Zone Analyst (MZA). Agronomy Journal, 2004, 96, 100-108.	1.8	61
22	Emerging technologies for real-time and integrated agriculture decisions. Computers and Electronics in Agriculture, 2008, 61, 1-3.	7.7	60
23	Estimation of maize yield and effects of variable-rate nitrogen application using UAV-based RGB imagery. Biosystems Engineering, 2020, 189, 24-35.	4.3	60
24	Educational Needs of Precision Agriculture. Precision Agriculture, 2002, 3, 341-351.	6.0	56
25	Spatially Variable Corn Yield is a Weak Predictor of Optimal Nitrogen Rate. Soil Science Society of America Journal, 2006, 70, 2154-2160.	2.2	52
26	Herbicide Transport in Goodwater Creek ExperimentalWatershed: I. Long-Term Research on Atrazine1. Journal of the American Water Resources Association, 2011, 47, 209-223.	2.4	50
27	Application of Machine Learning Methodologies for Predicting Corn Economic Optimal Nitrogen Rate. Agronomy Journal, 2018, 110, 2596-2607.	1.8	49
28	Estimating Plantâ€Available Water Capacity for Claypan Landscapes Using Apparent Electrical Conductivity. Soil Science Society of America Journal, 2007, 71, 1902-1908.	2.2	48
29	Mapping Depth to Argillic Soil Horizons Using Apparent Electrical Conductivity. Journal of Environmental and Engineering Geophysics, 2010, 15, 135-146.	0.5	48
30	Evaluation of the Root Zone Water Quality Model Using Fieldâ€Measured Data from the Missouri MSEA. Agronomy Journal, 1999, 91, 183-192.	1.8	47
31	Modeling soil electrical conductivity–depth relationships with data from proximal and penetrating ECa sensors. Geoderma, 2013, 199, 12-21.	5.1	47
32	Title is missing!. Precision Agriculture, 2003, 4, 35-52.	6.0	43
33	Site-specific evaluation of the CROPGRO-soybean model on Missouri claypan soils. Agricultural Systems, 2003, 76, 985-1005.	6.1	43
34	Overview of the Mark Twain Lake/Salt River Basin Conservation Effects Assessment Project. Journal of Soils and Water Conservation, 2008, 63, 345-359.	1.6	42
35	Estimating a Soil Quality Index with VNIR Reflectance Spectroscopy. Soil Science Society of America Journal, 2015, 79, 637-649.	2.2	41
36	Relationships between soil bulk electrical conductivity and the principal component analysis of topography and soil fertility values. Plant and Soil, 2004, 258, 269-280.	3.7	40

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37	A Public–Industry Partnership for Enhancing Corn Nitrogen Research and Datasets: Project Description, Methodology, and Outcomes. Agronomy Journal, 2017, 109, 2371-2389.	1.8	40
38	Will Variableâ€Rate Nitrogen Fertilization Using Corn Canopy Reflectance Sensing Deliver Environmental Benefits?. Agronomy Journal, 2010, 102, 85-95.	1.8	39
39	Corn nitrogen rate recommendation tools' performance across eight US midwest corn belt states. Agronomy Journal, 2020, 112, 470-492.	1.8	38
40	Profitability Maps as an Input for Site-Specific Management Decision Making. Agronomy Journal, 2008, 100, 52-59.	1.8	36
41	Crop Yield and Soil Organic Carbon in Conventional and Noâ€ŧill Organic Systems on a Claypan Soil. Agronomy Journal, 2017, 109, 588-599.	1.8	36
42	Long-Term Agroecosystem Research in the Central Mississippi River Basin: Introduction, Establishment, and Overview. Journal of Environmental Quality, 2015, 44, 3-12.	2.0	35
43	Evaluation of the Haney Soil Health Tool for corn nitrogen recommendations across eight Midwest states. Journal of Soils and Water Conservation, 2018, 73, 587-592.	1.6	35
44	Early corn stand count of different cropping systems using UAV-imagery and deep learning. Computers and Electronics in Agriculture, 2021, 186, 106214.	7.7	34
45	Sensor data fusion for soil health assessment. Geoderma, 2017, 305, 53-61.	5.1	32
46	Soil water infiltration affected by topsoil thickness in row crop and switchgrass production systems. Geoderma, 2017, 286, 46-53.	5.1	31
47	Soil compaction varies by crop management system over a claypan soil landscape. Soil and Tillage Research, 2010, 107, 1-10.	5.6	29
48	Peak functions for modeling high resolution soil profile data. Geoderma, 2011, 166, 74-83.	5.1	29
49	Improving an Activeâ€Optical Reflectance Sensor Algorithm Using Soil and Weather Information. Agronomy Journal, 2018, 110, 2541-2551.	1.8	29
50	Hydraulic Properties Affected by Topsoil Thickness in Switchgrass and Corn–Soybean Cropping Systems. Soil Science Society of America Journal, 2016, 80, 1365-1376.	2.2	28
51	Between-Row Mowing + Banded Herbicide to Control Annual Weeds and Reduce Herbicide Use in No-till Soybean (Glycine max) and Corn (Zea mays)1. Weed Technology, 2001, 15, 576-584.	0.9	26
52	Validating a Digital Soil Map with Corn Yield Data for Precision Agriculture Decision Support. Agronomy Journal, 2016, 108, 957-965.	1.8	26
53	Multidisciplinary Teams: A Necessity for Research in Precision Agriculture Systems. Crop Science, 2007, 47, 1765-1769.	1.8	25
54	Potassium Fertilizer and Potato Leafhopper Effects on Alfalfa Growth. Agronomy Journal, 1990, 82, 1069-1074.	1.8	24

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55	Herbicide Transport in Goodwater Creek Experimental Watershed: II. Long-Term Research on Acetochlor, Alachlor, Metolachlor, and Metribuzin1. Journal of the American Water Resources Association, 2011, 47, 224-238.	2.4	19
56	Relationships between Soil-Based Management Zones and Canopy Sensing for Corn Nitrogen Management. Agronomy Journal, 2012, 104, 119-129.	1.8	19
57	Corn Nitrogen Nutrition Index Prediction Improved by Integrating Genetic, Environmental, and Management Factors with Active Canopy Sensing Using Machine Learning. Remote Sensing, 2022, 14, 394.	4.0	19
58	United States Midwest Soil and Weather Conditions Influence Anaerobic Potentially Mineralizable Nitrogen. Soil Science Society of America Journal, 2019, 83, 1137-1147.	2.2	18
59	Selecting soil hydraulic properties as indicators of soil health: Measurement response to management and site characteristics. Soil Science Society of America Journal, 2022, 86, 1206-1226.	2.2	18
60	Longâ€Term Impacts of Cropping Systems and Landscape Positions on Claypanâ€5oil Grain Crop Production. Agronomy Journal, 2016, 108, 713-725.	1.8	17
61	Linking soil microbial community structure to potential carbon mineralization: A continental scale assessment of reduced tillage. Soil Biology and Biochemistry, 2022, 168, 108618.	8.8	17
62	Residual Phosphorus Distribution and Sorption in Starter Fertilizer Bands Applied in Noâ€īill Culture. Soil Science Society of America Journal, 2001, 65, 1173-1183.	2.2	15
63	Reflectance Spectroscopy Detects Management and Landscape Differences in Soil Carbon and Nitrogen. Soil Science Society of America Journal, 2012, 76, 597-606.	2.2	15
64	Report from the conference, â€identifying obstacles to applying big data in agriculture'. Precision Agriculture, 2021, 22, 306-315.	6.0	15
65	Yield Potential and Nitrogen Requirements of <i>Miscanthus</i> × <i>giganteus</i> on Eroded Soil. Agronomy Journal, 2017, 109, 684-695.	1.8	13
66	Long-term simulated runoff and water quality from grain cropping systems on restrictive layer soils. Agricultural Water Management, 2019, 213, 36-48.	5.6	13
67	Profitability Maps as an Input for Site-Specific Management Decision Making. Agronomy Journal, 2008, 100, 52.	1.8	12
68	A Stochastic Approach for Predicting the Profitability of Bioenergy Grasses. Agronomy Journal, 2014, 106, 2137-2145.	1.8	12
69	Topsoil Thickness Effects on Corn, Soybean, and Switchgrass Production on Claypan Soils. Agronomy Journal, 2017, 109, 782-794.	1.8	12
70	Inversion of soil electrical conductivity data to estimate layered soil properties. Advances in Animal Biosciences, 2017, 8, 433-438.	1.0	12
71	Corn emergence uniformity estimation and mapping using UAV imagery and deep learning. Computers and Electronics in Agriculture, 2022, 198, 107008.	7.7	12
72	Role of inherent soil characteristics in assessing soil health across Missouri. Agricultural and Environmental Letters, 2020, 5, e20021.	1.2	11

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73	Weather and soil in the US Midwest influence the effectiveness of single―and splitâ€nitrogen applications in corn production. Agronomy Journal, 2020, 112, 5288-5299.	1.8	11
74	Relating fourâ€day soil respiration to corn nitrogen fertilizer needs across 49 U.S. Midwest fields. Soil Science Society of America Journal, 2020, 84, 1195-1208.	2.2	11
75	Contrasting grain crop and grassland management effects on soil quality properties for a north-central Missouri claypan soil landscape. Soil Science and Plant Nutrition, 2008, 54, 960-971.	1.9	10
76	Bayesian analysis of within-field variability of corn yield using a spatial hierarchical model. Precision Agriculture, 2009, 10, 111-127.	6.0	10
77	Predicting Economic Optimal Nitrogen Rate with the Anaerobic Potentially Mineralizable Nitrogen Test. Agronomy Journal, 2019, 111, 3329-3338.	1.8	10
78	Soilâ€nitrogen, potentially mineralizableâ€nitrogen, and field condition information marginally improves corn nitrogen management. Agronomy Journal, 2020, 112, 4332-4343.	1.8	10
79	Soil sample timing, nitrogen fertilization, and incubation length influence anaerobic potentially mineralizable nitrogen. Soil Science Society of America Journal, 2020, 84, 627-637.	2.2	10
80	Improving publicly available corn nitrogen rate recommendation tools with soil and weather measurements. Agronomy Journal, 2021, 113, 2068-2090.	1.8	10
81	Comparative Breakeven Analysis of Annual Grain and Perennial Switchgrass Cropping Systems on Claypan Soil Landscapes. Agronomy Journal, 2012, 104, 639-648.	1.8	9
82	Long-Term Agroecosystem Research in the Central Mississippi River Basin: Hydrogeologic Controls and Crop Management Influence on Nitrates in Loess and Fractured Glacial Till. Journal of Environmental Quality, 2015, 44, 58-70.	2.0	8
83	Cropping System, Landscape Position, and Topsoil Depth Affect Soil Fertility and Nutrient Buffering. Soil Science Society of America Journal, 2018, 82, 382-391.	2.2	7
84	Do Tillage, Cover Crops, and Compost Management within Organic Grain Cropping Affect Greenhouse Gas Emissions?. Agronomy Journal, 2018, 110, 1893-1904.	1.8	7
85	Spatial Variability of Soil Properties using Nested Variograms at Multiple Scales. Journal of Biosystems Engineering, 2014, 39, 377-388.	2.5	7
86	Field variability and vulnerability index to identify regional precision agriculture opportunity. Precision Agriculture, 2018, 19, 589-605.	6.0	6
87	Disposable Nitrate-Selective Optical Sensor Based on Fluorescent Dye. Journal of Biosystems Engineering, 2012, 37, 209-213.	2.5	6
88	A new perspective when examining maize fertilizer nitrogen use efficiency, incrementally. PLoS ONE, 2022, 17, e0267215.	2.5	6
89	Controls on nitrateâ€N concentrations in groundwater in a Missourian claypan watershed. Earth and Space Science, 2016, 3, 90-105.	2.6	5
90	Environmental Implications of Precision Agriculture. Assa, Cssa and Sssa, 2018, , 209-220.	0.6	5

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91	Cropping system and landscape characteristics influence longâ€ŧerm grain cropÂprofitability. , 2020, 3, e20099.		5
92	Adjusting corn nitrogen management by including a mineralizableâ€nitrogen test with the preplant and presidedress nitrate tests. Agronomy Journal, 2020, 112, 3050-3064.	1.8	5
93	Two classification methods for developing and interpreting productivity zones using site properties. Plant and Soil, 2006, 288, 357-371.	3.7	4
94	Impact of rhizome quality on Miscanthus establishment in claypan soil landscapes. Industrial Crops and Products, 2016, 85, 331-340.	5.2	4
95	Topsoil Thickness Influences Nitrogen Management of Switchgrass. Bioenergy Research, 2017, 10, 465-477.	3.9	4
96	Miscanthus × Giganteus Growth and Nutrient Export on 22 Producer Fields. Bioenergy Research, 2018, 11, 426-439.	3.9	4
97	Data from a public–industry partnership for enhancing corn nitrogen research. Agronomy Journal, 2021, 113, 4429.	1.8	4
98	Soil hydrologic grouping guide which soil and weather properties best estimate corn nitrogen need. Agronomy Journal, 2021, 113, 5541-5555.	1.8	4
99	Corn Hybrid Growth Stage Influence on Crop Reflectance Sensing. Agronomy Journal, 2012, 104, 158-164.	1.8	3
100	Using Topsoil Thickness to Improve Siteâ€Specific Phosphorus and Potassium Management on Claypan Soil. Agronomy Journal, 2017, 109, 2291-2301.	1.8	3
101	Understanding and Identifying Variability. Assa, Cssa and Sssa, 0, , 13-24.	0.6	3
102	Precision Variable Equipment. Assa, Cssa and Sssa, 0, , 155-168.	0.6	3
103	Planting depth and withinâ€field soil variability impacts on corn stand establishment and yield. , 2021, 4, e20186.		3
104	Topsoil Thickness and Harvest Management Influence Switchgrass Production and Profitability. Agronomy Journal, 2017, 109, 985-994.	1.8	2
105	Biomass Yield of Warm-Season Grasses Affected by Nitrogen and Harvest Management. Agronomy Journal, 2018, 110, 890-899.	1.8	1
106	Estimation of Corn Emergence Date Using UAV Imagery. Transactions of the ASABE, 2021, 64, 1173-1183.	1.1	1
107	Which Recommendation Tools Are Best for Achieving the Economically Optimal Nitrogen Rate?. Crops & Soils, 2020, 53, 56-60.	0.2	0
108	Operational characteristics of commercial crop canopy sensors for nitrogen application in maize. , 2015, , 51-58.		0