

William R Raun

List of Publications by Year in descending order

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237
papers

11,112
citations

36628

51
h-index

37454

96
g-index

240
all docs

240
docs citations

240
times ranked

7197
citing authors

#	ARTICLE	IF	CITATIONS
1	Improving Nitrogen Use Efficiency for Cereal Production. <i>Agronomy Journal</i> , 1999, 91, 357-363.	1.8	1,429
2	Improving Nitrogen Use Efficiency in Cereal Grain Production with Optical Sensing and Variable Rate Application. <i>Agronomy Journal</i> , 2002, 94, 815-820.	1.8	578
3	In-season Prediction of Potential Grain Yield in Winter Wheat Using Canopy Reflectance. <i>Agronomy Journal</i> , 2001, 93, 131-138.	1.8	379
4	Soil Acidification from Long-Term Use of Nitrogen Fertilizers on Winter Wheat. <i>Soil Science Society of America Journal</i> , 2011, 75, 957-964.	2.5	268
5	Use of Spectral Radiance for Correcting In-season Fertilizer Nitrogen Deficiencies in Winter Wheat. <i>Transactions of the American Society of Agricultural Engineers</i> , 1996, 39, 1623-1631.	0.9	244
6	Optical Sensor-Based Algorithm for Crop Nitrogen Fertilization. <i>Communications in Soil Science and Plant Analysis</i> , 2005, 36, 2759-2781.	1.4	243
7	In-Season Prediction of Corn Grain Yield Potential Using Normalized Difference Vegetation Index. <i>Agronomy Journal</i> , 2006, 98, 1488-1494.	1.8	243
8	Responsive in-season nitrogen management for cereals. <i>Computers and Electronics in Agriculture</i> , 2008, 61, 51-62.	7.8	228
9	Spectral Reflectance to Estimate Genetic Variation for In-Season Biomass, Leaf Chlorophyll, and Canopy Temperature in Wheat. <i>Crop Science</i> , 2006, 46, 1046-1057.	1.9	218
10	Spectral Reflectance Indices as a Potential Indirect Selection Criteria for Wheat Yield under Irrigation. <i>Crop Science</i> , 2006, 46, 578-588.	1.9	183
11	Corn Response to Nitrogen is Influenced by Soil Texture and Weather. <i>Agronomy Journal</i> , 2012, 104, 1658-1671.	1.8	174
12	Bacterial Community Structure and Diversity in a Century-Old Manure-Treated Agroecosystem. <i>Applied and Environmental Microbiology</i> , 2004, 70, 5868-5874.	3.0	172
13	By-Plant Prediction of Corn Forage Biomass and Nitrogen Uptake at Various Growth Stages Using Remote Sensing and Plant Height. <i>Agronomy Journal</i> , 2007, 99, 530-536.	1.8	168
14	Long-term cattle manure application in soil. <i>Biology and Fertility of Soils</i> , 2002, 35, 328-337.	4.2	163
15	NITROGEN FERTILIZATION OPTIMIZATION ALGORITHM BASED ON IN-SEASON ESTIMATES OF YIELD AND PLANT NITROGEN UPTAKE. <i>Journal of Plant Nutrition</i> , 2001, 24, 885-898.	2.0	149
16	World Phosphorus Use Efficiency in Cereal Crops. <i>Agronomy Journal</i> , 2017, 109, 1670-1677.	1.8	147
17	Estimating vegetation coverage in wheat using digital images. <i>Journal of Plant Nutrition</i> , 1999, 22, 341-350.	2.0	138
18	Improving Nitrogen Use Efficiency in Cereal Grain Production with Optical Sensing and Variable Rate Application. <i>Agronomy Journal</i> , 2002, 94, 815.	1.8	131

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19	Switchgrass Response to Harvest Frequency and Time and Rate of Applied Nitrogen. <i>Journal of Plant Nutrition</i> , 2005, 27, 1199-1226.	2.0	119
20	Nitrogen Response Index as a Guide to Fertilizer Management. <i>Journal of Plant Nutrition</i> , 2003, 26, 249-262.	2.0	118
21	Simultaneous determination of soil aluminum, ammonium and nitrate-nitrogen using 1 M potassium chloride extraction. <i>Communications in Soil Science and Plant Analysis</i> , 2000, 31, 893-903.	1.4	116
22	World Cereal Nitrogen Use Efficiency Trends: Review and Current Knowledge. , 2019, 2, 1-8.		111
23	Potential Use of Spectral Reflectance Indices as a Selection Tool for Grain Yield in Winter Wheat under Great Plains Conditions. <i>Crop Science</i> , 2007, 47, 1426-1440.	1.9	109
24	Spectral Water Indices for Assessing Yield in Elite Bread Wheat Genotypes under Well-irrigated, Water-stressed, and High-temperature Conditions. <i>Crop Science</i> , 2010, 50, 197-214.	1.9	109
25	Influence of Late-Season Foliar Nitrogen Applications on Yield and Grain Nitrogen in Winter Wheat. <i>Agronomy Journal</i> , 2002, 94, 429-434.	1.8	108
26	Identifying an In-Season Response Index and the Potential to Increase Wheat Yield with Nitrogen. <i>Agronomy Journal</i> , 2003, 95, 347.	1.8	103
27	Long-term cattle manure application in soil. II. Effect on soil microbial populations and community structure. <i>Biology and Fertility of Soils</i> , 2003, 38, 209-215.	4.2	100
28	Evaluation of Green, Red, and Near Infrared Bands for Predicting Winter Wheat Biomass, Nitrogen Uptake, and Final Grain Yield. <i>Journal of Plant Nutrition</i> , 2005, 27, 1431-1441.	2.0	99
29	Testing statistical hypotheses using standard error bars and confidence intervals. <i>Communications in Soil Science and Plant Analysis</i> , 2000, 31, 547-551.	1.4	95
30	Wheat grain yield and grain-nitrogen relationships as affected by N, P, and K fertilization: A synthesis of long-term experiments. <i>Field Crops Research</i> , 2019, 236, 42-57.	5.1	92
31	In-Season Optical Sensing Improves Nitrogen Use Efficiency for Winter Wheat. <i>Soil Science Society of America Journal</i> , 2009, 73, 1566-1574.	2.5	88
32	Assessment of the nitrogen management strategy using an optical sensor for irrigated wheat. <i>Agronomy for Sustainable Development</i> , 2011, 31, 589-603.	5.4	87
33	Independence of yield potential and crop nitrogen response. <i>Precision Agriculture</i> , 2011, 12, 508-518.	5.8	80
34	Optical Sensor Based Field Element Size and Sensing Strategy for Nitrogen Application. <i>Transactions of the American Society of Agricultural Engineers</i> , 1996, 39, 1983-1992.	0.9	76
35	World Potassium Use Efficiency in Cereal Crops. <i>Agronomy Journal</i> , 2019, 111, 889-896.	1.8	76
36	Expression of Variability in Corn as Influenced by Growth Stage Using Optical Sensor Measurements. <i>Agronomy Journal</i> , 2007, 99, 384-389.	1.8	75

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37	Submeter Spatial Variability of Selected Soil and Bermudagrass Production Variables. Soil Science Society of America Journal, 1999, 63, 1724-1733.	2.5	74
38	Effect of long-term N fertilization on soil organic C and total N in continuous wheat under conventional tillage in Oklahoma. Soil and Tillage Research, 1998, 47, 323-330.	5.6	72
39	Use of Stability Analysis for Long-Term Soil Fertility Experiments. Agronomy Journal, 1993, 85, 159-167.	1.8	71
40	Identifying an In-Season Response Index and the Potential to Increase Wheat Yield with Nitrogen. Agronomy Journal, 2003, 95, 347-351.	1.8	70
41	Genetic Analysis of Indirect Selection for Winter Wheat Grain Yield Using Spectral Reflectance Indices. Crop Science, 2007, 47, 1416-1425.	1.9	70
42	Adjusting Midseason Nitrogen Rate Using a Sensor-Based Optimization Algorithm to Increase Use Efficiency in Corn. Journal of Plant Nutrition, 2008, 31, 1393-1419.	2.0	70
43	Variability in Optimum Nitrogen Rates for Maize. Agronomy Journal, 2016, 108, 2165-2173.	1.8	70
44	PAPER PRESENTED AT INTERNATIONAL WORKSHOP ON INCREASING WHEAT YIELD POTENTIAL, CIMMYT, OBREGON, MEXICO, 20-24 MARCH 2006 Reduced nitrogen and improved farm income for irrigated spring wheat in the Yaqui Valley, Mexico, using sensor based nitrogen management. Journal of Agricultural Science, 2007, 145, 215-222.	1.2	69
45	Algorithms for In-Season Nutrient Management in Cereals. Agronomy Journal, 2016, 108, 1775-1781.	1.8	66
46	Microvariability in Soil Test, Plant Nutrient, and Yield Parameters in Bermudagrass. Soil Science Society of America Journal, 1998, 62, 683-690.	2.5	65
47	Relationship between mean yield, coefficient of variation, mean square error, and plot size in wheat field experiments. Communications in Soil Science and Plant Analysis, 1999, 30, 1439-1447.	1.4	65
48	Influence of Late-Season Foliar Nitrogen Applications on Yield and Grain Nitrogen in Winter Wheat. Agronomy Journal, 2002, 94, 429.	1.8	63
49	Ramp Calibration Strip Technology for Determining Midseason Nitrogen Rates in Corn and Wheat. Agronomy Journal, 2008, 100, 1088-1093.	1.8	62
50	Effect of nitrogen rate on plant nitrogen loss in winter wheat varieties ¹ . Journal of Plant Nutrition, 1997, 20, 389-404.	2.0	60
51	Determination of Optimum Rate and Growth Stage for Foliar-Applied Phosphorus in Corn. Communications in Soil Science and Plant Analysis, 2007, 38, 1137-1154.	1.4	56
52	Plant-to-Plant Variability in Corn Production. Agronomy Journal, 2005, 97, 1603-1611.	1.8	55
53	Hard Red Winter Wheat Cultivar Responses to a pH and Aluminum Concentration Gradient. Agronomy Journal, 2007, 99, 88-98.	1.8	55
54	Optical Sensing of Turfgrass Chlorophyll Content and Tissue Nitrogen. Hortscience: A Publication of the American Society for Horticultural Science, 2004, 39, 1130-1132.	1.1	55

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55	Late-season Prediction Of Wheat Grain Yield And Grain Protein. Communications in Soil Science and Plant Analysis, 2003, 34, 1837-1852.	1.4	54
56	Growth Stage, Development, and Spatial Variability in Corn Evaluated Using Optical Sensor Readings**Contribution from the Oklahoma Agricultural Experiment Station and the International Maize and Wheat Improvement Center (CIMMYT).. Journal of Plant Nutrition, 2005, 28, 173-182.	2.0	54
57	Effect of Foliar Application of Phosphorus on Winter Wheat Grain Yield, Phosphorus Uptake, and Use Efficiency. Journal of Plant Nutrition, 2006, 29, 2147-2163.	2.0	53
58	Use of soil moisture data for refined GreenSeeker sensor based nitrogen recommendations in winter wheat (<i>Triticum aestivum</i> L.). Precision Agriculture, 2013, 14, 343-356.	5.8	51
59	Soil-Plant Buffering of Inorganic Nitrogen in Continuous Winter Wheat. Agronomy Journal, 1995, 87, 827-834.	1.8	50
60	EFFECT OF DELAYED NITROGEN FERTILIZATION ON MAIZE (<i>ZEA MAYS</i> L.) GRAIN YIELDS AND NITROGEN USE EFFICIENCY. Journal of Plant Nutrition, 2012, 35, 538-555.	2.0	50
61	Time of Nitrogen Application: Effects on Winter Wheat and Residual Soil Nitrate. Soil Science Society of America Journal, 1995, 59, 1364-1369.	2.5	48
62	Generalized Algorithm for Variable-Rate Nitrogen Application in Cereal Grains. Agronomy Journal, 2012, 104, 378-387.	1.8	48
63	Maximum benefit of a precise nitrogen application system for wheat. Precision Agriculture, 2006, 7, 193-204.	5.8	46
64	The economic potential of precision nitrogen application with wheat based on plant sensing. Agricultural Economics (United Kingdom), 2009, 40, 397-407.	3.7	46
65	NITROGEN FERTILIZER MANAGEMENT FOR IMPROVED GRAIN QUALITY AND YIELD IN WINTER WHEAT IN OKLAHOMA. Journal of Plant Nutrition, 2013, 36, 749-761.	2.0	44
66	The Effect of Long-Term Annual Application of Biosolids on Soil Properties, Phosphorus, and Metals. Soil Science Society of America Journal, 2008, 72, 73-82.	2.5	43
67	Detection of nitrogen and phosphorus nutrient status in winter wheat using spectral radiance. Journal of Plant Nutrition, 1998, 21, 1207-1233.	2.0	42
68	RED EDGE AS A POTENTIAL INDEX FOR DETECTING DIFFERENCES IN PLANT NITROGEN STATUS IN WINTER WHEAT. Journal of Plant Nutrition, 2012, 35, 1526-1541.	2.0	41
69	Nitrogen Balance in the Magruder Plots Following 109 Years in Continuous Winter Wheat. Journal of Plant Nutrition, 2003, 26, 1561-1580.	2.0	39
70	Mid-Season Prediction of Wheat-Grain Yield Potential Using Plant, Soil, and Sensor Measurements. Journal of Plant Nutrition, 2006, 29, 873-897.	2.0	39
71	Profitability of variable rate nitrogen application in wheat production. Precision Agriculture, 2011, 12, 473-487.	5.8	39
72	World Sulfur Use Efficiency for Cereal Crops. Agronomy Journal, 2019, 111, 2485-2492.	1.8	39

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73	Nitrogen Management in Dryland Cropping Systems. <i>Journal of Production Agriculture</i> , 1996, 9, 192-199.	0.4	38
74	The Magruder Plots: Untangling the Puzzle. <i>Agronomy Journal</i> , 2007, 99, 1191-1198.	1.8	38
75	Effect of Fertilizer Nitrogen (N) on Soil Organic Carbon, Total N, and Soil pH in Long-Term Continuous Winter Wheat (<i>Triticum Aestivum</i> L.). <i>Communications in Soil Science and Plant Analysis</i> , 2016, 47, 863-874.	1.4	38
76	Relationship between Grain Crop Yield Potential and Nitrogen Response. <i>Agronomy Journal</i> , 2013, 105, 1335-1344.	1.8	37
77	Genetic Yield Potential Improvement of Semidwarf Winter Wheat in the Great Plains. <i>Crop Science</i> , 2013, 53, 946-955.	1.9	34
78	Ammonium and Nitrate Nitrogen in Soil Profiles of Long-Term Winter Wheat Fertilization Experiments. <i>Agronomy Journal</i> , 1994, 86, 94-99.	1.8	32
79	Production System Techniques to Increase Nitrogen Use Efficiency in Winter Wheat*. <i>Journal of Plant Nutrition</i> , 2002, 25, 2261-2283.	2.0	32
80	Crop Nitrogen Requirement and Fertilization. <i>Agronomy</i> , 0, , 563-612.	0.0	32
81	Nitrogen Management and Interseeding Effects on Irrigated Corn and Sorghum and on Soil Strength 1. <i>Agronomy Journal</i> , 1986, 78, 856-862.	1.8	31
82	Bermudagrass Response to High Nitrogen Rates, Source, and Season of Application. <i>Agronomy Journal</i> , 1999, 91, 438-444.	1.8	30
83	Development of an in-season estimate of yield potential utilizing optical crop sensors and soil moisture data for winter wheat. <i>Precision Agriculture</i> , 2016, 17, 451-469.	5.8	30
84	Alfalfa Yield Response to Nitrogen Applied After Each Cutting. <i>Soil Science Society of America Journal</i> , 1999, 63, 1237-1243.	2.5	28
85	Identification of Optical Spectral Signatures for Detecting Cheat and Ryegrass in Winter Wheat. <i>Crop Science</i> , 2005, 45, 477-485.	1.9	28
86	Cereal Nitrogen Use Efficiency in Sub Saharan Africa. <i>Journal of Plant Nutrition</i> , 2009, 32, 2107-2122.	2.0	28
87	Micronutrient Availability as Affected by the Long-Term Application of Phosphorus Fertilizer and Organic Amendments. <i>Soil Science Society of America Journal</i> , 2011, 75, 927-939.	2.5	28
88	Unpredictable Nature of Environment on Nitrogen Supply and Demand. <i>Agronomy Journal</i> , 2019, 111, 2786-2791.	1.8	28
89	Rate of Phosphorus and Potassium Buildup/Decline with Fertilization for Corn and Wheat on Nebraska Mollisols. <i>Soil Science Society of America Journal</i> , 1987, 51, 1646-1652.	2.5	27
90	Applications of Stability Analysis for Single-Site, Long-Term Experiments. <i>Agronomy Journal</i> , 1994, 86, 1016-1019.	1.8	27

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91	Nitrate Leaching in Continuous Winter Wheat: Use of a Soil-Plant Buffering Concept to Account for Fertilizer Nitrogen. <i>Journal of Production Agriculture</i> , 1995, 8, 486-491.	0.4	26
92	Wheat Grain Cadmium as Affected by Long-Term Fertilization and Soil Acidity. <i>Journal of Environmental Quality</i> , 1997, 26, 265-272.	2.7	25
93	Relationship Between Coefficient of Variation Measured by Spectral Reflectance and Plant Density at Early Growth Stages in Winter Wheat. <i>Journal of Plant Nutrition</i> , 2006, 29, 1983-1997.	2.0	25
94	Effect of Irrigation and Preplant Nitrogen Fertilizer Source on Maize in the Southern Great Plains. <i>International Journal of Agronomy</i> , 2014, 2014, 1-10.	1.2	25
95	Nitrogen management impact on winter wheat grain yield and estimated plant nitrogen loss. <i>Agronomy Journal</i> , 2020, 112, 564-577.	1.8	25
96	Indirect measures of plant nutrients. <i>Communications in Soil Science and Plant Analysis</i> , 1998, 29, 1571-1581.	1.4	24
97	Effect of row spacing, growth stage, and nitrogen rate on spectral irradiance in winter wheat. <i>Journal of Plant Nutrition</i> , 2000, 23, 103-122.	2.0	24
98	Mid-Season Recovery from Nitrogen Stress in Winter Wheat. <i>Journal of Plant Nutrition</i> , 2006, 29, 727-745.	2.0	24
99	Effect of growth stage and variety on spectral radiance in winter wheat. <i>Journal of Plant Nutrition</i> , 2000, 23, 141-149.	2.0	23
100	Relationship Between Response Indices Measured In-Season and at Harvest in Winter Wheat. <i>Journal of Plant Nutrition</i> , 2005, 28, 221-235.	2.0	23
101	Weather, Fertilizer, Previous Year Yield, and Fertilizer Levels Affect Ensuing Year Fertilizer Response of Wheat. <i>Agronomy Journal</i> , 2007, 99, 1607-1614.	1.8	23
102	Improvement of a ground-LiDAR-based corn plant population and spacing measurement system. <i>Computers and Electronics in Agriculture</i> , 2015, 112, 92-101.	7.8	23
103	Fertilizer Nitrogen Recovery in Long-Term Continuous Winter Wheat. <i>Soil Science Society of America Journal</i> , 1999, 63, 645-650.	2.5	22
104	Winter wheat fertilizer nitrogen use efficiency in grain and forage production systems. <i>Journal of Plant Nutrition</i> , 2000, 23, 1505-1516.	2.0	22
105	Forage and Grain Yield Response to Applied Sulfur in Winter Wheat as Influenced by Source and Rate. <i>Journal of Plant Nutrition</i> , 2005, 28, 1541-1553.	2.0	22
106	Automatic corn plant location and spacing measurement using laser line-scan technique. <i>Precision Agriculture</i> , 2013, 14, 478-494.	5.8	22
107	WITHIN FIELD VARIABILITY IN WHEAT GRAIN YIELDS OVER NINE YEARS IN OKLAHOMA. <i>Journal of Plant Nutrition</i> , 2002, 25, 2655-2662.	2.0	21
108	Economic feasibility of site-specific optical sensing for managing nitrogen fertilizer for growing wheat. <i>Precision Agriculture</i> , 2009, 10, 213-230.	5.8	21

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109	NITROGEN ACCUMULATION IN SHOOTS AS A FUNCTION OF GROWTH STAGE OF CORN AND WINTER WHEAT. Journal of Plant Nutrition, 2010, 34, 165-182.	2.0	21
110	Nitrogen Management for Improved Use Efficiency. Agronomy, 0, , 675-693.	0.0	21
111	Biochar Application in Combination with Inorganic Nitrogen Improves Maize Grain Yield, Nitrogen Uptake, and Use Efficiency in Temperate Soils. Agronomy, 2020, 10, 1241.	3.1	21
112	Crop Monitoring Technologies to Assess Nitrogen Status. Agronomy, 0, , 647-674.	0.0	20
113	Can Yield Goals Be Predicted?. Agronomy Journal, 2017, 109, 2389-2395.	1.8	20
114	Estimated increase in atmospheric carbon dioxide due to worldwide decrease in soil organic matter. Communications in Soil Science and Plant Analysis, 1999, 30, 1713-1719.	1.4	19
115	BY-PLANT PREDICTION OF CORN GRAIN YIELD USING OPTICAL SENSOR READINGS AND MEASURED PLANT HEIGHT. Journal of Plant Nutrition, 2012, 35, 1429-1439.	2.0	19
116	Influence of No-Tillage on Soil Organic Carbon, Total Soil Nitrogen, and Winter Wheat (<i>Triticum) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5	1.2	19
117	Increased plant nitrogen loss with increasing nitrogen applied in winter wheat observed with¹⁵nitrogen. Journal of Plant Nutrition, 2000, 23, 219-230.	2.0	18
118	Nitrogen Availability. Agronomy, 0, , 613-646.	0.0	18
119	Detection of nitrogen and phosphorus nutrient status in bermudagrass using spectral radiance. Journal of Plant Nutrition, 1998, 21, 1189-1206.	2.0	17
120	RELATIONSHIP BETWEEN AMMONIUM AND NITRATE IN WHEAT PLANT TISSUE AND ESTIMATED NITROGEN LOSS. Journal of Plant Nutrition, 2002, 25, 1429-1442.	2.0	17
121	Analysis of yield variability in winter wheat due to temporal variability, and nitrogen and phosphorus fertilization. Archives of Agronomy and Soil Science, 2007, 53, 435-442.	2.6	17
122	In-season estimation of grain sorghum yield potential using a hand-held optical sensor. Archives of Agronomy and Soil Science, 2007, 53, 617-628.	2.6	16
123	Relationship between Nitrogen Use Efficiency and Response Index in Winter Wheat. Journal of Plant Nutrition, 2009, 32, 502-515.	2.0	16
124	Nutrient sources and harvesting frequency on quality biomass production of switchgrass (Panicum) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5	9.8	16
125	EFFECT OF WHEAT STRAW INVERSION ON SOIL WATER CONSERVATION. Soil Science, 1995, 159, 81-89.	0.8	15
126	Use of spectral radiance for correcting nitrogen deficiencies and estimating soil test variability in an established bermudagrass pasture. Journal of Plant Nutrition, 1998, 21, 2287-2302.	2.0	15

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127	The effect of parameter uncertainty on whole-field nitrogen recommendations from nitrogen-rich strips and ramped strips in winter wheat. <i>Agricultural Systems</i> , 2011, 104, 307-314.	6.2	15
128	Replicability of nitrogen recommendations from ramped calibration strips in winter wheat. <i>Precision Agriculture</i> , 2011, 12, 653-665.	5.8	15
129	In-Season Prediction of Nitrogen Use Efficiency and Grain Protein in Winter Wheat (<i>Triticum) Tj ETQq1 1 0.784314 rgBT /Overlock 15	1.4	15
130	Development of an NDVI-Based Nitrogen Rate Calculator for Cotton. <i>Crop Science</i> , 2016, 56, 3263-3271.	1.9	15
131	Sensors for Detection of Nitrogen in Winter Wheat. SAE technical paper series, 0, , .	0.0	14
132	Winter Wheat Grain Yield and Grain Nitrogen as Influenced by Bed and Conventional Planting Systems. <i>Journal of Plant Nutrition</i> , 2007, 30, 611-622.	2.0	14
133	Effect of nitrogen fertilizer source on corn (<i>Zea mays</i> L.) optical sensor response index values in a rain-fed environment. <i>Journal of Plant Nutrition</i> , 2018, 41, 1172-1183.	2.0	14
134	Phosphorus Fertilizer Carriers and Their Placement for Minimum Till Corn Under Sprinkler Irrigation. <i>Soil Science Society of America Journal</i> , 1987, 51, 1055-1062.	2.5	13
135	Phosphorus Loss in Runoff from Long-term Continuous Wheat Fertility Trials. <i>Soil Science Society of America Journal</i> , 2006, 70, 163-171.	2.5	13
136	Effect of Treating Field Spatial Variability in Winter Wheat at Different Resolutions. <i>Journal of Plant Nutrition</i> , 2008, 31, 1975-1998.	2.0	13
137	MAIZE (<i>ZEA MAYS</i>) LEAF ANGLE AND EMERGENCE AS AFFECTED BY SEED ORIENTATION AT PLANTING. <i>Experimental Agriculture</i> , 2011, 47, 579-592.	0.9	13
138	By-Plant Prediction of Corn (<i>Zea mays</i>L.) Grain Yield using Height and Stalk Diameter. <i>Communications in Soil Science and Plant Analysis</i> , 2015, 46, 564-575.	1.4	13
139	Evaluation of mid-season sensor based nitrogen fertilizer recommendations for winter wheat using different estimates of yield potential. <i>Precision Agriculture</i> , 2016, 17, 470-487.	5.8	13
140	Nitrogen fertilizer recommendations based on plant sensing and Bayesian updating. <i>Precision Agriculture</i> , 2018, 19, 79-92.	5.8	13
141	Yield response of corn and grain sorghum to row offsets on subsurface drip laterals. <i>Agricultural Water Management</i> , 2018, 208, 357-362.	5.7	13
142	Nitrogen Uptake Efficiency and Total Soil Nitrogen Accumulation in Long-Term Beef Manure and Inorganic Fertilizer Application. <i>International Journal of Agronomy</i> , 2019, 2019, 1-6.	1.2	13
143	Applied use of growing degree days to refine optimum times for nitrogen stress sensing in winter wheat. <i>Agronomy Journal</i> , 2020, 112, 537-549.	1.8	13
144	Biological Dinitrogen Fixation in Agriculture. <i>Agronomy</i> , 0, , 281-359.	0.0	13

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145	Nitrate-N and phosphate-P concentration in winter wheat at varying growth stages(1). Journal of Plant Nutrition, 1991, 14, 267-281.	2.0	12
146	EFFECT OF CHLORIDE FERTILIZERS AND LIME ON WHEAT GRAIN YIELD AND TAKE-ALL DISEASE. Journal of Plant Nutrition, 2001, 24, 683-692.	2.0	12
147	EFFECT OF DELAYED EMERGENCE ON CORN GRAIN YIELDS. Journal of Plant Nutrition, 2012, 35, 480-496.	2.0	12
148	Effect of Seed Distribution and Population on Maize (<i>Zea mays</i> L.) Grain Yield. International Journal of Agronomy, 2014, 2014, 1-8.	1.2	12
149	Long-Term Rye-Wheat-Ryegrass Forage Yields as Affected by Rate and Date of Applied Nitrogen. Journal of Production Agriculture, 1996, 9, 510-516.	0.4	11
150	SEED-ORIENTED PLANTING IMPROVES LIGHT INTERCEPTION, RADIATION USE EFFICIENCY AND GRAIN YIELD OF MAIZE (<i>Zea mays</i> L.). Experimental Agriculture, 2017, 53, 210-225.	0.9	11
151	Soil Organic Carbon, Total Nitrogen, and Soil pH, in a Long-Term Continuous Winter Wheat (<i>Triticum Aestivum</i> L.) Experiment. Communications in Soil Science and Plant Analysis, 2018, 49, 803-813.	1.4	11
152	Prediction of maize (<i>Zea mays</i> L.) population using normalized-difference vegetative index (NDVI) and coefficient of variation (CV). Journal of Plant Nutrition, 2019, 42, 673-679.	2.0	11
153	Alternative procedure for total phosphorus determination in plant tissue. Communications in Soil Science and Plant Analysis, 1987, 18, 543-557.	1.4	10
154	Nitrogen Fertilizer Carriers and Their Placement for Minimum Till Corn Under Sprinkler Irrigation. Agronomy Journal, 1989, 81, 280-285.	1.8	10
155	Regional Maize Grain Yield Response to Applied Phosphorus in Central America. Agronomy Journal, 1995, 87, 208-213.	1.8	10
156	Long-Term Nitrogen Fertilization in Short-Season Cotton: Interpretation of Agronomic Characteristics Using Stability Analysis. Journal of Production Agriculture, 1997, 10, 580-585.	0.4	10
157	OPTIMUM FIELD ELEMENT SIZE FOR MAXIMUM YIELDS IN WINTER WHEAT, USING VARIABLE NITROGEN RATES. Journal of Plant Nutrition, 2001, 24, 313-325.	2.0	10
158	Estimated land area increase of agricultural ecosystems to sequester excess atmospheric carbon dioxide. Communications in Soil Science and Plant Analysis, 2001, 32, 1803-1812.	1.4	10
159	Bermudagrass, Wheat, and Tall Fescue Crude Protein Forage Estimation using Mobile-Platform, Active-Spectral and Canopy-Height Data. Crop Science, 2016, 56, 870-881.	1.9	10
160	Recovery and Partitioning of Nitrogen from Early Spring and Midsummer Applications to Pecan Trees. Journal of the American Society for Horticultural Science, 2007, 132, 758-763.	1.0	10
161	Response of Winter Wheat to Chloride Fertilization in Sandy Loam Soils. Communications in Soil Science and Plant Analysis, 2006, 37, 1947-1955.	1.4	9
162	EFFICIENCY OF PRE-PLANT, TOPDRESS, AND VARIABLE RATE APPLICATION OF NITROGEN IN WINTER WHEAT. Journal of Plant Nutrition, 2012, 35, 1776-1790.	2.0	9

#	ARTICLE	IF	CITATIONS
163	Evaluation of Corn Seed Vacuum Metering Systems. , 2012, , .		9
164	Variability in Winter Wheat (<i>Triticum aestivum</i> L.) Grain Yield Response to Nitrogen Fertilization in Long-Term Experiments. <i>Communications in Soil Science and Plant Analysis</i> , 2020, 51, 403-412.	1.4	9
165	Review of Active Optical Sensors for Improving Winter Wheat Nitrogen Use Efficiency. <i>Agronomy</i> , 2020, 10, 1157.	3.1	9
166	Spring-Applied Nitrogen Fertilizer Influence on Winter Wheat and Residual Soil Nitrate. <i>Journal of Production Agriculture</i> , 1995, 8, 584-589.	0.4	8
167	Effect of dual applied phosphorus and gypsum on wheat forage and grain yield. <i>Journal of Plant Nutrition</i> , 2000, 23, 251-261.	2.0	8
168	Canopy Reduction and Legume Interseeding in Irrigated Continuous Corn. <i>Journal of Plant Nutrition</i> , 2003, 26, 1335-1343.	2.0	8
169	Association of biomass production and canopy spectral reflectance indices in winter wheat. <i>Canadian Journal of Plant Science</i> , 2009, 89, 485-496.	1.0	8
170	MAIZE GRAIN YIELD RESPONSE TO VARIABLE ROW NITROGEN FERTILIZATION. <i>Journal of Plant Nutrition</i> , 2013, 36, 1013-1024.	2.0	8
171	Applied Model for Estimating Potential Ammonia Loss from Surface-Applied Urea. <i>Communications in Soil Science and Plant Analysis</i> , 2013, 44, 2055-2063.	1.4	8
172	Effect of Preplant Irrigation, Nitrogen Fertilizer Application Timing, and Phosphorus and Potassium Fertilization on Winter Wheat Grain Yield and Water Use Efficiency. <i>International Journal of Agronomy</i> , 2014, 2014, 1-12.	1.2	8
173	Irrigated and rain-fed maize response to different nitrogen fertilizer application methods. <i>Journal of Plant Nutrition</i> , 2016, 39, 1874-1890.	2.0	8
174	In-season Application of Nitrogen and Sulfur in Winter Wheat. , 2019, 2, 1-8.		8
175	Predicting in-season maize (<i>Zea mays</i> L.) yield potential using crop sensors and climatological data. <i>Scientific Reports</i> , 2020, 10, 11479.	3.4	8
176	Effect of sewage sludge and ammonium nitrate on wheat yield and soil profile inorganic nitrogen accumulation. <i>Journal of Plant Nutrition</i> , 1997, 20, 203-218.	2.0	7
177	Nitrogen accumulation efficiency: Relationship between excess fertilizer and soil-plant biological activity in winter wheat. <i>Journal of Plant Nutrition</i> , 1998, 21, 1235-1252.	2.0	7
178	CHANGES IN RESPONSE INDICES AS A FUNCTION OF TIME IN WINTER WHEAT. <i>Journal of Plant Nutrition</i> , 2010, 33, 796-808.	2.0	7
179	Small-Scale Spatial Variability in Winter Wheat Production. <i>Communications in Soil Science and Plant Analysis</i> , 2013, 44, 2830-2838.	1.4	7
180	Wheat grain yield and nitrogen uptake as influenced by fertilizer placement depth. , 2020, 3, e20025.		7

#	ARTICLE	IF	CITATIONS
181	Seasonal and Long-Term Changes in Nitrate-Nitrogen Content of Well Water in Oklahoma. <i>Journal of Environmental Quality</i> , 1997, 26, 1632-1637.	2.7	6
182	Effect of Long-Term Application of Biosolids on Molybdenum Content and Quality of Winter Wheat Forage. <i>Journal of Plant Nutrition</i> , 2005, 28, 405-420.	2.0	6
183	Effect of Tillage and Anhydrous Ammonia Application on Nitrogen Use Efficiency of Hard Red Winter Wheat. <i>Agroecology and Sustainable Food Systems</i> , 2007, 30, 51-67.	0.9	6
184	Use of In-Season Reflectance for Predicting Yield Potential in Bermudagrass. <i>Communications in Soil Science and Plant Analysis</i> , 2007, 38, 1519-1531.	1.4	6
185	Long-Term Effects of Nitrogen Management Practices on Grain Yield, Nitrogen Uptake, and Efficiency in Irrigated Corn. <i>Journal of Plant Nutrition</i> , 2007, 30, 2021-2036.	2.0	6
186	Indirect selection for grain yield in spring bread wheat in diverse nurseries worldwide using parameters locally determined in north-west Mexico. <i>Journal of Agricultural Science</i> , 2012, 150, 23-43.	1.2	6
187	Is data needed from every field to determine in-season precision nitrogen recommendations in winter wheat?. <i>Precision Agriculture</i> , 2013, 14, 245-269.	5.8	6
188	EFFECT OF DELAYED EMERGENCE ON CORN (<i>ZEA MAYS</i>) GRAIN YIELD. <i>Journal of Plant Nutrition</i> , 2014, 37, 198-208.	2.0	6
189	Forms of Inorganic Nitrogen in Soil. <i>Agronomy</i> , 0, , 31-55.	0.0	6
190	Hand planter for maize (<i>Zea mays</i>) in the developing world. <i>Journal of Plant Nutrition</i> , 2016, 39, 1233-1239.	2.0	6
191	Evaluation of drum cavity size and planter tip on singulation and plant emergence in maize (<i>Zea</i>)	2.0	6
192	Maize (<i>Zea mays</i> L.) Grain Yield Response to Methods of Nitrogen Fertilization. <i>Communications in Soil Science and Plant Analysis</i> , 2019, 50, 2694-2700.	1.4	6
193	No-tillage Improves Winter Wheat (<i>Triticum Aestivum</i> L.) Grain Nitrogen Use Efficiency. <i>Communications in Soil Science and Plant Analysis</i> , 2019, 50, 2411-2419.	1.4	6
194	Does phosphite, a reduced form of phosphate contribute to phosphorus nutrition in corn (<i>Zea</i>)	2.0	6
195	Active optical sensor measurements and weather variables for predicting winter wheat yield. <i>Agronomy Journal</i> , 2021, 113, 2742-2751.	1.8	6
196	A Field Exercise to Acquaint Students with Soil Testing as a Measure of Soil Fertility Status and Field Variability. <i>Journal of Natural Resources and Life Sciences Education</i> , 1997, 26, 132-135.	0.3	5
197	Forage yield and crude protein of interseeded legume-bermudagrass mixtures as affected by phosphorus fertilizer ¹ . <i>Journal of Plant Nutrition</i> , 2000, 23, 673-681.	2.0	5
198	Indirect Estimates of Soil Electrical Conductivity for Improved Prediction of Wheat Grain Yield. <i>Communications in Soil Science and Plant Analysis</i> , 2005, 35, 2639-2653.	1.4	5

#	ARTICLE	IF	CITATIONS
199	The Magruder Plots: Untangling the Puzzle. <i>Agronomy Journal</i> , 2008, 100, S-11-S-18.	1.8	5
200	MAIZE GRAIN YIELD RESPONSE TO THE DISTANCE NITROGEN IS PLACED AWAY FROM THE ROW. <i>Experimental Agriculture</i> , 2013, 49, 3-18.	0.9	5
201	Predicting Early Season Nitrogen Rates of Corn Using Indicator Crops. <i>Agronomy Journal</i> , 2017, 109, 2863-2870.	1.8	5
202	Influence of Applied Cattle Manure on Winter Wheat (<i>Triticum aestivum</i> L.) Grain Yield, Soil pH and Soil Organic Carbon. <i>Communications in Soil Science and Plant Analysis</i> , 2019, 50, 2056-2064.	1.4	5
203	Recovery of Phosphorus in Soils Amended with Manure for 119 Years. <i>Agronomy</i> , 2020, 10, 1947.	3.1	5
204	Effect of winter wheat cultivar on grain yield trend under different nitrogen management. , 2020, 3, e20017.		5
205	Improving winter wheat grain yield and nitrogen use efficiency using nitrogen application time and rate. , 2021, 4, e20148.		5
206	Soil test phosphorus crop response projections to variable rate application in winter wheat. <i>Communications in Soil Science and Plant Analysis</i> , 1998, 29, 1731-1738.	1.4	4
207	PAPER PRESENTED AT INTERNATIONAL WORKSHOP ON INCREASING WHEAT YIELD POTENTIAL, CIMMYT, OBREGON, MEXICO, 20â€“24 MARCH 2006 Improving estimation of N top-dressing by addressing temporal variability in winter wheat. <i>Journal of Agricultural Science</i> , 2007, 145, 45-53.	1.2	4
208	Relationship between mean square errors and wheat grain yields in long-term experiments. <i>Journal of Plant Nutrition</i> , 2017, 40, 1243-1249.	2.0	4
209	Switchgrass forage yield and biofuel quality with no-tillage interseeded winter legumes in the southern Great Plains. <i>Journal of Plant Nutrition</i> , 2017, 40, 2382-2391.	2.0	4
210	Influence of Droplet Size of Foliarâ€“Applied Nitrogen on Grain Protein Content of Hard Red Winter Wheat. <i>Crop, Forage and Turfgrass Management</i> , 2017, 3, 1-10.	0.7	4
211	Hand Planter for the Developing World: Factor Testing and Refinement. , 2018, 1, 1-6.		4
212	Changes in Check Plot Yields over Time in Three Long-Term Winter Wheat Experiments. <i>Communications in Soil Science and Plant Analysis</i> , 2020, 51, 297-306.	1.4	4
213	Extractable nitrogen using hot potassium chloride as a mineralization potential index. <i>Journal of Plant Nutrition</i> , 1998, 21, 1253-1271.	2.0	3
214	Plant and Soil Responses to Source, Rate, and Timing of Applied N for Plains Bluestem Production. <i>Journal of Production Agriculture</i> , 1999, 12, 254-257.	0.4	3
215	Temporally and Spatially Dependent Nitrogen Management for Diverse Environments. , 2009, , 203-214.		3
216	Bacterial Community in Soils Following Century-Long Application of Organic or Inorganic Fertilizers under Continuous Winter Wheat Cultivation. <i>Agronomy</i> , 2020, 10, 1497.	3.1	3

#	ARTICLE	IF	CITATIONS
217	Effect of topdress nitrogen rates applied based on growing degree days on winter wheat grain yield. <i>Agronomy Journal</i> , 2020, 112, 3114-3128.	1.8	3
218	Effect of Spacing, Planting Methods and Nitrogen on Maize Grain Yield. <i>Communications in Soil Science and Plant Analysis</i> , 2020, 51, 1582-1589.	1.4	3
219	Indirect Estimates of Soil Electrical Conductivity for Improved Prediction of Wheat Grain Yield. <i>Communications in Soil Science and Plant Analysis</i> , 2004, 35, 2639-2653.	1.4	3
220	Use of reflectometry for determination of nitrate-nitrogen in well water. <i>Journal of Plant Nutrition</i> , 1995, 18, 2569-2578.	2.0	2
221	Nitrogen Cycle Ninja, A Teaching Exercise. <i>Journal of Natural Resources and Life Sciences Education</i> , 1997, 26, 39-42.	0.3	2
222	Winter wheat and cheat seed response to foliar nitrogen applications. <i>Journal of Plant Nutrition</i> , 1999, 22, 1541-1549.	2.0	2
223	Grantsmanship Hints. <i>Agronomy Journal</i> , 2000, 92, 1-5.	1.8	2
224	EVALUATION OF TREATMENT BY ENVIRONMENT INTERACTIONS ON SANBORN FIELD, 1950-1990*. <i>Journal of Plant Nutrition</i> , 2002, 25, 201-212.	2.0	2
225	CHANGES IN TOTAL INORGANIC PROFILE NITROGEN IN LONG-TERM RYE-WHEAT-RYEGRASS FORAGE PRODUCTION SYSTEM*. <i>Journal of Plant Nutrition</i> , 2002, 25, 2285-2294.	2.0	2
226	Can Oklahoma Mesonet Cumulative Evapotranspiration Data Be Accurately Predicted Using Three Interpolation Methods?. <i>Communications in Soil Science and Plant Analysis</i> , 2013, 44, 892-899.	1.4	2
227	Influence of droplet size of foliar-applied nitrogen on grain protein content of hard red winter wheat. <i>Crops & Soils</i> , 2018, 51, 48-58.	0.2	2
228	Economics of the Greenseeder Hand Planter. , 2019, 2, 1-7.		2
229	Value of composite Normalized Difference Vegetative Index and growing degree days data in Oklahoma, 1999 to 2018. , 2020, 3, e20013.		2
230	Maize yield response as affected by phosphorus, sulfur and nitrogen as banded applications on a volcanic ash derived tropical soil. <i>Communications in Soil Science and Plant Analysis</i> , 1991, 22, 1661-1676.	1.4	1
231	Bed and flat planted dryland winter wheat as influenced by row configuration. <i>Archives of Agronomy and Soil Science</i> , 2007, 53, 293-304.	2.6	1
232	Design, Performance Prediction, and Validation of a Seed Orienting Corn Planter. , 2013, , .		1
233	Determination of optimum resolution for predicting corn grain yield using sensor measurements. <i>Archives of Agronomy and Soil Science</i> , 2008, 54, 481-491.	2.6	0
234	Corn Sensor Development for By-Plant Management. , 2012, , .		0

#	ARTICLE	IF	CITATIONS
235	System and Algorithm Development of Automatic Corn Plant Identification Using Laser Line-scan Technique. , 2012, , .		0
236	Evaluation of Sorghum Emergence and Grain Yield Response to Seeding Density and Plant Spacing Attained Using the OSU Hand Planter. Communications in Soil Science and Plant Analysis, 2021, 52, 1762-1771.	1.4	0
237	Advances in Nitrogen Handling Strategies to Increase the Productivity of Wheat. , 2007, , 169-173.		0