

William R Raun

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

235
papers

8,814
citations

49
h-index

87
g-index

240
ext. papers

9,880
ext. citations

2.4
avg, IF

5.95
L-index

#	Paper	IF	Citations
235	Active optical sensor measurements and weather variables for predicting winter wheat yield. <i>Agronomy Journal</i> , 2021 , 113, 2742-2751	2.2	1
234	Evaluation of Sorghum Emergence and Grain Yield Response to Seeding Density and Plant Spacing Attained Using the OSU Hand Planter. <i>Communications in Soil Science and Plant Analysis</i> , 2021 , 52, 1762-1771	1.5	1
233	Improving winter wheat grain yield and nitrogen use efficiency using nitrogen application time and rate 2021 , 4, e20148		2
232	Effect of topdress nitrogen rates applied based on growing degree days on winter wheat grain yield. <i>Agronomy Journal</i> , 2020 , 112, 3114-3128	2.2	0
231	Effect of Spacing, Planting Methods and Nitrogen on Maize Grain Yield. <i>Communications in Soil Science and Plant Analysis</i> , 2020 , 51, 1582-1589	1.5	2
230	Value of composite Normalized Difference Vegetative Index and growing degree days data in Oklahoma, 1999 to 2018 2020 , 3, e20013		1
229	Effect of winter wheat cultivar on grain yield trend under different nitrogen management 2020 , 3, e20017		2
228	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	2.2	8
227	Nitrogen management impact on winter wheat grain yield and estimated plant nitrogen loss. <i>Agronomy Journal</i> , 2020 , 112, 564-577	2.2	15
226	Wheat grain yield and nitrogen uptake as influenced by fertilizer placement depth 2020 , 3, e20025		3
225	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	1.5	3
224	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	1.5	3
223	Bacterial Community in Soils Following Century-Long Application of Organic or Inorganic Fertilizers under Continuous Winter Wheat Cultivation. <i>Agronomy</i> , 2020 , 10, 1497	3.6	1
222	Predicting in-season maize (<i>Zea mays</i> L.) yield potential using crop sensors and climatological data. <i>Scientific Reports</i> , 2020 , 10, 11479	4.9	4
221	Biochar Application in Combination with Inorganic Nitrogen Improves Maize Grain Yield, Nitrogen Uptake, and Use Efficiency in Temperate Soils. <i>Agronomy</i> , 2020 , 10, 1241	3.6	13
220	Review of Active Optical Sensors for Improving Winter Wheat Nitrogen Use Efficiency. <i>Agronomy</i> , 2020 , 10, 1157	3.6	4
219	Recovery of Phosphorus in Soils Amended with Manure for 119 Years. <i>Agronomy</i> , 2020 , 10, 1947	3.6	3

218	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	1.5	5
217	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	1.5	2
216	In-Season Application of Nitrogen and Sulfur in Winter Wheat 2019 , 2, 1-8		4
215	Economics of the Greenseeder Hand Planter 2019 , 2, 1-7		2
214	Does phosphite, a reduced form of phosphate contribute to phosphorus nutrition in corn (<i>Zea mays</i> L.)?. <i>Journal of Plant Nutrition</i> , 2019 , 42, 982-989	2.3	5
213	Prediction of maize (<i>Zea mays</i> L.) population using normalized-difference vegetative index (NDVI) and coefficient of variation (CV). <i>Journal of Plant Nutrition</i> , 2019 , 42, 673-679	2.3	4
212	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	5.5	50
211	World Potassium Use Efficiency in Cereal Crops. <i>Agronomy Journal</i> , 2019 , 111, 889-896	2.2	37
210	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	1.9	7
209	World Cereal Nitrogen Use Efficiency Trends: Review and Current Knowledge 2019 , 2, 1-8		56
208	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	1.5	5
207	World Sulfur Use Efficiency for Cereal Crops. <i>Agronomy Journal</i> , 2019 , 111, 2485-2492	2.2	20
206	Influence of No-Tillage on Soil Organic Carbon, Total Soil Nitrogen, and Winter Wheat (<i>Triticum aestivum</i> L.) Grain Yield. <i>International Journal of Agronomy</i> , 2019 , 2019, 1-9	1.9	9
205	Unpredictable Nature of Environment on Nitrogen Supply and Demand. <i>Agronomy Journal</i> , 2019 , 111, 2786-2791	2.2	20
204	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	2.3	11
203	Soil Organic Carbon, Total Nitrogen, and Soil pH, in a Long-Term Continuous Winter Wheat (<i>Triticum Aestivum</i> L.) Experiment. <i>Communications in Soil Science and Plant Analysis</i> , 2018 , 49, 803-813	1.5	11
202	Nitrogen fertilizer recommendations based on plant sensing and Bayesian updating. <i>Precision Agriculture</i> , 2018 , 19, 79-92	5.6	6
201	Yield response of corn and grain sorghum to row offsets on subsurface drip laterals. <i>Agricultural Water Management</i> , 2018 , 208, 357-362	5.9	6

200	Hand Planter for the Developing World: Factor Testing and Refinement 2018 , 1, 1-6		3
199	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	0.3	1
198	Relationship between mean square errors and wheat grain yields in long-term experiments. <i>Journal of Plant Nutrition</i> , 2017 , 40, 1243-1249	2.3	4
197	SEED-ORIENTED PLANTING IMPROVES LIGHT INTERCEPTION, RADIATION USE EFFICIENCY AND GRAIN YIELD OF MAIZE (<i>Zea mays</i> L.) [CORRIGENDUM]. <i>Experimental Agriculture</i> , 2017 , 53, 226-226	1.7	1
196	SEED-ORIENTED PLANTING IMPROVES LIGHT INTERCEPTION, RADIATION USE EFFICIENCY AND GRAIN YIELD OF MAIZE (<i>Zea mays</i> L.)*. <i>Experimental Agriculture</i> , 2017 , 53, 210-225	1.7	9
195	Can Yield Goals Be Predicted?. <i>Agronomy Journal</i> , 2017 , 109, 2389-2395	2.2	14
194	World Phosphorus Use Efficiency in Cereal Crops. <i>Agronomy Journal</i> , 2017 , 109, 1670-1677	2.2	83
193	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	2.3	2
192	Predicting Early Season Nitrogen Rates of Corn Using Indicator Crops. <i>Agronomy Journal</i> , 2017 , 109, 2863-2870		4
191	Evaluation of drum cavity size and planter tip on singulation and plant emergence in maize (<i>Zea mays</i> L.). <i>Journal of Plant Nutrition</i> , 2017 , 40, 2829-2840	2.3	6
190	Influence of Droplet Size of Foliar-Applied Nitrogen on Grain Protein Content of Hard Red Winter Wheat. <i>Crop, Forage and Turfgrass Management</i> , 2017 , 3, cftm2016.10.0068	0.5	3
189	Hand planter for maize (<i>Zea mays</i> L.) in the developing world. <i>Journal of Plant Nutrition</i> , 2016 , 39, 1233-1239		5
188	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	5.6	25
187	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	1.5	28
186	Bermudagrass, Wheat, and Tall Fescue Crude Protein Forage Estimation using Mobile-Platform, Active-Spectral and Canopy-Height Data. <i>Crop Science</i> , 2016 , 56, 870-881	2.4	9
185	Development of an NDVI-Based Nitrogen Rate Calculator for Cotton. <i>Crop Science</i> , 2016 , 56, 3263-3271	2.4	11
184	Algorithms for In-Season Nutrient Management in Cereals. <i>Agronomy Journal</i> , 2016 , 108, 1775-1781	2.2	54
183	Irrigated and rain-fed maize response to different nitrogen fertilizer application methods. <i>Journal of Plant Nutrition</i> , 2016 , 39, 1874-1890	2.3	5

182	Variability in Optimum Nitrogen Rates for Maize. <i>Agronomy Journal</i> , 2016 , 108, 2165-2173	2.2	52
181	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	5.6	9
180	Nutrient sources and harvesting frequency on quality biomass production of switchgrass (<i>Panicum virgatum</i> L.) for biofuel. <i>Biomass and Bioenergy</i> , 2015 , 81, 242-248	5.3	14
179	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	1.5	10
178	Crop Nitrogen Requirement and Fertilization. <i>Agronomy</i> , 2015 , 563-612	0.8	13
177	Nitrogen Availability. <i>Agronomy</i> , 2015 , 613-646	0.8	14
176	Crop Monitoring Technologies to Assess Nitrogen Status. <i>Agronomy</i> , 2015 , 647-674	0.8	14
175	Nitrogen Management for Improved Use Efficiency. <i>Agronomy</i> , 2015 , 675-693	0.8	11
174	Forms of Inorganic Nitrogen in Soil. <i>Agronomy</i> , 2015 , 31-55	0.8	4
173	Improvement of a ground-LiDAR-based corn plant population and spacing measurement system. <i>Computers and Electronics in Agriculture</i> , 2015 , 112, 92-101	6.5	18
172	In-Season Prediction of Nitrogen Use Efficiency and Grain Protein in Winter Wheat (<i>Triticum aestivum</i> L.). <i>Communications in Soil Science and Plant Analysis</i> , 2014 , 45, 2480-2494	1.5	14
171	EFFECT OF DELAYED EMERGENCE ON CORN (<i>ZEA MAYS</i> L.) GRAIN YIELD. <i>Journal of Plant Nutrition</i> , 2014 , 37, 198-208	2.3	5
170	Effect of Seed Distribution and Population on Maize (<i>Zea mays</i> L.) Grain Yield. <i>International Journal of Agronomy</i> , 2014 , 2014, 1-8	1.9	6
169	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	1.9	3
168	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	1.9	13
167	Automatic corn plant location and spacing measurement using laser line-scan technique. <i>Precision Agriculture</i> , 2013 , 14, 478-494	5.6	19
166	Use of soil moisture data for refined GreenSeeker sensor based nitrogen recommendations in winter wheat (<i>Triticum aestivum</i> L.). <i>Precision Agriculture</i> , 2013 , 14, 343-356	5.6	43
165	MAIZE GRAIN YIELD RESPONSE TO VARIABLE ROW NITROGEN FERTILIZATION. <i>Journal of Plant Nutrition</i> , 2013 , 36, 1013-1024	2.3	8

164	Is data needed from every field to determine in-season precision nitrogen recommendations in winter wheat?. <i>Precision Agriculture</i> , 2013 , 14, 245-269	5.6	4
163	Genetic Yield Potential Improvement of Semidwarf Winter Wheat in the Great Plains. <i>Crop Science</i> , 2013 , 53, 946-955	2.4	31
162	NITROGEN FERTILIZER MANAGEMENT FOR IMPROVED GRAIN QUALITY AND YIELD IN WINTER WHEAT IN OKLAHOMA. <i>Journal of Plant Nutrition</i> , 2013 , 36, 749-761	2.3	29
161	MAIZE GRAIN YIELD RESPONSE TO THE DISTANCE NITROGEN IS PLACED AWAY FROM THE ROW. <i>Experimental Agriculture</i> , 2013 , 49, 3-18	1.7	4
160	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	1.5	2
159	Applied Model for Estimating Potential Ammonia Loss from Surface-Applied Urea. <i>Communications in Soil Science and Plant Analysis</i> , 2013 , 44, 2055-2063	1.5	7
158	Small-Scale Spatial Variability in Winter Wheat Production. <i>Communications in Soil Science and Plant Analysis</i> , 2013 , 44, 2830-2838	1.5	5
157	Relationship between Grain Crop Yield Potential and Nitrogen Response. <i>Agronomy Journal</i> , 2013 , 105, 1335-1344	2.2	32
156	Design, Performance Prediction, and Validation of a Seed Orienting Corn Planter 2013 ,		1
155	BY-PLANT PREDICTION OF CORN GRAIN YIELD USING OPTICAL SENSOR READINGS AND MEASURED PLANT HEIGHT. <i>Journal of Plant Nutrition</i> , 2012 , 35, 1429-1439	2.3	16
154	EFFECT OF DELAYED EMERGENCE ON CORN GRAIN YIELDS. <i>Journal of Plant Nutrition</i> , 2012 , 35, 480-496.	2.3	8
153	EFFICIENCY OF PRE-PLANT, TOPDRESS, AND VARIABLE RATE APPLICATION OF NITROGEN IN WINTER WHEAT. <i>Journal of Plant Nutrition</i> , 2012 , 35, 1776-1790	2.3	7
152	EFFECT OF DELAYED NITROGEN FERTILIZATION ON MAIZE (ZEA MAYS L.) GRAIN YIELDS AND NITROGEN USE EFFICIENCY. <i>Journal of Plant Nutrition</i> , 2012 , 35, 538-555	2.3	41
151	Generalized Algorithm for Variable-Rate Nitrogen Application in Cereal Grains. <i>Agronomy Journal</i> , 2012 , 104, 378-387	2.2	42
150	RED EDGE AS A POTENTIAL INDEX FOR DETECTING DIFFERENCES IN PLANT NITROGEN STATUS IN WINTER WHEAT. <i>Journal of Plant Nutrition</i> , 2012 , 35, 1526-1541	2.3	32
149	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	5
148	Corn Response to Nitrogen is Influenced by Soil Texture and Weather. <i>Agronomy Journal</i> , 2012 , 104, 1658-1671	2.2	133
147	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	6.1	10

146	Profitability of variable rate nitrogen application in wheat production. <i>Precision Agriculture</i> , 2011 , 12, 473-487	5.6	33
145	Independence of yield potential and crop nitrogen response. <i>Precision Agriculture</i> , 2011 , 12, 508-518	5.6	66
144	Replicability of nitrogen recommendations from ramped calibration strips in winter wheat. <i>Precision Agriculture</i> , 2011 , 12, 653-665	5.6	13
143	Assessment of the nitrogen management strategy using an optical sensor for irrigated wheat. <i>Agronomy for Sustainable Development</i> , 2011 , 31, 589-603	6.8	68
142	MAIZE (ZEA MAYS) LEAF ANGLE AND EMERGENCE AS AFFECTED BY SEED ORIENTATION AT PLANTING. <i>Experimental Agriculture</i> , 2011 , 47, 579-592	1.7	6
141	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	183
140	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	19
139	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	2.4	94
138	NITROGEN ACCUMULATION IN SHOOTS AS A FUNCTION OF GROWTH STAGE OF CORN AND WINTER WHEAT. <i>Journal of Plant Nutrition</i> , 2010 , 34, 165-182	2.3	16
137	CHANGES IN RESPONSE INDICES AS A FUNCTION OF TIME IN WINTER WHEAT. <i>Journal of Plant Nutrition</i> , 2010 , 33, 796-808	2.3	5
136	Economic feasibility of site-specific optical sensing for managing nitrogen fertilizer for growing wheat. <i>Precision Agriculture</i> , 2009 , 10, 213-230	5.6	18
135	The economic potential of precision nitrogen application with wheat based on plant sensing. <i>Agricultural Economics (United Kingdom)</i> , 2009 , 40, 397-407	2.8	39
134	Relationship between Nitrogen Use Efficiency and Response Index in Winter Wheat. <i>Journal of Plant Nutrition</i> , 2009 , 32, 502-515	2.3	12
133	Cereal Nitrogen Use Efficiency in Sub Saharan Africa. <i>Journal of Plant Nutrition</i> , 2009 , 32, 2107-2122	2.3	20
132	Association of biomass production and canopy spectral reflectance indices in winter wheat. <i>Canadian Journal of Plant Science</i> , 2009 , 89, 485-496	1	8
131	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	72
130	Responsive in-season nitrogen management for cereals. <i>Computers and Electronics in Agriculture</i> , 2008 , 61, 51-62	6.5	190
129	Effect of Treating Field Spatial Variability in Winter Wheat at Different Resolutions. <i>Journal of Plant Nutrition</i> , 2008 , 31, 1975-1998	2.3	10

128	Adjusting Midseason Nitrogen Rate Using a Sensor-Based Optimization Algorithm to Increase Use Efficiency in Corn. <i>Journal of Plant Nutrition</i> , 2008 , 31, 1393-1419	2.3	58
127	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	
126	The Magruder Plots: Untangling the Puzzle. <i>Agronomy Journal</i> , 2008 , 100, S-11-S-18	2.2	3
125	The Effect of Long-Term Annual Application of Biosolids on Soil Properties, Phosphorus, and Metals. <i>Soil Science Society of America Journal</i> , 2008 , 72, 73-82	2.5	37
124	Ramp Calibration Strip Technology for Determining Midseason Nitrogen Rates in Corn and Wheat. <i>Agronomy Journal</i> , 2008 , 100, 1088-1093	2.2	50
123	Weather, Fertilizer, Previous Year Yield, and Fertilizer Levels Affect Ensuing Year Fertilizer Response of Wheat. <i>Agronomy Journal</i> , 2007 , 99, 1607-1614	2.2	20
122	Expression of Variability in Corn as Influenced by Growth Stage Using Optical Sensor Measurements. <i>Agronomy Journal</i> , 2007 , 99, 384-389	2.2	58
121	Hard Red Winter Wheat Cultivar Responses to a pH and Aluminum Concentration Gradient. <i>Agronomy Journal</i> , 2007 , 99, 88-98	2.2	49
120	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		6
119	PAPER PRESENTED AT INTERNATIONAL WORKSHOP ON INCREASING WHEAT YIELD POTENTIAL, CIMMYT, OBREGON, MEXICO, 2004 MARCH 2006 Reduced nitrogen and improved farm income for irrigated spring wheat in the Yaqui Valley, Mexico, using sensor based nitrogen management. <i>Journal of Agricultural Science</i> , 2007 , 145, 215-222	1	52
118	Use of In-Season Reflectance for Predicting Yield Potential in Bermudagrass. <i>Communications in Soil Science and Plant Analysis</i> , 2007 , 38, 1519-1531	1.5	5
117	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	1
116	Analysis of yield variability in winter wheat due to temporal variability, and nitrogen and phosphorus fertilization. <i>Archives of Agronomy and Soil Science</i> , 2007 , 53, 435-442	2	12
115	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	2.3	4
114	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	2.4	83
113	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	2.2	137
112	Genetic Analysis of Indirect Selection for Winter Wheat Grain Yield Using Spectral Reflectance Indices. <i>Crop Science</i> , 2007 , 47, 1416-1425	2.4	62
111	The Magruder Plots: Untangling the Puzzle. <i>Agronomy Journal</i> , 2007 , 99, 1191-1198	2.2	35

110	PAPER PRESENTED AT INTERNATIONAL WORKSHOP ON INCREASING WHEAT YIELD POTENTIAL, CIMMYT, OBREGON, MEXICO, 2004 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	4
109	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	2.3	8
108	Determination of Optimum Rate and Growth Stage for Foliar-Applied Phosphorus in Corn. <i>Communications in Soil Science and Plant Analysis</i> , 2007 , 38, 1137-1154	1.5	42
107	In-season estimation of grain sorghum yield potential using a hand-held optical sensor. <i>Archives of Agronomy and Soil Science</i> , 2007 , 53, 617-628	2	13
106	Advances in Nitrogen Handling Strategies to Increase the Productivity of Wheat 2007 , 169-173		
105	Recovery and Partitioning of Nitrogen from Early Spring and Midsummer Applications to Pecan Trees. <i>Journal of the American Society for Horticultural Science</i> , 2007 , 132, 758-763	2.3	7
104	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	2.4	166
103	Mid-Season Recovery from Nitrogen Stress in Winter Wheat. <i>Journal of Plant Nutrition</i> , 2006 , 29, 727-745.	2.3	23
102	Mid-Season Prediction of Wheat-Grain Yield Potential Using Plant, Soil, and Sensor Measurements. <i>Journal of Plant Nutrition</i> , 2006 , 29, 873-897	2.3	32
101	Effect of Foliar Application of Phosphorus on Winter Wheat Grain Yield, Phosphorus Uptake, and Use Efficiency. <i>Journal of Plant Nutrition</i> , 2006 , 29, 2147-2163	2.3	39
100	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	2.3	20
99	Response of Winter Wheat to Chloride Fertilization in Sandy Loam Soils. <i>Communications in Soil Science and Plant Analysis</i> , 2006 , 37, 1947-1955	1.5	9
98	Spectral Reflectance Indices as a Potential Indirect Selection Criteria for Wheat Yield under Irrigation. <i>Crop Science</i> , 2006 , 46, 578-588	2.4	144
97	In-Season Prediction of Corn Grain Yield Potential Using Normalized Difference Vegetation Index. <i>Agronomy Journal</i> , 2006 , 98, 1488-1494	2.2	194
96	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	10
95	Maximum benefit of a precise nitrogen application system for wheat. <i>Precision Agriculture</i> , 2006 , 7, 193-204	2.4	37
94	Relationship Between Response Indices Measured In-Season and at Harvest in Winter Wheat. <i>Journal of Plant Nutrition</i> , 2005 , 28, 221-235	2.3	20
93	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	2.3	16

92	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	2.3	78
91	Growth Stage, Development, and Spatial Variability in Corn Evaluated Using Optical Sensor Readings * View all notes. <i>Journal of Plant Nutrition</i> , 2005 , 28, 173-182	2.3	44
90	Identification of Optical Spectral Signatures for Detecting Cheat and Ryegrass in Winter Wheat. <i>Crop Science</i> , 2005 , 45, 477-485	2.4	24
89	Plant-to-Plant Variability in Corn Production. <i>Agronomy Journal</i> , 2005 , 97, 1603-1611	2.2	43
88	Optical Sensor-Based Algorithm for Crop Nitrogen Fertilization. <i>Communications in Soil Science and Plant Analysis</i> , 2005 , 36, 2759-2781	1.5	192
87	Switchgrass Response to Harvest Frequency and Time and Rate of Applied Nitrogen. <i>Journal of Plant Nutrition</i> , 2005 , 27, 1199-1226	2.3	103
86	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	1.5	5
85	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	2.3	6
84	Bacterial community structure and diversity in a century-old manure-treated agroecosystem. <i>Applied and Environmental Microbiology</i> , 2004 , 70, 5868-74	4.8	157
83	Optical Sensing of Turfgrass Chlorophyll Content and Tissue Nitrogen. <i>Hortscience: A Publication of the American Society for Horticultural Science</i> , 2004 , 39, 1130-1132	2.4	42
82	Nitrogen Response Index as a Guide to Fertilizer Management. <i>Journal of Plant Nutrition</i> , 2003 , 26, 249-262		93
81	Late-season Prediction Of Wheat Grain Yield And Grain Protein. <i>Communications in Soil Science and Plant Analysis</i> , 2003 , 34, 1837-1852	1.5	43
80	Canopy Reduction and Legume Interseeding in Irrigated Continuous Corn. <i>Journal of Plant Nutrition</i> , 2003 , 26, 1335-1343	2.3	6
79	Nitrogen Balance in the Magruder Plots Following 109 Years in Continuous Winter Wheat. <i>Journal of Plant Nutrition</i> , 2003 , 26, 1561-1580	2.3	38
78	Identifying an In-Season Response Index and the Potential to Increase Wheat Yield with Nitrogen. <i>Agronomy Journal</i> , 2003 , 95, 347	2.2	100
77	Identifying an In-Season Response Index and the Potential to Increase Wheat Yield with Nitrogen. <i>Agronomy Journal</i> , 2003 , 95, 347-351	2.2	49
76	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	6.1	88
75	Improving Nitrogen Use Efficiency in Cereal Grain Production with Optical Sensing and Variable Rate Application. <i>Agronomy Journal</i> , 2002 , 94, 815	2.2	100

74	Influence of Late-Season Foliar Nitrogen Applications on Yield and Grain Nitrogen in Winter Wheat. <i>Agronomy Journal</i> , 2002 , 94, 429	2.2	55
73	Long-term cattle manure application in soil. <i>Biology and Fertility of Soils</i> , 2002 , 35, 328-337	6.1	135
72	RELATIONSHIP BETWEEN AMMONIUM AND NITRATE IN WHEAT PLANT TISSUE AND ESTIMATED NITROGEN LOSS. <i>Journal of Plant Nutrition</i> , 2002 , 25, 1429-1442	2.3	13
71	EVALUATION OF TREATMENT BY ENVIRONMENT INTERACTIONS ON SANBORN FIELD, 1950-1990*. <i>Journal of Plant Nutrition</i> , 2002 , 25, 201-212	2.3	1
70	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	2.3	2
69	Influence of Late-Season Foliar Nitrogen Applications on Yield and Grain Nitrogen in Winter Wheat. <i>Agronomy Journal</i> , 2002 , 94, 429-434	2.2	95
68	Improving Nitrogen Use Efficiency in Cereal Grain Production with Optical Sensing and Variable Rate Application. <i>Agronomy Journal</i> , 2002 , 94, 815-820	2.2	494
67	WITHIN FIELD VARIABILITY IN WHEAT GRAIN YIELDS OVER NINE YEARS IN OKLAHOMA. <i>Journal of Plant Nutrition</i> , 2002 , 25, 2655-2662	2.3	17
66	Production System Techniques to Increase Nitrogen Use Efficiency in Winter Wheat*. <i>Journal of Plant Nutrition</i> , 2002 , 25, 2261-2283	2.3	25
65	OPTIMUM FIELD ELEMENT SIZE FOR MAXIMUM YIELDS IN WINTER WHEAT, USING VARIABLE NITROGEN RATES. <i>Journal of Plant Nutrition</i> , 2001 , 24, 313-325	2.3	9
64	EFFECT OF CHLORIDE FERTILIZERS AND LIME ON WHEAT GRAIN YIELD AND TAKE-ALL DISEASE. <i>Journal of Plant Nutrition</i> , 2001 , 24, 683-692	2.3	8
63	Estimated land area increase of agricultural ecosystems to sequester excess atmospheric carbon dioxide. <i>Communications in Soil Science and Plant Analysis</i> , 2001 , 32, 1803-1812	1.5	7
62	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	2.3	123
61	In-Season Prediction of Potential Grain Yield in Winter Wheat Using Canopy Reflectance. <i>Agronomy Journal</i> , 2001 , 93, 131-138	2.2	303
60	Grantsmanship Hints. <i>Agronomy Journal</i> , 2000 , 92, 1-5	2.2	1
59	Testing statistical hypotheses using standard error bars and confidence intervals. <i>Communications in Soil Science and Plant Analysis</i> , 2000 , 31, 547-551	1.5	79
58	Increased plant nitrogen loss with increasing nitrogen applied in winter wheat observed with 15nitrogen. <i>Journal of Plant Nutrition</i> , 2000 , 23, 219-230	2.3	17
57	Effect of dual applied phosphorus and gypsum on wheat forage and grain yield. <i>Journal of Plant Nutrition</i> , 2000 , 23, 251-261	2.3	8

56	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	1.5	82
55	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	2.3	20
54	Effect of growth stage and variety on spectral radiance in winter wheat. <i>Journal of Plant Nutrition</i> , 2000 , 23, 141-149	2.3	20
53	Winter wheat fertilizer nitrogen use efficiency in grain and forage production systems. <i>Journal of Plant Nutrition</i> , 2000 , 23, 1505-1516	2.3	17
52	Forage yield and crude protein of interseeded legume-bermudagrass mixtures as affected by phosphorus fertilizer 1 Contribution from the Oklahoma Agricultural Experiment Station.. <i>Journal of Plant Nutrition</i> , 2000 , 23, 673-681	2.3	5
51	Bermudagrass Response to High Nitrogen Rates, Source, and Season of Application. <i>Agronomy Journal</i> , 1999 , 91, 438-444	2.2	30
50	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		3
49	Estimated increase in atmospheric carbon dioxide due to worldwide decrease in soil organic matter. <i>Communications in Soil Science and Plant Analysis</i> , 1999 , 30, 1713-1719	1.5	15
48	Relationship between mean yield, coefficient of variation, mean square error, and plot size in wheat field experiments. <i>Communications in Soil Science and Plant Analysis</i> , 1999 , 30, 1439-1447	1.5	52
47	Fertilizer Nitrogen Recovery in Long-Term Continuous Winter Wheat. <i>Soil Science Society of America Journal</i> , 1999 , 63, 645-650	2.5	16
46	Alfalfa Yield Response to Nitrogen Applied After Each Cutting. <i>Soil Science Society of America Journal</i> , 1999 , 63, 1237-1243	2.5	19
45	Submeter Spatial Variability of Selected Soil and Bermudagrass Production Variables. <i>Soil Science Society of America Journal</i> , 1999 , 63, 1724-1733	2.5	67
44	Estimating vegetation coverage in wheat using digital images. <i>Journal of Plant Nutrition</i> , 1999 , 22, 341-350		92
43	Winter wheat and cheat seed response to foliar nitrogen applications. <i>Journal of Plant Nutrition</i> , 1999 , 22, 1541-1549	2.3	2
42	Improving Nitrogen Use Efficiency for Cereal Production. <i>Agronomy Journal</i> , 1999 , 91, 357-363	2.2	1165
41	Effect of long-term N fertilization on soil organic C and total N in continuous wheat under conventional tillage in Oklahoma. <i>Soil and Tillage Research</i> , 1998 , 47, 323-330	6.5	63
40	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	1.5	4
39	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	2.3	6

38	Indirect measures of plant nutrients. <i>Communications in Soil Science and Plant Analysis</i> , 1998 , 29, 1571-1584	2.1	21
37	Microvariability in Soil Test, Plant Nutrient, and Yield Parameters in Bermudagrass. <i>Soil Science Society of America Journal</i> , 1998 , 62, 683-690	2.5	57
36	Extractable nitrogen using hot potassium chloride as a mineralization potential index. <i>Journal of Plant Nutrition</i> , 1998 , 21, 1253-1271	2.3	3
35	Use of spectral radiance for correcting nitrogen deficiencies and estimating soil test variability in an established bermudagrass pasture. <i>Journal of Plant Nutrition</i> , 1998 , 21, 2287-2302	2.3	14
34	Detection of nitrogen and phosphorus nutrient status in winter wheat using spectral radiance. <i>Journal of Plant Nutrition</i> , 1998 , 21, 1207-1233	2.3	33
33	Detection of nitrogen and phosphorus nutrient status in bermudagrass using spectral radiance. <i>Journal of Plant Nutrition</i> , 1998 , 21, 1189-1206	2.3	15
32	Effect of nitrogen rate on plant nitrogen loss in winter wheat varieties 1 Contribution from the Oklahoma Agricultural Experiment Station, Oklahoma State University, Stillwater, OK 74078. Published with approval of the Director, Oklahoma Agricultural Experiment Station.. <i>Journal of Plant Nutrition</i> , 1997 , 20, 389-404	2.3	50
31	Effect of sewage sludge and ammonium nitrate on wheat yield and soil profile inorganic nitrogen accumulation 1 Contribution from the Oklahoma Agricultural Experiment Station, Oklahoma State University, Stillwater, OK 74078. Published with approval of the Director, Oklahoma Agricultural Experiment Station. <i>Journal of Plant Nutrition</i> , 1997 , 20, 203-218	2.3	6
30	Long-Term Nitrogen Fertilization in Short-Season Cotton: Interpretation of Agronomic Characteristics Using Stability Analysis. <i>Journal of Production Agriculture</i> , 1997 , 10, 580-585		8
29	Wheat Grain Cadmium as Affected by Long-Term Fertilization and Soil Acidity. <i>Journal of Environmental Quality</i> , 1997 , 26, 265-272	3.4	24
28	Seasonal and Long-Term Changes in Nitrate-Nitrogen Content of Well Water in Oklahoma. <i>Journal of Environmental Quality</i> , 1997 , 26, 1632-1637	3.4	5
27	Nitrogen Cycle Ninja, A Teaching Exercise. <i>Journal of Natural Resources and Life Sciences Education</i> , 1997 , 26, 39-42		1
26	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		5
25	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		213
24	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		66
23	Long-Term Rye-Wheat-Ryegrass Forage Yields as Affected by Rate and Date of Applied Nitrogen. <i>Journal of Production Agriculture</i> , 1996 , 9, 510-516		10
22	Sensors for Detection of Nitrogen in Winter Wheat 1996 ,		11
21	Nitrogen Management in Dryland Cropping Systems. <i>Journal of Production Agriculture</i> , 1996 , 9, 192-199		34

20	Soil-Plant Buffering of Inorganic Nitrogen in Continuous Winter Wheat. <i>Agronomy Journal</i> , 1995 , 87, 827-834	2.2	45
19	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		23
18	Spring-Applied Nitrogen Fertilizer Influence on Winter Wheat and Residual Soil Nitrate. <i>Journal of Production Agriculture</i> , 1995 , 8, 584-589		6
17	Regional Maize Grain Yield Response to Applied Phosphorus in Central America. <i>Agronomy Journal</i> , 1995 , 87, 208-213	2.2	8
16	Use of reflectometry for determination of nitrate-nitrogen in well water. <i>Journal of Plant Nutrition</i> , 1995 , 18, 2569-2578	2.3	2
15	Time of Nitrogen Application: Effects on Winter Wheat and Residual Soil Nitrate. <i>Soil Science Society of America Journal</i> , 1995 , 59, 1364-1369	2.5	40
14	EFFECT OF WHEAT STRAW INVERSION ON SOIL WATER CONSERVATION. <i>Soil Science</i> , 1995 , 159, 81-89	0.9	13
13	Ammonium and Nitrate Nitrogen in Soil Profiles of Long-Term Winter Wheat Fertilization Experiments. <i>Agronomy Journal</i> , 1994 , 86, 94-99	2.2	30
12	Applications of Stability Analysis for Single-Site, Long-Term Experiments. <i>Agronomy Journal</i> , 1994 , 86, 1016-1019	2.2	26
11	Use of Stability Analysis for Long-Term Soil Fertility Experiments. <i>Agronomy Journal</i> , 1993 , 85, 159-167	2.2	62
10	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	1.5	1
9	Nitrate-N and phosphate-P concentration in winter wheat at varying growth stages(1) Contribution from Dept. of Agronomy, Oklahoma State Univ. Published as Journal Article No. 4279 of the OK Agric. Exp. Stn.. <i>Journal of Plant Nutrition</i> , 1991 , 14, 267-281	2.3	11
8	Nitrogen Fertilizer Carriers and Their Placement for Minimum Till Corn Under Sprinkler Irrigation. <i>Agronomy Journal</i> , 1989 , 81, 280-285	2.2	7
7	Alternative procedure for total phosphorus determination in plant tissue. <i>Communications in Soil Science and Plant Analysis</i> , 1987 , 18, 543-557	1.5	7
6	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	11
5	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	23
4	Nitrogen Management and Interseeding Effects on Irrigated Corn and Sorghum and on Soil Strength ¹ . <i>Agronomy Journal</i> , 1986 , 78, 856-862	2.2	27
3	Temporally and Spatially Dependent Nitrogen Management for Diverse Environments ² 203-214		2

2 Biological Dinitrogen Fixation in Agriculture. *Agronomy*,281-359 0.8 10

1 Indirect Estimates of Soil Electrical Conductivity for Improved Prediction of Wheat Grain Yield 3