

# William R Raun

## List of Publications by Citations

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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	Improving Nitrogen Use Efficiency for Cereal Production. <i>Agronomy Journal</i> , <b>1999</b> , 91, 357-363	2.2	1165
234	Improving Nitrogen Use Efficiency in Cereal Grain Production with Optical Sensing and Variable Rate Application. <i>Agronomy Journal</i> , <b>2002</b> , 94, 815-820	2.2	494
233	In-Season Prediction of Potential Grain Yield in Winter Wheat Using Canopy Reflectance. <i>Agronomy Journal</i> , <b>2001</b> , 93, 131-138	2.2	303
232	Use of Spectral Radiance for Correcting In-season Fertilizer Nitrogen Deficiencies in Winter Wheat. <i>Transactions of the American Society of Agricultural Engineers</i> , <b>1996</b> , 39, 1623-1631		213
231	In-Season Prediction of Corn Grain Yield Potential Using Normalized Difference Vegetation Index. <i>Agronomy Journal</i> , <b>2006</b> , 98, 1488-1494	2.2	194
230	Optical Sensor-Based Algorithm for Crop Nitrogen Fertilization. <i>Communications in Soil Science and Plant Analysis</i> , <b>2005</b> , 36, 2759-2781	1.5	192
229	Responsive in-season nitrogen management for cereals. <i>Computers and Electronics in Agriculture</i> , <b>2008</b> , 61, 51-62	6.5	190
228	Soil Acidification from Long-Term Use of Nitrogen Fertilizers on Winter Wheat. <i>Soil Science Society of America Journal</i> , <b>2011</b> , 75, 957-964	2.5	183
227	Spectral Reflectance to Estimate Genetic Variation for In-Season Biomass, Leaf Chlorophyll, and Canopy Temperature in Wheat. <i>Crop Science</i> , <b>2006</b> , 46, 1046-1057	2.4	166
226	Bacterial community structure and diversity in a century-old manure-treated agroecosystem. <i>Applied and Environmental Microbiology</i> , <b>2004</b> , 70, 5868-74	4.8	157
225	Spectral Reflectance Indices as a Potential Indirect Selection Criteria for Wheat Yield under Irrigation. <i>Crop Science</i> , <b>2006</b> , 46, 578-588	2.4	144
224	By-Plant Prediction of Corn Forage Biomass and Nitrogen Uptake at Various Growth Stages Using Remote Sensing and Plant Height. <i>Agronomy Journal</i> , <b>2007</b> , 99, 530-536	2.2	137
223	Long-term cattle manure application in soil. <i>Biology and Fertility of Soils</i> , <b>2002</b> , 35, 328-337	6.1	135
222	Corn Response to Nitrogen is Influenced by Soil Texture and Weather. <i>Agronomy Journal</i> , <b>2012</b> , 104, 1658-1671	2.2	133
221	NITROGEN FERTILIZATION OPTIMIZATION ALGORITHM BASED ON IN-SEASON ESTIMATES OF YIELD AND PLANT NITROGEN UPTAKE. <i>Journal of Plant Nutrition</i> , <b>2001</b> , 24, 885-898	2.3	123
220	Switchgrass Response to Harvest Frequency and Time and Rate of Applied Nitrogen. <i>Journal of Plant Nutrition</i> , <b>2005</b> , 27, 1199-1226	2.3	103
219	Identifying an In-Season Response Index and the Potential to Increase Wheat Yield with Nitrogen. <i>Agronomy Journal</i> , <b>2003</b> , 95, 347	2.2	100

218	Improving Nitrogen Use Efficiency in Cereal Grain Production with Optical Sensing and Variable Rate Application. <i>Agronomy Journal</i> , <b>2002</b> , 94, 815	2.2	100
217	Influence of Late-Season Foliar Nitrogen Applications on Yield and Grain Nitrogen in Winter Wheat. <i>Agronomy Journal</i> , <b>2002</b> , 94, 429-434	2.2	95
216	Spectral Water Indices for Assessing Yield in Elite Bread Wheat Genotypes under Well-Irrigated, Water-Stressed, and High-Temperature Conditions. <i>Crop Science</i> , <b>2010</b> , 50, 197-214	2.4	94
215	Nitrogen Response Index as a Guide to Fertilizer Management. <i>Journal of Plant Nutrition</i> , <b>2003</b> , 26, 249-262		93
214	Estimating vegetation coverage in wheat using digital images. <i>Journal of Plant Nutrition</i> , <b>1999</b> , 22, 341-350		92
213	Long-term cattle manure application in soil. II. Effect on soil microbial populations and community structure. <i>Biology and Fertility of Soils</i> , <b>2003</b> , 38, 209-215	6.1	88
212	World Phosphorus Use Efficiency in Cereal Crops. <i>Agronomy Journal</i> , <b>2017</b> , 109, 1670-1677	2.2	83
211	Potential Use of Spectral Reflectance Indices as a Selection Tool for Grain Yield in Winter Wheat under Great Plains Conditions. <i>Crop Science</i> , <b>2007</b> , 47, 1426-1440	2.4	83
210	Simultaneous determination of soil aluminum, ammonium- and nitrate-nitrogen using 1 M potassium chloride extraction. <i>Communications in Soil Science and Plant Analysis</i> , <b>2000</b> , 31, 893-903	1.5	82
209	Testing statistical hypotheses using standard error bars and confidence intervals. <i>Communications in Soil Science and Plant Analysis</i> , <b>2000</b> , 31, 547-551	1.5	79
208	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> , <b>2005</b> , 27, 1431-1441	2.3	78
207	In-Season Optical Sensing Improves Nitrogen-Use Efficiency for Winter Wheat. <i>Soil Science Society of America Journal</i> , <b>2009</b> , 73, 1566-1574	2.5	72
206	Assessment of the nitrogen management strategy using an optical sensor for irrigated wheat. <i>Agronomy for Sustainable Development</i> , <b>2011</b> , 31, 589-603	6.8	68
205	Submeter Spatial Variability of Selected Soil and Bermudagrass Production Variables. <i>Soil Science Society of America Journal</i> , <b>1999</b> , 63, 1724-1733	2.5	67
204	Independence of yield potential and crop nitrogen response. <i>Precision Agriculture</i> , <b>2011</b> , 12, 508-518	5.6	66
203	Optical Sensor Based Field Element Size and Sensing Strategy for Nitrogen Application. <i>Transactions of the American Society of Agricultural Engineers</i> , <b>1996</b> , 39, 1983-1992		66
202	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> , <b>1998</b> , 47, 323-330	6.5	63
201	Genetic Analysis of Indirect Selection for Winter Wheat Grain Yield Using Spectral Reflectance Indices. <i>Crop Science</i> , <b>2007</b> , 47, 1416-1425	2.4	62

200	Use of Stability Analysis for Long-Term Soil Fertility Experiments. <i>Agronomy Journal</i> , <b>1993</b> , 85, 159-167	2.2	62
199	Adjusting Midseason Nitrogen Rate Using a Sensor-Based Optimization Algorithm to Increase Use Efficiency in Corn. <i>Journal of Plant Nutrition</i> , <b>2008</b> , 31, 1393-1419	2.3	58
198	Expression of Variability in Corn as Influenced by Growth Stage Using Optical Sensor Measurements. <i>Agronomy Journal</i> , <b>2007</b> , 99, 384-389	2.2	58
197	Microvariability in Soil Test, Plant Nutrient, and Yield Parameters in Bermudagrass. <i>Soil Science Society of America Journal</i> , <b>1998</b> , 62, 683-690	2.5	57
196	World Cereal Nitrogen Use Efficiency Trends: Review and Current Knowledge <b>2019</b> , 2, 1-8		56
195	Influence of Late-Season Foliar Nitrogen Applications on Yield and Grain Nitrogen in Winter Wheat. <i>Agronomy Journal</i> , <b>2002</b> , 94, 429	2.2	55
194	Algorithms for In-Season Nutrient Management in Cereals. <i>Agronomy Journal</i> , <b>2016</b> , 108, 1775-1781	2.2	54
193	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> , <b>2007</b> , 145, 215-222	1	52
192	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> , <b>1999</b> , 30, 1439-1447	1.5	52
191	Variability in Optimum Nitrogen Rates for Maize. <i>Agronomy Journal</i> , <b>2016</b> , 108, 2165-2173	2.2	52
190	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> , <b>2019</b> , 236, 42-57	5.5	50
189	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> , <b>1997</b> , 20, 333-341	2.3	50
188	Ramp Calibration Strip Technology for Determining Midseason Nitrogen Rates in Corn and Wheat. <i>Agronomy Journal</i> , <b>2008</b> , 100, 1088-1093	2.2	50
187	Hard Red Winter Wheat Cultivar Responses to a pH and Aluminum Concentration Gradient. <i>Agronomy Journal</i> , <b>2007</b> , 99, 88-98	2.2	49
186	Identifying an In-Season Response Index and the Potential to Increase Wheat Yield with Nitrogen. <i>Agronomy Journal</i> , <b>2003</b> , 95, 347-351	2.2	49
185	Soil-Plant Buffering of Inorganic Nitrogen in Continuous Winter Wheat. <i>Agronomy Journal</i> , <b>1995</b> , 87, 827-834	2.2	45
184	Growth Stage, Development, and Spatial Variability in Corn Evaluated Using Optical Sensor Readings * View all notes. <i>Journal of Plant Nutrition</i> , <b>2005</b> , 28, 173-182	2.3	44
183	Use of soil moisture data for refined GreenSeeker sensor based nitrogen recommendations in winter wheat ( <i>Triticum aestivum</i> L.). <i>Precision Agriculture</i> , <b>2013</b> , 14, 343-356	5.6	43

182	Late-season Prediction Of Wheat Grain Yield And Grain Protein. <i>Communications in Soil Science and Plant Analysis</i> , <b>2003</b> , 34, 1837-1852	1.5	43
181	Plant-to-Plant Variability in Corn Production. <i>Agronomy Journal</i> , <b>2005</b> , 97, 1603-1611	2.2	43
180	Generalized Algorithm for Variable-Rate Nitrogen Application in Cereal Grains. <i>Agronomy Journal</i> , <b>2012</b> , 104, 378-387	2.2	42
179	Determination of Optimum Rate and Growth Stage for Foliar-Applied Phosphorus in Corn. <i>Communications in Soil Science and Plant Analysis</i> , <b>2007</b> , 38, 1137-1154	1.5	42
178	Optical Sensing of Turfgrass Chlorophyll Content and Tissue Nitrogen. <i>Hortscience: A Publication of the American Society for Horticultural Science</i> , <b>2004</b> , 39, 1130-1132	2.4	42
177	EFFECT OF DELAYED NITROGEN FERTILIZATION ON MAIZE (ZEA MAYS L.) GRAIN YIELDS AND NITROGEN USE EFFICIENCY. <i>Journal of Plant Nutrition</i> , <b>2012</b> , 35, 538-555	2.3	41
176	Time of Nitrogen Application: Effects on Winter Wheat and Residual Soil Nitrate. <i>Soil Science Society of America Journal</i> , <b>1995</b> , 59, 1364-1369	2.5	40
175	The economic potential of precision nitrogen application with wheat based on plant sensing. <i>Agricultural Economics (United Kingdom)</i> , <b>2009</b> , 40, 397-407	2.8	39
174	Effect of Foliar Application of Phosphorus on Winter Wheat Grain Yield, Phosphorus Uptake, and Use Efficiency. <i>Journal of Plant Nutrition</i> , <b>2006</b> , 29, 2147-2163	2.3	39
173	Nitrogen Balance in the Magruder Plots Following 109 Years in Continuous Winter Wheat. <i>Journal of Plant Nutrition</i> , <b>2003</b> , 26, 1561-1580	2.3	38
172	World Potassium Use Efficiency in Cereal Crops. <i>Agronomy Journal</i> , <b>2019</b> , 111, 889-896	2.2	37
171	The Effect of Long-Term Annual Application of Biosolids on Soil Properties, Phosphorus, and Metals. <i>Soil Science Society of America Journal</i> , <b>2008</b> , 72, 73-82	2.5	37
170	Maximum benefit of a precise nitrogen application system for wheat. <i>Precision Agriculture</i> , <b>2006</b> , 7, 193-204	2.0	37
169	The Magruder Plots: Untangling the Puzzle. <i>Agronomy Journal</i> , <b>2007</b> , 99, 1191-1198	2.2	35
168	Nitrogen Management in Dryland Cropping Systems. <i>Journal of Production Agriculture</i> , <b>1996</b> , 9, 192-199		34
167	Profitability of variable rate nitrogen application in wheat production. <i>Precision Agriculture</i> , <b>2011</b> , 12, 473-487	5.6	33
166	Detection of nitrogen and phosphorus nutrient status in winter wheat using spectral radiance. <i>Journal of Plant Nutrition</i> , <b>1998</b> , 21, 1207-1233	2.3	33
165	Relationship between Grain Crop Yield Potential and Nitrogen Response. <i>Agronomy Journal</i> , <b>2013</b> , 105, 1335-1344	2.2	32

164	RED EDGE AS A POTENTIAL INDEX FOR DETECTING DIFFERENCES IN PLANT NITROGEN STATUS IN WINTER WHEAT. <i>Journal of Plant Nutrition</i> , <b>2012</b> , 35, 1526-1541	2.3	32
163	Mid-Season Prediction of Wheat-Grain Yield Potential Using Plant, Soil, and Sensor Measurements. <i>Journal of Plant Nutrition</i> , <b>2006</b> , 29, 873-897	2.3	32
162	Genetic Yield Potential Improvement of Semidwarf Winter Wheat in the Great Plains. <i>Crop Science</i> , <b>2013</b> , 53, 946-955	2.4	31
161	Bermudagrass Response to High Nitrogen Rates, Source, and Season of Application. <i>Agronomy Journal</i> , <b>1999</b> , 91, 438-444	2.2	30
160	Ammonium and Nitrate Nitrogen in Soil Profiles of Long-Term Winter Wheat Fertilization Experiments. <i>Agronomy Journal</i> , <b>1994</b> , 86, 94-99	2.2	30
159	NITROGEN FERTILIZER MANAGEMENT FOR IMPROVED GRAIN QUALITY AND YIELD IN WINTER WHEAT IN OKLAHOMA. <i>Journal of Plant Nutrition</i> , <b>2013</b> , 36, 749-761	2.3	29
158	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> , <b>2016</b> , 47, 863-874	1.5	28
157	Nitrogen Management and Interseeding Effects on Irrigated Corn and Sorghum and on Soil Strength <sup>1</sup> . <i>Agronomy Journal</i> , <b>1986</b> , 78, 856-862	2.2	27
156	Applications of Stability Analysis for Single-Site, Long-Term Experiments. <i>Agronomy Journal</i> , <b>1994</b> , 86, 1016-1019	2.2	26
155	Development of an in-season estimate of yield potential utilizing optical crop sensors and soil moisture data for winter wheat. <i>Precision Agriculture</i> , <b>2016</b> , 17, 451-469	5.6	25
154	Production System Techniques to Increase Nitrogen Use Efficiency in Winter Wheat*. <i>Journal of Plant Nutrition</i> , <b>2002</b> , 25, 2261-2283	2.3	25
153	Wheat Grain Cadmium as Affected by Long-Term Fertilization and Soil Acidity. <i>Journal of Environmental Quality</i> , <b>1997</b> , 26, 265-272	3.4	24
152	Identification of Optical Spectral Signatures for Detecting Cheat and Ryegrass in Winter Wheat. <i>Crop Science</i> , <b>2005</b> , 45, 477-485	2.4	24
151	Mid-Season Recovery from Nitrogen Stress in Winter Wheat. <i>Journal of Plant Nutrition</i> , <b>2006</b> , 29, 727-745.	2.3	23
150	Nitrate Leaching in Continuous Winter Wheat: Use of a Soil-Plant Buffering Concept to Account for Fertilizer Nitrogen. <i>Journal of Production Agriculture</i> , <b>1995</b> , 8, 486-491		23
149	Rate of Phosphorus and Potassium Buildup/Decline with Fertilization for Corn and Wheat on Nebraska Mollisols. <i>Soil Science Society of America Journal</i> , <b>1987</b> , 51, 1646-1652	2.5	23
148	Indirect measures of plant nutrients. <i>Communications in Soil Science and Plant Analysis</i> , <b>1998</b> , 29, 1571-1584		21
147	World Sulfur Use Efficiency for Cereal Crops. <i>Agronomy Journal</i> , <b>2019</b> , 111, 2485-2492	2.2	20

146	Cereal Nitrogen Use Efficiency in Sub Saharan Africa. <i>Journal of Plant Nutrition</i> , <b>2009</b> , 32, 2107-2122	2.3	20
145	Weather, Fertilizer, Previous Year Yield, and Fertilizer Levels Affect Ensuing Year Fertilizer Response of Wheat. <i>Agronomy Journal</i> , <b>2007</b> , 99, 1607-1614	2.2	20
144	Relationship Between Response Indices Measured In-Season and at Harvest in Winter Wheat. <i>Journal of Plant Nutrition</i> , <b>2005</b> , 28, 221-235	2.3	20
143	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> , <b>2006</b> , 29, 1983-1997	2.3	20
142	Effect of row spacing, growth stage, and nitrogen rate on spectral irradiance in winter wheat. <i>Journal of Plant Nutrition</i> , <b>2000</b> , 23, 103-122	2.3	20
141	Effect of growth stage and variety on spectral radiance in winter wheat. <i>Journal of Plant Nutrition</i> , <b>2000</b> , 23, 141-149	2.3	20
140	Unpredictable Nature of Environment on Nitrogen Supply and Demand. <i>Agronomy Journal</i> , <b>2019</b> , 111, 2786-2791	2.2	20
139	Automatic corn plant location and spacing measurement using laser line-scan technique. <i>Precision Agriculture</i> , <b>2013</b> , 14, 478-494	5.6	19
138	Micronutrient Availability as Affected by the Long-Term Application of Phosphorus Fertilizer and Organic Amendments. <i>Soil Science Society of America Journal</i> , <b>2011</b> , 75, 927-939	2.5	19
137	Alfalfa Yield Response to Nitrogen Applied After Each Cutting. <i>Soil Science Society of America Journal</i> , <b>1999</b> , 63, 1237-1243	2.5	19
136	Improvement of a ground-LiDAR-based corn plant population and spacing measurement system. <i>Computers and Electronics in Agriculture</i> , <b>2015</b> , 112, 92-101	6.5	18
135	Economic feasibility of site-specific optical sensing for managing nitrogen fertilizer for growing wheat. <i>Precision Agriculture</i> , <b>2009</b> , 10, 213-230	5.6	18
134	WITHIN FIELD VARIABILITY IN WHEAT GRAIN YIELDS OVER NINE YEARS IN OKLAHOMA. <i>Journal of Plant Nutrition</i> , <b>2002</b> , 25, 2655-2662	2.3	17
133	Increased plant nitrogen loss with increasing nitrogen applied in winter wheat observed with 15nitrogen. <i>Journal of Plant Nutrition</i> , <b>2000</b> , 23, 219-230	2.3	17
132	Winter wheat fertilizer nitrogen use efficiency in grain and forage production systems. <i>Journal of Plant Nutrition</i> , <b>2000</b> , 23, 1505-1516	2.3	17
131	BY-PLANT PREDICTION OF CORN GRAIN YIELD USING OPTICAL SENSOR READINGS AND MEASURED PLANT HEIGHT. <i>Journal of Plant Nutrition</i> , <b>2012</b> , 35, 1429-1439	2.3	16
130	NITROGEN ACCUMULATION IN SHOOTS AS A FUNCTION OF GROWTH STAGE OF CORN AND WINTER WHEAT. <i>Journal of Plant Nutrition</i> , <b>2010</b> , 34, 165-182	2.3	16
129	Forage and Grain Yield Response to Applied Sulfur in Winter Wheat as Influenced by Source and Rate. <i>Journal of Plant Nutrition</i> , <b>2005</b> , 28, 1541-1553	2.3	16



128	Fertilizer Nitrogen Recovery in Long-Term Continuous Winter Wheat. <i>Soil Science Society of America Journal</i> , <b>1999</b> , 63, 645-650	2.5	16
127	Nitrogen management impact on winter wheat grain yield and estimated plant nitrogen loss. <i>Agronomy Journal</i> , <b>2020</b> , 112, 564-577	2.2	15
126	Detection of nitrogen and phosphorus nutrient status in bermudagrass using spectral radiance. <i>Journal of Plant Nutrition</i> , <b>1998</b> , 21, 1189-1206	2.3	15
125	Estimated increase in atmospheric carbon dioxide due to worldwide decrease in soil organic matter. <i>Communications in Soil Science and Plant Analysis</i> , <b>1999</b> , 30, 1713-1719	1.5	15
124	Nutrient sources and harvesting frequency on quality biomass production of switchgrass ( <i>Panicum virgatum</i> L.) for biofuel. <i>Biomass and Bioenergy</i> , <b>2015</b> , 81, 242-248	5.3	14
123	Can Yield Goals Be Predicted?. <i>Agronomy Journal</i> , <b>2017</b> , 109, 2389-2395	2.2	14
122	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> , <b>2014</b> , 45, 2480-2494	1.5	14
121	Nitrogen Availability. <i>Agronomy</i> , <b>2015</b> , 613-646	0.8	14
120	Crop Monitoring Technologies to Assess Nitrogen Status. <i>Agronomy</i> , <b>2015</b> , 647-674	0.8	14
119	Use of spectral radiance for correcting nitrogen deficiencies and estimating soil test variability in an established bermudagrass pasture. <i>Journal of Plant Nutrition</i> , <b>1998</b> , 21, 2287-2302	2.3	14
118	Crop Nitrogen Requirement and Fertilization. <i>Agronomy</i> , <b>2015</b> , 563-612	0.8	13
117	Effect of Irrigation and Preplant Nitrogen Fertilizer Source on Maize in the Southern Great Plains. <i>International Journal of Agronomy</i> , <b>2014</b> , 2014, 1-10	1.9	13
116	Replicability of nitrogen recommendations from ramped calibration strips in winter wheat. <i>Precision Agriculture</i> , <b>2011</b> , 12, 653-665	5.6	13
115	In-season estimation of grain sorghum yield potential using a hand-held optical sensor. <i>Archives of Agronomy and Soil Science</i> , <b>2007</b> , 53, 617-628	2	13
114	RELATIONSHIP BETWEEN AMMONIUM AND NITRATE IN WHEAT PLANT TISSUE AND ESTIMATED NITROGEN LOSS. <i>Journal of Plant Nutrition</i> , <b>2002</b> , 25, 1429-1442	2.3	13
113	EFFECT OF WHEAT STRAW INVERSION ON SOIL WATER CONSERVATION. <i>Soil Science</i> , <b>1995</b> , 159, 81-89	0.9	13
112	Biochar Application in Combination with Inorganic Nitrogen Improves Maize Grain Yield, Nitrogen Uptake, and Use Efficiency in Temperate Soils. <i>Agronomy</i> , <b>2020</b> , 10, 1241	3.6	13
111	Relationship between Nitrogen Use Efficiency and Response Index in Winter Wheat. <i>Journal of Plant Nutrition</i> , <b>2009</b> , 32, 502-515	2.3	12



110	Analysis of yield variability in winter wheat due to temporal variability, and nitrogen and phosphorus fertilization. <i>Archives of Agronomy and Soil Science</i> , <b>2007</b> , 53, 435-442	2	12
109	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> , <b>2018</b> , 41, 1172-1183	2.3	11
108	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> , <b>2018</b> , 49, 803-813	1.5	11
107	Nitrogen Management for Improved Use Efficiency. <i>Agronomy</i> , <b>2015</b> , 675-693	0.8	11
106	Sensors for Detection of Nitrogen in Winter Wheat <b>1996</b> ,		11
105	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> , <b>1991</b> , 14, 267-281	2.3	11
104	Phosphorus Fertilizer Carriers and Their Placement for Minimum Till Corn Under Sprinkler Irrigation. <i>Soil Science Society of America Journal</i> , <b>1987</b> , 51, 1055-1062	2.5	11
103	Development of an NDVI-Based Nitrogen Rate Calculator for Cotton. <i>Crop Science</i> , <b>2016</b> , 56, 3263-3271	2.4	11
102	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> , <b>2015</b> , 46, 564-575	1.5	10
101	The effect of parameter uncertainty on whole-field nitrogen recommendations from nitrogen-rich strips and ramped strips in winter wheat. <i>Agricultural Systems</i> , <b>2011</b> , 104, 307-314	6.1	10
100	Effect of Treating Field Spatial Variability in Winter Wheat at Different Resolutions. <i>Journal of Plant Nutrition</i> , <b>2008</b> , 31, 1975-1998	2.3	10
99	Phosphorus Loss in Runoff from Long-term Continuous Wheat Fertility Trials. <i>Soil Science Society of America Journal</i> , <b>2006</b> , 70, 163-171	2.5	10
98	Long-Term Rye-Wheat-Ryegrass Forage Yields as Affected by Rate and Date of Applied Nitrogen. <i>Journal of Production Agriculture</i> , <b>1996</b> , 9, 510-516		10
97	Biological Dinitrogen Fixation in Agriculture. <i>Agronomy</i> , 281-359	0.8	10
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