

Urs Schmidhalter

List of Publications by Year in descending order

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214
papers

10,280
citations

31949

53
h-index

45285

90
g-index

229
all docs

229
docs citations

229
times ranked

10053
citing authors

#	ARTICLE	IF	CITATIONS
1	Factors influencing phosphorus placement and effects on yield and yield parameters: A meta-analysis. <i>Soil and Tillage Research</i> , 2022, 216, 105257.	2.6	20
2	Combining Hyperspectral Reflectance Indices and Multivariate Analysis to Estimate Different Units of Chlorophyll Content of Spring Wheat under Salinity Conditions. <i>Plants</i> , 2022, 11, 456.	1.6	12
3	Prediction of multi-year winter wheat yields at the field level with satellite and climatological data. <i>Computers and Electronics in Agriculture</i> , 2022, 194, 106777.	3.7	16
4	Determining the plant critical saturated water accumulation curve in maize. <i>Field Crops Research</i> , 2022, 284, 108556.	2.3	2
5	Improving water status prediction of winter wheat using multi-source data with machine learning. <i>European Journal of Agronomy</i> , 2022, 139, 126548.	1.9	11
6	High-Throughput Estimation of Crop Traits: A Review of Ground and Aerial Phenotyping Platforms. <i>IEEE Geoscience and Remote Sensing Magazine</i> , 2021, 9, 200-231.	4.9	141
7	Phenotyping of Wheat in Heat- and Drought-Stressed Environments Using UAVs. , 2021, , 251-259.		1
8	Effects of combined application of acidified biogas slurry and chemical fertilizer on crop production and N soil fertility. <i>European Journal of Agronomy</i> , 2021, 123, 126224.	1.9	14
9	Plant availability of secondary phosphates depending on pH in a peat-based growing medium. <i>Acta Horticulturae</i> , 2021, , 437-442.	0.1	3
10	An Evaluation of Different NIR-Spectral Pre-Treatments to Derive the Soil Parameters C and N of a Humus-Clay-Rich Soil. <i>Sensors</i> , 2021, 21, 1423.	2.1	28
11	Integrated assessment of agronomic, environmental and ecosystem economic benefits of blending use of controlled-release and common urea in wheat production. <i>Journal of Cleaner Production</i> , 2021, 287, 125572.	4.6	52
12	Effect of Time of Day and Sky Conditions on Different Vegetation Indices Calculated from Active and Passive Sensors and Images Taken from UAV. <i>Remote Sensing</i> , 2021, 13, 1691.	1.8	15
13	Genetic Variation in Grain Yield and Quality Traits of Spring Malting Barley. <i>Agronomy</i> , 2021, 11, 1177.	1.3	7
14	Sensitivity of Winter Barley Yield to Climate Variability in a Pleistocene Loess Area. <i>Climate</i> , 2021, 9, 112.	1.2	3
15	Using optimized three-band spectral indices to assess canopy N uptake in corn and wheat. <i>European Journal of Agronomy</i> , 2021, 127, 126286.	1.9	12
16	Environmental, human health, and ecosystem economic performance of long-term optimizing nitrogen management for wheat production. <i>Journal of Cleaner Production</i> , 2021, 311, 127620.	4.6	22
17	Partitioning and Translocation of Dry Matter and Nitrogen During Grain Filling in Spring Barley Varieties and Their Roles in Determining Malting Quality. <i>Frontiers in Plant Science</i> , 2021, 12, 722871.	1.7	5
18	Urease inhibitors: opportunities for meeting EU national obligations to reduce ammonia emission ceilings by 2030 in EU countries. <i>Environmental Research Letters</i> , 2021, 16, 084047.	2.2	15

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19	Estimating the Leaf Water Status and Grain Yield of Wheat under Different Irrigation Regimes Using Optimized Two- and Three-Band Hyperspectral Indices and Multivariate Regression Models. <i>Water</i> (Switzerland), 2021, 13, 2666.	1.2	10
20	Simplifying residual nitrogen (N _{min}) sampling strategies and crop response. <i>European Journal of Agronomy</i> , 2021, 130, 126369.	1.9	5
21	Availability of phosphorus recovered from waste streams to plants cultivated in soilless growing media. <i>Journal of Plant Nutrition and Soil Science</i> , 2021, 184, 733-744.	1.1	4
22	Evaluation of Both SPAD Reading and SPAD Index on Estimating the Plant Nitrogen Status of Winter Wheat. <i>International Journal of Plant Production</i> , 2020, 14, 67-75.	1.0	31
23	Influence of Climate Conditions on the Temporal Development of Wheat Yields in a Long-Term Experiment in an Area with Pleistocene Loess. <i>Climate</i> , 2020, 8, 100.	1.2	12
24	Direct and Indirect Effects of Urease and Nitrification Inhibitors on N ₂ O-N Losses from Urea Fertilization to Winter Wheat in Southern Germany. <i>Atmosphere</i> , 2020, 11, 782.	1.0	11
25	Improving grain yield and protein concentration of maize (<i>Zea mays</i> L.) simultaneously by appropriate hybrid selection and nitrogen management. <i>Field Crops Research</i> , 2020, 249, 107754.	2.3	49
26	Deep Phenotyping of Yield-Related Traits in Wheat. <i>Agronomy</i> , 2020, 10, 603.	1.3	3
27	Passive reflectance sensing using optimized two- and three-band spectral indices for quantifying the total nitrogen yield of maize. <i>Computers and Electronics in Agriculture</i> , 2020, 173, 105403.	3.7	17
28	Advancing High-Throughput Phenotyping of Wheat in Early Selection Cycles. <i>Remote Sensing</i> , 2020, 12, 574.	1.8	26
29	Passive reflectance sensing using regression and multivariate analysis to estimate biochemical parameters of different fruits kinds. <i>Scientia Horticulturae</i> , 2019, 243, 21-33.	1.7	6
30	Temporal and Organ-specific Responses in NUE Traits to N Fertilization, Fungicide Intensity and Early Sowing in Winter Wheat Cultivars. <i>Agronomy</i> , 2019, 9, 313.	1.3	7
31	Theory and Guidelines for the Application of the Geophysical Sensor EM38. <i>Sensors</i> , 2019, 19, 4293.	2.1	24
32	Estimating growth and photosynthetic properties of wheat grown in simulated saline field conditions using hyperspectral reflectance sensing and multivariate analysis. <i>Scientific Reports</i> , 2019, 9, 16473.	1.6	13
33	Sensitivity of Vegetation Indices for Estimating Vegetative N Status in Winter Wheat. <i>Sensors</i> , 2019, 19, 3712.	2.1	26
34	Performance of optimized hyperspectral reflectance indices and partial least squares regression for estimating the chlorophyll fluorescence and grain yield of wheat grown in simulated saline field conditions. <i>Plant Physiology and Biochemistry</i> , 2019, 144, 300-311.	2.8	23
35	Performance of nitrification inhibitors with different nitrogen fertilizers and soil textures. <i>Journal of Plant Nutrition and Soil Science</i> , 2019, 182, 694-700.	1.1	27
36	Optimizing the Nitrogen Management Strategy for Winter Wheat in the North China Plain Using Rapid Soil and Plant Nitrogen Measurements. <i>Communications in Soil Science and Plant Analysis</i> , 2019, 50, 1310-1320.	0.6	8

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37	Abscisic Acid Receptors and Coreceptors Modulate Plant Water Use Efficiency and Water Productivity. <i>Plant Physiology</i> , 2019, 180, 1066-1080.	2.3	48
38	Combining biophysical parameters, spectral indices and multivariate hyperspectral models for estimating yield and water productivity of spring wheat across different agronomic practices. <i>PLoS ONE</i> , 2019, 14, e0212294.	1.1	20
39	Simulation of satellite reflectance data using high-frequency ground based hyperspectral canopy measurements for in-season estimation of grain yield and grain nitrogen status in winter wheat. <i>ISPRS Journal of Photogrammetry and Remote Sensing</i> , 2019, 149, 176-187.	4.9	48
40	Temporal and Spectral Optimization of Vegetation Indices for Estimating Grain Nitrogen Uptake and Late-Seasonal Nitrogen Traits in Wheat. <i>Sensors</i> , 2019, 19, 4640.	2.1	13
41	Temporal Dynamics and the Contribution of Plant Organs in a Phenotypically Diverse Population of High-Yielding Winter Wheat: Evaluating Concepts for Disentangling Yield Formation and Nitrogen Use Efficiency. <i>Frontiers in Plant Science</i> , 2019, 10, 1295.	1.7	9
42	Comparative Performance of Spectral Reflectance Indices and Multivariate Modeling for Assessing Agronomic Parameters in Advanced Spring Wheat Lines Under Two Contrasting Irrigation Regimes. <i>Frontiers in Plant Science</i> , 2019, 10, 1537.	1.7	22
43	Nitrogen Use Efficiency and Carbon Traits of High-Yielding European Hybrid vs. Line Winter Wheat Cultivars: Potentials and Limitations. <i>Frontiers in Plant Science</i> , 2019, 9, 1988.	1.7	21
44	Evaluation of wavelengths and spectral reflectance indices for high-throughput assessment of growth, water relations and ion contents of wheat irrigated with saline water. <i>Agricultural Water Management</i> , 2019, 212, 358-377.	2.4	47
45	High-Throughput Field Phenotyping Traits of Grain Yield Formation and Nitrogen Use Efficiency: Optimizing the Selection of Vegetation Indices and Growth Stages. <i>Frontiers in Plant Science</i> , 2019, 10, 1672.	1.7	42
46	Interaction of soil pH and phosphorus efficacy: Long-term effects of P fertilizer and lime applications on wheat, barley, and sugar beet. <i>Ambio</i> , 2018, 47, 41-49.	2.8	60
47	Scenario modeling of ammonia emissions from surface applied urea under temperate conditions: application effects and model comparison. <i>Nutrient Cycling in Agroecosystems</i> , 2018, 110, 177-193.	1.1	6
48	UAV-Based Hyperspectral Sensing for Yield Prediction in Winter Barley. , 2018, , .		8
49	Modeling the Effects of Soil Variability, Topography, and Management on the Yield of Barley. <i>Frontiers in Environmental Science</i> , 2018, 6, .	1.5	13
50	Evaluating RGB Imaging and Multispectral Active and Hyperspectral Passive Sensing for Assessing Early Plant Vigor in Winter Wheat. <i>Sensors</i> , 2018, 18, 2931.	2.1	44
51	Ammonia losses from urea applied to winter wheat over four consecutive years and potential mitigation by urease inhibitors. <i>Journal of Plant Nutrition and Soil Science</i> , 2018, 181, 914-922.	1.1	7
52	Passive Reflectance Sensing and Digital Image Analysis Allows for Assessing the Biomass and Nitrogen Status of Wheat in Early and Late Tillering Stages. <i>Frontiers in Plant Science</i> , 2018, 9, 1478.	1.7	25
53	Adaptation of ecotypes and cultivars of subterranean clover (<i>Trifolium subterraneum</i> L.) to German environmental conditions and its suitability as living mulch. <i>Genetic Resources and Crop Evolution</i> , 2018, 65, 2057-2068.	0.8	11
54	Use of a digital camera as alternative method for non-destructive detection of the leaf chlorophyll content and the nitrogen nutrition status in wheat. <i>Computers and Electronics in Agriculture</i> , 2017, 140, 25-33.	3.7	70

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55	Improved evaluation of field experiments by accounting for inherent soil variability. <i>European Journal of Agronomy</i> , 2017, 89, 1-15.	1.9	16
56	Thermal imaging and passive reflectance sensing to estimate the water status and grain yield of wheat under different irrigation regimes. <i>Agricultural Water Management</i> , 2017, 189, 98-110.	2.4	70
57	On the use of spectral reflectance indices to assess agro-morphological traits of wheat plants grown under simulated saline field conditions. <i>Journal of Agronomy and Crop Science</i> , 2017, 203, 406-428.	1.7	15
58	Comparative performance of spectral and thermographic properties of plants and physiological traits for phenotyping salinity tolerance of wheat cultivars under simulated field conditions. <i>Functional Plant Biology</i> , 2017, 44, 134.	1.1	23
59	Shift of grain protein composition in bread wheat under summer drought events. <i>Journal of Plant Nutrition and Soil Science</i> , 2017, 180, 49-55.	1.1	18
60	Spectral assessment of drought tolerance indices and grain yield in advanced spring wheat lines grown under full and limited water irrigation. <i>Agricultural Water Management</i> , 2017, 182, 1-12.	2.4	48
61	Mid-season prediction of grain yield and protein content of spring barley cultivars using high-throughput spectral sensing. <i>European Journal of Agronomy</i> , 2017, 90, 108-116.	1.9	49
62	Influence of Soil Organic Carbon on Greenhouse Gas Emission Potential After Application of Biogas Residues or Cattle Slurry: Results from a Pot Experiment. <i>Pedosphere</i> , 2017, 27, 807-821.	2.1	11
63	Thermal phenotyping of stomatal sensitivity in spring barley. <i>Journal of Agronomy and Crop Science</i> , 2017, 203, 483-493.	1.7	14
64	Evaluation of Yield and Drought Using Active and Passive Spectral Sensing Systems at the Reproductive Stage in Wheat. <i>Frontiers in Plant Science</i> , 2017, 8, 379.	1.7	46
65	High-Throughput Field Phenotyping of Leaves, Leaf Sheaths, Culms and Ears of Spring Barley Cultivars at Anthesis and Dough Ripeness. <i>Frontiers in Plant Science</i> , 2017, 8, 1920.	1.7	30
66	Digital Counts of Maize Plants by Unmanned Aerial Vehicles (UAVs). <i>Remote Sensing</i> , 2017, 9, 544.	1.8	123
67	The Application of EM38: Determination of Soil Parameters, Selection of Soil Sampling Points and Use in Agriculture and Archaeology. <i>Sensors</i> , 2017, 17, 2540.	2.1	74
68	Interactive Effects of N-, P- and K-Nutrition and Drought Stress on the Development of Maize Seedlings. <i>Agriculture (Switzerland)</i> , 2017, 7, 90.	1.4	14
69	Non-invasive spectral detection of the beneficial effects of Bradyrhizobium spp. and plant growth-promoting rhizobacteria under different levels of nitrogen application on the biomass, nitrogen status, and yield of peanut cultivars. <i>Bragantia</i> , 2017, 76, 189-202.	1.3	2
70	Hyperspectral reflectance sensing to assess the growth and photosynthetic properties of wheat cultivars exposed to different irrigation rates in an irrigated arid region. <i>PLoS ONE</i> , 2017, 12, e0183262.	1.1	30
71	High-Throughput Phenotyping of Wheat and Barley Plants Grown in Single or Few Rows in Small Plots Using Active and Passive Spectral Proximal Sensing. <i>Sensors</i> , 2016, 16, 1860.	2.1	30
72	Referencing laser and ultrasonic height measurements of barleycultivars by using a herbometre as standard. <i>Crop and Pasture Science</i> , 2016, 67, 1215.	0.7	30

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73	Ammonia loss from urea in grassland and its mitigation by the new urease inhibitor 2-NPT. <i>Journal of Agricultural Science</i> , 2016, 154, 1453-1462.	0.6	29
74	Passive reflectance sensing and digital image analysis for assessing quality parameters of mango fruits. <i>Scientia Horticulturae</i> , 2016, 212, 136-147.	1.7	19
75	Improved Salinity Tolerance by Phosphorus Fertilizer in Two <i>Phaseolus vulgaris</i> Recombinant Inbred Lines Contrasting in Their P _u Efficiency. <i>Journal of Agronomy and Crop Science</i> , 2016, 202, 497-507.	1.7	81
76	Data fusion of spectral, thermal and canopy height parameters for improved yield prediction of drought stressed spring barley. <i>European Journal of Agronomy</i> , 2016, 78, 44-59.	1.9	119
77	Effect of nitrogen fertilization on Fusarium head blight in spring barley. <i>Crop Protection</i> , 2016, 88, 18-27.	1.0	22
78	Effect of Bio-stimulants on Yield and Quality of Head Lettuce Grown Under Two Sources of Nitrogen. <i>Gesunde Pflanzen</i> , 2016, 68, 33-39.	1.7	10
79	Green Window Approach for improving nitrogen management by farmers in small-scale wheat fields. <i>Journal of Agricultural Science</i> , 2015, 153, 446-454.	0.6	12
80	Nitrous oxide emission from tea soil under different fertilizer managements in Japan. <i>Catena</i> , 2015, 135, 304-312.	2.2	13
81	Comparison of the EM38 and EM38-MK2 electromagnetic induction-based sensors for spatial soil analysis at field scale. <i>Computers and Electronics in Agriculture</i> , 2015, 110, 267-280.	3.7	45
82	Comparing the performance of active and passive reflectance sensors to assess the normalized relative canopy temperature and grain yield of drought-stressed barley cultivars. <i>Field Crops Research</i> , 2015, 177, 148-160.	2.3	85
83	Effects of Gypsum Particle Size on Reclaiming Saline-Sodic Soils in Egypt. <i>Communications in Soil Science and Plant Analysis</i> , 2015, 46, 1112-1122.	0.6	15
84	Spectral reflectance indices as a rapid and nondestructive phenotyping tool for estimating different morphophysiological traits of contrasting spring wheat germplasms under arid conditions. <i>Turk Tarim Ve Ormancilik Dergisi/Turkish Journal of Agriculture and Forestry</i> , 2015, 39, 572-587.	0.8	25
85	EFFECT OF FOLIAR APPLICATION OF AMINOACIDS ON PLANT YIELD AND PHYSIOLOGICAL PARAMETERS IN BEAN PLANTS IRRIGATED WITH SEAWATER. <i>Acta Biologica Colombiana</i> , 2014, 20, 140-152.	0.1	52
86	Investigation of deficit irrigation strategies combining SVAT-modeling, optimization and experiments. <i>Environmental Earth Sciences</i> , 2014, 72, 4901-4915.	1.3	10
87	Site-specific effects of variable water supply and nitrogen fertilisation on winter wheat. <i>Journal of Plant Nutrition and Soil Science</i> , 2014, 177, 509-523.	1.1	21
88	High-throughput phenotyping early plant vigour of winter wheat. <i>European Journal of Agronomy</i> , 2014, 52, 271-278.	1.9	110
89	Optimising three-band spectral indices to assess aerial N concentration, N uptake and aboveground biomass of winter wheat remotely in China and Germany. <i>ISPRS Journal of Photogrammetry and Remote Sensing</i> , 2014, 92, 112-123.	4.9	54
90	The changes induced in the physiological, biochemical and anatomical characteristics of <i>Vicia faba</i> by the exogenous application of proline under seawater stress. <i>South African Journal of Botany</i> , 2014, 93, 54-63.	1.2	101

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91	The performance of active spectral reflectance sensors as influenced by measuring distance, device temperature and light intensity. <i>Computers and Electronics in Agriculture</i> , 2014, 100, 24-33.	3.7	67
92	Identification of stay-green and early senescence phenotypes in high-yielding winter wheat, and their relationship to grain yield and grain protein concentration using high-throughput phenotyping techniques. <i>Functional Plant Biology</i> , 2014, 41, 227.	1.1	60
93	Development of a diurnal dehydration index for spring barley phenotyping. <i>Functional Plant Biology</i> , 2014, 41, 1249.	1.1	19
94	Evaluation of Very High Soil-Water Tension Threshold Values in Sensor-Based Deficit Irrigation Systems. <i>Journal of Irrigation and Drainage Engineering - ASCE</i> , 2014, 140, .	0.6	8
95	Using Discriminant Analysis and Logistic Regression in Mapping Quaternary Sediments. <i>Mathematical Geosciences</i> , 2014, 46, 361-376.	1.4	4
96	Optimal coupling combinations between the irrigation rate and glycinebetaine levels for improving yield and water use efficiency of drip-irrigated maize grown under arid conditions. <i>Agricultural Water Management</i> , 2014, 140, 69-78.	2.4	12
97	Reflectance estimation of canopy nitrogen content in winter wheat using optimised hyperspectral spectral indices and partial least squares regression. <i>European Journal of Agronomy</i> , 2014, 52, 198-209.	1.9	190
98	Potassium fertiliser enhances the salt-tolerance of common bean (<i>Phaseolus vulgaris</i> L.). <i>Journal of Horticultural Science and Biotechnology</i> , 2014, 89, 185-192.	0.9	31
99	Evaluating growth platforms and stress scenarios to assess the salt tolerance of wheat plants. <i>Functional Plant Biology</i> , 2014, 41, 860.	1.1	7
100	Spectral high-throughput assessments of phenotypic differences in biomass and nitrogen partitioning during grain filling of wheat under high yielding Western European conditions. <i>Field Crops Research</i> , 2013, 141, 16-26.	2.3	47
101	Evaluation of active and passive sensor systems in the field to phenotype maize hybrids with high-throughput. <i>Field Crops Research</i> , 2013, 154, 236-245.	2.3	30
102	Comparing hyperspectral index optimization algorithms to estimate aerial N uptake using multi-temporal winter wheat datasets from contrasting climatic and geographic zones in China and Germany. <i>Agricultural and Forest Meteorology</i> , 2013, 180, 44-57.	1.9	40
103	Transfer of a near infrared spectroscopy laboratory application to an online process analyser for in situ monitoring of anaerobic digestion. <i>Bioresource Technology</i> , 2013, 129, 39-50.	4.8	27
104	The potential for online monitoring of short-term process dynamics in anaerobic digestion using near-infrared spectroscopy. <i>Biomass and Bioenergy</i> , 2013, 48, 224-230.	2.9	20
105	Spectral assessments of wheat plants grown in pots and containers under saline conditions. <i>Functional Plant Biology</i> , 2013, 40, 409.	1.1	23
106	Spectral assessments of phenotypic differences in spike development during grain filling affected by varying N supply in wheat. <i>Journal of Plant Nutrition and Soil Science</i> , 2013, 176, 952-963.	1.1	13
107	Nitrogen availability of various biogas residues applied to ryegrass. <i>Journal of Plant Nutrition and Soil Science</i> , 2013, 176, 572-584.	1.1	35
108	EFFECT OF TILLER REMOVAL ON ION CONTENT IN MAINSTEM AND SUBTILLERS OF SPRING WHEAT UNDER MODERATE SALINITY. <i>Journal of Plant Nutrition</i> , 2012, 35, 1314-1328.	0.9	4

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109	Evaluation of Agricultural Feedstock-Robust near Infrared Calibrations for the Estimation of Process Parameters in Anaerobic Digestion. <i>Journal of Near Infrared Spectroscopy</i> , 2012, 20, 465-476.	0.8	7
110	Remotely estimating aerial N status of phenologically differing winter wheat cultivars grown in contrasting climatic and geographic zones in China and Germany. <i>Field Crops Research</i> , 2012, 138, 21-32.	2.3	71
111	Evaluating the Validity of a Nitrate Quick Test in Different Chinese Soils. <i>Pedosphere</i> , 2012, 22, 623-630.	2.1	6
112	Current Soil Nutrient Status of Intensively Managed Greenhouses. <i>Pedosphere</i> , 2012, 22, 825-833.	2.1	25
113	Characterisation of soil texture variability using the apparent soil electrical conductivity at a highly variable site. <i>Computers and Geosciences</i> , 2012, 39, 98-110.	2.0	61
114	Assessing the vertical footprint of reflectance measurements to characterize nitrogen uptake and biomass distribution in maize canopies. <i>Field Crops Research</i> , 2012, 129, 14-20.	2.3	46
115	A Comparison of Plant Temperatures as Measured by Thermal Imaging and Infrared Thermometry. <i>Journal of Agronomy and Crop Science</i> , 2012, 198, 415-429.	1.7	38
116	High-throughput Sensing of Aerial Biomass and Above-ground Nitrogen Uptake in the Vegetative Stage of Well-watered and Drought Stressed Tropical Maize Hybrids. <i>Crop Science</i> , 2011, 51, 479-489.	0.8	32
117	Can changes in leaf water potential be assessed spectrally?. <i>Functional Plant Biology</i> , 2011, 38, 523.	1.1	59
118	Near Infrared Spectroscopy Calibrations for the Estimation of Process Parameters of Anaerobic Digestion of Energy Crops and Livestock Residues. <i>Journal of Near Infrared Spectroscopy</i> , 2011, 19, 479-493.	0.8	17
119	Drip Irrigation Frequency: The Effects and Their Interaction with Nitrogen Fertilization on Maize Growth and Nitrogen Use Efficiency under Arid Conditions. <i>Journal of Agronomy and Crop Science</i> , 2011, 197, 186-201.	1.7	17
120	High throughput phenotyping of canopy water mass and canopy temperature in well-watered and drought stressed tropical maize hybrids in the vegetative stage. <i>European Journal of Agronomy</i> , 2011, 35, 22-32.	1.9	84
121	Comparison of active and passive spectral sensors in discriminating biomass parameters and nitrogen status in wheat cultivars. <i>Field Crops Research</i> , 2011, 124, 74-84.	2.3	235
122	Quantification of mycorrhizal water uptake via high-resolution on-line water content sensors. <i>Plant and Soil</i> , 2011, 342, 459-468.	1.8	105
123	EVALUATION OF THE TRANSFERABILITY OF A SVAT MODEL—RESULTS FROM FIELD AND GREENHOUSE APPLICATIONS. <i>Irrigation and Drainage</i> , 2011, 60, 59-70.	0.8	3
124	COMPARATIVE EFFICACY OF UREA FERTILIZATION VIA SUPERGRANULES VERSUS PRILLS ON NITROGEN DISTRIBUTION, YIELD RESPONSE AND NITROGEN USE EFFICIENCY OF SPRING WHEAT. <i>Journal of Plant Nutrition</i> , 2011, 34, 779-797.	0.9	14
125	Influence of ambient light and temperature on laser-induced chlorophyll fluorescence measurements. <i>European Journal of Agronomy</i> , 2010, 32, 169-176.	1.9	26
126	Tractor-Based Quadrilateral Spectral Reflectance Measurements to Detect Biomass and Total Aerial Nitrogen in Winter Wheat. <i>Agronomy Journal</i> , 2010, 102, 499-506.	0.9	75

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127	Optimal coupling combinations between irrigation frequency and rate for drip-irrigated maize grown on sandy soil. <i>Agricultural Water Management</i> , 2010, 97, 439-448.	2.4	64
128	Gaseous Nitrogen Losses from a Cambisol Cropped to Spring Wheat with Urea Sizes and Placement Depths. <i>Soil Science Society of America Journal</i> , 2009, 73, 1335-1344.	1.2	31
129	Effects of urease and nitrification inhibitors added to urea on nitrous oxide emissions from a loess soil. <i>Journal of Plant Nutrition and Soil Science</i> , 2009, 172, 651-660.	1.1	40
130	Emissions of Nitrous Oxide, Ammonia, and Carbon Dioxide from a Cambisol at Two Contrasting Soil Water Regimes and Urea Granular Sizes. <i>Communications in Soil Science and Plant Analysis</i> , 2009, 40, 1191-1213.	0.6	9
131	Nitrogen status and biomass determination of oilseed rape by laser-induced chlorophyll fluorescence. <i>European Journal of Agronomy</i> , 2009, 30, 238-242.	1.9	60
132	Reply to Schnyder, Kavanova and Nelson. <i>Journal of Integrative Plant Biology</i> , 2009, 51, 437-437.	4.1	0
133	A Comparison of Screening Criteria for Salt Tolerance in Wheat under Field and Controlled Environmental Conditions. <i>Journal of Agronomy and Crop Science</i> , 2009, 195, 356-367.	1.7	58
134	Abiotic soil properties and the occurrence of <i>Rhizoctonia</i> crown and root rot in sugar beet. <i>Journal of Plant Nutrition and Soil Science</i> , 2009, 172, 661-668.	1.1	22
135	Water integration by plants root under non-uniform soil salinity. <i>Irrigation Science</i> , 2008, 27, 83-95.	1.3	35
136	Spatial and Temporal Quantitative Analysis of Cell Division and Elongation Rate in Growing Wheat Leaves under Saline Conditions. <i>Journal of Integrative Plant Biology</i> , 2008, 50, 76-83.	4.1	8
137	Effect of foliar fertilization application on the growth and mineral nutrient content of maize seedlings under drought and salinity. <i>Soil Science and Plant Nutrition</i> , 2008, 54, 133-141.	0.8	76
138	Palladium exposure of barley: uptake and effects. <i>Plant Biology</i> , 2008, 10, 272-276.	1.8	78
139	Drip Irrigation Frequency: The Effects and Their Interaction with Nitrogen Fertilization on Sandy Soil Water Distribution, Maize Yield and Water Use Efficiency Under Egyptian Conditions. <i>Journal of Agronomy and Crop Science</i> , 2008, 194, 180-192.	1.7	60
140	Estimating the nitrogen nutrition index using spectral canopy reflectance measurements. <i>European Journal of Agronomy</i> , 2008, 29, 184-190.	1.9	185
141	Insights on the role of tillering in salt tolerance of spring wheat from detillering. <i>Environmental and Experimental Botany</i> , 2008, 64, 33-42.	2.0	9
142	Irrigation rate and plant density effects on yield and water use efficiency of drip-irrigated corn. <i>Agricultural Water Management</i> , 2008, 95, 836-844.	2.4	82
143	Spectral measurements of the total aerial N and biomass dry weight in maize using a quadrilateral-view optic. <i>Field Crops Research</i> , 2008, 106, 94-103.	2.3	59
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