Urs Schmidhalter

List of Publications by Year
in descending order

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214	10,280	31976	45317
papers	citations	53 h-index	90 g-index

229	229	229	10053
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Factors influencing phosphorus placement and effects on yield and yield parameters: A meta-analysis. Soil and Tillage Research, 2022, 216, 105257.	5.6	20
2	Combining Hyperspectral Reflectance Indices and Multivariate Analysis to Estimate Different Units of Chlorophyll Content of Spring Wheat under Salinity Conditions. Plants, 2022, 11, 456.	3.5	12
3	Prediction of multi-year winter wheat yields at the field level with satellite and climatological data. Computers and Electronics in Agriculture, 2022, 194, 106777.	7.7	16
4	Determining the plant critical saturated water accumulation curve in maize. Field Crops Research, 2022, 284, 108556.	5.1	2
5	Improving water status prediction of winter wheat using multi-source data with machine learning. European Journal of Agronomy, 2022, 139, 126548.	4.1	11
6	High-Throughput Estimation of Crop Traits: A Review of Ground and Aerial Phenotyping Platforms. IEEE Geoscience and Remote Sensing Magazine, 2021, 9, 200-231.	9.6	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. European Journal of Agronomy, 2021, 123, 126224.	4.1	14
9	Plant availability of secondary phosphates depending on pH in a peat-based growing medium. Acta Horticulturae, 2021, , 437-442.	0.2	3
10	An Evaluation of Different NIR-Spectral Pre-Treatments to Derive the Soil Parameters C and N of a Humus-Clay-Rich Soil. Sensors, 2021, 21, 1423.	3.8	28
11	Integrated assessment of agronomic, environmental and ecosystem economic benefits of blending use of controlled-release and common urea in wheat production. Journal of Cleaner Production, 2021, 287, 125572.	9.3	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. Remote Sensing, 2021, 13, 1691.	4.0	15
13	Genetic Variation in Grain Yield and Quality Traits of Spring Malting Barley. Agronomy, 2021, 11, 1177.	3.0	7
14	Sensitivity of Winter Barley Yield to Climate Variability in a Pleistocene Loess Area. Climate, 2021, 9, 112.	2.8	3
15	Using optimized three-band spectral indices to assess canopy N uptake in corn and wheat. European Journal of Agronomy, 2021, 127, 126286.	4.1	12
16	Environmental, human health, and ecosystem economic performance of long-term optimizing nitrogen management for wheat production. Journal of Cleaner Production, 2021, 311, 127620.	9.3	22
17	Partitioning and Translocation of Dry Matter and Nitrogen During Grain Filling in Spring Barley Varieties and Their Roles in Determining Malting Quality. Frontiers in Plant Science, 2021, 12, 722871.	3.6	5
18	Urease inhibitors: opportunities for meeting EU national obligations to reduce ammonia emission ceilings by 2030 in EU countries. Environmental Research Letters, 2021, 16, 084047.	5.2	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. Water (Switzerland), 2021, 13, 2666.	2.7	10
20	Simplifying residual nitrogen (Nmin) sampling strategies and crop response. European Journal of Agronomy, 2021, 130, 126369.	4.1	5
21	Availability of phosphorus recovered from waste streams to plants cultivated in soilless growing media. Journal of Plant Nutrition and Soil Science, 2021, 184, 733-744.	1.9	4
22	Evaluation of Both SPAD Reading and SPAD Index on Estimating the Plant Nitrogen Status of Winter Wheat. International Journal of Plant Production, 2020, 14, 67-75.	2.2	31
23	Influence of Climate Conditions on the Temporal Development of Wheat Yields in a Long-Term Experiment in an Area with Pleistocene Loess. Climate, 2020, 8, 100.	2.8	12
24	Direct and Indirect Effects of Urease and Nitrification Inhibitors on N2O-N Losses from Urea Fertilization to Winter Wheat in Southern Germany. Atmosphere, 2020, 11, 782.	2.3	11
25	Improving grain yield and protein concentration of maize (Zea mays L.) simultaneously by appropriate hybrid selection and nitrogen management. Field Crops Research, 2020, 249, 107754.	5.1	49
26	Deep Phenotyping of Yield-Related Traits in Wheat. Agronomy, 2020, 10, 603.	3.0	3
27	Passive reflectance sensing using optimized two- and three-band spectral indices for quantifying the total nitrogen yield of maize. Computers and Electronics in Agriculture, 2020, 173, 105403.	7.7	17
28	Advancing High-Throughput Phenotyping of Wheat in Early Selection Cycles. Remote Sensing, 2020, 12, 574.	4.0	26
29	Passive reflectance sensing using regression and multivariate analysis to estimate biochemical parameters of different fruits kinds. Scientia Horticulturae, 2019, 243, 21-33.	3.6	6
30	Temporal and Organ-specific Responses in NUE Traits to N Fertilization, Fungicide Intensity and Early Sowing in Winter Wheat Cultivars. Agronomy, 2019, 9, 313.	3.0	7
31	Theory and Guidelines for the Application of the Geophysical Sensor EM38. Sensors, 2019, 19, 4293.	3.8	24
32	Estimating growth and photosynthetic properties of wheat grown in simulated saline field conditions using hyperspectral reflectance sensing and multivariate analysis. Scientific Reports, 2019, 9, 16473.	3.3	13
33	Sensitivity of Vegetation Indices for Estimating Vegetative N Status in Winter Wheat. Sensors, 2019, 19, 3712.	3.8	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. Plant Physiology and Biochemistry, 2019, 144, 300-311.	5.8	23
35	Performance of nitrification inhibitors with different nitrogen fertilizers and soil textures. Journal of Plant Nutrition and Soil Science, 2019, 182, 694-700.	1.9	27
36	Optimizing the Nitrogen Management Strategy for Winter Wheat in the North China Plain Using Rapid Soil and Plant Nitrogen Measurements. Communications in Soil Science and Plant Analysis, 2019, 50, 1310-1320.	1.4	8

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37	Abscisic Acid Receptors and Coreceptors Modulate Plant Water Use Efficiency and Water Productivity. Plant Physiology, 2019, 180, 1066-1080.	4.8	48
38	Combining biophysical parameters, spectral indices and multivariate hyperspectral models for estimating yield and water productivity of spring wheat across different agronomic practices. PLoS ONE, 2019, 14, e0212294.	2.5	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. ISPRS Journal of Photogrammetry and Remote Sensing, 2019, 149, 176-187.	11.1	48
40	Temporal and Spectral Optimization of Vegetation Indices for Estimating Grain Nitrogen Uptake and Late-Seasonal Nitrogen Traits in Wheat. Sensors, 2019, 19, 4640.	3.8	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. Frontiers in Plant Science, 2019, 10, 1295.	3.6	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. Frontiers in Plant Science, 2019, 10, 1537.	3.6	22
43	Nitrogen Use Efficiency and Carbon Traits of High-Yielding European Hybrid vs. Line Winter Wheat Cultivars: Potentials and Limitations. Frontiers in Plant Science, 2019, 9, 1988.	3.6	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. Agricultural Water Management, 2019, 212, 358-377.	5.6	47
45	High-Throughput Field Phenotyping Traits of Grain Yield Formation and Nitrogen Use Efficiency: Optimizing the Selection of Vegetation Indices and Growth Stages. Frontiers in Plant Science, 2019, 10, 1672.	3.6	42
46	Interaction of soil pH and phosphorus efficacy: Long-term effects of P fertilizer and lime applications on wheat, barley, and sugar beet. Ambio, 2018, 47, 41-49.	5.5	60
47	Scenario modeling of ammonia emissions from surface applied urea under temperate conditions: application effects and model comparison. Nutrient Cycling in Agroecosystems, 2018, 110, 177-193.	2.2	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. Frontiers in Environmental Science, 2018, 6, .	3.3	13
50	Evaluating RGB Imaging and Multispectral Active and Hyperspectral Passive Sensing for Assessing Early Plant Vigor in Winter Wheat. Sensors, 2018, 18, 2931.	3.8	44
51	Ammonia losses from urea applied to winter wheat over four consecutive years and potential mitigation by urease inhibitors. Journal of Plant Nutrition and Soil Science, 2018, 181, 914-922.	1.9	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. Frontiers in Plant Science, 2018, 9, 1478.	3.6	25
53	Adaptation of ecotypes and cultivars of subterranean clover (Trifolium subterraneum L.) to German environmental conditions and its suitability as living mulch. Genetic Resources and Crop Evolution, 2018, 65, 2057-2068.	1.6	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. Computers and Electronics in Agriculture, 2017, 140, 25-33.	7.7	70

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55	Improved evaluation of field experiments by accounting for inherent soil variability. European Journal of Agronomy, 2017, 89, 1-15.	4.1	16
56	Thermal imaging and passive reflectance sensing to estimate the water status and grain yield of wheat under different irrigation regimes. Agricultural Water Management, 2017, 189, 98-110.	5.6	70
57	On the use of spectral reflectance indices to assess agroâ€morphological traits of wheat plants grown under simulated saline field conditions. Journal of Agronomy and Crop Science, 2017, 203, 406-428.	3.5	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. Functional Plant Biology, 2017, 44, 134.	2.1	23
59	Shift of grain protein composition in bread wheat under summer drought events. Journal of Plant Nutrition and Soil Science, 2017, 180, 49-55.	1.9	18
60	Spectral assessment of drought tolerance indices and grain yield in advanced spring wheat lines grown under full and limited water irrigation. Agricultural Water Management, 2017, 182, 1-12.	5.6	48
61	Mid-season prediction of grain yield and protein content of spring barley cultivars using high-throughput spectral sensing. European Journal of Agronomy, 2017, 90, 108-116.	4.1	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. Pedosphere, 2017, 27, 807-821.	4.0	11
63	Thermal phenotyping of stomatal sensitivity in spring barley. Journal of Agronomy and Crop Science, 2017, 203, 483-493.	3.5	14
64	Evaluation of Yield and Drought Using Active and Passive Spectral Sensing Systems at the Reproductive Stage in Wheat. Frontiers in Plant Science, 2017, 8, 379.	3.6	46
65	High-Throughput Field Phenotyping of Leaves, Leaf Sheaths, Culms and Ears of Spring Barley Cultivars at Anthesis and Dough Ripeness. Frontiers in Plant Science, 2017, 8, 1920.	3.6	30
66	Digital Counts of Maize Plants by Unmanned Aerial Vehicles (UAVs). Remote Sensing, 2017, 9, 544.	4.0	123
67	The Application of EM38: Determination of Soil Parameters, Selection of Soil Sampling Points and Use in Agriculture and Archaeology. Sensors, 2017, 17, 2540.	3.8	74
68	Interactive Effects of N-, P- and K-Nutrition and Drought Stress on the Development of Maize Seedlings. Agriculture (Switzerland), 2017, 7, 90.	3.1	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. Bragantia, 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. PLoS ONE, 2017, 12, e0183262.	2.5	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. Sensors, 2016, 16, 1860.	3.8	30
72	Referencing laser and ultrasonic height measurements of barleycultivars by using a herbometre as standard. Crop and Pasture Science, 2016, 67, 1215.	1.5	30

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73	Ammonia loss from urea in grassland and its mitigation by the new urease inhibitor 2-NPT. Journal of Agricultural Science, 2016, 154, 1453-1462.	1.3	29
74	Passive reflectance sensing and digital image analysis for assessing quality parameters of mango fruits. Scientia Horticulturae, 2016, 212, 136-147.	3.6	19
75	Improved Salinity Tolerance by Phosphorus Fertilizer in Two Phaseolus vulgaris Recombinant Inbred Lines Contrasting in Their Pâ€Efficiency. Journal of Agronomy and Crop Science, 2016, 202, 497-507.	3.5	81
76	Data fusion of spectral, thermal and canopy height parameters for improved yield prediction of drought stressed spring barley. European Journal of Agronomy, 2016, 78, 44-59.	4.1	119
77	Effect of nitrogen fertilization on Fusarium head blight in spring barley. Crop Protection, 2016, 88, 18-27.	2.1	22
78	Effect of Bio-stimulants on Yield and Quality of Head Lettuce Grown Under Two Sources of Nitrogen. Gesunde Pflanzen, 2016, 68, 33-39.	3.0	10
79	Green Window Approach for improving nitrogen management by farmers in small-scale wheat fields. Journal of Agricultural Science, 2015, 153, 446-454.	1.3	12
80	Nitrous oxide emission from tea soil under different fertilizer managements in Japan. Catena, 2015, 135, 304-312.	5.0	13
81	Comparison of the EM38 and EM38-MK2 electromagnetic induction-based sensors for spatial soil analysis at field scale. Computers and Electronics in Agriculture, 2015, 110, 267-280.	7.7	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. Field Crops Research, 2015, 177, 148-160.	5.1	85
83	Effects of Gypsum Particle Size on Reclaiming Saline-Sodic Soils in Egypt. Communications in Soil Science and Plant Analysis, 2015, 46, 1112-1122.	1.4	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. Turk Tarim Ve Ormancilik Dergisi/Turkish Journal of Agriculture and Forestry, 2015, 39, 572-587.	2.1	25
85	EFFECT OF FOLIAR APPLICATION OF AMINOACIDS ON PLANT YIELD AND PHYSIOLOGICAL PARAMETERS IN BEAN PLANTS IRRIGATED WITH SEAWATER. Acta Biologica Colombiana, 2014, 20, 140-152.	0.4	52
86	Investigation of deficit irrigation strategies combining SVAT-modeling, optimization and experiments. Environmental Earth Sciences, 2014, 72, 4901-4915.	2.7	10
87	Siteâ€specific effects of variable water supply and nitrogen fertilisation on winter wheat. Journal of Plant Nutrition and Soil Science, 2014, 177, 509-523.	1.9	21
88	High-throughput phenotyping early plant vigour of winter wheat. European Journal of Agronomy, 2014, 52, 271-278.	4.1	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. ISPRS Journal of Photogrammetry and Remote Sensing, 2014, 92, 112-123.	11.1	54
90	The changes induced in the physiological, biochemical and anatomical characteristics of Vicia faba by the exogenous application of proline under seawater stress. South African Journal of Botany, 2014, 93, 54-63.	2.5	101

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91	The performance of active spectral reflectance sensors as influenced by measuring distance, device temperature and light intensity. Computers and Electronics in Agriculture, 2014, 100, 24-33.	7.7	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. Functional Plant Biology, 2014, 41, 227.	2.1	60
93	Development of a diurnal dehydration index for spring barley phenotyping. Functional Plant Biology, 2014, 41, 1249.	2.1	19
94	Evaluation of Very High Soil-Water Tension Threshold Values in Sensor-Based Deficit Irrigation Systems. Journal of Irrigation and Drainage Engineering - ASCE, 2014, 140, .	1.0	8
95	Using Discriminant Analysis and Logistic Regression in Mapping Quaternary Sediments. Mathematical Geosciences, 2014, 46, 361-376.	2.4	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. Agricultural Water Management, 2014, 140, 69-78.	5.6	12
97	Reflectance estimation of canopy nitrogen content in winter wheat using optimised hyperspectral spectral indices and partial least squares regression. European Journal of Agronomy, 2014, 52, 198-209.	4.1	190
98	Potassium fertiliser enhances the salt-tolerance of common bean (Phaseolus vulgarisL.). Journal of Horticultural Science and Biotechnology, 2014, 89, 185-192.	1.9	31
99	Evaluating growth platforms and stress scenarios to assess the salt tolerance of wheat plants. Functional Plant Biology, 2014, 41, 860.	2.1	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. Field Crops Research, 2013, 141, 16-26.	5.1	47
101	Evaluation of active and passive sensor systems in the field to phenotype maize hybrids with high-throughput. Field Crops Research, 2013, 154, 236-245.	5.1	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. Agricultural and Forest Meteorology, 2013, 180, 44-57.	4.8	40
103	Transfer of a near infrared spectroscopy laboratory application to an online process analyser for in situ monitoring of anaerobic digestion. Bioresource Technology, 2013, 129, 39-50.	9.6	27
104	The potential for online monitoring of short-term process dynamics in anaerobic digestion using near-infrared spectroscopy. Biomass and Bioenergy, 2013, 48, 224-230.	5.7	20
105	Spectral assessments of wheat plants grown in pots and containers under saline conditions. Functional Plant Biology, 2013, 40, 409.	2.1	23
106	Spectral assessments of phenotypic differences in spike development during grain filling affected by varying N supply in wheat. Journal of Plant Nutrition and Soil Science, 2013, 176, 952-963.	1.9	13
107	Nitrogen availability of various biogas residues applied to ryegrass. Journal of Plant Nutrition and Soil Science, 2013, 176, 572-584.	1.9	35
108	EFFECT OF TILLER REMOVAL ON ION CONTENT IN MAINSTEM AND SUBTILLERS OF SPRING WHEAT UNDER MODERATE SALINITY. Journal of Plant Nutrition, 2012, 35, 1314-1328.	1.9	4

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109	Evaluation of Agricultural Feedstock-Robust near Infrared Calibrations for the Estimation of Process Parameters in Anaerobic Digestion. Journal of Near Infrared Spectroscopy, 2012, 20, 465-476.	1.5	7
110	Remotely estimating aerial N status of phenologically differing winter wheat cultivars grown in contrasting climatic and geographic zones in China and Germany. Field Crops Research, 2012, 138, 21-32.	5.1	71
111	Evaluating the Validity of a Nitrate Quick Test in Different Chinese Soils. Pedosphere, 2012, 22, 623-630.	4.0	6
112	Current Soil Nutrient Status of Intensively Managed Greenhouses. Pedosphere, 2012, 22, 825-833.	4.0	25
113	Characterisation of soil texture variability using the apparent soil electrical conductivity at a highly variable site. Computers and Geosciences, 2012, 39, 98-110.	4.2	61
114	Assessing the vertical footprint of reflectance measurements to characterize nitrogen uptake and biomass distribution in maize canopies. Field Crops Research, 2012, 129, 14-20.	5.1	46
115	A Comparison of Plant Temperatures as Measured by Thermal Imaging and Infrared Thermometry. Journal of Agronomy and Crop Science, 2012, 198, 415-429.	3.5	38
116	Highâ€Throughput Sensing of Aerial Biomass and Aboveâ€Ground Nitrogen Uptake in the Vegetative Stage of Wellâ€Watered and Drought Stressed Tropical Maize Hybrids. Crop Science, 2011, 51, 479-489.	1.8	32
117	Can changes in leaf water potential be assessed spectrally?. Functional Plant Biology, 2011, 38, 523.	2.1	59
118	Near Infrared Spectroscopy Calibrations for the Estimation of Process Parameters of Anaerobic Digestion of Energy Crops and Livestock Residues. Journal of Near Infrared Spectroscopy, 2011, 19, 479-493.	1.5	17
119	Drip Irrigation Frequency: The Effects and Their Interaction with Nitrogen Fertilization on Maize Growth and Nitrogen Use Efficiency under Arid Conditions. Journal of Agronomy and Crop Science, 2011, 197, 186-201.	3.5	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. European Journal of Agronomy, 2011, 35, 22-32.	4.1	84
121	Comparison of active and passive spectral sensors in discriminating biomass parameters and nitrogen status in wheat cultivars. Field Crops Research, 2011, 124, 74-84.	5.1	235
122	Quantification of mycorrhizal water uptake via high-resolution on-line water content sensors. Plant and Soil, 2011, 342, 459-468.	3.7	105
123	EVALUATION OF THE TRANSFERABILITY OF A SVAT MODELâ€“â€“RESULTS FROM FIELD AND GREENHOUSE APPLICATIONS. Irrigation and Drainage, 2011, 60, 59-70.	1.7	3
124	COMPARATIVE EFFICACY OF UREA FERTILIZATION VIA SUPERGRANULES VERSUS PRILLS ON NITROGEN DISTRIBUTION, YIELD RESPONSE AND NITROGEN USE EFFICIENCY OF SPRING WHEAT. Journal of Plant Nutrition, 2011, 34, 779-797.	1.9	14
125	Influence of ambient light and temperature on laser-induced chlorophyll fluorescence measurements. European Journal of Agronomy, 2010, 32, 169-176.	4.1	26
126	Tractorâ€Based Quadrilateral Spectral Reflectance Measurements to Detect Biomass and Total Aerial Nitrogen in Winter Wheat. Agronomy Journal, 2010, 102, 499-506.	1.8	75

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127	Optimal coupling combinations between irrigation frequency and rate for drip-irrigated maize grown on sandy soil. Agricultural Water Management, 2010, 97, 439-448.	5.6	64
128	Gaseous Nitrogen Losses from a Cambisol Cropped to Spring Wheat with Urea Sizes and Placement Depths. Soil Science Society of America Journal, 2009, 73, 1335-1344.	2.2	31
129	Effects of urease and nitrification inhibitors added to urea on nitrous oxide emissions from a loess soil. Journal of Plant Nutrition and Soil Science, 2009, 172, 651-660.	1.9	40
130	Emissions of Nitrous Oxide, Ammonia, and Carbon Dioxide from a Cambisol at Two Contrasting Soil Water Regimes and Urea Granular Sizes. Communications in Soil Science and Plant Analysis, 2009, 40, 1191-1213.	1.4	9
131	Nitrogen status and biomass determination of oilseed rape by laser-induced chlorophyll fluorescence. European Journal of Agronomy, 2009, 30, 238-242.	4.1	60
132	Reply to Schnyder, Kavanova and Nelson. Journal of Integrative Plant Biology, 2009, 51, 437-437.	8.5	0
133	A Comparison of Screening Criteria for Salt Tolerance in Wheat under Field and Controlled Environmental Conditions. Journal of Agronomy and Crop Science, 2009, 195, 356-367.	3.5	58
134	Abiotic soil properties and the occurrence of Rhizoctonia crown and root rot in sugar beet. Journal of Plant Nutrition and Soil Science, 2009, 172, 661-668.	1.9	22
135	Water integration by plants root under non-uniform soil salinity. Irrigation Science, 2008, 27, 83-95.	2.8	35
136	Spatial and Temporal Quantitative Analysis of Cell Division and Elongation Rate in Growing Wheat Leaves under Saline Conditions. Journal of Integrative Plant Biology, 2008, 50, 76-83.	8.5	8
137	Effect of foliar fertilization application on the growth and mineral nutrient content of maize seedlings under drought and salinity. Soil Science and Plant Nutrition, 2008, 54, 133-141.	1.9	76
138	Palladium exposure of barley: uptake and effects. Plant Biology, 2008, 10, 272-276.	3.8	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. Journal of Agronomy and Crop Science, 2008, 194, 180-192.	3.5	60
140	Estimating the nitrogen nutrition index using spectral canopy reflectance measurements. European Journal of Agronomy, 2008, 29, 184-190.	4.1	185
141	Insights on the role of tillering in salt tolerance of spring wheat from detillering. Environmental and Experimental Botany, 2008, 64, 33-42.	4.2	9
142	Irrigation rate and plant density effects on yield and water use efficiency of drip-irrigated corn. Agricultural Water Management, 2008, 95, 836-844.	5.6	82
143	Spectral measurements of the total aerial N and biomass dry weight in maize using a quadrilateral-view optic. Field Crops Research, 2008, 106, 94-103.	5.1	59
144	Effectiveness of 3,4-Dimethylpyrazole Phosphate as Nitrifl cation Inhibitor in Soil as Influenced by Inhibitor Concentration, Application Form, and Soil Matric Potential. Pedosphere, 2008, 18, 378-385.	4.0	67

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145	Precision Farming â€“ Adaptation of Land Use Management to Small Scale Heterogeneity. , 2008, , 121-199.		15
146	Daytime, Temporal, and Seasonal Variations of N2O Emissions in an Upland Cropping System of the Humid Tropics. Communications in Soil Science and Plant Analysis, 2007, 38, 189-204.	1.4	13
147	Evaluation of the differential osmotic adjustments between roots and leaves of maize seedlings with single or combined NPK-nutrient supply. Functional Plant Biology, 2007, 34, 228.	2.1	15
148	Nitrogen fertilizerâ€“induced mineralization of soil organic C and N in six contrasting soils of Bangladesh. Journal of Plant Nutrition and Soil Science, 2007, 170, 210-218.	1.9	26
149	Effect of Salinity on the Composition, Number and Size of Epidermal Cells along the Mature Blade of Wheat Leaves. Journal of Integrative Plant Biology, 2007, 49, 1016-1023.	8.5	8
150	Differential effect of moderate salinity on growth and ion contents in the mainstem and subtillers of two wheat genotypes. Soil Science and Plant Nutrition, 2007, 53, 782-791.	1.9	4
151	Assessing the Suitability of Various Physiological Traits to Screen Wheat Genotypes for Salt Tolerance. Journal of Integrative Plant Biology, 2007, 49, 1352-1360.	8.5	29
152	Short-term effects of drought and salinity on mineral nutrient distribution along growing leaves of maize seedlings. Environmental and Experimental Botany, 2007, 60, 268-275.	4.2	131
153	Short-Term Effect of Drought and Salinity on Growth and Mineral Elements in Wheat Seedlings. Journal of Plant Nutrition, 2006, 29, 2227-2243.	1.9	30
154	High resolution topsoil mapping using hyperspectral image and field data in multivariate regression modeling procedures. Geoderma, 2006, 136, 235-244.	5.1	221
155	Nitrogen release from plant-derived and industrially processed organic fertilizers used in organic horticulture. Journal of Plant Nutrition and Soil Science, 2006, 169, 549-556.	1.9	36
156	Influence of sodium polyacrylate on the water-holding capacity of three different soils and effects on growth of wheat. Soil Use and Management, 2006, 20, 207-209.	4.9	33
157	N2O, NH3 and NOx Emissions as a Function of Urea Granule Size and Soil Type Under Aerobic Conditions. Water, Air, and Soil Pollution, 2006, 175, 127-148.	2.4	21
158	Salinity and the growth of non-halophytic grass leaves: the role of mineral nutrient distribution. Functional Plant Biology, 2005, 32, 973.	2.1	53
159	Quantification of Water Uptake by Arbuscular Mycorrhizal Hyphae and its Significance for Leaf Growth, Water Relations, and Gas Exchange of Barley Subjected to Drought Stress. Plant Biology, 2005, 7, 706-712.	3.8	186
160	Potential for Using Plant Xylem Sap to Evaluate Inorganic Nutrient Availability in Soil. Soil Science and Plant Nutrition, 2005, 51, 333-341.	1.9	35
161	Potential for Using Plant Xylem Sap to Evaluate Inorganic Nutrient Availability in Soil. Soil Science and Plant Nutrition, 2005, 51, 343-350.	1.9	9
162	Evaluating salt tolerance of wheat genotypes using multiple parameters. European Journal of Agronomy, 2005, 22, 243-253.	4.1	170

#	Article	IF	Citations
163	Carbon and nitrogen mineralization in different upland soils of the subtropics treated with organic materials. Soil Biology and Biochemistry, 2005, 37, 1507-1518.	8.8	198
164	Effect of salinity on tissue architecture in expanding wheat leaves. Planta, 2005, 220, 838-848.	3.2	36
165	MensuraÃ§Ã£o da condutividade elÃ©trica do solo por induÃ§Ã£o e sua correlaÃ§Ã£o com fatores de produÃ§Ã£o. Engenharia Agricola, 2005, 25, 420-426.	0.7	11
166	The Legume Content in Multispecies Mixtures as Estimated with Near Infrared Reflectance Spectroscopy Method Validation. Agronomy Journal, 2005, 97, 18-25.	1.8	22
167	Development of Near Infrared Reflectance Spectroscopy Calibrations to Estimate Legume Content of Multispecies Legume-Grass Mixtures. Agronomy Journal, 2005, 97, 11-17.	1.8	21
168	Lanthanum uptake from soil and nutrient solution and its effects on plant growth. Journal of Plant Nutrition and Soil Science, 2005, 168, 574-580.	1.9	47
169	Short-term and residual availability of nitrogen after long-term application of organic fertilizers on arable land. Journal of Plant Nutrition and Soil Science, 2005, 168, 439-446.	1.9	320
170	Development of a quick on-farm test to determine nitrate levels in soil. Journal of Plant Nutrition and Soil Science, 2005, 168, 432-438.	1.9	63
171	Drought and salinity: A comparison of their effects on mineral nutrition of plants. Journal of Plant Nutrition and Soil Science, 2005, 168, 541-549.	1.9	798
172	Growth, ion content, gas exchange, and water relations of wheat genotypes differing in salt tolerances. Australian Journal of Agricultural Research, 2005, 56, 123.	1.5	114
173	Limitation of Salt Stress to Plant Growth. Books in Soils, Plants, and the Environment, 2004, , .	0.1	8
174	Field calibration of a capacitance soil water probe in heterogeneous fields. Soil Research, 2004, 42, 289.	1.1	50
175	Influence of sodium polyacrylate on the water-holding capacity of three different soils and effects on growth of wheat. Soil Use and Management, 2004, 20, 207-209.	4.9	2
176	Title is missing!. Plant and Soil, 2002, 247, 71-80.	3.7	39
177	Use of modelling to understand nutrient acquisition by plants. Plant and Soil, 2002, 247, 123-130.	3.7	15
178	Title is missing!. Plant and Soil, 2002, 247, 93-105.	3.7	252
179	A proposed role for copper ions in cell wall loosening. Plant and Soil, 2002, 247, 57-67.	3.7	86
180	The impact of mineral nutrients in food crops on global human health. Plant and Soil, 2002, 247, 83-90.	3.7	156

#	ARTICLE	IF	CITATIONS
181	Mechanisms of metal resistance in plants: aluminum and heavy metals. Plant and Soil, 2002, 247, 109-119.	3.7	66
182	Molecular mechanisms of potassium and sodium uptake in plants. Plant and Soil, 2002, 247, 43-54.	3.7	151
183	Malate plays a central role in plant nutrition. Plant and Soil, 2002, 247, 133-139.	3.7	99
184	Precision agriculture: a challenge for crop nutrition management. Plant and Soil, 2002, 247, 143-149.	3.7	157
185	Plant nutrition research: Priorities to meet human needs for food in sustainable ways. Plant and Soil, 2002, 247, 3-24.	3.7	383
186	Title is missing!. Plant and Soil, 2002, 247, 153-175.	3.7	183
187	EFFECTS OF SALINITY AND MACRONUTRIENT LEVELS ON MICRONUTRIENTS IN WHEAT. Journal of Plant Nutrition, 2001, 24, 273-281.	1.9	41
188	Influence of soil parameters on the effect of 3,4-dimethylpyrazole-phosphate as a nitrification inhibitor. Biology and Fertility of Soils, 2001, 34, 98-102.	4.3	130
189	Nitrous oxide emission from soil and from a nitrogen-15-labelled fertilizer with the new nitrification inhibitor 3,4-dimethylpyrazole phosphate (DMPP). Biology and Fertility of Soils, 2001, 34, 103-108.	4.3	83
190	Reduced cellular cross-sectional area in the leaf elongation zone of wheat causes a decrease in dry weight deposition under saline conditions. Functional Plant Biology, 2001, 28, 165.	2.1	7
191	Legume Decomposition and Nitrogen Release When Applied as Green Manures to Tropical Vegetable Production Systems. Agronomy Journal, 2000, 92, 253-260.	1.8	62
192	Tomato Crop Response to Shortâ€Duration Legume Green Manures in Tropical Vegetable Systems. Agronomy Journal, 2000, 92, 245-253.	1.8	19
193	Carbohydrate deposition and partitioning in elongating leaves of wheat under saline soil conditions. Functional Plant Biology, 2000, 27, 363.	2.1	26
194	Kinetics and Spatial Distribution of Leaf Elongation of Wheat (Triticum aestivum L.) under Saline Soil Conditions. International Journal of Plant Sciences, 2000, 161, 575-582.	1.3	22
195	Tomato Crop Response to Short-Duration Legume Green Manures in Tropical Vegetable Systems. Semigroup Forum, 2000, 92, 245.	0.6	7
196	Legume Decomposition and Nitrogen Release When Applied as Green Manures to Tropical Vegetable Production Systems. Semigroup Forum, 2000, 92, 253.	0.6	21
197	Spatial distributions and net deposition rates of Fe, Mn and Zn in the elongating leaves of wheat under saline soil conditions. Functional Plant Biology, 2000, 27, 53.	2.1	2
198	Spatial distributions and net deposition rates of Fe, Mn and Zn in the elongating leaves of wheat under saline soil conditions. Australian Systematic Botany, 2000, 13, .	0.9	0

#	ARTICLE	IF	CITATIONS
199	A two-pinhole technique to determine distribution profiles of relative elemental growth rates in the growth zone of grass leaves. Functional Plant Biology, 2000, 27, 1187.	2.1	1
200	Spatial distributions and net deposition rates of mineral elements in the elongating wheat (Triticum) Tj ETQq0 0 0 rgBT /Overlock 10 Tf	3.2	61
201	Sequence of drought response of maize seedlings in drying soil. Physiologia Plantarum, 1998, 104, 159-168.	5.2	28
202	Sensitivity of root and leaf water status in maize (Zea mays) subjected to mild soil dryness. Functional Plant Biology, 1998, 25, 307.	2.1	15
203	Spatial distributions of inorganic ions and sugars contributing to osmotic adjustment in the elongating wheat leaf under saline soil conditions. Functional Plant Biology, 1998, 25, 591.	2.1	47
204	Interactive effects of salinity and macronutrient level on wheat. II. Composition. Journal of Plant Nutrition, 1997, 20, 1169-1182.	1.9	62
205	Interactive effects of salinity and macronutrient level on wheat. I. Growth. Journal of Plant Nutrition, 1997, 20, 1155-1167.	1.9	27
206	The gradient between pre-dawn rhizoplane and bulk soil matric potentials, and its relation to the pre-dawn root and leaf water potentials of four species. Plant, Cell and Environment, 1997, 20, 953-960.	5.7	31
207	Adsorption of Thiamin (Vitamin B1) on Soils and Clays. Soil Science Society of America Journal, 1994, 58, 1829.	2.2	8
208	MEASURING AND MODELING ROOT WATER UPTAKE BASED ON 36CHLORIDE DISCRIMINATION IN A SILT LOAM SOIL AFFECTED BY GROUNDWATER. Soil Science, 1994, 158, 97-105.	0.9	17
209	Germination and seedling growth of carrots under salinity and moisture stress. Plant and Soil, 1991, 132, 243-251.	3.7	42
210	Transpiration/biomass ratio for carrots as affected by salinity, nutrient supply and soil aeration. Plant and Soil, 1991, 135, 125-132.	3.7	15
211	Germination of Pistacia vera L. pollen in liquid medium. Sexual Plant Reproduction, 1991, 4, 182.	2.2	10
212	COMPARATIVE INVESTIGATIONS OF THE EFFECTS OF SALINITY AND MOISTURE STRESS ON GERMINATION AND SEEDLING GROWTH OF CARROTS. Acta Horticulturae, 1990, , 213-220.	0.2	1
213	WATER DEMAND OF CARROTS AS AFFECTED BY THE NUTRIENT, SALINITY AND AERATION STATUS OF THE SOIL. Acta Horticulturae, 1990, , 203-212.	0.2	0
214	Soil resource mapping for precision farming using remote sensing. , 0, , .		0