Charles S Wortmann

List of Publications by Year
in descending order

111	2,503	201674	233421
papers	citations	27 h-index	45 g-index

113	113	113	2218
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Dryland Performance of Sweet Sorghum and Grain Crops for Biofuel in Nebraska. Agronomy Journal, 2010, 102, 319-326.	1.8	122
2	Tillage and Rotation Interactions for Corn and Soybean Grain Yield as Affected by Precipitation and Air Temperature. Agronomy Journal, 2004, 96, 425-432.	1.8	110
3	Corn Response to Nitrogen Rate, Row Spacing, and Plant Density in Eastern Nebraska. Agronomy Journal, 2006, 98, 529-535.	1.8	109
4	Soil organic carbon: The value to soil properties. Journal of Soils and Water Conservation, 2013, 68, 129A-134A.	1.6	97
5	Does occasional tillage undo the ecosystem services gained with no-till? A review. Soil and Tillage Research, 2020, 198, 104534.	5.6	92
6	The effects of manure application on soil aggregation. Nutrient Cycling in Agroecosystems, 2008, 80, 173-180.	2.2	89
7	Soybean response to nitrogen application across the United States: A synthesis-analysis. Field Crops Research, 2018, 215, 74-82.	5.1	83
8	Maize Response to Fertilizer and Nitrogen Use Efficiency in Uganda. Agronomy Journal, 2012, 104, 73-82.	1.8	78
9	Soil Microbial Community Change and Recovery after Oneâ€Time Tillage of Continuous Noâ€Till. Agronomy Journal, 2008, 100, 1681-1686.	1.8	69
10	Nitrogen Use Efficiency of Irrigated Corn for Three Cropping Systems in Nebraska. Agronomy Journal, 2011, 103, 76-84.	1.8	65
11	Oneâ€Time Tillage of Noâ€Till Systems: Soil Physical Properties, Phosphorus Runoff, and Crop Yield. Agronomy Journal, 2007, 99, 1104-1110.	1.8	62
12	Occasional Tillage of Noâ€Till Systems: Carbon Dioxide Flux and Changes in Total and Labile Soil Organic Carbon. Agronomy Journal, 2007, 99, 1158-1168.	1.8	61
13	Oneâ€Time Tillage of Noâ€Till: Effects on Nutrients, Mycorrhizae, and Phosphorus Uptake. Agronomy Journal, 2007, 99, 1093-1103.	1.8	60
14	Decomposition of Bt and Non-Bt Corn Hybrid Residues in the Field. Nutrient Cycling in Agroecosystems, 2008, 80, 211-222.	2.2	53
15	Highâ€Yielding Corn Response to Applied Phosphorus, Potassium, and Sulfur in Nebraska. Agronomy Journal, 2009, 101, 546-555.	1.8	53
16	Tillage and Rotation Interactions for Corn and Soybean Grain Yield as Affected by Precipitation and Air Temperature. Agronomy Journal, 2004, 96, 425.	1.8	52
17	Oneâ€Time Tillage of Noâ€Till Crop Land Five Years Postâ€Tillage. Agronomy Journal, 2010, 102, 1302-1307.	1.8	52
18	Tetracycline and Sulfonamide Antibiotic Resistance Genes in Soils From Nebraska Organic Farming Operations. Frontiers in Microbiology, 2018, 9, 1283.	3.5	51

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19	Micro-Basin Tillage for Grain Sorghum Production in Semiarid Areas of Northern Ethiopia. Agronomy Journal, 2006, 98, 124.	1.8	46
20	Aerial Interseeded Cover Crop and Corn Residue Harvest: Soil and Crop Impacts. Agronomy Journal, 2017, 109, 1344-1351.	1.8	46
21	Title is missing!. Agroforestry Systems, 1999, 47, 123-138.	2.0	45
22	Sorghum Response to Fertilizer and Nitrogen Use Efficiency in Uganda. Agronomy Journal, 2012, 104, 83-90.	1.8	40
23	Phosphorus Runoff during Four Years following Composted Manure Application. Journal of Environmental Quality, 2006, 35, 651-657.	2.0	37
24	Nitrogen Response and Economics for Irrigated Corn in Nebraska. Agronomy Journal, 2011, 103, 67-75.	1.8	35
25	Optimizing smallholder returns to fertilizer use: Bean, soybean and groundnut. Field Crops Research, 2012, 127, 109-119.	5.1	35
26	Maximizing Net Returns to Financially Constrained Fertilizer Use. Agronomy Journal, 2013, 105, 573-578.	1.8	34
27	Plant Materials for Soil Fertility Management in Subhumid Tropical Areas. Agronomy Journal, 2001, 93, 929-935.	1.8	32
28	Diagnosis of crop secondary and micro-nutrient deficiencies in sub-Saharan Africa. Nutrient Cycling in Agroecosystems, 2019, 113, 127-140.	2.2	31
29	Maizeâ€“Bean Intercrop Weed Suppression and Profitability in Southern Ethiopia. Agronomy Journal, 2011, 103, 1058-1063.	1.8	30
30	Crop residue removal and soil erosion by wind. Journal of Soils and Water Conservation, 2017, 72, 97A-104A.	1.6	28
31	No-Till Row Crop Response to Starter Fertilizer in Eastern Nebraska. Agronomy Journal, 2006, 98, 156.	1.8	27
32	Conservation Agriculture Effects on Crop Productivity and Soil Properties in Ethiopia. Agronomy Journal, 2018, 110, 758-767.	1.8	26
33	Low Input Approaches for Soil Fertility Management in Semiarid Eastern Uganda. Agronomy Journal, 2007, 99, 847-853.	1.8	24
34	Maize-nutrient response information applied across Sub-Saharan Africa. Nutrient Cycling in Agroecosystems, 2017, 107, 175-186.	2.2	22
35	Pearl Millet and Cowpea Intercrop Response to Applied Nutrients in West Africa. Agronomy Journal, 2017, 109, 2333-2342.	1.8	22
36	Tied-ridging and fertilizer use for sorghum production in semi-arid Ethiopia. Nutrient Cycling in Agroecosystems, 2009, 85, 87-94.	2.2	21

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37	Nitrogen Response of Grain Sorghum in Rotation with Soybean. Agronomy Journal, 2007, 99, 808-813.	1.8	19
38	Effectiveness of Grass Filters in Reducing Phosphorus and Sediment Runoff. Water, Air, and Soil Pollution, 2012, 223, 5865-5875.	2.4	19
39	Conservation Agriculture for Maize and Bean Production in the Central Rift Valley of Ethiopia. Agronomy Journal, 2017, 109, 2988-2997.	1.8	19
40	Wheat nutrient response functions for the East Africa highlands. Nutrient Cycling in Agroecosystems, 2018, 111, 21-32.	2.2	16
41	Cassava Yield and Economic Response to Fertilizer in Tanzania, Kenya and Ghana. Agronomy Journal, 2018, 110, 1600-1606.	1.8	16
42	Crop Yield Response to Fertilizer Relative to Soil Properties in Subâ€Saharan Africa. Soil Science Society of America Journal, 2018, 82, 862-870.	2.2	16
43	Integrated nutrient management for resource-poor farming systems: A case study of adaptive research and technology dissemination in Uganda. Renewable Agriculture and Food Systems, 2001, 16, 161-167.	0.5	15
44	Maize-bean intercrop response to nutrient application relative to maize sole crop response. Nutrient Cycling in Agroecosystems, 2017, 109, 17-27.	2.2	15
45	Maize Sole Crop and Intercrop Response to Fertilizer in Mali and Niger. Agronomy Journal, 2018, 110, 728-736.	1.8	15
46	Identifying the drivers and predicting the outcome of conservation agriculture globally. Agricultural Systems, 2020, 177, 102692.	6.1	15
47	Residue Harvest Effects on Irrigated, Noâ€Till Corn Yield and Nitrogen Response. Agronomy Journal, 2016, 108, 384-390.	1.8	14
48	Sorghum and Groundnut Sole and Intercrop Nutrient Response in Semi-Arid West Africa. Agronomy Journal, 2017, 109, 2907-2917.	1.8	14
49	Effect of Foliar Micronutrients (B, Mn, Fe, Zn) on Maize Grain Yield, Micronutrient Recovery, Uptake, and Partitioning. Plants, 2021, 10, 528.	3.5	14
50	Nutrient dynamics in a climbing bean and sorghum crop rotation in the Central Africa Highlands. Nutrient Cycling in Agroecosystems, 2001, 61, 267-272.	2.2	13
51	Residual Effects of Compost and Plowing on Phosphorus and Sediment in Runoff. Journal of Environmental Quality, 2007, 36, 1521-1527.	2.0	13
52	Tieâ€Ridge Tillage for High Altitude Pulse Production in Northern Ethiopia. Agronomy Journal, 2008, 100, 447-453.	1.8	13
53	Soil Physical Properties of Aging Golf Course Putting Greens. Crop Science, 2010, 50, 2084-2091.	1.8	12
54	Skipâ€Row and Plant Population Effects on Sorghum Grain Yield. Agronomy Journal, 2010, 102, 296-302.	1.8	12

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55	Groundnut and Soybean Response to Nutrient Application in West Africa. Agronomy Journal, 2017, 109, 2323-2332.	1.8	12
56	Phosphorus Sorption as Affected by Soil Properties and Termite Activity in Eastern and Southern Africa. Soil Science Society of America Journal, 2009, 73, 2170-2176.	2.2	11
57	Maizeâ€“common bean intercropping to optimize maize-based crop production. Journal of Agricultural Science, 2017, 155, 1124-1136.	1.3	11
58	Bean yield and economic response to fertilizer in eastern and southern Africa. Nutrient Cycling in Agroecosystems, 2018, 111, 47-60.	2.2	11
59	Lowland Rice Nutrient Responses for the Guinea and Sudan Savannas of Nigeria. Agronomy Journal, 2018, 110, 1079-1088.	1.8	11
60	Development of an integrated bean root rot control strategy for Western Kenya. African Crop Science Journal, 1998, 6, .	0.2	11
61	Noâ€Till Row Crop Response to Starter Fertilizer in Eastern Nebraska II. Rainfed Grain Sorghum. Agronomy Journal, 2006, 98, 187-193.	1.8	10
62	Dry Soil Planting of Maize for Variable Onset of Rainfall in Ethiopia. Agronomy Journal, 2015, 107, 1618-1625.	1.8	10
63	Maize-Nutrient Response Functions for Eastern and Southern Africa. Agronomy Journal, 2018, 110, 2070-2079.	1.8	10
64	Shortâ€Term Impacts of Conservation Agriculture on Soil Physical Properties and Productivity in the Midhills of Nepal. Agronomy Journal, 2019, 111, 2128-2139.	1.8	10
65	Nutrient and Chemical Characterization of Aging Golf Course Putting Greens: Establishment and Rootzone Mixture Treatment Effects. Crop Science, 2007, 47, 193-199.	1.8	9
66	Integrated soil fertility management in sub-Saharan Africa.. , 2017, , 25-39.		9
67	Finger millet response to nitrogen, phosphorus and potassium in Kenya and Uganda. Nutrient Cycling in Agroecosystems, 2017, 108, 297-308.	2.2	8
68	Fertilizer Use Efficiency and Profitability of Irrigated Rice in Mali and Niger. Agronomy Journal, 2018, 110, 1951-1959.	1.8	8
69	Nutrient management for sustainable food crop intensification in African tropical savannas. Agronomy Journal, 0, , .	1.8	8
70	Time of Day Effect on Foliar Nutrient Concentrations inÂCorn and Soybean. Journal of Plant Nutrition, 2015, 38, 2312-2325.	1.9	7
71	Maize and pigeon pea sole crop and intercrop nutrient response functions for Tanzania. Nutrient Cycling in Agroecosystems, 2017, 109, 303-314.	2.2	7
72	Improvement of smallholder farming systems in Africa. Agronomy Journal, 2020, 112, 5325-5333.	1.8	7

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73	Foliar Micronutrient Application for High-Yield Maize. Agronomy, 2020, 10, 1946.	3.0	7
74	SkipâEŘow Planting and TieâEŘidging for Sorghum Production in Semiarid Areas of Ethiopia. Agronomy Journal, 2010, 102, 745-750.	1.8	6
75	Dry Soil Planting of Sorghum for Vertisols of Ethiopia. Agronomy Journal, 2014, 106, 469-474.	1.8	6
76	Perennial grass ley rotations with annual crops in tropical Africa: A review. Agronomy Journal, 2021, 113, 4510-4526.	1.8	6
77	Starter Fertilizer and Row Cleaning Did Not Affect Yield of EarlyâEPlanted, NoâETill Grain Sorghum. Crop Management, 2006, 5, 1-5.	0.3	5
78	Irrigated Soybean Can Have a Small Response to Nitrogen Applied During Early Reproductive Growth. Crop Management, 2012, 11, 1-4.	0.3	5
79	Maize [Zea Mays (L.)] crop-nutrient response functions extrapolation for Sub-Saharan Africa. Nutrient Cycling in Agroecosystems, 2017, 109, 269-289.	2.2	5
80	Pearl Millet and Sorghum Yield Response to Fertilizer in the Sahel of Burkina Faso. Journal of Agricultural Studies, 2017, 5, 176.	0.1	5
81	Maize and sorghum nutrient response functions for Ethiopia. Nutrient Cycling in Agroecosystems, 2020, 117, 401-410.	2.2	5
82	Spatial analysis for optimization of fertilizer use.. , 2017, , 20-24.		5
83	Manure Phosphorus Fractions: Development of Analytical Methods and Variation with Manure Types. Communications in Soil Science and Plant Analysis, 2007, 38, 935-947.	1.4	4
84	Grain Sorghum Response to Reduced Tillage, Rotation, and Soil Fertility Management in Uganda. Agronomy Journal, 2016, 108, 2137-2146.	1.8	4
85	Grain sorghum nitrogen use as affected by planting practice and nitrogen rate. Journal of Soil Science and Plant Nutrition, 2017, , 0-0.	3.4	4
86	High Soil Test Phosphorus Effect on Corn Yield. Soil Science Society of America Journal, 2018, 82, 1160-1167.	2.2	4
87	Applied organic nitrogen: Pre-plant and in-season estimation of corn nitrogen uptake. Field Crops Research, 2019, 241, 107577.	5.1	4
88	Fertilizer Use Issues for Smallholder Agriculture in Tropical Africa. , 0, , .		4
89	Lowland rice yield and profit response to fertilizer application in Rwanda. Agronomy Journal, 2020, 112, 1423-1432.	1.8	4
90	Efficiency of nitrogen acquisition and utilisation in common bean in Uganda. African Crop Science Journal, 1998, 6, .	0.2	4

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91	Tie-Ridge Tillage for High Altitude Pulse Production in Northern Ethiopia. Agronomy Journal, 2008, 100, 447.	1.8	3
92	Fertilizer Application Effects on Grain and Storage Root Nutrient Concentration. Agronomy Journal, 2018, 110, 2619-2625.	1.8	3
93	Simulationâ€based Maizeâ€“Wheat Cropping System Optimization in the Midhills of Nepal. Agronomy Journal, 2019, 111, 2569-2581.	1.8	3
94	Nitrogen Sidedress Directed by Corn Canopy Reflectance for Manured Fields. Agronomy Journal, 2019, 111, 2453-2461.	1.8	3
95	Soil aggregation as affected by application of diverse organicÂmaterials. , 2020, 3, e20097.		3
96	Maize response to applied nutrients for West African savannas. Agronomy Journal, 2020, 112, 2230-2239.	1.8	3
97	Nitrogen response functions targeted to technology extrapolation domains in Ethiopia using CERESâ€maize. Agronomy Journal, 2021, 113, 436-450.	1.8	3
98	Modeling soil texture and residue management effects on conservation agriculture productivity in Nepal. Soil and Tillage Research, 2021, 213, 105113.	5.6	3
99	Strategic Tillage for the Improvement of No-Till Farming Systems. , 2020, , 155-171.		3
100	Optimization of Financially Constrained Fertilizer Use. Assa, Cssa and Sssa, 2017, , 66-75.	0.6	2
101	Barley and wheat nutrient responses for Shewa, Ethiopia. Agronomy Journal, 2020, 112, 1309-1317.	1.8	2
102	Sorghum Grain Yield Under Different Rates of Mineral and Organic Fertilizer Application in the South-Sudan Zone of Burkina Faso. , 2018, , 235-248.		1
103	Fertilizer equivalence of organic nitrogen applied in beef cattle manure. Nutrient Cycling in Agroecosystems, 2019, 114, 225-235.	2.2	1
104	Sesame Sole Crop and Intercrop Response to Fertilizer in Semiâ€Arid Niger. Agronomy Journal, 2019, 111, 2069-2074.	1.8	1
105	Irrigation well water: Essential nutrient contents and other properties. , 2021, 4, e20137.		1
106	Maize Response to Fertilizer on Ferralsol and Luvisol in the South Sudan Zone of Burkina Faso. , 2018, , 195-214.		1
107	Optimizing maize-based cropping systems: sustainability, good agricultural practices (GAP) and yield goals. Burleigh Dodds Series in Agricultural Science, 2017, , 13-32.	0.2	1
108	Manure Phosphorus (P) and Surface Water Protection II: Field and Management Factors Contributing to P Loss Risk. Journal of Natural Resources and Life Sciences Education, 2006, 35, 241-242.	0.2	0

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109	Manure Phosphorus (P) and Surface Water Protection I: Basic Concepts of Soil and Water P. Journal of Natural Resources and Life Sciences Education, 2006, 35, 240-241.	0.2	0
110	Cultivation Effects on Organic Matter Concentration and Infiltration Rates of Two Creeping Bentgrass (Agrostis stolonifera L.) Putting Greens. , 2014, 11, ATS-2014-0032-RS.		0
111	Green Manure/Cover Crop Technology in Eastern and Central Uganda: Development and Dissemination. , 2004, , 219-236.		0