Sam E Wortman

List of Publications by Year
in descending order

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41 papers	1,099 citations	361296 20 h-index	414303 32 g-index
41 all docs	41 docs citations	41 times ranked	1153 citing authors

#	Article	IF	Citations
1	Effects of compost, cover crops, and local conditions on degradation of two agricultural mulches in soil. Renewable Agriculture and Food Systems, 2022, 37, 128-141.	0.8	7
2	A new method for detecting microâ€fragments of biodegradable mulch films containing poly(butylene) Tj ETQq0 0 0 rgBT /Overlock 10	1.0	3
3	Post-termination Effects of Cover Crop Monocultures and Mixtures on Soil Inorganic Nitrogen and Microbial Communities on Two Organic Farms in Illinois. Frontiers in Soil Science, 2022, 2, .	0.8	3
4	Proof of concept for growing lettuce and carrot in a biobased mulch membrane. Renewable Agriculture and Food Systems, 2021, 36, 121-125.	0.8	2
5	Abrasive Weeding as a Vehicle for Precision Fertilizer Management in Organic Vegetable Production. HortTechnology, 2021, 31, 136-143.	0.5	1
6	Biocomposites of Low-Density Polyethylene Plus Wood Flour or Flax Straw: Biodegradation Kinetics across Three Environments. Polymers, 2021, 13, 2138.	2.0	13
7	The Vegetable Variety Navigator Decision-support Tool: An Interactive Visualization of Variety Trial Meta-analysis Results. HortTechnology, 2021, 31, 535-541.	0.5	0
8	Profitability of abrasive weeding in organic grain and vegetable crops. Renewable Agriculture and Food Systems, 2020, 35, 215-220.	0.8	3
9	Field pennycress (Thlaspi arvense L.) has potential as an interseeded cover crop. Renewable Agriculture and Food Systems, 2020, 35, 594-598.	0.8	3
10	Benchmarking the Agronomic Performance of Biodegradable Mulches against Polyethylene Mulch Film: A Meta-Analysis. Agronomy, 2020, 10, 1618.	1.3	42
11	Organic fertilizer abrasive grits increase soil available nitrogen, plant height, andÂbiomass. , 2020, 3, e20091.		2
12	Nitrogen provisioned and recycled by cover crops in monoculture and mixture across two organic farms. Nutrient Cycling in Agroecosystems, 2019, 115, 441-453.	1.1	6
13	Degradation Rate of Bio-based Agricultural Mulch is Influenced by Mulch Composition and Biostimulant Application. Journal of Polymers and the Environment, 2019, 27, 498-509.	2.4	25
14	Abrasive Grit Application in Organic Red Pepper: An Opportunity for Integrating Nitrogen and Weed Management. Hortscience: A Publication of the American Society for Hortcultural Science, 2019, 54, 1509-1516.	0.5	5
15	An Early-Killed Rye (Secale cereale) Cover Crop Has Potential for Weed Management in Edamame (Glycine max). Weed Science, 2018, 66, 502-507.	0.8	5
16	Raised Beds for Vegetable Production in Urban Agriculture. Urban Agriculture & Regional Food Systems, 2018, 3, 1-10.	0.6	10
17	Using Abrasive Grit for Weed Management in Field Crops. , 2018, , .		2
18	Ecosystem services and tradeoffs in the home food gardens of African American, Chinese-origin and Mexican-origin households in Chicago, IL. Renewable Agriculture and Food Systems, 2017, 32, 69-86.	0.8	37

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19	Comparison of Organic and Integrated Nutrient Management Strategies for Reducing Soil N2O Emissions. Sustainability, 2017, 9, 510.	1.6	28
20	Speciesâ€Specific Contributions to Productivity and Weed Suppression in Cover Crop Mixtures. Agronomy Journal, 2017, 109, 2808-2819.	0.9	23
21	Firstâ€Season Crop Yield Response to Organic Soil Amendments: A Metaâ€Analysis. Agronomy Journal, 2017, 109, 1210-1217.	0.9	27
22	Biodegradable Plastic and Fabric Mulch Performance in Field and High Tunnel Cucumber Production. HortTechnology, 2016, 26, 148-155.	0.5	29
23	Weedy fallow as an alternative strategy for reducing nitrogen loss from annual cropping systems. Agronomy for Sustainable Development, 2016, 36, 1.	2.2	29
24	Nitrogenase Activity and Nodule Biomass of Cowpea (Vigna unguiculata L. Walp.) Decrease in Cover Crop Mixtures. Communications in Soil Science and Plant Analysis, 2015, 46, 1443-1457.	0.6	13
25	Assessing the potential for spunbond, nonwoven biodegradable fabric as mulches for tomato and bell pepper crops. Scientia Horticulturae, 2015, 193, 209-217.	1.7	24
26	Crop physiological response across the Chicago metropolitan region: Developing recommendations for urban and peri-urban farmers in the North Central US. Renewable Agriculture and Food Systems, 2015, 30, 8-14.	0.8	21
27	Crop physiological response to nutrient solution electrical conductivity and pH in an ebb-and-flow hydroponic system. Scientia Horticulturae, 2015, 194, 34-42.	1.7	89
28	Air-propelled abrasive grits reduce weed abundance and increase yields in organic vegetable production. Crop Protection, 2015, 77, 157-162.	1.0	24
29	Weed Suppressive Potential of Sudangrass is Driven by Interactions of Root Exudates and Decomposing Shoot Residue. Crop Management, 2014, 13, CM-2013-0037-RS.	0.3	1
30	Integrating Weed and Vegetable Crop Management with Multifunctional Air-Propelled Abrasive Grits. Weed Technology, 2014, 28, 243-252.	0.4	42
31	Arable weeds, cover crops, and tillage drive soil microbial community composition in organic cropping systems. Applied Soil Ecology, 2013, 72, 232-241.	2.1	59
32	Mechanical Termination of Diverse Cover Crop Mixtures for Improved Weed Suppression in Organic Cropping Systems. Weed Science, 2013, 61, 162-170.	0.8	48
33	Evaluating Cultivars for Organic Farming: Maize, Soybean, and Wheat Genotype by System Interactions in Eastern Nebraska. Agroecology and Sustainable Food Systems, 2013, 37, 915-932.	1.0	6
34	Environmental Challenges Threatening the Growth of Urban Agriculture in the United States. Journal of Environmental Quality, 2013, 42, 1283-1294.	1.0	141
35	Soil fertility and crop yields in long-term organic and conventional cropping systems in Eastern Nebraska. Renewable Agriculture and Food Systems, 2012, 27, 200-216.	0.8	32
36	Local Conditions, Not Regional Gradients, Drive Demographic Variation of Giant Ragweed (Ambrosia trifida) and Common Sunflower (Helianthus annuus) Across Northern U.S. Maize Belt. Weed Science, 2012, 60, 440-450.	0.8	18

#	Article	IF	Citations
37	Cover Crop Mixtures for the Western Corn Belt: Opportunities for Increased Productivity and Stability. Agronomy Journal, 2012, 104, 699-705.	0.9	93
38	Optimizing Cover Crop Benefits with Diverse Mixtures and an Alternative Termination Method. Agronomy Journal, 2012, 104, 1425-1435.	0.9	112
39	Integrating Management of Soil Nitrogen and Weeds. Weed Science, 2011, 59, 162-170.	0.8	26
40	Increased weed diversity, density and above-ground biomass in long-term organic crop rotations. Renewable Agriculture and Food Systems, 2010, 25, 281-295.	0.8	31
41	End-of-Life Management Options for Agricultural Mulch Films in the United Statesâ€"A Review. Frontiers in Sustainable Food Systems, 0, 6, .	1.8	14