

# Steven J Fonte

## List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

87  
papers

2,499  
citations

28  
h-index

48  
g-index

95  
ext. papers

3,205  
ext. citations

5.3  
avg, IF

5.04  
L-index

#	Paper	IF	Citations
87	Greenhouse-gas emissions from soils increased by earthworms. <i>Nature Climate Change</i> , <b>2013</b> , 3, 187-194	21.4	247
86	The PREDICTS database: a global database of how local terrestrial biodiversity responds to human impacts. <i>Ecology and Evolution</i> , <b>2014</b> , 4, 4701-35	2.8	132
85	The distribution of nematodes and soil microbial communities across soil aggregate fractions and farm management systems. <i>Soil Biology and Biochemistry</i> , <b>2011</b> , 43, 905-914	7.5	123
84	Global distribution of earthworm diversity. <i>Science</i> , <b>2019</b> , 366, 480-485	33.3	113
83	Biochar additions can enhance soil structure and the physical stabilization of C in aggregates. <i>Geoderma</i> , <b>2017</b> , 303, 110-117	6.7	106
82	The database of the PREDICTS (Projecting Responses of Ecological Diversity In Changing Terrestrial Systems) project. <i>Ecology and Evolution</i> , <b>2017</b> , 7, 145-188	2.8	101
81	Biodiversity and multiple ecosystem functions in an organic farmscape. <i>Agriculture, Ecosystems and Environment</i> , <b>2010</b> , 139, 80-97	5.7	98
80	Soil ecosystem services and land use in the rapidly changing Orinoco River Basin of Colombia. <i>Agriculture, Ecosystems and Environment</i> , <b>2014</b> , 185, 106-117	5.7	81
79	Influence of earthworm activity on aggregate-associated carbon and nitrogen dynamics differs with agroecosystem management. <i>Soil Biology and Biochemistry</i> , <b>2007</b> , 39, 1014-1022	7.5	81
78	Pasture degradation impacts soil phosphorus storage via changes to aggregate-associated soil organic matter in highly weathered tropical soils. <i>Soil Biology and Biochemistry</i> , <b>2014</b> , 68, 150-157	7.5	77
77	Fertilizer and Residue Quality Effects on Organic Matter Stabilization in Soil Aggregates. <i>Soil Science Society of America Journal</i> , <b>2009</b> , 73, 961-966	2.5	76
76	Plant versus microbial controls on soil aggregate stability in a seasonally dry ecosystem. <i>Geoderma</i> , <b>2016</b> , 272, 39-50	6.7	72
75	Soil macrofauna as indicators of soil quality and land use impacts in smallholder agroecosystems of western Nicaragua. <i>Ecological Indicators</i> , <b>2013</b> , 27, 71-82	5.8	72
74	Predicting bee community responses to land-use changes: Effects of geographic and taxonomic biases. <i>Scientific Reports</i> , <b>2016</b> , 6, 31153	4.9	61
73	Earthworm populations in relation to soil organic matter dynamics and management in California tomato cropping systems. <i>Applied Soil Ecology</i> , <b>2009</b> , 41, 206-214	5	59
72	Decomposition of Greenfall vs. Senescent Foliage in a Tropical Forest Ecosystem in Puerto Rico <sup>1</sup> . <i>Biotropica</i> , <b>2004</b> , 36, 474-482	2.3	56
71	Earthworms, soil fertility and aggregate-associated soil organic matter dynamics in the Quesungual agroforestry system. <i>Geoderma</i> , <b>2010</b> , 155, 320-328	6.7	54

70	Transitioning from standard to minimum tillage: Trade-offs between soil organic matter stabilization, nitrous oxide emissions, and N availability in irrigated cropping systems. <i>Soil and Tillage Research</i> , <b>2009</b> , 104, 256-262	6.5	47
69	Earthworms and litter management contributions to ecosystem services in a tropical agroforestry system <b>2010</b> , 20, 1061-73		44
68	Interactive effects of plants and earthworms on the physical stabilization of soil organic matter in aggregates. <i>Plant and Soil</i> , <b>2012</b> , 359, 205-214	4.2	43
67	Pasture degradation decreases organic P content of tropical soils due to soil structural decline. <i>Geoderma</i> , <b>2015</b> , 257-258, 123-133	6.7	40
66	The influence of a neotropical herbivore ( <i>Lamponius portoricensis</i> ) on nutrient cycling and soil processes. <i>Oecologia</i> , <b>2005</b> , 146, 423-31	2.9	40
65	Soil macrofauna-mediated impacts of plant species composition on soil functioning in Amazonian pastures. <i>Applied Soil Ecology</i> , <b>2012</b> , 56, 43-50	5	37
64	Effects of manipulated herbivore inputs on nutrient flux and decomposition in a tropical rainforest in Puerto Rico. <i>Oecologia</i> , <b>2011</b> , 167, 1141-9	2.9	37
63	Pathways to Agroecological Intensification of Soil Fertility Management by Smallholder Farmers in the Andean Highlands. <i>Advances in Agronomy</i> , <b>2012</b> , 116, 125-184	7.7	36
62	Intensifying rotations increases soil carbon, fungi, and aggregation in semi-arid agroecosystems. <i>Agriculture, Ecosystems and Environment</i> , <b>2018</b> , 258, 14-22	5.7	34
61	Can conservation agriculture improve phosphorus (P) availability in weathered soils? Effects of tillage and residue management on soil P status after 9 years in a Kenyan Oxisol. <i>Soil and Tillage Research</i> , <b>2017</b> , 166, 157-166	6.5	30
60	Soil aggregates control N cycling efficiency in long-term conventional and alternative cropping systems. <i>Nutrient Cycling in Agroecosystems</i> , <b>2007</b> , 79, 45-58	3.3	29
59	Unsustainable landscapes of deforested Amazonia: An analysis of the relationships among landscapes and the social, economic and environmental profiles of farms at different ages following deforestation. <i>Global Environmental Change</i> , <b>2016</b> , 40, 137-155	10.1	25
58	How rural out-migrations drive changes to farm and land management: A case study from the rural Andes. <i>Land Use Policy</i> , <b>2019</b> , 81, 594-603	5.6	25
57	Ants as indicators of soil-based ecosystem services in agroecosystems of the Colombian Llanos. <i>Applied Soil Ecology</i> , <b>2014</b> , 84, 24-30	5	24
56	Crop residue retention enhances soil properties and nitrogen cycling in smallholder maize systems of Chiapas, Mexico. <i>Applied Soil Ecology</i> , <b>2016</b> , 103, 110-116	5	23
55	Land use as a driver of soil fertility and biodiversity across an agricultural landscape in the Central Peruvian Andes <b>2017</b> , 27, 1138-1154		22
54	Soil aggregation, ecosystem engineers and the C cycle. <i>Acta Oecologica</i> , <b>2020</b> , 105, 103561	1.7	21
53	Tillage and residue management drive rapid changes in soil macrofauna communities and soil properties in a semiarid cropping system of Eastern Colorado. <i>Applied Soil Ecology</i> , <b>2019</b> , 143, 98-106	5	20

52	Evaluating ecosystem service trade-offs and synergies from slash-and-mulch agroforestry systems in El Salvador. <i>Ecological Indicators</i> , <b>2019</b> , 105, 264-278	5.8	20
51	Earthworm impacts on soil organic matter and fertilizer dynamics in tropical hillside agroecosystems of Honduras. <i>Pedobiologia</i> , <b>2010</b> , 53, 327-335	1.7	19
50	Assessing the sensitivity and repeatability of permanganate oxidizable carbon as a soil health metric: An interlab comparison across soils. <i>Geoderma</i> , <b>2020</b> , 366, 114235	6.7	18
49	Decomposition in Forest Canopies <b>2004</b> , 413-422		16
48	Economic viability of deficit irrigation in the Western US. <i>Agricultural Water Management</i> , <b>2018</b> , 196, 114-123	5.9	15
47	Improving the utility of erosion pins: absolute value of pin height change as an indicator of relative erosion. <i>Catena</i> , <b>2018</b> , 163, 427-432	5.8	13
46	Earthworms regulate plant productivity and the efficacy of soil fertility amendments in acid soils of the Colombian Llanos. <i>Soil Biology and Biochemistry</i> , <b>2019</b> , 129, 136-143	7.5	13
45	Environmental controls and long-term changes on carbon stocks under agricultural lands. <i>Soil and Tillage Research</i> , <b>2019</b> , 186, 310-321	6.5	13
44	Soil fertility regulates invasive herbivore performance and top-down control in tropical agroecosystems of Southeast Asia. <i>Agriculture, Ecosystems and Environment</i> , <b>2017</b> , 249, 38-49	5.7	12
43	The Rural Household Multiple Indicator Survey, data from 13,310 farm households in 21 countries. <i>Scientific Data</i> , <b>2020</b> , 7, 46	8.2	11
42	Biochemical proxies indicate differences in soil C cycling induced by long-term tillage and residue management in a tropical agroecosystem. <i>Plant and Soil</i> , <b>2017</b> , 420, 315-329	4.2	11
41	Influence of regions, land uses and soil properties on termite and ant communities in agricultural landscapes of the Colombian Llanos. <i>European Journal of Soil Biology</i> , <b>2016</b> , 74, 81-92	2.9	11
40	Forty percent revenue increase by combining organic and mineral nutrient amendments in Ugandan smallholder market vegetable production. <i>Agronomy for Sustainable Development</i> , <b>2012</b> , 32, 831-839	6.8	9
39	Root traits and root biomass allocation impact how wheat genotypes respond to organic amendments and earthworms. <i>PLoS ONE</i> , <b>2018</b> , 13, e0200646	3.7	8
38	Ecto- and endoparasitic nematodes respond differently across sites to changes in precipitation. <i>Oecologia</i> , <b>2020</b> , 193, 761-771	2.9	8
37	Improved Pastures Support Early Indicators of Soil Restoration in Low-input Agroecosystems of Nicaragua. <i>Environmental Management</i> , <b>2019</b> , 64, 201-212	3.1	7
36	Residual Effects of Fertilization History Increase Nitrous Oxide Emissions from Zero-N Controls: Implications for Estimating Fertilizer-Induced Emission Factors. <i>Journal of Environmental Quality</i> , <b>2016</b> , 45, 1501-1508	3.4	7
35	Soil Carbon Pools in Dryland Agroecosystems as Affected by Several Years of Drought. <i>Journal of Environmental Quality</i> , <b>2018</b> , 47, 766-773	3.4	7

34	Participatory design of improved forage/fallow options across soil gradients with farmers of the Central Peruvian Andes. <i>Agriculture, Ecosystems and Environment</i> , <b>2020</b> , 300, 106933	5.7	6
33	Linkages among Soil Properties and Litter Quality in Agroforestry Systems of Southeastern Brazil. <i>Sustainability</i> , <b>2020</b> , 12, 9752	3.6	6
32	Spectral responses to labile organic carbon fractions as useful soil quality indicators across a climatic gradient. <i>Ecological Indicators</i> , <b>2020</b> , 111, 106042	5.8	5
31	Dryland cover crop soil health benefits are maintained with grazing in the U.S. High and Central Plains. <i>Agriculture, Ecosystems and Environment</i> , <b>2021</b> , 313, 107358	5.7	5
30	Soil macroinvertebrate communities: A world-wide assessment. <i>Global Ecology and Biogeography</i> ,	6.1	5
29	Factors contributing to maize and bean yield gaps in Central America vary with site and agroecological conditions. <i>Journal of Agricultural Science</i> , <b>2019</b> , 157, 300-317	1	4
28	Agroecosystem patterns and land management co-develop through environment, management, and land-use interactions. <i>Ecosphere</i> , <b>2020</b> , 11, e03113	3.1	4
27	A soil tool kit to evaluate soil properties and monitor soil health changes in smallholder farming contexts. <i>Geoderma</i> , <b>2020</b> , 376, 114539	6.7	4
26	Predicting carbon benefits from climate-smart agriculture: High-resolution carbon mapping and uncertainty assessment in El Salvador. <i>Journal of Environmental Management</i> , <b>2017</b> , 202, 287-298	7.9	4
25	Tillage and residue management effects on irrigated maize performance and water cycling in a semiarid cropping system of Eastern Colorado. <i>Irrigation Science</i> , <b>2020</b> , 38, 547-557	3.1	4
24	Global data on earthworm abundance, biomass, diversity and corresponding environmental properties. <i>Scientific Data</i> , <b>2021</b> , 8, 136	8.2	4
23	PARTICIPATORY EVALUATION OF IMPROVED GRASSES AND FORAGE LEGUMES FOR SMALLHOLDER LIVESTOCK PRODUCTION IN CENTRAL AMERICA. <i>Experimental Agriculture</i> , <b>2019</b> , 55, 776-792	1.7	4
22	Conservation tillage supports soil macrofauna communities, infiltration, and farm profits in an irrigated maize-based cropping system of Colorado. <i>Soil Science Society of America Journal</i> , <b>2020</b> , 84, 1943-1956	2.5	3
21	Live barriers and associated organic amendments mitigate land degradation and improve crop productivity in hillside agricultural systems of the Ecuadorian Andes. <i>Land Degradation and Development</i> , <b>2020</b> , 31, 1650	4.4	3
20	Decomposition of Greenfall vs. Senescent Foliage in a Tropical Forest Ecosystem in Puerto Rico1. <i>Biotropica</i> , <b>2004</b> , 36, 474	2.3	3
19	Eucalyptus and alder field margins differ in their impact on ecosystem services and biodiversity within cropping fields of the Peruvian Andes. <i>Agriculture, Ecosystems and Environment</i> , <b>2020</b> , 303, 107107	5.7	3
18	The effects of dryland cropping system intensity on soil function and associated changes in macrofauna communities. <i>Soil Science Society of America Journal</i> , <b>2020</b> , 84, 1854-1870	2.5	3
17	Inter-community and on-farm asymmetric organic matter allocation patterns drive soil fertility gradients in a rural Andean landscape. <i>Land Degradation and Development</i> , <b>2020</b> , 31, 2973-2985	4.4	3

16	Deficit irrigation drives maize root distribution and soil microbial communities with implications for soil carbon dynamics. <i>Soil Science Society of America Journal</i> , <b>2021</b> , 85, 412-422	2.5	3
15	Unpicking the Inter-relationships Between Off-Farm Livelihood Diversification, Household Characteristics, and Farm Management in the Rural Andes. <i>Frontiers in Sustainable Food Systems</i> , <b>2021</b> , 5,	4.8	3
14	An evaluation of carbon indicators of soil health in long-term agricultural experiments. <i>Soil Biology and Biochemistry</i> , <b>2022</b> , 108708	7.5	3
13	Nitrogen Dynamics in an Established Alfalfa Field under Low Biochar Application Rates. <i>Soil Systems</i> , <b>2019</b> , 3, 77	3.5	2
12	Winter cover crops and no-till promote soil macrofauna communities in irrigated, Mediterranean cropland in California, USA. <i>Applied Soil Ecology</i> , <b>2021</b> , 166, 104068	5	2
11	Trade-offs Associated with Using Soil Carbon Sequestration as Climate Change Mitigation. <i>ICP Series on Climate Change Impacts, Adaptation, and Mitigation</i> , <b>2010</b> , 365-392		1
10	Grass-Legume Mixtures Show Potential to Increase Above- and Belowground Biomass Production for Andean Forage-Based Fallows. <i>Agronomy</i> , <b>2022</b> , 12, 142	3.6	1
9	Divergent belowground carbon allocation patterns of winter wheat shape rhizosphere microbial communities and nitrogen cycling activities. <i>Soil Biology and Biochemistry</i> , <b>2022</b> , 165, 108518	7.5	1
8	Compost inputs, cropping system, and rotation phase drive aggregate-associated carbon. <i>Soil Science Society of America Journal</i> , <b>2021</b> , 85, 829-846	2.5	1
7	Cover Crop Impacts on Water Dynamics and Yields in Dryland Wheat Systems on the Colorado Plateau. <i>Agronomy</i> , <b>2021</b> , 11, 1102	3.6	1
6	Land use conversion to agriculture impacts biodiversity, erosion control, and key soil properties in an Andean watershed. <i>Ecosphere</i> , <b>2022</b> , 13,	3.1	1
5	Linking soil microbial community structure to potential carbon mineralization: A continental scale assessment of reduced tillage. <i>Soil Biology and Biochemistry</i> , <b>2022</b> , 168, 108618	7.5	1
4	Ecological maturity and stability of nematode communities in response to precipitation manipulations in grasslands. <i>Applied Soil Ecology</i> , <b>2022</b> , 170, 104263	5	0
3	Land Tenure Insecurity Constrains Cropping System Investment in the Jordan Valley of the West Bank. <i>Sustainability</i> , <b>2020</b> , 12, 6557	3.6	0
2	Do morphological traits of ground-dwelling ants respond to land use changes in a neotropical landscape?. <i>Geoderma</i> , <b>2022</b> , 418, 115841	6.7	0
1	Artefactual depiction of predator-prey trophic linkages in global soils.. <i>Scientific Reports</i> , <b>2021</b> , 11, 23861	4.9	0