

Sean M Schaeffer

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.

70
papers

4,442
citations

34
h-index

66
g-index

72
ext. papers

5,409
ext. citations

6.1
avg, IF

5.78
L-index

#	Paper	IF	Citations
70	Water pulses and biogeochemical cycles in arid and semiarid ecosystems. <i>Oecologia</i> , 2004 , 141, 221-35	2.9	966
69	Microbial control over carbon cycling in soil. <i>Frontiers in Microbiology</i> , 2012 , 3, 348	5.7	674
68	Long term tillage, cover crop, and fertilization effects on microbial community structure, activity: Implications for soil quality. <i>Soil Biology and Biochemistry</i> , 2015 , 89, 24-34	7.5	274
67	A theoretical analysis of microbial eco-physiological and diffusion limitations to carbon cycling in drying soils. <i>Soil Biology and Biochemistry</i> , 2014 , 73, 69-83	7.5	162
66	Seasonal and episodic moisture controls on plant and microbial contributions to soil respiration. <i>Oecologia</i> , 2011 , 167, 265-78	2.9	139
65	Changes in soil microbial community composition in response to fertilization of paddy soils in subtropical China. <i>Applied Soil Ecology</i> , 2014 , 84, 140-147	5	129
64	Transpiration of cottonwood/willow forest estimated from sap flux. <i>Agricultural and Forest Meteorology</i> , 2000 , 105, 257-270	5.8	98
63	Responses of absolute and specific soil enzyme activities to long term additions of organic and mineral fertilizer. <i>Science of the Total Environment</i> , 2015 , 536, 59-67	10.2	88
62	Seasonal estimates of riparian evapotranspiration using remote and in situ measurements. <i>Agricultural and Forest Meteorology</i> , 2000 , 105, 281-309	5.8	87
61	Impacts of biodegradable plastic mulches on soil health. <i>Agriculture, Ecosystems and Environment</i> , 2019 , 273, 36-49	5.7	87
60	Carbon fluxes from plants to soil and dynamics of microbial immobilization under plastic film mulching and fertilizer application using ¹³ C pulse-labeling. <i>Soil Biology and Biochemistry</i> , 2015 , 80, 53-61	7.5	86
59	Responses of soil nitrogen dynamics in a Mojave Desert ecosystem to manipulations in soil carbon and nitrogen availability. <i>Oecologia</i> , 2003 , 134, 547-53	2.9	86
58	Functional and Structural Succession of Soil Microbial Communities below Decomposing Human Cadavers. <i>PLoS ONE</i> , 2015 , 10, e0130201	3.7	86
57	Trace N gas losses and N mineralization in Mojave desert soils exposed to elevated CO ₂ . <i>Soil Biology and Biochemistry</i> , 2002 , 34, 1777-1784	7.5	77
56	Nitrogen fixation by biological soil crusts and heterotrophic bacteria in an intact Mojave Desert ecosystem with elevated CO ₂ and added soil carbon. <i>Soil Biology and Biochemistry</i> , 2003 , 35, 643-649	7.5	71
55	Separating cellular metabolism from exoenzyme activity in soil organic matter decomposition. <i>Soil Biology and Biochemistry</i> , 2014 , 71, 68-75	7.5	69
54	Soil-plant N processes in a High Arctic ecosystem, NW Greenland are altered by long-term experimental warming and higher rainfall. <i>Global Change Biology</i> , 2013 , 19, 3529-39	11.4	61

53	Alterations of nitrogen dynamics under elevated carbon dioxide in an intact Mojave Desert ecosystem: evidence from nitrogen-15 natural abundance. <i>Oecologia</i> , 2002 , 131, 463-467	2.9	57
52	Soil carbon and nitrogen dynamics throughout the summer drought in a California annual grassland. <i>Soil Biology and Biochemistry</i> , 2017 , 115, 54-62	7.5	54
51	Pulse additions of soil carbon and nitrogen affect soil nitrogen dynamics in an arid Colorado Plateau shrubland. <i>Oecologia</i> , 2005 , 145, 425-33	2.9	53
50	Dynamics and distribution of ¹³ C-labeled straw carbon by microorganisms as affected by soil fertility levels in the Black Soil region of Northeast China. <i>Biology and Fertility of Soils</i> , 2015 , 51, 605-613	6.1	51
49	Static osmolyte concentrations in microbial biomass during seasonal drought in a California grassland. <i>Soil Biology and Biochemistry</i> , 2013 , 57, 356-361	7.5	51
48	In situ degradation of biodegradable plastic mulch films in compost and agricultural soils. <i>Science of the Total Environment</i> , 2020 , 727, 138668	10.2	51
47	Effect of diverse weathering conditions on the physicochemical properties of biodegradable plastic mulches. <i>Polymer Testing</i> , 2017 , 62, 454-467	4.5	50
46	Biological and physical influences on the carbon isotope content of CO ₂ in a subalpine forest snowpack, Niwot Ridge, Colorado. <i>Biogeochemistry</i> , 2009 , 95, 37-59	3.8	49
45	Soil microbial activity and N availability with elevated CO ₂ in Mojave Desert soils. <i>Global Biogeochemical Cycles</i> , 2004 , 18, n/a-n/a	5.9	46
44	Preface paper to the Semi-Arid Land-Surface-Atmosphere (SALSA) Program special issue. <i>Agricultural and Forest Meteorology</i> , 2000 , 105, 3-20	5.8	44
43	Release of micro- and nanoparticles from biodegradable plastic during in situ composting. <i>Science of the Total Environment</i> , 2019 , 675, 686-693	10.2	43
42	Substrate quality alters the microbial mineralization of added substrate and soil organic carbon. <i>Biogeosciences</i> , 2014 , 11, 4665-4678	4.6	39
41	Canopy structure and atmospheric flows in relation to the $\delta^{13}C$ of respired CO ₂ in a subalpine coniferous forest. <i>Agricultural and Forest Meteorology</i> , 2008 , 148, 592-605	5.8	39
40	Effects of elevated carbon dioxide on green leaf tissue and leaf litter quality in an intact Mojave Desert ecosystem. <i>Global Change Biology</i> , 2003 , 9, 729-735	11.4	39
39	Separating soil CO ₂ efflux into C-pool-specific decay rates via inverse analysis of soil incubation data. <i>Oecologia</i> , 2013 , 171, 721-32	2.9	38
38	Physical, biochemical, and microbial controls on amino sugar accumulation in soils under long-term cover cropping and no-tillage farming. <i>Soil Biology and Biochemistry</i> , 2019 , 135, 369-378	7.5	37
37	Cloud shading and fog drip influence the metabolism of a coastal pine ecosystem. <i>Global Change Biology</i> , 2013 , 19, 484-97	11.4	37
36	Effects of altered dry season length and plant inputs on soluble soil carbon. <i>Ecology</i> , 2018 , 99, 2348-2362	6.6	32

35	Long-term field performance of a tunable diode laser absorption spectrometer for analysis of carbon isotopes of CO ₂ in forest air. <i>Atmospheric Chemistry and Physics</i> , 2008 , 8, 5263-5277	6.8	32
34	Effects of <i>Bromus tectorum</i> invasion on microbial carbon and nitrogen cycling in two adjacent undisturbed arid grassland communities. <i>Biogeochemistry</i> , 2012 , 111, 427-441	3.8	30
33	Spatial and temporal properties of water vapor and latent energy flux over a riparian canopy. <i>Agricultural and Forest Meteorology</i> , 2000 , 105, 161-183	5.8	29
32	Impact of plastic film mulching and fertilizers on the distribution of straw-derived nitrogen in a soil-plant system based on ¹⁵ N labeling. <i>Geoderma</i> , 2018 , 317, 15-22	6.7	23
31	Mortality hotspots: Nitrogen cycling in forest soils during vertebrate decomposition. <i>Soil Biology and Biochemistry</i> , 2018 , 121, 165-176	7.5	23
30	Laboratory incubations reveal potential responses of soil nitrogen cycling to changes in soil C and N availability in Mojave Desert soils exposed to elevated atmospheric CO ₂ . <i>Global Change Biology</i> , 2007 , 13, 854-865	11.4	22
29	Habitat and Vegetation Variables Are Not Enough When Predicting Tick Populations in the Southeastern United States. <i>PLoS ONE</i> , 2015 , 10, e0144092	3.7	21
28	Viral and bacterial community responses to stimulated Fe(III)-bioreduction during simulated subsurface bioremediation. <i>Environmental Microbiology</i> , 2019 , 21, 2043-2055	5.2	20
27	Four years of continuous use of soil-biodegradable plastic mulch: impact on soil and groundwater quality. <i>Geoderma</i> , 2021 , 381, 114665	6.7	19
26	Agronomic performance of polyethylene and biodegradable plastic film mulches in a maize cropping system in a humid continental climate. <i>Science of the Total Environment</i> , 2021 , 786, 147460	10.2	17
25	Transformation and stabilization of straw residue carbon in soil affected by soil types, maize straw addition and fertilized levels of soil. <i>Geoderma</i> , 2019 , 337, 622-629	6.7	16
24	Biodegradable Plastic Mulch Films for Sustainable Specialty Crop Production 2019 , 183-213		14
23	Field-grown transgenic switchgrass (<i>Panicum virgatum</i> L.) with altered lignin does not affect soil chemistry, microbiology, and carbon storage potential. <i>GCB Bioenergy</i> , 2017 , 9, 1100-1109	5.6	14
22	Carbon stabilization in aggregate fractions responds to straw input levels under varied soil fertility levels. <i>Soil and Tillage Research</i> , 2020 , 199, 104593	6.5	13
21	Effects of phosphorus modified nZVI-biochar composite on emission of greenhouse gases and changes of microbial community in soil. <i>Environmental Pollution</i> , 2021 , 274, 116483	9.3	13
20	Impact of Agricultural Weathering on Physicochemical Properties of Biodegradable Plastic Mulch Films: Comparison of Two Diverse Climates Over Four Successive Years. <i>Journal of Polymers and the Environment</i> , 2021 , 29, 1-16	4.5	11
19	Vegetation Leachate During Arctic Thaw Enhances Soil Microbial Phosphorus. <i>Ecosystems</i> , 2016 , 19, 477-489	3.9	10
18	Soil CO ₂ flux trends with differences in soil moisture among four types of land use in an Ecuadorian páramo landscape. <i>Physical Geography</i> , 2017 , 38, 51-61	1.8	9

17	Opposite effects of nitrogen fertilization and plastic film mulching on crop N and P stoichiometry in a temperate agroecosystem. <i>Journal of Plant Ecology</i> , 2019 , 12, 682-692	1.7	9
16	Impact of microbial iron oxide reduction on the transport of diffusible tracers and non-diffusible nanoparticles in soils. <i>Chemosphere</i> , 2019 , 220, 391-402	8.4	7
15	Soil Health Management Enhances Microbial Nitrogen Cycling Capacity and Activity. <i>MSphere</i> , 2021 , 6,	5	7
14	Spatial changes in soil stable isotopic composition in response to carrion decomposition. <i>Biogeosciences</i> , 2019 , 16, 3929-3939	4.6	6
13	Conservation management improves agroecosystem function and resilience of soil nitrogen cycling in response to seasonal changes in climate. <i>Science of the Total Environment</i> , 2021 , 779, 146457	10.2	4
12	Factors affecting ¹³ C enrichment of vegetation and soil in temperate grasslands in Inner Mongolia, China. <i>Journal of Soils and Sediments</i> , 2019 , 19, 2190-2199	3.4	3
11	How Soil Bacterial Communities with Seasonal Variation Respond Differently to Long-Term Fertilization and Plastic Film Mulching. <i>Polish Journal of Environmental Studies</i> , 2018 , 27, 1483-1495	2.3	3
10	Effects of field-grown transgenic switchgrass carbon inputs on soil organic carbon cycling. <i>PeerJ</i> , 2019 , 7, e7887	3.1	3
9	Stabilization mechanisms of isotope-labeled carbon substrates in soil under moisture pulses and conservation agricultural management. <i>Geoderma</i> , 2020 , 380, 114677	6.7	3
8	Does long-term use of biodegradable plastic mulch affect soil carbon stock?. <i>Resources, Conservation and Recycling</i> , 2021 , 175, 105895	11.9	3
7	Variation in Bacterial Community Structure Under Long-Term Fertilization, Tillage, and Cover Cropping in Continuous Cotton Production.. <i>Frontiers in Microbiology</i> , 2022 , 13, 847005	5.7	3
6	Methodological clarification for estimating the input of plant-derived carbon in soils under elevated CO ₂ based on a ¹³ C-enriched CO ₂ labeling experiment. <i>Plant and Soil</i> , 2019 , 440, 569-580	4.2	1
5	Permafrost Active Layer Microbes From Ny Læsund, Svalbard (79°N) Show Autotrophic and Heterotrophic Metabolisms With Diverse Carbon-Degrading Enzymes.. <i>Frontiers in Microbiology</i> , 2021 , 12, 757812	5.7	1
4	Plant community regulates decomposer response to freezing more strongly than the rate or extent of the freezing regime. <i>Ecosphere</i> , 2019 , 10, e02608	3.1	1
3	Composition of soil viral and bacterial communities after long-term tillage, fertilization, and cover cropping management. <i>Applied Soil Ecology</i> , 2022 , 177, 104510	5	1
2	Recovery of bacterial communities and functions of soils under ridge tillage and no-tillage after different intensities and frequencies of drying-wetting disturbances in agroecosystems of northeastern China. <i>Catena</i> , 2021 , 203, 105367	5.8	0
1	Laboratory incubations reveal potential responses of soil nitrogen cycling to changes in soil C and N availability in Mojave Desert soils exposed to elevated atmospheric CO ₂ . <i>Global Change Biology</i> , 2007 , 070621084512036-???	11.4	