

Sean M Schaeffer

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/7029587/publications.pdf>

Version: 2024-02-01

72
papers

6,263
citations

94269

37
h-index

88477

70
g-index

72
all docs

72
docs citations

72
times ranked

7269
citing authors

#	ARTICLE	IF	CITATIONS
1	Water pulses and biogeochemical cycles in arid and semiarid ecosystems. <i>Oecologia</i> , 2004, 141, 221-235.	0.9	1,119
2	Microbial control over carbon cycling in soil. <i>Frontiers in Microbiology</i> , 2012, 3, 348.	1.5	978
3	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.	4.2	402
4	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.	4.2	220
5	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.	2.1	190
6	Seasonal and episodic moisture controls on plant and microbial contributions to soil respiration. <i>Oecologia</i> , 2011, 167, 265-278.	0.9	169
7	In situ degradation of biodegradable plastic mulch films in compost and agricultural soils. <i>Science of the Total Environment</i> , 2020, 727, 138668.	3.9	159
8	Impacts of biodegradable plastic mulches on soil health. <i>Agriculture, Ecosystems and Environment</i> , 2019, 273, 36-49.	2.5	156
9	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.	3.9	139
10	Functional and Structural Succession of Soil Microbial Communities below Decomposing Human Cadavers. <i>PLoS ONE</i> , 2015, 10, e0130201.	1.1	139
11	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.	4.2	124
12	Transpiration of cottonwood/willow forest estimated from sap flux. <i>Agricultural and Forest Meteorology</i> , 2000, 105, 257-270.	1.9	105
13	Seasonal estimates of riparian evapotranspiration using remote and in situ measurements. <i>Agricultural and Forest Meteorology</i> , 2000, 105, 281-309.	1.9	100
14	Separating cellular metabolism from exoenzyme activity in soil organic matter decomposition. <i>Soil Biology and Biochemistry</i> , 2014, 71, 68-75.	4.2	97
15	Responses of soil nitrogen dynamics in a Mojave Desert ecosystem to manipulations in soil carbon and nitrogen availability. <i>Oecologia</i> , 2003, 134, 547-553.	0.9	94
16	Release of micro- and nanoparticles from biodegradable plastic during in situ composting. <i>Science of the Total Environment</i> , 2019, 675, 686-693.	3.9	94
17	Effect of diverse weathering conditions on the physicochemical properties of biodegradable plastic mulches. <i>Polymer Testing</i> , 2017, 62, 454-467.	2.3	83
18	Soil carbon and nitrogen dynamics throughout the summer drought in a California annual grassland. <i>Soil Biology and Biochemistry</i> , 2017, 115, 54-62.	4.2	82

#	ARTICLE	IF	CITATIONS
19	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.	4.2	81
20	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.	4.2	81
21	Soil plant N processes in a High Arctic ecosystem, <sc>NW</sc> Greenland are altered by long-term experimental warming and higher rainfall. <i>Global Change Biology</i> , 2013, 19, 3529-3539.	4.2	80
22	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.	4.2	78
23	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.	2.3	71
24	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.	0.9	61
25	Static osmolyte concentrations in microbial biomass during seasonal drought in a California grassland. <i>Soil Biology and Biochemistry</i> , 2013, 57, 356-361.	4.2	61
26	Effects of altered dry season length and plant inputs on soluble soil carbon. <i>Ecology</i> , 2018, 99, 2348-2362.	1.5	60
27	Pulse additions of soil carbon and nitrogen affect soil nitrogen dynamics in an arid Colorado Plateau shrubland. <i>Oecologia</i> , 2005, 145, 425-433.	0.9	57
28	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.	1.7	57
29	Substrate quality alters the microbial mineralization of added substrate and soil organic carbon. <i>Biogeosciences</i> , 2014, 11, 4665-4678.	1.3	56
30	Preface paper to the Semi-Arid Land-Surface-Atmosphere (SALSA) Program special issue. <i>Agricultural and Forest Meteorology</i> , 2000, 105, 3-20.	1.9	55
31	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.	1.9	52
32	Activities of Microplastics (MPs) in Agricultural Soil: A Review of MPs Pollution from the Perspective of Agricultural Ecosystems. <i>Journal of Agricultural and Food Chemistry</i> , 2022, 70, 4182-4201.	2.4	52
33	Four years of continuous use of soil-biodegradable plastic mulch: impact on soil and groundwater quality. <i>Geoderma</i> , 2021, 381, 114665.	2.3	49
34	Separating soil CO ₂ efflux into C-pool-specific decay rates via inverse analysis of soil incubation data. <i>Oecologia</i> , 2013, 171, 721-732.	0.9	48
35	Mortality hotspots: Nitrogen cycling in forest soils during vertebrate decomposition. <i>Soil Biology and Biochemistry</i> , 2018, 121, 165-176.	4.2	46
36	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.	4.2	44

#	ARTICLE	IF	CITATIONS
37	Cloud shading and fog drip influence the metabolism of a coastal pine ecosystem. <i>Global Change Biology</i> , 2013, 19, 484-497.	4.2	43
38	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.	3.7	42
39	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.	3.9	42
40	Canopy structure and atmospheric flows in relation to the $\delta^{13}\text{C}$ of respired CO_2 in a subalpine coniferous forest. <i>Agricultural and Forest Meteorology</i> , 2008, 148, 592-605.	1.9	41
41	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.	1.9	40
42	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.	2.3	39
43	Habitat and Vegetation Variables Are Not Enough When Predicting Tick Populations in the Southeastern United States. <i>PLoS ONE</i> , 2015, 10, e0144092.	1.1	35
44	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.	1.7	32
45	Biodegradable Plastic Mulch Films for Sustainable Specialty Crop Production. , 2019, , 183-213.		32
46	Viral and bacterial community responses to stimulated Fe(III) bioreduction during simulated subsurface bioremediation. <i>Environmental Microbiology</i> , 2019, 21, 2043-2055.	1.8	32
47	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.	1.9	31
48	Carbon stabilization in aggregate fractions responds to straw input levels under varied soil fertility levels. <i>Soil and Tillage Research</i> , 2020, 199, 104593.	2.6	28
49	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.	2.4	28
50	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.	2.3	27
51	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.	4.2	26
52	Soil Health Management Enhances Microbial Nitrogen Cycling Capacity and Activity. <i>MSphere</i> , 2021, 6, .	1.3	21
53	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.	2.5	20
54	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.	1.2	18

#	ARTICLE	IF	CITATIONS
55	Does long-term use of biodegradable plastic mulch affect soil carbon stock?. <i>Resources, Conservation and Recycling</i> , 2021, 175, 105895.	5.3	18
56	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.	3.9	15
57	Vegetation Leachate During Arctic Thaw Enhances Soil Microbial Phosphorus. <i>Ecosystems</i> , 2016, 19, 477-489.	1.6	13
58	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.	0.6	12
59	Factors affecting 13C enrichment of vegetation and soil in temperate grasslands in Inner Mongolia, China. <i>Journal of Soils and Sediments</i> , 2019, 19, 2190-2199.	1.5	12
60	Spatial changes in soil stable isotopic composition in response to carrion decomposition. <i>Biogeosciences</i> , 2019, 16, 3929-3939.	1.3	12
61	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.	4.2	11
62	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.	1.5	10
63	Stabilization mechanisms of isotope-labeled carbon substrates in soil under moisture pulses and conservation agricultural management. <i>Geoderma</i> , 2020, 380, 114677.	2.3	8
64	Permafrost Active Layer Microbes From Ny-Ålesund, Svalbard (79°N) Show Autotrophic and Heterotrophic Metabolisms With Diverse Carbon-Degrading Enzymes. <i>Frontiers in Microbiology</i> , 2021, 12, 757812.	1.5	7
65	High initial soil organic matter level combined with aboveground plant residues increased microbial carbon use efficiency but accelerated soil priming effect. <i>Biogeochemistry</i> , 2022, 160, 1-15.	1.7	7
66	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.	0.6	6
67	Composition of soil viral and bacterial communities after long-term tillage, fertilization, and cover cropping management. <i>Applied Soil Ecology</i> , 2022, 177, 104510.	2.1	5
68	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.	2.2	4
69	Effects of field-grown transgenic switchgrass carbon inputs on soil organic carbon cycling. <i>PeerJ</i> , 2019, 7, e7887.	0.9	4
70	Methodological clarification for estimating the input of plant-derived carbon in soils under elevated CO ₂ based on a 13C-enriched CO ₂ labeling experiment. <i>Plant and Soil</i> , 2019, 440, 569-580.	1.8	2
71	Plant community regulates decomposer response to freezing more strongly than the rate or extent of the freezing regime. <i>Ecosphere</i> , 2019, 10, e02608.	1.0	1
72	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, .	4.2	0