

Scott X Chang

List of Publications by Year in descending order

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Version: 2024-02-01

362
papers

15,928
citations

16451

64
h-index

31849

101
g-index

369
all docs

369
docs citations

369
times ranked

13006
citing authors

#	ARTICLE	IF	CITATIONS
1	Cattle manure biochar and earthworm interactively affected CO ₂ and N ₂ O emissions in agricultural and forest soils: Observation of a distinct difference. <i>Frontiers of Environmental Science and Engineering</i> , 2022, 16, 1.	6.0	7
2	Plant and soil elemental C:N:P ratios are linked to soil microbial diversity during grassland restoration on the Loess Plateau, China. <i>Science of the Total Environment</i> , 2022, 806, 150557.	8.0	22
3	Multi-year drought alters plant species composition more than productivity across northern temperate grasslands. <i>Journal of Ecology</i> , 2022, 110, 197-209.	4.0	11
4	Biochar and its manure-based feedstock have divergent effects on soil organic carbon and greenhouse gas emissions in croplands. <i>Science of the Total Environment</i> , 2022, 806, 151337.	8.0	38
5	Pristine and engineered biochar for the removal of contaminants co-existing in several types of industrial wastewaters: A critical review. <i>Science of the Total Environment</i> , 2022, 809, 151120.	8.0	44
6	Long-term nitrogen fertilization, but not short-term tillage reversal, affects bacterial community structure and function in a no-till soil. <i>Journal of Soils and Sediments</i> , 2022, 22, 630-639.	3.0	6
7	Carbon stocks differ among land-uses in agroforestry systems in western Canada. <i>Agricultural and Forest Meteorology</i> , 2022, 313, 108756.	4.8	12
8	Feedstock type drives surface property, demineralization and element leaching of nitric acid-activated biochars more than pyrolysis temperature. <i>Bioresource Technology</i> , 2022, 344, 126316.	9.6	17
9	Grassland soil organic carbon and the effects of irrigated cropping in Alberta, Canada. <i>Soil Use and Management</i> , 2022, 38, 1189-1202.	4.9	4
10	Quantifying past, current, and future forest carbon stocks within agroforestry systems in central Alberta, Canada. <i>GCB Bioenergy</i> , 2022, 14, 669-680.	5.6	4
11	Land-Use Change Enhanced SOC Mineralization but Did Not Significantly Affect Its Storage in the Surface Layer. <i>International Journal of Environmental Research and Public Health</i> , 2022, 19, 3020.	2.6	4
12	Mitigation of agricultural NH ₃ emissions reduces PM _{2.5} pollution in China: A finer scale analysis. <i>Journal of Cleaner Production</i> , 2022, 350, 131507.	9.3	12
13	Malachite green removal using algal biochar and its composites with kombucha SCOBY: An integrated biosorption and phycoremediation approach. <i>Surfaces and Interfaces</i> , 2022, 30, 101880.	3.0	18
14	Mulched drip irrigation and biochar application reduce gaseous nitrogen emissions, but increase nitrogen uptake and peanut yield. <i>Science of the Total Environment</i> , 2022, 830, 154753.	8.0	18
15	Biochar effectively remediates Cd contamination in acidic or coarse- and medium-textured soils: A global meta-analysis. <i>Chemical Engineering Journal</i> , 2022, 442, 136225.	12.7	25
16	Functional diversity dominates positive species mixture effects on ecosystem multifunctionality in subtropical plantations. <i>Forest Ecosystems</i> , 2022, 9, 100039.	3.1	8
17	Effects of nitric acid modification on hydrochar's combustion, fuel and thermal properties are dependent on feedstock type. <i>Bioresource Technology</i> , 2022, 354, 127245.	9.6	7
18	Modified and pristine biochars for remediation of chromium contamination in soil and aquatic systems. <i>Chemosphere</i> , 2022, 303, 134942.	8.2	26

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19	Biochar production from lignocellulosic and nonlignocellulosic biomass using conventional and microwave heating. , 2022, , 85-95.		0
20	Biochar for remediation of alkaline soils contaminated with toxic elements. , 2022, , 223-240.		0
21	The Effect of Manure from Cattle Fed Barley- vs. Corn-Based Diets on Greenhouse Gas Emissions Depends on Soil Type. Soil Systems, 2022, 6, 47.	2.6	0
22	Meta-analysis shows that plant mixtures increase soil phosphorus availability and plant productivity in diverse ecosystems. Nature Ecology and Evolution, 2022, 6, 1112-1121.	7.8	43
23	Agroforestry perennials reduce nitrous oxide emissions and their live and dead trees increase ecosystem carbon storage. Global Change Biology, 2022, 28, 5956-5972.	9.5	7
24	Contrasting effects of different pH-raising materials on N_2O emissions in acidic upland soils. European Journal of Soil Science, 2021, 72, 432-445.	3.9	23
25	Characteristics of organic material inputs affect soil microbial NO_3^- immobilization rates calculated using different methods. European Journal of Soil Science, 2021, 72, 480-486.	3.9	13
26	Effects of silicon on the uptake and accumulation of arsenite and dimethylarsinic acid in rice (<i>Oryza</i>) Tj ETQq0 0 0 rBT /Overlock 10 Tf 5	12.4	17
27	Contrasting short-term responses of soil heterotrophic and autotrophic respiration to biochar-based and chemical fertilizers in a subtropical Moso bamboo plantation. Applied Soil Ecology, 2021, 157, 103758.	4.3	18
28	Fuel, thermal and surface properties of microwave-pyrolyzed biochars depend on feedstock type and pyrolysis temperature. Bioresource Technology, 2021, 320, 124282.	9.6	83
29	A review of the world's soil museums and exhibitions. Advances in Agronomy, 2021, 166, 277-304.	5.2	6
30	Comment on Inorganic N addition replaces N supplied to switchgrass (<i>Panicum virgatum</i>) by arbuscular mycorrhizal fungi. Ecological Applications, 2021, 31, e2270.	3.8	1
31	Coexistence of polyethylene microplastics and biochar increases ammonium sorption in an aqueous solution. Journal of Hazardous Materials, 2021, 405, 124260.	12.4	47
32	Biochar decreases methanogenic archaea abundance and methane emissions in a flooded paddy soil. Science of the Total Environment, 2021, 752, 141958.	8.0	35
33	Functional diversity of decomposers modulates litter decomposition affected by plant invasion along a climate gradient. Journal of Ecology, 2021, 109, 1236-1249.	4.0	34
34	Canola straw biochars produced under different pyrolysis temperatures and nitrapyrin independently affected cropland soil nitrous oxide emissions. Biology and Fertility of Soils, 2021, 57, 319-328.	4.3	6
35	Recommendations for stronger biochar research in soil biology and fertility. Biology and Fertility of Soils, 2021, 57, 333-336.	4.3	13
36	Greenhouse Gas Emissions from Forest Soils Reduced by Straw Biochar and Nitrapyrin Applications. Land, 2021, 10, 189.	2.9	7

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37	Effect of Manure from Cattle Fed 3-Nitrooxypropanol on Anthropogenic Greenhouse Gas Emissions Depends on Soil Type. <i>Agronomy</i> , 2021, 11, 371.	3.0	6
38	Converting rice husk to biochar reduces bamboo soil N ₂ O emissions under different forms and rates of nitrogen additions. <i>Environmental Science and Pollution Research</i> , 2021, 28, 28777-28788.	5.3	8
39	Manure-based biochar decreases heterotrophic respiration and increases gross nitrification rates in rhizosphere soil. <i>Soil Biology and Biochemistry</i> , 2021, 154, 108147.	8.8	18
40	Long-term nitrogen and sulfur deposition increased root-associated pathogen diversity and changed mutualistic fungal diversity in a boreal forest. <i>Soil Biology and Biochemistry</i> , 2021, 155, 108163.	8.8	17
41	Biochar Surface Functionality Plays a Vital Role in (Im)Mobilization and Phytoavailability of Soil Vanadium. <i>ACS Sustainable Chemistry and Engineering</i> , 2021, 9, 6864-6874.	6.7	35
42	Negative effects of multiple global change factors on soil microbial diversity. <i>Soil Biology and Biochemistry</i> , 2021, 156, 108229.	8.8	97
43	Long-Term Warming and Nitrogen Addition Have Contrasting Effects on Ecosystem Carbon Exchange in a Desert Steppe. <i>Environmental Science & Technology</i> , 2021, 55, 7256-7265.	10.0	12
44	Elemental composition of biochars is affected by methods used for its determination. <i>Journal of Analytical and Applied Pyrolysis</i> , 2021, 156, 105174.	5.5	11
45	Environmental Risks in Atmospheric CO ₂ Removal Using Enhanced Rock Weathering Are Overlooked. <i>Environmental Science & Technology</i> , 2021, 55, 9627-9629.	10.0	6
46	Carbonization temperature and feedstock type interactively affect chemical, fuel, and surface properties of hydrochars. <i>Bioresource Technology</i> , 2021, 330, 124976.	9.6	52
47	Lead(II) adsorption on microwave-pyrolyzed biochars and hydrochars depends on feedstock type and production temperature. <i>Journal of Hazardous Materials</i> , 2021, 412, 125255.	12.4	58
48	Linking enhanced soil nitrogen mineralization to increased fungal decomposition capacity with Moso bamboo invasion of broadleaf forests. <i>Science of the Total Environment</i> , 2021, 771, 144779.	8.0	33
49	Long-term nitrogen addition does not sustain host tree stem radial growth but doubles the abundance of high-biomass ectomycorrhizal fungi. <i>Global Change Biology</i> , 2021, 27, 4125-4138.	9.5	23
50	Biochar heavy metal removal in aqueous solution depends on feedstock type and pyrolysis purging gas. <i>Environmental Pollution</i> , 2021, 281, 117094.	7.5	76
51	Procyanidin inhibited N ₂ O emissions from paddy soils by affecting nitrate reductase activity and nirS- and nirK-denitrifier populations. <i>Biology and Fertility of Soils</i> , 2021, 57, 935-947.	4.3	14
52	Patterns and drivers of global gross nitrogen mineralization in soils. <i>Global Change Biology</i> , 2021, 27, 5950-5962.	9.5	106
53	Photosynthetic carbon allocation to live roots increases the year following high intensity defoliation across two ecosystems in a temperate mixed grassland. <i>Agriculture, Ecosystems and Environment</i> , 2021, 316, 107450.	5.3	11
54	Increasing plant diversity to mitigate net greenhouse effect of wastewater treatment in floating constructed wetlands. <i>Journal of Cleaner Production</i> , 2021, 314, 127955.	9.3	10

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55	Global gross nitrification rates are dominantly driven by soil carbon-to-nitrogen stoichiometry and total nitrogen. <i>Global Change Biology</i> , 2021, 27, 6512-6524.	9.5	94
56	Nickel in soil and water: Sources, biogeochemistry, and remediation using biochar. <i>Journal of Hazardous Materials</i> , 2021, 419, 126421.	12.4	65
57	Biochar decreases the efficacy of the nitrification inhibitor nitrapyrin in mitigating nitrous oxide emissions at different soil moisture levels. <i>Journal of Environmental Management</i> , 2021, 295, 113080.	7.8	22
58	Soil greenhouse gas emissions and grazing management in northern temperate grasslands. <i>Science of the Total Environment</i> , 2021, 796, 148975.	8.0	16
59	Mechanistic insights into the (im)mobilization of arsenic, cadmium, lead, and zinc in a multi-contaminated soil treated with different biochars. <i>Environment International</i> , 2021, 156, 106638.	10.0	61
60	Biochar affects the fate of phosphorus in soil and water: A critical review. <i>Chemosphere</i> , 2021, 283, 131176.	8.2	69
61	Forest land-use increases soil organic carbon quality but not its structural or thermal stability in a hedgerow system. <i>Agriculture, Ecosystems and Environment</i> , 2021, 321, 107617.	5.3	10
62	Adaptive multi-paddock grazing improves water infiltration in Canadian grassland soils. <i>Geoderma</i> , 2021, 401, 115314.	5.1	20
63	Organic amendment enhanced microbial nitrate immobilization with negligible denitrification nitrogen loss in an upland soil. <i>Environmental Pollution</i> , 2021, 288, 117721.	7.5	30
64	Environmental impacts of livestock excreta under increasing livestock production and management considerations: Implications for developing countries. <i>Current Opinion in Environmental Science and Health</i> , 2021, 24, 100300.	4.1	12
65	Linking soil carbon availability, microbial community composition and enzyme activities to organic carbon mineralization of a bamboo forest soil amended with pyrogenic and fresh organic matter. <i>Science of the Total Environment</i> , 2021, 801, 149717.	8.0	44
66	Yak dung pat fragmentation decreases yield-scaled growing-season nitrous oxide emissions in an alpine steppe on the Qinghai-Tibetan Plateau. <i>Biology and Fertility of Soils</i> , 2021, 57, 1103-1115.	4.3	6
67	Concurrent and rapid recovery of bacteria and protist communities in Canadian boreal forest ecosystems following wildfire. <i>Soil Biology and Biochemistry</i> , 2021, 163, 108452.	8.8	17
68	Plant mixture effects on carbon-degrading enzymes promote soil organic carbon accumulation. <i>Soil Biology and Biochemistry</i> , 2021, 163, 108457.	8.8	19
69	Higher ammonium-to-nitrate ratio shapes distinct soil nitrifying community and favors the growth of Moso bamboo in contrast to broadleaf tree species. <i>Biology and Fertility of Soils</i> , 2021, 57, 1171-1182.	4.3	17
70	Technologies and perspectives for achieving carbon neutrality. <i>Innovation(China)</i> , 2021, 2, 100180.	9.1	306
71	Reclamation of desert land to continuous cotton cropping affects soil properties and microbial communities in the desert-oasis ecotone of Xinjiang, China. <i>Journal of Soils and Sediments</i> , 2020, 20, 862-873.	3.0	10
72	Forest and perennial herbland cover reduce microbial respiration but increase root respiration in agroforestry systems. <i>Agricultural and Forest Meteorology</i> , 2020, 280, 107790.	4.8	12

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73	Extracellular enzyme activity in grass litter varies with grazing history, environment and plant species in temperate grasslands. <i>Science of the Total Environment</i> , 2020, 702, 134562.	8.0	23
74	Biochar surface complexation and Ni(II), Cu(II), and Cd(II) adsorption in aqueous solutions depend on feedstock type. <i>Science of the Total Environment</i> , 2020, 712, 136538.	8.0	137
75	Cattle urine and dung additions differently affect nitrification pathways and greenhouse gas emission in a grassland soil. <i>Biology and Fertility of Soils</i> , 2020, 56, 235-247.	4.3	13
76	Nitrogen deposition differentially affects soil gross nitrogen transformations in organic and mineral horizons. <i>Earth-Science Reviews</i> , 2020, 201, 103033.	9.1	44
77	Microbe-mediated attenuation of soil respiration in response to soil warming in a temperate oak forest. <i>Science of the Total Environment</i> , 2020, 711, 134563.	8.0	15
78	Soil extracellular enzyme stoichiometry reflects the shift from P- to N-limitation of microorganisms with grassland restoration. <i>Soil Biology and Biochemistry</i> , 2020, 149, 107928.	8.8	114
79	Land-use type, and land management and disturbance affect soil $\delta^{15}N$: a review. <i>Journal of Soils and Sediments</i> , 2020, 20, 3283-3299.	3.0	13
80	Adaptive Multi-Paddock Grazing Lowers Soil Greenhouse Gas Emission Potential by Altering Extracellular Enzyme Activity. <i>Agronomy</i> , 2020, 10, 1781.	3.0	15
81	Biochar increases soil microbial biomass but has variable effects on microbial diversity: A meta-analysis. <i>Science of the Total Environment</i> , 2020, 749, 141593.	8.0	105
82	Effects of ammonium-based nitrogen addition on soil nitrification and nitrogen gas emissions depend on fertilizer-induced changes in pH in a tea plantation soil. <i>Science of the Total Environment</i> , 2020, 747, 141340.	8.0	51
83	Soil respiration and net ecosystem productivity in a chronosequence of hybrid poplar plantations. <i>Canadian Journal of Soil Science</i> , 2020, 100, 488-502.	1.2	1
84	Greenhouse gas emissions are affected by land use type in two agroforestry systems: Results from an incubation experiment. <i>Ecological Research</i> , 2020, 35, 1073-1086.	1.5	5
85	Climate change and defoliation interact to affect root length across northern temperate grasslands. <i>Functional Ecology</i> , 2020, 34, 2611-2621.	3.6	10
86	Background nitrogen deposition controls the effects of experimental nitrogen addition on soil gross N transformations in forest ecosystems. <i>Biogeochemistry</i> , 2020, 151, 335-341.	3.5	7
87	Plant diversity improves the effluent quality and stability of floating constructed wetlands under increased ammonium/nitrate ratio in influent. <i>Journal of Environmental Management</i> , 2020, 266, 110607.	7.8	9
88	Residue retention promotes soil carbon accumulation in minimum tillage systems: Implications for conservation agriculture. <i>Science of the Total Environment</i> , 2020, 740, 140147.	8.0	64
89	Wheat straw and its biochar differently affect soil properties and field-based greenhouse gas emission in a Chernozemic soil. <i>Biology and Fertility of Soils</i> , 2020, 56, 1023-1036.	4.3	30
90	Biochar increases soil microbial biomass with changes in extra- and intracellular enzyme activities: a global meta-analysis. <i>Biochar</i> , 2020, 2, 65-79.	12.6	146

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91	Disturbance Effects on Soil Carbon and Greenhouse Gas Emissions in Forest Ecosystems. <i>Forests</i> , 2020, 11, 297.	2.1	10
92	Effects of long-term planting on PhytOC storage and its distribution in soil physical fractions in Moso bamboo forests in subtropical China. <i>Journal of Soils and Sediments</i> , 2020, 20, 2317-2329.	3.0	4
93	Interactive effects of global change factors on terrestrial net primary productivity are treatment length and intensity dependent. <i>Journal of Ecology</i> , 2020, 108, 2083-2094.	4.0	19
94	Effects of Capping Strategy and Water Balance on Salt Movement in Oil Sands Reclamation Soils. <i>Water (Switzerland)</i> , 2020, 12, 512.	2.7	3
95	Carbon accumulation in agroforestry systems is affected by tree species diversity, age and regional climate: A global meta-analysis. <i>Global Ecology and Biogeography</i> , 2020, 29, 1817-1828.	5.8	52
96	Elevated temperature shifts soil N cycling from microbial immobilization to enhanced mineralization, nitrification and denitrification across global terrestrial ecosystems. <i>Global Change Biology</i> , 2020, 26, 5267-5276.	9.5	166
97	Minimum tillage and residue retention increase soil microbial population size and diversity: Implications for conservation tillage. <i>Science of the Total Environment</i> , 2020, 716, 137164.	8.0	50
98	Silicon fertilizer and biochar effects on plant and soil PhytOC concentration and soil PhytOC stability and fractionation in subtropical bamboo plantations. <i>Science of the Total Environment</i> , 2020, 715, 136846.	8.0	19
99	Additive negative effects of decadal warming and nitrogen addition on grassland community stability. <i>Journal of Ecology</i> , 2020, 108, 1442-1452.	4.0	53
100	Biochar application increased methane emission, soil carbon storage and net ecosystem carbon budget in a 2-year vegetable-rice rotation. <i>Agriculture, Ecosystems and Environment</i> , 2020, 292, 106831.	5.3	55
101	Changes of microbial functional capacities in the rhizosphere contribute to aluminum tolerance by genotype-specific soybeans in acid soils. <i>Biology and Fertility of Soils</i> , 2020, 56, 771-783.	4.3	13
102	Carboxyl and hydroxyl groups enhance ammonium adsorption capacity of iron (III) chloride and hydrochloric acid modified biochars. <i>Bioresource Technology</i> , 2020, 309, 123390.	9.6	64
103	Tillage reversal did not reverse N fertilization enhanced C storage in a Black Chernozem and a Gray Luvisol. <i>Geoderma</i> , 2020, 370, 114355.	5.1	6
104	Soil N transformation rates are not linked to fertilizer N losses in vegetable soils with high N input. <i>Soil and Tillage Research</i> , 2020, 202, 104651.	5.6	22
105	Liming effects on soil pH and crop yield depend on lime material type, application method and rate, and crop species: a global meta-analysis. <i>Journal of Soils and Sediments</i> , 2019, 19, 1393-1406.	3.0	96
106	An integrated analysis on source-exposure risk of heavy metals in agricultural soils near intense electronic waste recycling activities. <i>Environment International</i> , 2019, 133, 105239.	10.0	111
107	Intensive Management Increases Phytolith-Occluded Carbon Sequestration in Moso Bamboo Plantations in Subtropical China. <i>Forests</i> , 2019, 10, 883.	2.1	6
108	Understory plant communities vary with tree productivity in two reclaimed boreal upland forest types in Canada. <i>Forest Ecology and Management</i> , 2019, 453, 117577.	3.2	3

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109	A global synthesis of the effect of water and nitrogen input on maize (<i>Zea mays</i>) yield, water productivity and nitrogen use efficiency. <i>Agricultural and Forest Meteorology</i> , 2019, 268, 136-145.	4.8	43
110	Soil Nitrogen and Greenhouse Gas Dynamics in a Temperate Grassland under Experimental Warming and Defoliation. <i>Soil Science Society of America Journal</i> , 2019, 83, 780-790.	2.2	10
111	Biochar properties and lead(II) adsorption capacity depend on feedstock type, pyrolysis temperature, and steam activation. <i>Chemosphere</i> , 2019, 231, 393-404.	8.2	195
112	Biochar decreases soil N ₂ O emissions in Moso bamboo plantations through decreasing labile N concentrations, N-cycling enzyme activities and nitrification/denitrification rates. <i>Geoderma</i> , 2019, 348, 135-145.	5.1	76
113	Response of microbial communities to biochar-amended soils: a critical review. <i>Biochar</i> , 2019, 1, 3-22.	12.6	419
114	Status assessment and probabilistic health risk modeling of metals accumulation in agriculture soils across China: A synthesis. <i>Environment International</i> , 2019, 128, 165-174.	10.0	201
115	Biochar composition-dependent impacts on soil nutrient release, carbon mineralization, and potential environmental risk: A review. <i>Journal of Environmental Management</i> , 2019, 241, 458-467.	7.8	249
116	Long-term N and S addition and changed litter chemistry do not affect trembling aspen leaf litter decomposition, elemental composition and enzyme activity in a boreal forest. <i>Environmental Pollution</i> , 2019, 250, 143-154.	7.5	14
117	Drought differentially affects autotrophic and heterotrophic soil respiration rates and their temperature sensitivity. <i>Biology and Fertility of Soils</i> , 2019, 55, 275-283.	4.3	33
118	Phosphorus Availabilities Differ between Cropland and Forestland in Shelterbelt Systems. <i>Forests</i> , 2019, 10, 1001.	2.1	2
119	Earthworm rather than biochar and sodium silicate addition increased bacterial diversity in mining areas subjected to chemical fertilization. <i>Biochar</i> , 2019, 1, 365-374.	12.6	1
120	Exogenous and endogenous nitrogen differentially affect the decomposition of fine roots of different diameter classes of Mongolian pine in semi-arid northeast China. <i>Plant and Soil</i> , 2019, 436, 109-122.	3.7	8
121	Carbon, nitrogen and phosphorus stocks differ among vegetation patch types in a degraded alpine steppe. <i>Journal of Soils and Sediments</i> , 2019, 19, 1809-1819.	3.0	13
122	Manure pellet, woodchip and their biochars differently affect wheat yield and carbon dioxide emission from bulk and rhizosphere soils. <i>Science of the Total Environment</i> , 2019, 659, 463-472.	8.0	28
123	Soil gross nitrogen transformations are related to land-uses in two agroforestry systems. <i>Ecological Engineering</i> , 2019, 127, 431-439.	3.6	28
124	Nitrogen depositions increase soil respiration and decrease temperature sensitivity in a Moso bamboo forest. <i>Agricultural and Forest Meteorology</i> , 2019, 268, 48-54.	4.8	73
125	Introducing trees to agricultural lands increases greenhouse gas emission during spring thaw in Canadian agroforestry systems. <i>Science of the Total Environment</i> , 2019, 652, 800-809.	8.0	14
126	Alkyl polyglycoside and earthworm (<i>Eisenia fetida</i>) enhance biodegradation of green waste and its use for growing vegetables. <i>Ecotoxicology and Environmental Safety</i> , 2019, 167, 459-466.	6.0	18

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127	Potential for mitigating global agricultural ammonia emission: A meta-analysis. <i>Environmental Pollution</i> , 2019, 245, 141-148.	7.5	148
128	Nitrogen deposition affects both net and gross soil nitrogen transformations in forest ecosystems: A review. <i>Environmental Pollution</i> , 2019, 244, 608-616.	7.5	88
129	Plant diversity decreases net global warming potential integrating multiple functions in microcosms of constructed wetlands. <i>Journal of Cleaner Production</i> , 2018, 184, 718-726.	9.3	33
130	Long-term grazing impacts on vegetation diversity, composition, and exotic species presence across an aridity gradient in northern temperate grasslands. <i>Plant Ecology</i> , 2018, 219, 649-663.	1.6	40
131	Long-term nitrogen fertilization decreases bacterial diversity and favors the growth of <i>Actinobacteria</i> and <i>Proteobacteria</i> in agroecosystems across the globe. <i>Global Change Biology</i> , 2018, 24, 3452-3461.	9.5	436
132	Contrasting responses of gross and net nitrogen transformations to salinity in a reclaimed boreal forest soil. <i>Biology and Fertility of Soils</i> , 2018, 54, 385-395.	4.3	18
133	$\delta^{13}C$, $\delta^{15}N$, N concentration, C/N, and Ca/Al of <i>Pinus densiflora</i> foliage in Korean cities of different precipitation pH and atmospheric NO ₂ and SO ₂ levels. <i>Ecological Indicators</i> , 2018, 88, 27-36.	6.3	9
134	Decomposition of trembling aspen leaf litter under long-term nitrogen and sulfur deposition: Effects of litter chemistry and forest floor microbial properties. <i>Forest Ecology and Management</i> , 2018, 412, 53-61.	3.2	26
135	Eleven years of simulated deposition of nitrogen but not sulfur changed species composition and diversity in the herb stratum in a boreal forest in western Canada. <i>Forest Ecology and Management</i> , 2018, 412, 1-8.	3.2	15
136	Phosphorus sorption capacity of biochars varies with biochar type and salinity level. <i>Environmental Science and Pollution Research</i> , 2018, 25, 25799-25812.	5.3	35
137	Micronutrient concentrations vary between peat-mineral mix and substrates in revegetated sites in the Alberta oil sands. <i>Canadian Journal of Soil Science</i> , 2018, 98, 181-192.	1.2	3
138	Long-Term Grazing Accelerated Litter Decomposition in Northern Temperate Grasslands. <i>Ecosystems</i> , 2018, 21, 1321-1334.	3.4	21
139	Pine sawdust biochar reduces GHG emission by decreasing microbial and enzyme activities in forest and grassland soils in a laboratory experiment. <i>Science of the Total Environment</i> , 2018, 625, 1247-1256.	8.0	61
140	Grazing and climate effects on soil organic carbon concentration and particle-size association in northern grasslands. <i>Scientific Reports</i> , 2018, 8, 1336.	3.3	68
141	Soil autotrophic and heterotrophic respiration respond differently to land-use change and variations in environmental factors. <i>Agricultural and Forest Meteorology</i> , 2018, 250-251, 290-298.	4.8	41
142	Moso bamboo invasion into broadleaf forests is associated with greater abundance and activity of soil autotrophic bacteria. <i>Plant and Soil</i> , 2018, 428, 163-177.	3.7	25
143	Biochar reduces soil heterotrophic respiration in a subtropical plantation through increasing soil organic carbon recalcitrancy and decreasing carbon-degrading microbial activity. <i>Soil Biology and Biochemistry</i> , 2018, 122, 173-185.	8.8	149
144	Bamboo biochar amendment improves the growth and reproduction of <i>Eisenia fetida</i> and the quality of green waste vermicompost. <i>Ecotoxicology and Environmental Safety</i> , 2018, 156, 197-204.	6.0	70

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145	Conservation agriculture practices increase soil microbial biomass carbon and nitrogen in agricultural soils: A global meta-analysis. <i>Soil Biology and Biochemistry</i> , 2018, 121, 50-58.	8.8	121
146	Soil organic carbon stocks in three Canadian agroforestry systems: From surface organic to deeper mineral soils. <i>Forest Ecology and Management</i> , 2018, 417, 103-109.	3.2	36
147	Recoupling Industrial Dairy Feedlots and Industrial Farmlands Mitigates the Environmental Impacts of Milk Production in China. <i>Environmental Science & Technology</i> , 2018, 52, 3917-3925.	10.0	18
148	Simulated N and S deposition affected soil chemistry and understory plant communities in a boreal forest in western Canada. <i>Journal of Plant Ecology</i> , 2018, 11, 511-523.	2.3	16
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#	ARTICLE	IF	CITATIONS
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#	ARTICLE	IF	CITATIONS
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#	ARTICLE	IF	CITATIONS
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#	ARTICLE	IF	CITATIONS
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