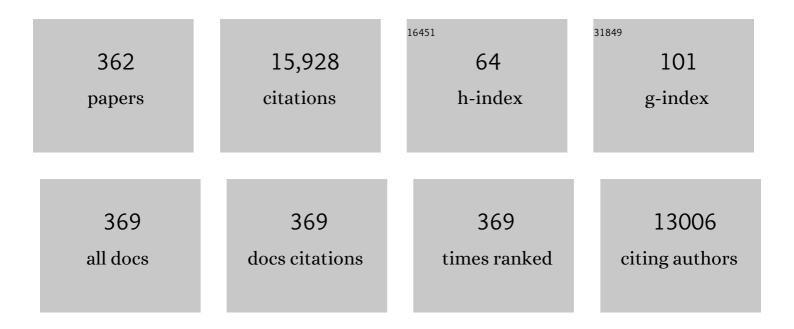
Scott X Chang

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Longâ€ŧerm nitrogen fertilization decreases bacterial diversity and favors the growth of <i>Actinobacteria</i> and <i>Proteobacteria</i> in agroâ€ecosystems across the globe. Global Change Biology, 2018, 24, 3452-3461.	9.5	436
2	Response of microbial communities to biochar-amended soils: a critical review. Biochar, 2019, 1, 3-22.	12.6	419
3	Technologies and perspectives for achieving carbon neutrality. Innovation(China), 2021, 2, 100180.	9.1	306
4	Nitrate in groundwater of China: Sources and driving forces. Global Environmental Change, 2013, 23, 1112-1121.	7.8	289
5	Biochar had effects on phosphorus sorption and desorption in three soils with differing acidity. Ecological Engineering, 2014, 62, 54-60.	3.6	287
6	Pyrolysis condition affected sulfamethazine sorption by tea waste biochars. Bioresource Technology, 2014, 166, 303-308.	9.6	279
7	Biochar composition-dependent impacts on soil nutrient release, carbon mineralization, and potential environmental risk: A review. Journal of Environmental Management, 2019, 241, 458-467.	7.8	249
8	SMART biochar technology—A shifting paradigm towards advanced materials and healthcare research. Environmental Technology and Innovation, 2015, 4, 206-209.	6.1	206
9	Determinants of bacterial communities in <scp>C</scp> anadian agroforestry systems. Environmental Microbiology, 2016, 18, 1805-1816.	3.8	202
10	Status assessment and probabilistic health risk modeling of metals accumulation in agriculture soils across China: A synthesis. Environment International, 2019, 128, 165-174.	10.0	201
11	Biochar properties and lead(II) adsorption capacity depend on feedstock type, pyrolysis temperature, and steam activation. Chemosphere, 2019, 231, 393-404.	8.2	195
12	Contrasting effects of wheat straw and its biochar on greenhouse gas emissions and enzyme activities in a Chernozemic soil. Biology and Fertility of Soils, 2013, 49, 555-565.	4.3	176
13	Long-term intensive management effects on soil organic carbon pools and chemical composition in Moso bamboo (Phyllostachys pubescens) forests in subtropical China. Forest Ecology and Management, 2013, 303, 121-130.	3.2	167
14	Elevated temperature shifts soil N cycling from microbial immobilization to enhanced mineralization, nitrification and denitrification across global terrestrial ecosystems. Global Change Biology, 2020, 26, 5267-5276.	9.5	166
15	Soil pH has contrasting effects on gross and net nitrogen mineralizations in adjacent forest and grassland soils in central Alberta, Canada. Soil Biology and Biochemistry, 2013, 57, 848-857.	8.8	162
16	Biochar addition affected the dynamics of ammonia oxidizers and nitrification in microcosms of a coastal alkaline soil. Biology and Fertility of Soils, 2014, 50, 321-332.	4.3	158
17	Effects of plant diversity on microbial biomass and community metabolic profiles in a full-scale constructed wetland. Ecological Engineering, 2010, 36, 62-68.	3.6	149
18	Biochar reduces soil heterotrophic respiration in a subtropical plantation through increasing soil organic carbon recalcitrancy and decreasing carbon-degrading microbial activity. Soil Biology and Biochemistry, 2018, 122, 173-185.	8.8	149

#	Article	IF	CITATIONS
19	Potential for mitigating global agricultural ammonia emission: A meta-analysis. Environmental Pollution, 2019, 245, 141-148.	7.5	148
20	Biochar increases soil microbial biomass with changes in extra- and intracellular enzyme activities: a global meta-analysis. Biochar, 2020, 2, 65-79.	12.6	146
21	Linking soil fungal community structure and function to soil organic carbon chemical composition in intensively managed subtropical bamboo forests. Soil Biology and Biochemistry, 2017, 107, 19-31.	8.8	139
22	Biochar surface complexation and Ni(II), Cu(II), and Cd(II) adsorption in aqueous solutions depend on feedstock type. Science of the Total Environment, 2020, 712, 136538.	8.0	137
23	Nondestructive and rapid estimation of hardwood foliar nitrogen status using the SPAD-502 chlorophyll meter. Forest Ecology and Management, 2003, 181, 331-338.	3.2	135
24	Substrate type, temperature, and moisture content affect gross and net N mineralization and nitrification rates in agroforestry systems. Biology and Fertility of Soils, 2004, 39, 269-279.	4.3	129
25	Nitrogen Footprint in China: Food, Energy, and Nonfood Goods. Environmental Science & Technology, 2013, 47, 9217-9224.	10.0	122
26	Wheat straw and its biochar have contrasting effects on inorganic N retention and N2O production in a cultivated Black Chernozem. Biology and Fertility of Soils, 2012, 48, 941-946.	4.3	121
27	Conservation agriculture practices increase soil microbial biomass carbon and nitrogen in agricultural soils: A global meta-analysis. Soil Biology and Biochemistry, 2018, 121, 50-58.	8.8	121
28	Stand structural diversity rather than species diversity enhances aboveground carbon storage in secondary subtropical forests in Eastern China. Biogeosciences, 2016, 13, 4627-4635.	3.3	119
29	Land cover change effects on soil chemical and biological properties after planting Mongolian pine (Pinus sylvestris var. mongolica) in sandy lands in Keerqin, northeastern China. Plant and Soil, 2009, 317, 121-133.	3.7	117
30	The quality and quantity of exogenous organic carbon input control microbial NO3â^' immobilization: A meta-analysis. Soil Biology and Biochemistry, 2017, 115, 357-363.	8.8	117
31	Adsorption of ammonium in aqueous solutions by pine sawdust and wheat straw biochars. Environmental Science and Pollution Research, 2018, 25, 25638-25647.	5.3	115
32	Soil extracellular enzyme stoichiometry reflects the shift from P- to N-limitation of microorganisms with grassland restoration. Soil Biology and Biochemistry, 2020, 149, 107928.	8.8	114
33	An integrated analysis on source-exposure risk of heavy metals in agricultural soils near intense electronic waste recycling activities. Environment International, 2019, 133, 105239.	10.0	111
34	Land use change effects on ecosystem carbon balance: From agricultural to hybrid poplar plantation. Agriculture, Ecosystems and Environment, 2011, 141, 342-349.	5.3	108
35	Patterns and drivers of global gross nitrogen mineralization in soils. Global Change Biology, 2021, 27, 5950-5962.	9.5	106
36	Biochar increases soil microbial biomass but has variable effects on microbial diversity: A meta-analysis. Science of the Total Environment, 2020, 749, 141593.	8.0	105

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37	Agricultural ammonia emissions contribute to China's urban air pollution. Frontiers in Ecology and the Environment, 2014, 12, 265-266.	4.0	103
38	Flexible and Self-Healing Aqueous Supercapacitors for Low Temperature Applications: Polyampholyte Gel Electrolytes with Biochar Electrodes. Scientific Reports, 2017, 7, 1685.	3.3	102
39	Spatial vegetation patterns as early signs of desertification: a case study of a desert steppe in Inner Mongolia, China. Landscape Ecology, 2010, 25, 1519-1527.	4.2	100
40	Soil texture and layering effects on water and salt dynamics in the presence of a water table: a review. Environmental Reviews, 2014, 22, 41-50.	4.5	100
41	Negative effects of multiple global change factors on soil microbial diversity. Soil Biology and Biochemistry, 2021, 156, 108229.	8.8	97
42	Liming effects on soil pH and crop yield depend on lime material type, application method and rate, and crop species: a global meta-analysis. Journal of Soils and Sediments, 2019, 19, 1393-1406.	3.0	96
43	Soil compaction and forest floor removal reduced microbial biomass and enzyme activities in a boreal aspen forest soil. Biology and Fertility of Soils, 2008, 44, 471-479.	4.3	95
44	Community-weighted mean of leaf traits and divergence of wood traits predict aboveground biomass in secondary subtropical forests. Science of the Total Environment, 2017, 574, 654-662.	8.0	94
45	Global gross nitrification rates are dominantly driven by soil carbonâ€toâ€nitrogen stoichiometry and total nitrogen. Global Change Biology, 2021, 27, 6512-6524.	9.5	94
46	Effects of soil compaction and forest floor removal on soil microbial properties and N transformations in a boreal forest long-term soil productivity study. Forest Ecology and Management, 2005, 217, 158-170.	3.2	92
47	Effects of plant diversity on nutrient retention and enzyme activities in a full-scale constructed wetland. Bioresource Technology, 2010, 101, 1686-1692.	9.6	92
48	Irrigation and fertilization effects on foliar and soil carbon and nitrogen isotope ratios in a loblolly pine stand. Forest Ecology and Management, 2005, 213, 90-101.	3.2	90
49	Grazing intensity affected spatial patterns of vegetation and soil fertility in a desert steppe. Agriculture, Ecosystems and Environment, 2010, 138, 282-292.	5.3	90
50	Synthetic fertilizer and livestock manure differently affect δ15N in the agricultural landscape: A review. Agriculture, Ecosystems and Environment, 2017, 237, 1-15.	5.3	90
51	Ecosystem carbon stocks and distribution under different land-uses in north central Alberta, Canada. Forest Ecology and Management, 2009, 257, 1776-1785.	3.2	88
52	Nitrogen deposition affects both net and gross soil nitrogen transformations in forest ecosystems: A review. Environmental Pollution, 2019, 244, 608-616.	7.5	88
53	Pyrolysis temperature and steam activation effects on sorption of phosphate on pine sawdust biochars in aqueous solutions. Chemical Speciation and Bioavailability, 2016, 28, 42-50.	2.0	83
54	Fuel, thermal and surface properties of microwave-pyrolyzed biochars depend on feedstock type and pyrolysis temperature. Bioresource Technology, 2021, 320, 124282.	9.6	83

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55	Nitrogen mineralization, N 2 O production and soil microbiological properties as affected by long-term applications of sewage sludge composts. Biology and Fertility of Soils, 2004, 40, 101-109.	4.3	79
56	Methane emissions from the trunks of living trees on upland soils. New Phytologist, 2016, 211, 429-439.	7.3	78
57	Effects of understory removal, N fertilization, and litter layer removal on soil N cycling in a 13-year-old white spruce plantation infested with Canada bluejoint grass. Plant and Soil, 2007, 292, 243-258.	3.7	76
58	Biochar decreases soil N2O emissions in Moso bamboo plantations through decreasing labile N concentrations, N-cycling enzyme activities and nitrification/denitrification rates. Geoderma, 2019, 348, 135-145.	5.1	76
59	Biochar heavy metal removal in aqueous solution depends on feedstock type and pyrolysis purging gas. Environmental Pollution, 2021, 281, 117094.	7.5	76
60	Effects of tree harvesting, forest floor removal, and compaction on soil microbial biomass, microbial respiration, and N availability in a boreal aspen forest in British Columbia. Soil Biology and Biochemistry, 2006, 38, 1734-1744.	8.8	75
61	Nitrogen depositions increase soil respiration and decrease temperature sensitivity in a Moso bamboo forest. Agricultural and Forest Meteorology, 2019, 268, 48-54.	4.8	73
62	Bamboo biochar amendment improves the growth and reproduction of Eisenia fetida and the quality of green waste vermicompost. Ecotoxicology and Environmental Safety, 2018, 156, 197-204.	6.0	70
63	Biochar affects the fate of phosphorus in soil and water: A critical review. Chemosphere, 2021, 283, 131176.	8.2	69
64	Grazing and climate effects on soil organic carbon concentration and particle-size association in northern grasslands. Scientific Reports, 2018, 8, 1336.	3.3	68
65	Nitrogen use efficiencies in Chinese agricultural systems and implications for food security and environmental protection. Regional Environmental Change, 2017, 17, 1217-1227.	2.9	67
66	Contrasting effects of bamboo leaf and its biochar on soil CO2 efflux and labile organic carbon in an intensively managed Chinese chestnut plantation. Biology and Fertility of Soils, 2014, 50, 1109-1119.	4.3	66
67	Organic mulch and fertilization affect soil carbon pools and forms under intensively managed bamboo (Phyllostachys praecox) forests in southeast China. Journal of Soils and Sediments, 2010, 10, 739-747.	3.0	65
68	Nickel in soil and water: Sources, biogeochemistry, and remediation using biochar. Journal of Hazardous Materials, 2021, 419, 126421.	12.4	65
69	A global strategy to mitigate the environmental impact of China's ruminant consumption boom. Nature Communications, 2018, 9, 4133.	12.8	64
70	Residue retention promotes soil carbon accumulation in minimum tillage systems: Implications for conservation agriculture. Science of the Total Environment, 2020, 740, 140147.	8.0	64
71	Carboxyl and hydroxyl groups enhance ammonium adsorption capacity of iron (III) chloride and hydrochloric acid modified biochars. Bioresource Technology, 2020, 309, 123390.	9.6	64
72	Liming does not counteract the influence of long-term fertilization on soil bacterial community structure and its co-occurrence pattern. Soil Biology and Biochemistry, 2018, 123, 45-53.	8.8	63

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73	Dissolved soil organic carbon and nitrogen were affected by conversion of native forests to plantations in subtropical China. Canadian Journal of Soil Science, 2010, 90, 27-36.	1.2	62
74	Pine sawdust biochar reduces CHG emission by decreasing microbial and enzyme activities in forest and grassland soils in a laboratory experiment. Science of the Total Environment, 2018, 625, 1247-1256.	8.0	61
75	Mechanistic insights into the (im)mobilization of arsenic, cadmium, lead, and zinc in a multi-contaminated soil treated with different biochars. Environment International, 2021, 156, 106638.	10.0	61
76	Understory vegetation management affected greenhouse gas emissions and labile organic carbon pools in an intensively managed Chinese chestnut plantation. Plant and Soil, 2014, 376, 363-375.	3.7	60
77	Greenhouse gas emissions from excreta patches of grazing animals and their mitigation strategies. Earth-Science Reviews, 2017, 171, 44-57.	9.1	58
78	Lead(II) adsorption on microwave-pyrolyzed biochars and hydrochars depends on feedstock type and production temperature. Journal of Hazardous Materials, 2021, 412, 125255.	12.4	58
79	Converting native shrub forests to Chinese chestnut plantations and subsequent intensive management affected soil C and N pools. Forest Ecology and Management, 2014, 312, 161-169.	3.2	57
80	Trees increase soil carbon and its stability in three agroforestry systems in central Alberta, Canada. Forest Ecology and Management, 2014, 328, 131-139.	3.2	56
81	Root rather than leaf litter input drives soil carbon sequestration after afforestation on a marginal cropland. Forest Ecology and Management, 2016, 362, 38-45.	3.2	56
82	Land-use type and temperature affect gross nitrogen transformation rates in Chinese and Canadian soils. Plant and Soil, 2010, 334, 377-389.	3.7	55
83	Sulfate adsorption properties of acid-sensitive soils in the Athabasca oil sands region in Alberta, Canada. Chemosphere, 2011, 84, 457-463.	8.2	55
84	Biochar application increased methane emission, soil carbon storage and net ecosystem carbon budget in a 2-year vegetable–rice rotation. Agriculture, Ecosystems and Environment, 2020, 292, 106831.	5.3	55
85	Variations of δ13C AND δ15N in Pinus Densiflora Tree-Rings and their Relationship to Environmental Changes in Eastern Korea. Water, Air, and Soil Pollution, 2005, 164, 173-187.	2.4	54
86	Soil compaction and forest litter amendment affect carbon and net nitrogen mineralization in a boreal forest soil. Soil and Tillage Research, 2007, 93, 77-86.	5.6	54
87	Bamboo invasion of broadleaf forests altered soil fungal community closely linked to changes in soil organic C chemical composition and mineral N production. Plant and Soil, 2017, 418, 507-521.	3.7	54
88	Converting natural evergreen broadleaf forests to intensively managed moso bamboo plantations affects the pool size and stability of soil organic carbon and enzyme activities. Biology and Fertility of Soils, 2018, 54, 467-480.	4.3	54
89	Soil microbial biomass and microbial and mineralizable N in a clear-cut chronosequence on northern Vancouver Island, British Columbia. Canadian Journal of Forest Research, 1995, 25, 1595-1607.	1.7	53
90	Water-deficit and high temperature affected water use efficiency and arabinoxylan concentration in spring wheat. Journal of Cereal Science, 2010, 52, 263-269.	3.7	53

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91	Plant community development following reclamation of oil sands mine sites in the boreal forest: a review. Environmental Reviews, 2018, 26, 286-298.	4.5	53
92	Additive negative effects of decadal warming and nitrogen addition on grassland community stability. Journal of Ecology, 2020, 108, 1442-1452.	4.0	53
93	Carbon accumulation in agroforestry systems is affected by tree species diversity, age and regional climate: A global metaâ€analysis. Global Ecology and Biogeography, 2020, 29, 1817-1828.	5.8	52
94	Carbonization temperature and feedstock type interactively affect chemical, fuel, and surface properties of hydrochars. Bioresource Technology, 2021, 330, 124976.	9.6	52
95	Carbon mineralization of tree leaf litter and crop residues from poplar-based agroforestry systems in Northeast China: A laboratory study. Applied Soil Ecology, 2010, 44, 133-137.	4.3	51
96	Effects of land use type and incubation temperature on greenhouse gas emissions from Chinese and Canadian soils. Journal of Soils and Sediments, 2011, 11, 15-24.	3.0	51
97	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. Science of the Total Environment, 2020, 747, 141340.	8.0	51
98	Soil organic and inorganic carbon contents under various land uses across a transect of continental steppes in Inner Mongolia. Catena, 2013, 109, 110-117.	5.0	50
99	Minimum tillage and residue retention increase soil microbial population size and diversity: Implications for conservation tillage. Science of the Total Environment, 2020, 716, 137164.	8.0	50
100	DRAINAGE AFFECTS TREE GROWTH AND C AND N DYNAMICS IN A MINEROTROPHIC PEATLAND. Ecology, 2007, 88, 443-453.	3.2	49
101	Forest and grassland cover types reduce net greenhouse gas emissions from agricultural soils. Science of the Total Environment, 2016, 571, 1115-1127.	8.0	49
102	Soil respiration in four different land use systems in north central Alberta, Canada. Journal of Geophysical Research, 2010, 115, .	3.3	48
103	Widespread non-microbial methane production by organic compounds and the impact of environmental stresses. Earth-Science Reviews, 2013, 127, 193-202.	9.1	48
104	Wheat straw and its biochar had contrasting effects on soil C and N cycling two growing seasons after addition to a Black Chernozemic soil planted to barley. Biology and Fertility of Soils, 2014, 50, 1291-1299.	4.3	48
105	Carbon pool size and stability are affected by trees and grassland cover types within agroforestry systems of western Canada. Agriculture, Ecosystems and Environment, 2015, 213, 105-113.	5.3	48
106	Recovery of fertilizer-derived inorganic-15N in a vegetable field soil as affected by application of an organic amendment. Plant and Soil, 2004, 263, 191-201.	3.7	47
107	Organic Soils of canada: Part 1. Wetland Organic soils. Canadian Journal of Soil Science, 2011, 91, 807-822.	1.2	47
108	Coexistence of polyethylene microplastics and biochar increases ammonium sorption in an aqueous solution. Journal of Hazardous Materials, 2021, 405, 124260.	12.4	47

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109	Grain 15N of crops applied with organic and chemical fertilizers in a four-year rotation. Plant and Soil, 2006, 284, 165-174.	3.7	45
110	Site history affects soil and plant 15 N natural abundances (δ 15 N) in forests of northern Vancouver Island, British Columbia. Functional Ecology, 2000, 14, 273-280.	3.6	44
111	Soil and Crop Response to Wood Ash and Lime Application in Acidic Soils. Agronomy Journal, 2012, 104, 715-721.	1.8	44
112	Nitrogen deposition differentially affects soil gross nitrogen transformations in organic and mineral horizons. Earth-Science Reviews, 2020, 201, 103033.	9.1	44
113	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. Science of the Total Environment, 2021, 801, 149717.	8.0	44
114	Pristine and engineered biochar for the removal of contaminants co-existing in several types of industrial wastewaters: A critical review. Science of the Total Environment, 2022, 809, 151120.	8.0	44
115	Mineralization Potential and Temperature Sensitivity of Soil Organic Carbon under Different Land Uses in the Parkland Region of Alberta, Canada. Soil Science Society of America Journal, 2012, 76, 241-251.	2.2	43
116	Converting paddy fields to Lei bamboo (Phyllostachys praecox) stands affected soil nutrient concentrations, labile organic carbon pools, and organic carbon chemical compositions. Plant and Soil, 2013, 367, 249-261.	3.7	43
117	Plant species richness enhances nitrous oxide emissions in microcosms of constructed wetlands. Ecological Engineering, 2014, 64, 108-115.	3.6	43
118	A global synthesis of the effect of water and nitrogen input on maize (Zea mays) yield, water productivity and nitrogen use efficiency. Agricultural and Forest Meteorology, 2019, 268, 136-145.	4.8	43
119	Long-term intensive management increased carbon occluded in phytolith (PhytOC) in bamboo forest soils. Scientific Reports, 2014, 4, 3602.	3.3	43
120	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
121	Sensitivity to Acidification of Forest Soils in Two Watersheds with Contrasting Hydrological Regimes in the Oil Sands Region of Alberta. Pedosphere, 2007, 17, 747-757.	4.0	41
122	Soil autotrophic and heterotrophic respiration respond differently to land-use change and variations in environmental factors. Agricultural and Forest Meteorology, 2018, 250-251, 290-298.	4.8	41
123	Temperature sensitivity of soil carbon and nitrogen mineralization: impacts of nitrogen species and land use type. Plant and Soil, 2013, 372, 597-608.	3.7	40
124	Long-term grazing impacts on vegetation diversity, composition, and exotic species presence across an aridity gradient in northern temperate grasslands. Plant Ecology, 2018, 219, 649-663.	1.6	40
125	Positive effects of plant diversity on nitrogen removal in microcosms of constructed wetlands with high ammonium loading. Ecological Engineering, 2015, 82, 614-623.	3.6	39
126	Carbon isotope composition of Phragmites australis in a constructed saline wetland. Aquatic Botany, 2005, 82, 27-38.	1.6	38

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127	Biochar and its manure-based feedstock have divergent effects on soil organic carbon and greenhouse gas emissions in croplands. Science of the Total Environment, 2022, 806, 151337.	8.0	38
128	Effects of monocot and dicot types and species richness in mesocosm constructed wetlands on removal of pollutants from wastewater. Bioresource Technology, 2011, 102, 10260-10265.	9.6	37
129	The effects of plant diversity on nitrous oxide emissions in hydroponic microcosms. Atmospheric Environment, 2013, 77, 544-547.	4.1	37
130	Soil organic carbon stocks in three Canadian agroforestry systems: From surface organic to deeper mineral soils. Forest Ecology and Management, 2018, 417, 103-109.	3.2	36
131	Changes in nitrogen isotopic compositions during composting of cattle feedlot manure: Effects of bedding material type. Bioresource Technology, 2008, 99, 5452-5458.	9.6	35
132	Effects of plant diversity and sand particle size on methane emission and nitrogen removal in microcosms of constructed wetlands. Ecological Engineering, 2016, 95, 390-398.	3.6	35
133	Phosphorus sorption capacity of biochars varies with biochar type and salinity level. Environmental Science and Pollution Research, 2018, 25, 25799-25812.	5.3	35
134	Biochar decreases methanogenic archaea abundance and methane emissions in a flooded paddy soil. Science of the Total Environment, 2021, 752, 141958.	8.0	35
135	Biochar Surface Functionality Plays a Vital Role in (Im)Mobilization and Phytoavailability of Soil Vanadium. ACS Sustainable Chemistry and Engineering, 2021, 9, 6864-6874.	6.7	35
136	Soil retention, tree uptake, and tree resorption of 15NH4NO3 and NH415NO3 applied to trembling and hybrid aspens at planting. Canadian Journal of Forest Research, 2005, 35, 823-831.	1.7	34
137	Temporal changes in soil carbon and nitrogen storage in a hybrid poplar chronosequence in northern Alberta. Geoderma, 2008, 144, 613-619.	5.1	34
138	Soil microbial community composition rather than litter quality is linked with soil organic carbon chemical composition in plantations in subtropical China. Journal of Soils and Sediments, 2015, 15, 1094-1103.	3.0	34
139	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
140	Phosphorus fractions and profile distribution in newly formed wetland soils along a salinity gradient in the Yellow River Delta in China. Journal of Plant Nutrition and Soil Science, 2012, 175, 721-728.	1.9	33
141	Plant diversity decreases net global warming potential integrating multiple functions in microcosms of constructed wetlands. Journal of Cleaner Production, 2018, 184, 718-726.	9.3	33
142	Drought differentially affects autotrophic and heterotrophic soil respiration rates and their temperature sensitivity. Biology and Fertility of Soils, 2019, 55, 275-283.	4.3	33
143	Linking enhanced soil nitrogen mineralization to increased fungal decomposition capacity with Moso bamboo invasion of broadleaf forests. Science of the Total Environment, 2021, 771, 144779.	8.0	33
144	Vector analysis of understory competition, N fertilization, and litter layer removal effects on white spruce growth and nutrition in a 13-year-old plantation. Forest Ecology and Management, 2006, 236, 332-341.	3.2	32

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145	NO3â^'/NH4+ ratios affect the growth and N removal ability of Acorus calamus and Iris pseudacorus in a hydroponic system. Aquatic Botany, 2010, 93, 216-220.	1.6	32
146	Gross N transformations were little affected by 4years of simulated N and S depositions in an aspen-white spruce dominated boreal forest in Alberta, Canada. Forest Ecology and Management, 2011, 262, 571-578.	3.2	32
147	Gene discovery in cereals through quantitative trait loci and expression analysis in waterâ€use efficiency measured by carbon isotope discrimination. Plant, Cell and Environment, 2011, 34, 2009-2023.	5.7	32
148	Understorey competition affects tree growth and fate of fertilizer-applied 15N in a Coastal British Columbia plantation forest: 6-year results. Canadian Journal of Forest Research, 2000, 30, 1379-1388.	1.7	31
149	Different effects of warming and cooling on the decomposition of soil organic matter in warm–temperate oak forests: a reciprocal translocation experiment. Biogeochemistry, 2014, 121, 551-564.	3.5	30
150	Grazing, regional climate and soil biophysical impacts on microbial enzyme activity in grassland soil of western Canada. Pedobiologia, 2015, 58, 201-209.	1.2	30
151	Carbon storage, net primary production, and net ecosystem production in four major temperate forest types in northeastern China. Canadian Journal of Forest Research, 2016, 46, 143-151.	1.7	30
152	Wheat straw and its biochar differently affect soil properties and field-based greenhouse gas emission in a Chernozemic soil. Biology and Fertility of Soils, 2020, 56, 1023-1036.	4.3	30
153	Organic amendment enhanced microbial nitrate immobilization with negligible denitrification nitrogen loss in an upland soil. Environmental Pollution, 2021, 288, 117721.	7.5	30
154	Interactive effects of N fertilizer source and timing of fertilization leave specific N isotopic signatures in Chinese cabbage and soil. Soil Biology and Biochemistry, 2006, 38, 1682-1689.	8.8	29
155	White spruce foliar δ13C and δ15N indicate changed soil N availability by understory removal and N fertilization in a 13-year-old boreal plantation. Plant and Soil, 2012, 361, 375-384.	3.7	29
156	Contrasting decomposition rates and nutrient release patterns in mixed vs singular species litter in agroforestry systems. Journal of Soils and Sediments, 2014, 14, 1071-1081.	3.0	29
157	Textural interfaces affected the distribution of roots, water, and nutrients in some reconstructed forest soils in the Athabasca oil sands region. Ecological Engineering, 2014, 64, 240-249.	3.6	29
158	Understory management and fertilization affected soil greenhouse gas emissions and labile organic carbon pools in a Chinese chestnut plantation. Forest Ecology and Management, 2015, 337, 126-134.	3.2	29
159	Plant species diversity impacts nitrogen removal and nitrous oxide emissions as much as carbon addition in constructed wetland microcosms. Ecological Engineering, 2016, 93, 144-151.	3.6	29
160	Soil moisture effects on gross nitrification differ between adjacent grassland and forested soils in central Alberta, Canada. Plant and Soil, 2012, 352, 289-301.	3.7	28
161	Responses of seasonal and diurnal soil CO2 effluxes to land-use change from paddy fields to Lei bamboo (Phyllostachys praecox) stands. Atmospheric Environment, 2013, 77, 856-864.	4.1	28
162	Plant Trait-Species Abundance Relationships Vary with Environmental Properties in Subtropical Forests in Eastern China. PLoS ONE, 2013, 8, e61113.	2.5	28

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163	Manure pellet, woodchip and their biochars differently affect wheat yield and carbon dioxide emission from bulk and rhizosphere soils. Science of the Total Environment, 2019, 659, 463-472.	8.0	28
164	Soil gross nitrogen transformations are related to land-uses in two agroforestry systems. Ecological Engineering, 2019, 127, 431-439.	3.6	28
165	Title is missing!. Agroforestry Systems, 2002, 54, 149-160.	2.0	27
166	Soil respiration and its temperature sensitivity in agricultural and afforested poplar plantation systems in northern Alberta. Biology and Fertility of Soils, 2016, 52, 629-641.	4.3	27
167	Mycorrhizal inoculation and nitrogen fertilization affect the physiology and growth of spring wheat under two contrasting water regimes. Plant and Soil, 2016, 398, 47-57.	3.7	27
168	Four years of simulated N and S depositions did not cause N saturation in a mixedwood boreal forest ecosystem in the oil sands region in northern Alberta, Canada. Forest Ecology and Management, 2012, 280, 62-70.	3.2	26
169	Decomposition of trembling aspen leaf litter under long-term nitrogen and sulfur deposition: Effects of litter chemistry and forest floor microbial properties. Forest Ecology and Management, 2018, 412, 53-61.	3.2	26
170	Modified and pristine biochars for remediation of chromium contamination in soil and aquatic systems. Chemosphere, 2022, 303, 134942.	8.2	26
171	Nitrogen and carbon isotope responses of Chinese cabbage and chrysanthemum to the application of liquid pig manure. Plant and Soil, 2007, 295, 67-77.	3.7	25
172	Quantitative trait loci for water-use efficiency in barley (Hordeum vulgare L.) measured by carbon isotope discrimination under rain-fed conditions on the Canadian Prairies. Theoretical and Applied Genetics, 2012, 125, 71-90.	3.6	25
173	Scaling relationships among twig size, leaf size and leafing intensity in a successional series of subtropical forests. Tree Physiology, 2013, 33, 609-617.	3.1	25
174	Trait variability differs between leaf and wood tissues across ecological scales in subtropical forests. Journal of Vegetation Science, 2014, 25, 703-714.	2.2	25
175	Limiting factors for lodgepole pine (Pinus contorta) and white spruce (Picea glauca) growth differ in some reconstructed sites in the Athabasca oil sands region. Ecological Engineering, 2015, 75, 323-331.	3.6	25
176	The potential of agroforestry to reduce atmospheric greenhouse gases in Canada: Insight from pairwise comparisons with traditional agriculture, data gaps and future research. Forestry Chronicle, 2017, 93, 180-189.	0.6	25
177	Moso bamboo invasion into broadleaf forests is associated with greater abundance and activity of soil autotrophic bacteria. Plant and Soil, 2018, 428, 163-177.	3.7	25
178	Biochar effectively remediates Cd contamination in acidic or coarse- and medium-textured soils: A global meta-analysis. Chemical Engineering Journal, 2022, 442, 136225.	12.7	25
179	Relating Tree Ring Chemistry of Pinus densiflora to Precipitation Acidity in an Industrial Area of South Korea. Water, Air, and Soil Pollution, 2009, 199, 95-106.	2.4	24
180	Soil Quality Assessment for Peat-Mineral Mix Cover Soil Used in Oil Sands Reclamation. Journal of Environmental Quality, 2014, 43, 1566-1575.	2.0	24

#	Article	IF	CITATIONS
181	Sorption of copper(II) from synthetic oil sands process-affected water (OSPW) by pine sawdust biochars: effects of pyrolysis temperature and steam activation. Journal of Soils and Sediments, 2016, 16, 2081-2089.	3.0	24
182	Coarse Woody Debris Increases Microbial Community Functional Diversity but not Enzyme Activities in Reclaimed Oil Sands Soils. PLoS ONE, 2015, 10, e0143857.	2.5	24
183	Seedling sweetgum (Liquidambar styraciflua L.) half-sib family response to N and P fertilization: growth, leaf area, net photosynthesis and nutrient uptake. Forest Ecology and Management, 2003, 173, 281-291.	3.2	23
184	Sample storage-induced changes in the quantity and quality of soil labile organic carbon. Scientific Reports, 2015, 5, 17496.	3.3	23
185	Exponential fertilization promotes seedling growth by increasing nitrogen retranslocation in trembling aspen planted for oil sands reclamation. Forest Ecology and Management, 2016, 372, 35-43.	3.2	23
186	Enrichment Planting and Soil Amendments Enhance Carbon Sequestration and Reduce Greenhouse Gas Emissions in Agroforestry Systems: A Review. Forests, 2018, 9, 369.	2.1	23
187	Defoliation intensity and elevated precipitation effects on microbiome and interactome depend on site type in northern mixed-grass prairie. Soil Biology and Biochemistry, 2018, 122, 163-172.	8.8	23
188	Extracellular enzyme activity in grass litter varies with grazing history, environment and plant species in temperate grasslands. Science of the Total Environment, 2020, 702, 134562.	8.0	23
189	Contrasting effects of different <scp>pH</scp> â€raising materials on <scp>N₂O</scp> emissions in acidic upland soils. European Journal of Soil Science, 2021, 72, 432-445.	3.9	23
190	Longâ€ŧerm nitrogen addition does not sustain host tree stem radial growth but doubles the abundance of highâ€biomass ectomycorrhizal fungi. Global Change Biology, 2021, 27, 4125-4138.	9.5	23
191	Soil and groundwater characteristics of saline sites supporting boreal mixedwood forests in northern Alberta. Canadian Journal of Soil Science, 2010, 90, 1-14.	1.2	22
192	Plant functional group richness-affected microbial community structure and function in a full-scale constructed wetland. Ecological Engineering, 2011, 37, 1360-1368.	3.6	22
193	Similar quality and quantity of dissolved organic carbon under different land use systems in two Canadian and Chinese soils. Journal of Soils and Sediments, 2013, 13, 34-42.	3.0	22
194	Tree architecture varies with forest succession in evergreen broad-leaved forests in Eastern China. Trees - Structure and Function, 2015, 29, 43-57.	1.9	22
195	Watering increased DOC concentration but decreased N2O emission from a mixed grassland soil under different defoliation regimes. Biology and Fertility of Soils, 2016, 52, 987-996.	4.3	22
196	Biochar decreases the efficacy of the nitrification inhibitor nitrapyrin in mitigating nitrous oxide emissions at different soil moisture levels. Journal of Environmental Management, 2021, 295, 113080.	7.8	22
197	Plant and soil elemental C:N:P ratios are linked to soil microbial diversity during grassland restoration on the Loess Plateau, China. Science of the Total Environment, 2022, 806, 150557.	8.0	22
198	Soil N transformation rates are not linked to fertilizer N losses in vegetable soils with high N input. Soil and Tillage Research, 2020, 202, 104651.	5.6	22

#	Article	IF	CITATIONS
199	Nitrogen transformations and ammonia volatilization losses from ¹⁵ N-urea as affected by the co-application of composted pig manure. Canadian Journal of Soil Science, 2007, 87, 485-493.	1.2	21
200	Soil and plant nitrogen pools in paddy and upland ecosystems have contrasting δ15N. Biology and Fertility of Soils, 2015, 51, 231-239.	4.3	21
201	Temperature and air pollution affected tree ring $\hat{l}'13C$ and water-use efficiency of pine and oak trees under rising CO2 in a humid temperate forest. Chemical Geology, 2016, 420, 127-138.	3.3	21
202	Sampling Method and Tree-Age Affect Soil Organic C and N Contents in Larch Plantations. Forests, 2017, 8, 28.	2.1	21
203	Long-Term Grazing Accelerated Litter Decomposition in Northern Temperate Grasslands. Ecosystems, 2018, 21, 1321-1334.	3.4	21
204	Nitrogen fertilization improves the growth of lodgepole pine and white spruce seedlings under low salt stress through enhancing photosynthesis and plant nutrition. Forest Ecology and Management, 2017, 404, 197-204.	3.2	21
205	Nitrogen and Water Availabilities and Competitiveness of Bluejoint: Spruce Growth and Foliar Carbonâ€13 and Nitrogenâ€15 Abundance. Soil Science Society of America Journal, 2007, 71, 1547-1554.	2.2	20
206	Adaptive multi-paddock grazing improves water infiltration in Canadian grassland soils. Geoderma, 2021, 401, 115314.	5.1	20
207	Title is missing!. Agroforestry Systems, 2002, 54, 137-147.	2.0	19
208	Temperature and substrate effects on C & N mineralization and microbial community function of soils from a hybrid poplar chronosequence. Applied Soil Ecology, 2010, 46, 413-421.	4.3	19
209	NITRATE/AMMONIUM RATIOS AFFECT RYEGRASS GROWTH AND NITROGEN ACCUMULATION IN A HYDROPONIC SYSTEM. Journal of Plant Nutrition, 2010, 34, 206-216.	1.9	19
210	Dynamics of soil and root C stocks following afforestation of croplands with poplars in a semi-arid region in northeast China. Plant and Soil, 2013, 368, 619-627.	3.7	19
211	Regulating Environmental Factors of Nutrients Release from Wheat Straw Biochar for Sustainable Agriculture. Clean - Soil, Air, Water, 2013, 41, 697-701.	1.1	19
212	Nitrogen fertilization and tillage reversal affected water-extractable organic carbon and nitrogen differentially in a Black Chernozem and a Gray Luvisol. Soil and Tillage Research, 2015, 146, 253-260.	5.6	19
213	Effects of Inorganic and Organic Fertilizers on Soil CO ₂ Efflux and Labile Organic Carbon Pools in an Intensively Managed Moso Bamboo (<i>Phyllostachys pubescens</i>) Plantation in Subtropical China. Communications in Soil Science and Plant Analysis, 2017, 48, 332-344.	1.4	19
214	Topography-soil relationships in a hilly evergreen broadleaf forest in subtropical China. Journal of Soils and Sediments, 2017, 17, 1101-1115.	3.0	19
215	Interactive effects of global change factors on terrestrial net primary productivity are treatment length and intensity dependent. Journal of Ecology, 2020, 108, 2083-2094.	4.0	19
216	Silicon fertilizer and biochar effects on plant and soil PhytOC concentration and soil PhytOC stability and fractionation in subtropical bamboo plantations. Science of the Total Environment, 2020, 715, 136846.	8.0	19

#	Article	IF	CITATIONS
217	Plant mixture effects on carbon-degrading enzymes promote soil organic carbon accumulation. Soil Biology and Biochemistry, 2021, 163, 108457.	8.8	19
218	The Physiology and Stability of Leaf Carbon Isotope Discrimination as a Measure of Water-Use Efficiency in Barley on the Canadian Prairies. Journal of Agronomy and Crop Science, 2011, 197, 1-11.	3.5	18
219	Growth and nitrogen uptake of jack pine seedlings in response to exponential fertilization and weed control in reclaimed soil. Biology and Fertility of Soils, 2017, 53, 701-713.	4.3	18
220	Contrasting responses of gross and net nitrogen transformations to salinity in a reclaimed boreal forest soil. Biology and Fertility of Soils, 2018, 54, 385-395.	4.3	18
221	Recoupling Industrial Dairy Feedlots and Industrial Farmlands Mitigates the Environmental Impacts of Milk Production in China. Environmental Science & Technology, 2018, 52, 3917-3925.	10.0	18
222	Alkyl polyglycoside and earthworm (Eisenia fetida) enhance biodegradation of green waste and its use for growing vegetables. Ecotoxicology and Environmental Safety, 2019, 167, 459-466.	6.0	18
223	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
224	Manure-based biochar decreases heterotrophic respiration and increases gross nitrification rates in rhizosphere soil. Soil Biology and Biochemistry, 2021, 154, 108147.	8.8	18
225	Malachite green removal using algal biochar and its composites with kombucha SCOBY: An integrated biosorption and phycoremediation approach. Surfaces and Interfaces, 2022, 30, 101880.	3.0	18
226	Mulched drip irrigation and biochar application reduce gaseous nitrogen emissions, but increase nitrogen uptake and peanut yield. Science of the Total Environment, 2022, 830, 154753.	8.0	18
227	Biomass and morphology of Pinus radiata coarse root components in a sub-humid temperate silvopastoral system. Forest Ecology and Management, 2003, 177, 387-397.	3.2	17
228	Nitrogen dynamics in co-composted drilling wastes: Effects of compost quality and N fertilization. Soil Biology and Biochemistry, 2005, 37, 2297-2305.	8.8	17
229	Landâ€use conversion effects on CO ₂ emissions: from agricultural to hybrid poplar plantation. Ecological Research, 2008, 23, 623-633.	1.5	17
230	Potential use of δ 13C, δ 15N, N concentration, and Ca/Al of Pinus densiflora tree rings in estimating historical precipitation pH. Journal of Soils and Sediments, 2011, 11, 709-721.	3.0	17
231	Nitrogen- and sulfur-deposition-altered soil microbial community functions and enzyme activities in a boreal mixedwood forest in western Canada. Canadian Journal of Forest Research, 2013, 43, 777-784.	1.7	17
232	Commercial versus synthesized polymers for soil erosion control and growth of Chinese cabbage. SpringerPlus, 2013, 2, 534.	1.2	17
233	Effects of silicon on the uptake and accumulation of arsenite and dimethylarsinic acid in rice (Oryza) Tj ETQq1 1	0.784314 12.4	rgBT /Over
994	Long-term nitrogen and sulfur deposition increased root-associated pathogen diversity and changed	00	17

²³⁴ Long-term nitrogen and sulfur deposition increased root-associated pathogen diversity and changed mutualistic fungal diversity in a boreal forest. Soil Biology and Biochemistry, 2021, 155, 108163.

8.8 17

#	Article	IF	CITATIONS
235	Concurrent and rapid recovery of bacteria and protist communities in Canadian boreal forest ecosystems following wildfire. Soil Biology and Biochemistry, 2021, 163, 108452.	8.8	17
236	Higher ammonium-to-nitrate ratio shapes distinct soil nitrifying community and favors the growth of Moso bamboo in contrast to broadleaf tree species. Biology and Fertility of Soils, 2021, 57, 1171-1182.	4.3	17
237	Feedstock type drives surface property, demineralization and element leaching of nitric acid-activated biochars more than pyrolysis temperature. Bioresource Technology, 2022, 344, 126316.	9.6	17
238	Response of trembling and hybrid aspens to phosphorus and sulfur fertilization in a Gray Luvisol: growth and nutrient uptake. Canadian Journal of Forest Research, 2004, 34, 1391-1399.	1.7	16
239	Response of forest vegetation and foliar δ13C and δ15N to soil compaction and forest floor removal in a boreal aspen forest. Forest Ecology and Management, 2006, 222, 450-458.	3.2	16
240	Responses of microbial activity and community metabolic profiles to plant functional group diversity in a full-scale constructed wetland. Geoderma, 2011, 160, 503-508.	5.1	16
241	Effects of canopy–deposition interaction on H+ supply to soils in Pinus banksiana and Populus tremuloides ecosystems in the Athabasca oil sands region in Alberta, Canada. Environmental Pollution, 2011, 159, 1327-1333.	7.5	16
242	Growth of aspen and white spruce on naturally saline sites in northern Alberta: Implications for development of boreal forest vegetation on reclaimed saline soils. Canadian Journal of Soil Science, 2012, 92, 213-227.	1.2	16
243	Soil and tree ring chemistry of Pinus banksiana and Populus tremuloides stands as indicators of changes in atmospheric environments in the oil sands region of Alberta, Canada. Ecological Indicators, 2013, 25, 256-265.	6.3	16
244	Phosphorus Fertilization and Fungal Inoculations Affected the Physiology, Phosphorus Uptake and Growth of Spring Wheat Under Rainfed Conditions on the Canadian Prairies. Journal of Agronomy and Crop Science, 2013, 199, 85-93.	3.5	16
245	Exponential fertilization and plant competition effects on the growth and N nutrition of trembling aspen and white spruce seedlings. Canadian Journal of Forest Research, 2015, 45, 78-86.	1.7	16
246	Warming and nitrogen addition effects on bryophytes are species―and plant communityâ€specific on the eastern slope of the Tibetan Plateau. Journal of Vegetation Science, 2017, 28, 128-138.	2.2	16
247	Simulated N and S deposition affected soil chemistry and understory plant communities in a boreal forest in western Canada. Journal of Plant Ecology, 2018, 11, 511-523.	2.3	16
248	Soil greenhouse gas emissions and grazing management in northern temperate grasslands. Science of the Total Environment, 2021, 796, 148975.	8.0	16
249	Soil Organic Carbon in Particle Size and Density Fractionations under Four Forest Vegetation-Land Use Types in Subtropical China. Forests, 2014, 5, 1391-1408.	2.1	15
250	Coarse woody debris extract decreases nitrogen availability in two reclaimed oil sands soils in Canada. Ecological Engineering, 2015, 84, 13-21.	3.6	15
251	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. Forest Ecology and Management, 2018, 412, 1-8.	3.2	15
252	Tree species diversity promotes soil carbon stability by depressing the temperature sensitivity of soil respiration in temperate forests. Science of the Total Environment, 2018, 645, 623-629.	8.0	15

#	Article	IF	CITATIONS
253	Microbe-mediated attenuation of soil respiration in response to soil warming in a temperate oak forest. Science of the Total Environment, 2020, 711, 134563.	8.0	15
254	Adaptive Multi-Paddock Grazing Lowers Soil Greenhouse Gas Emission Potential by Altering Extracellular Enzyme Activity. Agronomy, 2020, 10, 1781.	3.0	15
255	Effectiveness of soil N availability indices in predicting site productivity in the oil sands region of Alberta. Plant and Soil, 2012, 359, 215-231.	3.7	14
256	Elevated UV-B radiation increased the decomposition of Cinnamomum camphora and Cyclobalanopsis glauca leaf litter in subtropical China. Journal of Soils and Sediments, 2012, 12, 307-311.	3.0	14
257	Foliar chemistry and tree ring δ13C of Pinus densiflora in relation to tree growth along a soil pH gradient. Plant and Soil, 2013, 363, 101-112.	3.7	14
258	Soil carbon changes in paddy fields amended with fly ash. Agriculture, Ecosystems and Environment, 2017, 245, 11-21.	5.3	14
259	Microbial Activities and Gross Nitrogen Transformation Unaffected by Ten‥ear Nitrogen and Sulfur Addition. Soil Science Society of America Journal, 2018, 82, 362-370.	2.2	14
260	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. Environmental Pollution, 2019, 250, 143-154.	7.5	14
261	Introducing trees to agricultural lands increases greenhouse gas emission during spring thaw in Canadian agroforestry systems. Science of the Total Environment, 2019, 652, 800-809.	8.0	14
262	Procyanidin inhibited N2O emissions from paddy soils by affecting nitrate reductase activity and nirS- and nirK-denitrifier populations. Biology and Fertility of Soils, 2021, 57, 935-947.	4.3	14
263	Title is missing!. Plant and Soil, 1997, 192, 295-305.	3.7	13
264	Autotrophic and heterotrophic respiration rates across a chronosequence of hybrid poplar plantationsin northern Alberta. Canadian Journal of Soil Science, 2008, 88, 261-272.	1.2	13
265	Soil and tree chemistry reflected the cumulative impact of acid deposition in Pinus banksiana and Populus tremuloides stands in the Athabasca oil sands region in western Canada. Ecological Indicators, 2013, 25, 35-44.	6.3	13
266	Carbon, nitrogen and phosphorus stocks differ among vegetation patch types in a degraded alpine steppe. Journal of Soils and Sediments, 2019, 19, 1809-1819.	3.0	13
267	Cattle urine and dung additions differently affect nitrification pathways and greenhouse gas emission in a grassland soil. Biology and Fertility of Soils, 2020, 56, 235-247.	4.3	13
268	Land-use type, and land management and disturbance affect soil δ15N: a review. Journal of Soils and Sediments, 2020, 20, 3283-3299.	3.0	13
269	Changes of microbial functional capacities in the rhizosphere contribute to aluminum tolerance by genotype-specific soybeans in acid soils. Biology and Fertility of Soils, 2020, 56, 771-783.	4.3	13
270	Characteristics of organic material inputs affect soil microbial <scp>NO₃</scp> ^{â^`} immobilization rates calculated using different methods. European Journal of Soil Science, 2021, 72, 480-486.	3.9	13

#	Article	IF	CITATIONS
271	Recommendations for stronger biochar research in soil biology and fertility. Biology and Fertility of Soils, 2021, 57, 333-336.	4.3	13
272	Incorporation and extractability of residual 15N in a coniferous forest soil. Soil Biology and Biochemistry, 1998, 30, 1023-1031.	8.8	12
273	Seasonal Changes of Shoot Nitrogen Concentrations and15N/14N Ratios in Common Reed in a Constructed Wetland. Communications in Soil Science and Plant Analysis, 2005, 36, 2719-2731.	1.4	12
274	Plant Species Richness Affected Nitrogen Retention and Ecosystem Productivity in a Full cale Constructed Wetland. Clean - Soil, Air, Water, 2012, 40, 341-347.	1.1	12
275	Fine root dynamics in lodgepole pine and white spruce stands along productivity gradients in reclaimed oil sands sites. Ecology and Evolution, 2015, 5, 4655-4670.	1.9	12
276	Stand density and species richness affect carbon storage and net primary productivity in early and late successional temperate forests differently. Ecological Research, 2016, 31, 525-533.	1.5	12
277	Forest and perennial herbland cover reduce microbial respiration but increase root respiration in agroforestry systems. Agricultural and Forest Meteorology, 2020, 280, 107790.	4.8	12
278	Long-Term Warming and Nitrogen Addition Have Contrasting Effects on Ecosystem Carbon Exchange in a Desert Steppe. Environmental Science & Technology, 2021, 55, 7256-7265.	10.0	12
279	Environmental impacts of livestock excreta under increasing livestock production and management considerations: Implications for developing countries. Current Opinion in Environmental Science and Health, 2021, 24, 100300.	4.1	12
280	Carbon stocks differ among land-uses in agroforestry systems in western Canada. Agricultural and Forest Meteorology, 2022, 313, 108756.	4.8	12
281	Mitigation of agricultural NH3 emissions reduces PM2.5 pollution in China: A finer scale analysis. Journal of Cleaner Production, 2022, 350, 131507.	9.3	12
282	White Spruce Response to Co-Composted Hydrocarbon-Contaminated Drilling Waste. Journal of Environmental Quality, 2005, 34, 1319-1327.	2.0	11
283	Effects of soil pH and salt on N2O production in adjacent forest and grassland soils in central Alberta, Canada. Journal of Soils and Sediments, 2013, 13, 863-868.	3.0	11
284	Critical loads and H+ budgets of forest soils affected by air pollution from oil sands mining in Alberta, Canada. Atmospheric Environment, 2013, 69, 56-64.	4.1	11
285	Responses of lodgepole pine (Pinus contorta) and white spruce (Picea glauca) to fertilization in some reconstructed boreal forest soils in the oil sands region. Ecological Engineering, 2015, 84, 354-361.	3.6	11
286	Stand Age and Productivity Control Soil Carbon Dioxide Efflux and Organic Carbon Dynamics in Poplar Plantations. Soil Science Society of America Journal, 2015, 79, 1638-1649.	2.2	11
287	PhytOC stock in forest litter in subtropical forests: Effects of parent material and forest type. Ecological Engineering, 2016, 97, 297-303.	3.6	11
288	Elemental composition of biochars is affected by methods used for its determination. Journal of Analytical and Applied Pyrolysis, 2021, 156, 105174.	5.5	11

#	Article	IF	CITATIONS
289	Photosynthetic carbon allocation to live roots increases the year following high intensity defoliation across two ecosites in a temperate mixed grassland. Agriculture, Ecosystems and Environment, 2021, 316, 107450.	5.3	11
290	Multiâ€year drought alters plant species composition more than productivity across northern temperate grasslands. Journal of Ecology, 2022, 110, 197-209.	4.0	11
291	Title is missing!. Agroforestry Systems, 2002, 55, 89-98.	2.0	10
292	Capping material type affects rhizosphere bacteria community structure in the cover soil in oil sands reclamation. Journal of Soils and Sediments, 2017, 17, 2516-2523.	3.0	10
293	Soil Nitrogen and Greenhouse Gas Dynamics in a Temperate Grassland under Experimental Warming and Defoliation. Soil Science Society of America Journal, 2019, 83, 780-790.	2.2	10
294	Reclamation of desert land to continuous cotton cropping affects soil properties and microbial communities in the desert-oasis ecotone of Xinjiang, China. Journal of Soils and Sediments, 2020, 20, 862-873.	3.0	10
295	Climate change and defoliation interact to affect root length across northern temperate grasslands. Functional Ecology, 2020, 34, 2611-2621.	3.6	10
296	Disturbance Effects on Soil Carbon and Greenhouse Gas Emissions in Forest Ecosystems. Forests, 2020, 11, 297.	2.1	10
297	Increasing plant diversity to mitigate net greenhouse effect of wastewater treatment in floating constructed wetlands. Journal of Cleaner Production, 2021, 314, 127955.	9.3	10
298	Forest land-use increases soil organic carbon quality but not its structural or thermal stability in a hedgerow system. Agriculture, Ecosystems and Environment, 2021, 321, 107617.	5.3	10
299	Availability of residual 15N in a coniferous forest soil: a greenhouse bioassay and comparison with chemical extractions. Forest Ecology and Management, 1999, 117, 199-209.	3.2	9
300	Recovery of 15N-urea 10 years after application to a Douglas-fir pole stand in coastal British Columbia. Forest Ecology and Management, 2008, 256, 694-701.	3.2	9
301	Soil nitrification and foliar Î′15N declined with stand age in trembling aspen and jack pine forests in northern Alberta, Canada. Plant and Soil, 2014, 376, 399-409.	3.7	9
302	Coarse woody debris effects on greenhouse gas emission rates depend on cover soil type in oil sands reclamation. Applied Soil Ecology, 2016, 100, 124-134.	4.3	9
303	Î13C, Î15N, N concentration, C/N, and Ca/Al of Pinus densiflora foliage in Korean cities of different precipitation pH and atmospheric NO2 and SO2 levels. Ecological Indicators, 2018, 88, 27-36.	6.3	9
304	Plant diversity improves the effluent quality and stability of floating constructed wetlands under increased ammonium/nitrate ratio in influent. Journal of Environmental Management, 2020, 266, 110607.	7.8	9
305	Physiological characterization of recombinant inbred lines of barley with contrasting levels of carbon isotope discrimination. Plant and Soil, 2013, 369, 335-349.	3.7	8
306	Acid deposition strongly influenced element fluxes in a forested karst watershed in the upper Yangtze River region, China. Forest Ecology and Management, 2013, 310, 27-36.	3.2	8

#	Article	IF	CITATIONS
307	Exogenous and endogenous nitrogen differentially affect the decomposition of fine roots of different diameter classes of Mongolian pine in semi-arid northeast China. Plant and Soil, 2019, 436, 109-122.	3.7	8
308	Converting rice husk to biochar reduces bamboo soil N2O emissions under different forms and rates of nitrogen additions. Environmental Science and Pollution Research, 2021, 28, 28777-28788.	5.3	8
309	Functional diversity dominates positive species mixture effects on ecosystem multifunctionality in subtropical plantations. Forest Ecosystems, 2022, 9, 100039.	3.1	8
310	Title is missing!. Agroforestry Systems, 2003, 59, 43-51.	2.0	7
311	Non-additive effects of litter-mixing on soil carbon dioxide efflux from poplar-based agroforestry systems in the warm temperate region of China. Agroforestry Systems, 2014, 88, 193-203.	2.0	7
312	Twig–leaf size relationships in woody plants vary intraspecifically along a soil moisture gradient. Acta Oecologica, 2014, 60, 17-25.	1,1	7
313	Phytolith-occluded organic carbon in intensively managed Lei bamboo (<i>Phyllostachys praecox</i>) stands and implications for carbon sequestration. Canadian Journal of Forest Research, 2015, 45, 1019-1025.	1.7	7
314	Background nitrogen deposition controls the effects of experimental nitrogen addition on soil gross N transformations in forest ecosystems. Biogeochemistry, 2020, 151, 335-341.	3.5	7
315	Greenhouse Gas Emissions from Forest Soils Reduced by Straw Biochar and Nitrapyrin Applications. Land, 2021, 10, 189.	2.9	7
316	Cattle manure biochar and earthworm interactively affected CO2 and N2O emissions in agricultural and forest soils: Observation of a distinct difference. Frontiers of Environmental Science and Engineering, 2022, 16, 1.	6.0	7
317	Effects of nitric acid modification on hydrochar's combustion, fuel and thermal properties are dependent on feedstock type. Bioresource Technology, 2022, 354, 127245.	9.6	7
318	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
319	TECHNICAL NOTE: NITROGEN FERTILIZATION EFFECTS ON THE DEGRADATION OF AGED DIESEL OIL IN COMPOSTED DRILLING WASTES. International Journal of Phytoremediation, 2009, 11, 441-450.	3.1	6
320	Agricultural Wastes. Water Environment Research, 2010, 82, 1396-1425.	2.7	6
321	Production of Carbon Occluded in Phytolith Is Season-Dependent in a Bamboo Forest in Subtropical China. PLoS ONE, 2014, 9, e106843.	2.5	6
322	Microbial versus non-microbial methane releases from fresh soils at different temperatures. Geoderma, 2016, 284, 178-184.	5.1	6
323	Intensive Management Increases Phytolith-Occluded Carbon Sequestration in Moso Bamboo Plantations in Subtropical China. Forests, 2019, 10, 883.	2.1	6
324	Tillage reversal did not reverse N fertilization enhanced C storage in a Black Chernozem and a Gray Luvisol. Geoderma, 2020, 370, 114355.	5.1	6

#	Article	IF	CITATIONS
325	A review of the world's soil museums and exhibitions. Advances in Agronomy, 2021, 166, 277-304.	5.2	6
326	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
327	Effect of Manure from Cattle Fed 3-Nitrooxypropanol on Anthropogenic Greenhouse Gas Emissions Depends on Soil Type. Agronomy, 2021, 11, 371.	3.0	6
328	Environmental Risks in Atmospheric CO ₂ Removal Using Enhanced Rock Weathering Are Overlooked. Environmental Science & Technology, 2021, 55, 9627-9629.	10.0	6
329	Yak dung pat fragmentation decreases yield-scaled growing-season nitrous oxide emissions in an alpine steppe on the Qinghai-Tibetan Plateau. Biology and Fertility of Soils, 2021, 57, 1103-1115.	4.3	6
330	Long-term nitrogen fertilization, but not short-term tillage reversal, affects bacterial community structure and function in a no-till soil. Journal of Soils and Sediments, 2022, 22, 630-639.	3.0	6
331	Sources and transformations of N in reclaimed coastal tidelands: evidence from soil δ15N data. Environmental Geology, 2008, 53, 1331-1338.	1.2	5
332	Canada bluejoint foliar δ ¹⁵ N and δ ¹³ C indicate changed soil N availability by litter removal and N fertilization in a 13-year-old boreal plantation. Soil Science and Plant Nutrition, 2014, 60, 208-215.	1.9	5
333	Phosphorus availability and fractionation vary among forest site types in reconstructed oil sands soils. Canadian Journal of Forest Research, 2017, 47, 1372-1380.	1.7	5
334	Greenhouse gas emissions are affected by land use type in two agroforestry systems: Results from an incubation experiment. Ecological Research, 2020, 35, 1073-1086.	1.5	5
335	Growth and Photosynthetic Responses of Three Lycoris Species to Levels of Irradiance. Hortscience: A Publication of the American Society for Hortcultural Science, 2008, 43, 134-137.	1.0	5
336	Different responses of two Mosla species to potassium limitation in relation to acid rain deposition. Journal of Zhejiang University: Science B, 2009, 10, 563-571.	2.8	4
337	Using vector analysis to understand temporal changes in understorey-tree competition in agroforestry systems. Forest Ecology and Management, 2010, 259, 1200-1211.	3.2	4
338	Nitrogen transformation rates are affected by cover soil type but not coarse woody debris application in reclaimed oil sands soils. Restoration Ecology, 2016, 24, 506-516.	2.9	4
339	Effects of long-term planting on PhytOC storage and its distribution in soil physical fractions in Moso bamboo forests in subtropical China. Journal of Soils and Sediments, 2020, 20, 2317-2329.	3.0	4
340	Grassland soil organic carbon and the effects of irrigated cropping in Alberta, Canada. Soil Use and Management, 2022, 38, 1189-1202.	4.9	4
341	Quantifying past, current, and future forest carbon stocks within agroforestry systems in central Alberta, Canada. GCB Bioenergy, 2022, 14, 669-680.	5.6	4
342	Land-Use Change Enhanced SOC Mineralization but Did Not Significantly Affect Its Storage in the Surface Layer. International Journal of Environmental Research and Public Health, 2022, 19, 3020.	2.6	4

#	Article	IF	CITATIONS
343	Genotypic Effects of Fertilization on Seedling Sweetgum Biomass Allocation, N Uptake, and N Use Efficiency. Scientific World Journal, The, 2001, 1, 407-414.	2.1	3
344	Distribution of Recent Photosynthates in Saplings of Two Hybrid Poplar Clones. Communications in Soil Science and Plant Analysis, 2010, 41, 1004-1015.	1.4	3
345	The chloroform fumigation efficiency in water-saturated soils increases by mixing sand and decreasing packing thickness. European Journal of Soil Biology, 2016, 75, 88-96.	3.2	3
346	Weed control increases nitrogen retranslocation and growth of white spruce seedlings on a reclaimed oil sands soil. New Forests, 2017, 48, 699-717.	1.7	3
347	Micronutrient concentrations vary between peat–mineral mix and substrates in revegetated sites in the Alberta oil sands. Canadian Journal of Soil Science, 2018, 98, 181-192.	1.2	3
348	Understory plant communities vary with tree productivity in two reclaimed boreal upland forest types in Canada. Forest Ecology and Management, 2019, 453, 117577.	3.2	3
349	Effects of Capping Strategy and Water Balance on Salt Movement in Oil Sands Reclamation Soils. Water (Switzerland), 2020, 12, 512.	2.7	3
350	Pinus radiata in a sub-humid temperate silvopastoral system: modelling of seasonal root growth. Forest Ecology and Management, 2003, 182, 303-313.	3.2	2
351	Preface to the special issue for the 8th International Symposium on Forest Soils: Linking Soil Processes to Forest Productivity and Water Protection under Global Change. Journal of Soils and Sediments, 2017, 17, 2215-2217.	3.0	2
352	Phosphorus Availabilities Differ between Cropland and Forestland in Shelterbelt Systems. Forests, 2019, 10, 1001.	2.1	2
353	Earthworm rather than biochar and sodium silicate addition increased bacterial diversity in mining areas subjected to chemical fertilization. Biochar, 2019, 1, 365-374.	12.6	1
354	Soil respiration and net ecosystem productivity in a chronosequence of hybrid poplar plantations. Canadian Journal of Soil Science, 2020, 100, 488-502.	1.2	1
355	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
356	Microbial respiration and biomass (substrate-induced respiration) in soils of old-growth and regenerating forests on northern Vancouver Island, British Columbia. Biology and Fertility of Soils, 1996, 23, 145-152.	4.3	1
357	Nitrogen and Water Availabilities and Competitiveness of Bluejoint: Spruce Growth and Foliar Carbon-13 and Nitrogen-15 Abundance. Soil Science Society of America Journal, 2007, 71, 1952-1952.	2.2	0
358	Agricultural Wastes. Water Environment Research, 2009, 81, 1490-1544.	2.7	0
359	Ecophysiological Differentiation of TwoMoslaSpecies in Response to Nitrogen and Water Levels. Communications in Soil Science and Plant Analysis, 2010, 41, 2699-2712.	1.4	0
360	Biochar production from lignocellulosic and nonlignocellulosic biomass using conventional and		0

microwave heating. , 2022, , 85-95.

#	Article	IF	CITATIONS
361	Biochar for remediation of alkaline soils contaminated with toxic elements. , 2022, , 223-240.		0
362	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