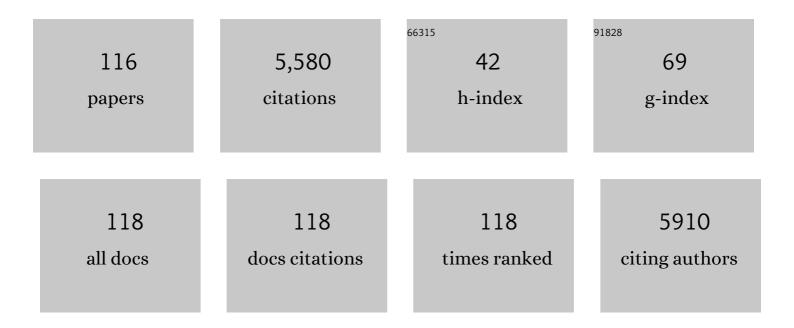
List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Ecological interpretations of nitrogen isotope ratios of terrestrial plants and soils. Plant and Soil, 2015, 396, 1-26.	1.8	424
2	Hadal biosphere: Insight into the microbial ecosystem in the deepest ocean on Earth. Proceedings of the United States of America, 2015, 112, E1230-6.	3.3	277
3	Natural13C and15N abundance of field-collected fungi and their ecological implications. New Phytologist, 1999, 144, 323-330.	3.5	193
4	Nitrogen deposition and forest nitrogen cycling along an urban–rural transect in southern China. Global Change Biology, 2011, 17, 872-885.	4.2	182
5	Microbial denitrification dominates nitrate losses from forest ecosystems. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 1470-1474.	3.3	182
6	Higher diversity and abundance of denitrifying microorganisms in environments than considered previously. ISME Journal, 2015, 9, 1954-1965.	4.4	182
7	Intermittent denitrification: The application of a 15N natural abundance method to a forested ecosystem. Geochimica Et Cosmochimica Acta, 1997, 61, 5043-5050.	1.6	133
8	Anthropogenic imprints on nitrogen and oxygen isotopic composition of precipitation nitrate in a nitrogen-polluted city in southern China. Atmospheric Chemistry and Physics, 2011, 11, 1313-1325.	1.9	129
9	Convergence of soil nitrogen isotopes across global climate gradients. Scientific Reports, 2015, 5, 8280.	1.6	127
10	Isotopocule analysis of biologically produced nitrous oxide in various environments. Mass Spectrometry Reviews, 2017, 36, 135-160.	2.8	126
11	Characterization and production and consumption processes of N ₂ O emitted from temperate agricultural soils determined via isotopomer ratio analysis. Global Biogeochemical Cycles, 2011, 25, n/a-n/a.	1.9	123
12	Role of nitrification and denitrification on the nitrous oxide cycle in the eastern tropical North Pacific and Gulf of California. Journal of Geophysical Research, 2007, 112, .	3.3	110
13	Nitrate is an important nitrogen source for Arctic tundra plants. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 3398-3403.	3.3	102
14	High abundance of ammonia-oxidizing archaea in acidified subtropical forest soils in southern China after long-term N deposition. FEMS Microbiology Ecology, 2012, 80, 193-203.	1.3	96
15	Biogeochemistry of nitrous oxide in groundwater in a forested ecosystem elucidated by nitrous oxide isotopomer measurements. Geochimica Et Cosmochimica Acta, 2009, 73, 3115-3133.	1.6	92
16	Stable isotope analyses of precipitation nitrogen sources in Guiyang, southwestern China. Environmental Pollution, 2017, 230, 486-494.	3.7	92
17	Natural Abundance of Nitrogen-15 in a Forest Soil. Soil Science Society of America Journal, 1998, 62, 778-781.	1.2	84
18	Atmospheric deposition and leaching of nitrogen in Chinese forest ecosystems. Journal of Forest Research, 2011, 16, 341-350.	0.7	81

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19	Natural 15 N Abundance of Plants and Soil N in a Temperate Coniferous Forest. Ecosystems, 2003, 6, 457-469.	1.6	75
20	WATER UTILIZATION OF NATURAL AND PLANTED TREES IN THE SEMIARID DESERT OF INNER MONGOLIA, CHINA. , 2003, 13, 337-351.		75
21	Nitrogen Fixation in Surface Soils and Vegetation in an Arctic Tundra Watershed: A Key Source of Atmospheric Nitrogen. Arctic, Antarctic, and Alpine Research, 2006, 38, 363-372.	0.4	75
22	The natural abundance of ¹⁵ N in plant and soilâ€available N indicates a shift of main plant N resources to NO from NH along the N leaching gradient. Rapid Communications in Mass Spectrometry, 2010, 24, 1001-1008.	0.7	69
23	Molecular biological and isotopic biogeochemical prognoses of the nitrificationâ€driven dynamic microbial nitrogen cycle in hadopelagic sediments. Environmental Microbiology, 2013, 15, 3087-3107.	1.8	68
24	Hybrid Nitrous Oxide Production from a Partial Nitrifying Bioreactor: Hydroxylamine Interactions with Nitrite. Environmental Science & amp; Technology, 2017, 51, 2748-2756.	4.6	66
25	Ammonium first: natural mosses prefer atmospheric ammonium but vary utilization of dissolved organic nitrogen depending on habitat and nitrogen deposition. New Phytologist, 2013, 199, 407-419.	3.5	63
26	Consequences of microbial diversity in forest nitrogen cycling: diverse ammonifiers and specialized ammonia oxidizers. ISME Journal, 2020, 14, 12-25.	4.4	61
27	Nitrogen and phosphorus enrichment and balance in forests colonized by cormorants: Implications of the influence of soil adsorption. Plant and Soil, 2005, 268, 89-101.	1.8	58
28	Nitrification and nitrifying microbial communities in forest soils. Journal of Forest Research, 2011, 16, 351-362.	0.7	58
29	Nitrogen Isotope Study on Nitrate-Contaminated Groundwater in the Sichuan Basin, China. Water, Air, and Soil Pollution, 2007, 178, 145-156.	1.1	56
30	Physiological characteristics of predominant ammonia-oxidizing bacteria enriched from bioreactors with different influent supply regimes. Biochemical Engineering Journal, 2013, 79, 153-161.	1.8	56
31	Spatial distribution of nitrate sources of rivers in the Lake Biwa watershed, Japan: Controlling factors revealed by nitrogen and oxygen isotope values. Water Resources Research, 2010, 46, .	1.7	55
32	Retention of deposited ammonium and nitrate and its impact on the global forest carbon sink. Nature Communications, 2022, 13, 880.	5.8	55
33	Episodic increases in nitrate concentrations in streamwater due to the partial dieback of a pine forest in Japan: runoff generation processes control seasonality. Hydrological Processes, 2003, 17, 237-249.	1.1	54
34	Low δ ¹⁸ O Values of Nitrate Produced from Nitrification in Temperate Forest Soils. Environmental Science & Technology, 2012, 46, 8723-8730.	4.6	54
35	lsotopomeric analysis of N ₂ O dissolved in a river in the Tokyo metropolitan area. Rapid Communications in Mass Spectrometry, 2009, 23, 809-821.	0.7	53
36	Microbial methane production in deep aquifer associated with the accretionary prism in Southwest Japan. ISME Journal, 2010, 4, 531-541.	4.4	53

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37	Nitrogen isotope fractionation during nitrogen transport from ectomycorrhizal fungi, <i>Suillus granulatus</i> , to the host plant, <i>Pinus densiflora</i> . Soil Science and Plant Nutrition, 2000, 46, 733-739.	0.8	52
38	Mechanism of nitrate loss from a forested catchment following a small-scale, natural disturbance. Canadian Journal of Forest Research, 2001, 31, 1326-1335.	0.8	51
39	Analytical Techniques for Quantifying 15N/14N of Nitrate, Nitrite, Total Dissolved Nitrogen and Ammonium in Environmental Samples Using a Gas Chromatograph Equipped with a Quadrupole Mass Spectrometer. Microbes and Environments, 2011, 26, 46-53.	0.7	50
40	Carbon autonomy of reproductive shoots of Siberian alder (Alnus hirsuta var. sibirica). Journal of Plant Research, 2003, 116, 183-188.	1.2	47
41	Immobilization of avian excreta-derived nutrients and reduced lignin decomposition in needle and twig litter in a temperate coniferous forest. Soil Biology and Biochemistry, 2006, 38, 517-525.	4.2	47
42	lsotopomer analysis of production, consumption and soil-to-atmosphere emission processes of N2O at the beginning of paddy field irrigation. Soil Biology and Biochemistry, 2014, 70, 66-78.	4.2	45
43	Hydrological influences on spatiotemporal variations of <i>δ</i> ¹⁵ N and <i>δ</i> ¹⁸ O of nitrate in a forested headwater catchment in central Japan: Denitrification plays a critical role in groundwater. Journal of Geophysical Research, 2010, 115, .	3.3	44
44	Physiological and isotopic characteristics of nitrogen fixation by hyperthermophilic methanogens: Key insights into nitrogen anabolism of the microbial communities in Archean hydrothermal systems. Geochimica Et Cosmochimica Acta, 2014, 138, 117-135.	1.6	44
45	Drivers of atmospheric nitrate processing and export in forested catchments. Water Resources Research, 2015, 51, 1333-1352.	1.7	44
46	Gross nitrification rates in four Japanese forest soils: heterotrophic versus autotrophic and the regulation factors for the nitrification. Journal of Forest Research, 2011, 16, 363-373.	0.7	43
47	Abundance, diversity, and species composition of fungal communities in a temperate forest affected by excreta of the Great Cormorant Phalacrocorax carbo. Soil Biology and Biochemistry, 2002, 34, 1537-1547.	4.2	41
48	δ ¹⁵ N of soil N and plants in a Nâ€saturated, subtropical forest of southern China. Rapid Communications in Mass Spectrometry, 2010, 24, 2499-2506.	0.7	39
49	A simple and rapid GC/MS method for the simultaneous determination of gaseous metabolites. Journal of Microbiological Methods, 2011, 84, 46-51.	0.7	39
50	The ¹⁵ N natural abundance of the N lost from an Nâ€saturated subtropical forest in southern China. Journal of Geophysical Research, 2012, 117, .	3.3	39
51	Isotopomeric characterization of nitrous oxide produced by reaction of enzymes extracted from nitrifying and denitrifying bacteria. Biogeosciences, 2014, 11, 2679-2689.	1.3	39
52	Methane flux characteristics in forest soils under an East Asian monsoon climate. Soil Biology and Biochemistry, 2009, 41, 388-395.	4.2	37
53	Title is missing!. Water, Air, and Soil Pollution, 2001, 130, 679-684.	1.1	33
54	Reduction of fungal growth and lignin decomposition in needle litter by avian excreta. Soil Biology and Biochemistry, 2006, 38, 1623-1630.	4.2	33

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55	Pattern of natural 15N abundance in lakeside forest ecosystem affected by cormorant-derived nitrogen. Hydrobiologia, 2006, 567, 69-86.	1.0	32
56	Changes in nitrogen transformation in forest soil representing the climate gradient of the Japanese archipelago. Journal of Forest Research, 2011, 16, 374-385.	0.7	32
57	Nitrate dynamics in natural plants: insights based on the concentration and natural isotope abundances of tissue nitrate. Frontiers in Plant Science, 2014, 5, 355.	1.7	32
58	Variations in nitrogen-15 natural abundance of plant and soil systems in four remote tropical rainforests, southern China. Oecologia, 2014, 174, 567-580.	0.9	32
59	Uptake Patterns of Glycine, Ammonium, and Nitrate Differ Among Four Common Tree Species of Northeast China. Frontiers in Plant Science, 2019, 10, 799.	1.7	32
60	Nitrogen and Oxygen Isotope Effects of Ammonia Oxidation by Thermophilic Thaumarchaeota from a Geothermal Water Stream. Applied and Environmental Microbiology, 2016, 82, 4492-4504.	1.4	31
61	Seasonal change in microbial sulfur cycling in monomictic Lake Fukamiâ€ i ke, Japan. Limnology and Oceanography, 2012, 57, 974-988.	1.6	30
62	Strong inhibitory effect of nitrate on atmospheric methane oxidation in forest soils. Soil Biology and Biochemistry, 2012, 50, 164-166.	4.2	30
63	Highly abundant acidophilic ammonia-oxidizing archaea causes high rates of nitrification and nitrate leaching in nitrogen-saturated forest soils. Soil Biology and Biochemistry, 2018, 122, 220-227.	4.2	29
64	Pitfalls and New Mechanisms in Moss Isotope Biomonitoring of Atmospheric Nitrogen Deposition. Environmental Science & Technology, 2012, 46, 12557-12566.	4.6	27
65	Nitrite transformations in an N-saturated forest soil. Soil Biology and Biochemistry, 2012, 52, 61-63.	4.2	27
66	Differential N ₂ O dynamics in two oxygen-deficient lake basins revealed by stable isotope and isotopomer distributions. Limnology and Oceanography, 2016, 61, 1735-1749.	1.6	26
67	Mature conifers assimilate nitrate as efficiently as ammonium from soils in four forest plantations. New Phytologist, 2021, 229, 3184-3194.	3.5	26
68	Biogeochemistry of nitrous oxide in Lake Kizaki, Japan, elucidated by nitrous oxide isotopomer analysis. Journal of Geophysical Research, 2011, 116, .	3.3	25
69	High nitrogen isotope fractionation of nitrate during denitrification in four forest soils and its implications for denitrification rate estimates. Science of the Total Environment, 2018, 633, 1078-1088.	3.9	25
70	Multiyear Measurements on Δ ¹⁷ O of Stream Nitrate Indicate High Nitrate Production in a Temperate Forest. Environmental Science & Technology, 2020, 54, 4231-4239.	4.6	25
71	An internal recycling mechanism between ammonia/ammonium and nitrate driven by ammonia-oxidizing archaea and bacteria (AOA, AOB, and Comammox) and DNRA on Angkor sandstone monuments. International Biodeterioration and Biodegradation, 2021, 165, 105328.	1.9	24
72	Hydrologic controls on nitrous oxide production and consumption in a forested headwater catchment in central Japan. Journal of Geophysical Research, 2006, 111, .	3.3	23

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73	Hydrologic effects on methane dynamics in riparian wetlands in a temperate forest catchment. Journal of Geophysical Research, 2007, 112, .	3.3	23
74	Nitrification-driven forms of nitrogen metabolism in microbial mat communities thriving along an ammonium-enriched subsurface geothermal stream. Geochimica Et Cosmochimica Acta, 2013, 113, 152-173.	1.6	23
75	Dynamics of the internal soil nitrogen cycles under moder and mull forest floor types on a slope in a Cryptomeria japonica D. Don plantation. Ecological Research, 2003, 18, 53-64.	0.7	22
76	Topographical Differences in Soil N Transformation Using ¹⁵ N Dilution Method along a Slope in a Conifer Plantation Forest in Japan. Journal of Forest Research, 2000, 5, 13-19.	0.7	21
77	A Novel Pyrroloquinoline Quinone-Dependent 2-Keto- <scp>d</scp> -Glucose Dehydrogenase from Pseudomonas aureofaciens. Journal of Bacteriology, 2015, 197, 1322-1329.	1.0	21
78	Contribution of atmospheric nitrate to streamâ€water nitrate in Japanese coniferous forests revealed by the oxygen isotope ratio of nitrate. Rapid Communications in Mass Spectrometry, 2010, 24, 1281-1286.	0.7	20
79	Patterns of foliar δ ¹⁵ N and their control in Eastern Asian forests. Ecological Research, 2013, 28, 735-748.	0.7	20
80	Preliminary insights into δ15N and δ18O of nitrate in natural mosses: A new application of the denitrifier method. Environmental Pollution, 2012, 162, 48-55.	3.7	19
81	N2O production by denitrification in an urban river: evidence from isotopes, functional genes, and dissolved organic matter. Limnology, 2018, 19, 115-126.	0.8	19
82	Relationships Among pH, Minerals, and Carbon in Soils from Tundra to Boreal Forest Across Alaska. Ecosystems, 2016, 19, 1092-1103.	1.6	17
83	Biomass production and energy source of thermophiles in a Japanese alkaline geothermal pool. Environmental Microbiology, 2010, 12, 480-489.	1.8	16
84	Variation in leaf and soil δ15N in diverse tree species in a lowland dipterocarp rainforest, Malaysia. Trees - Structure and Function, 2016, 30, 509-522.	0.9	15
85	Possible Mechanisms Leading to a Delay in Carbon Stock Recovery after Land Use Change. Soil Science Society of America Journal, 2007, 71, 1636-1638.	1.2	14
86	Analysis of methane production pathways in a riparian wetland of a temperate forest catchment, using <i>δ</i> ¹³ C of pore water CH ₄ and CO ₂ . Journal of Geophysical Research, 2008, 113, .	3.3	14
87	Hydrogen and carbon isotope fractionation by thermophilic hydrogenotrophic methanogens from a deep aquifer under coculture with fermenters. Geochemical Journal, 2012, 46, 193-200.	0.5	14
88	Heterogeneous Atmospheric Nitrogen Deposition Effects Upon the Nitrate Concentration of Stream Waters in a Forested Mountain Area. Water, Air, and Soil Pollution, 2011, 216, 105-115.	1.1	12
89	Dual N and O isotopes of nitrate in natural plants: first insights into individual variability and organ-specific patterns. Biogeochemistry, 2013, 114, 399-411.	1.7	12
90	Temporal and spatial variability of Methane flux in a temperate forest watershed. Suimon Mizu Shigen Gakkaishi, 2005, 18, 244-256.	0.1	11

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91	Virtual forest: design and evaluation of a walk-through system for forest education. Journal of Forest Research, 2005, 10, 189-197.	0.7	10
92	Nitrogen and oxygen isotope effects of tissue nitrate associated with nitrate acquisition and utilisation in the moss Hypnum plumaeforme. Functional Plant Biology, 2012, 39, 598.	1.1	10
93	Revisiting the involvement of ammonia oxidizers and denitrifiers in nitrous oxide emission from cropland soils. Environmental Pollution, 2021, 287, 117494.	3.7	10
94	Use of foliar 15 N and 13 C abundance to evaluate effects of microbiotic crust on nitrogen and water utilization in Pinus massoniana in deteriorated pine stands of south China. Ecological Research, 2003, 18, 279-286.	0.7	8
95	Development and evaluation of a support system for forest education. Journal of Forest Research, 2005, 10, 43-50.	0.7	7
96	Geochemical Influences on Solubility of Soil Organic Carbon in Arctic Tundra Ecosystems. Soil Science Society of America Journal, 2013, 77, 473-481.	1.2	7
97	Seasonal changes and controlling factors of gross N transformation in an evergreen plantation forest in central Japan. Journal of Forest Research, 2014, 19, 77-85.	0.7	7
98	Pattern of natural 15N abundance in lakeside forest ecosystem affected by cormorant-derived nitrogen. , 2006, , 69-86.		7
99	Nitrogen and Oxygen Isotope Signatures of Nitrogen Compounds during Anammox in the Laboratory and a Wastewater Treatment Plant. Microbes and Environments, 2020, 35, n/a.	0.7	7
100	Natural <scp>¹⁵N</scp> abundance of ammonium and nitrate in soil profiles: New insights into forest ecosystem nitrogen saturation. Ecosphere, 2022, 13, .	1.0	7
101	Nitrogen source utilization in co-existing canopy tree and dwarf bamboo in a northern hardwood forest in Japan. Trees - Structure and Function, 2020, 34, 1047-1057.	0.9	6
102	Arbuscular Mycorrhizal Community in Roots and Nitrogen Uptake Patterns of Understory Trees Beneath Ectomycorrhizal and Non-ectomycorrhizal Overstory Trees. Frontiers in Plant Science, 2020, 11, 583585.	1.7	6
103	Abundances of 13C and 15N in Natural Ecosystems Radioisotopes, 1997, 46, 632-644.	0.1	6
104	Vertical distributions of stable isotopic compositions and bacteriochlorophyll homologues in suspended particulate matter in saline meromictic Lake Abashiri. Limnology, 2004, 5, 185-189.	0.8	5
105	Nitrate-use traits of understory plants as potential regulators of vegetation distribution on a slope in a Japanese cedar plantation. Plant and Soil, 2013, 362, 119-134.	1.8	5
106	Influence of <i>δ</i> ¹⁸ 0 of water on measurements of <i>δ</i> ¹⁸ 0 of nitrite and nitrate. Rapid Communications in Mass Spectrometry, 2021, 35, e8979.	0.7	5
107	Different leaf carbon, nitrogen, and phosphorus stoichiometry and carbon and nitrogen isotopes among peatland plants in northeastern China. Plant and Soil, 2021, 467, 345.	1.8	5
108	The Potential of NO3N Utilization by a Woody Shrub Species Lindera triloba: A Cultivation Test to Estimate the Saturation Point of Soil NO3–-N for Plants. Scientific World Journal, The, 2001, 1, 514-519.	0.8	4

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109	Control of the Nitrogen Isotope Composition of the Fungal Biomass: Evidence of Microbial Nitrogen Use Efficiency. Microbes and Environments, 2019, 34, 5-12.	0.7	4
110	Changes in stable nitrogen isotopes of plants, bulk soil and soil dissolved N during ecosystem retrogression in boreal forest. Ecological Research, 2021, 36, 420-429.	0.7	4
111	Isotopic Elucidation of Microbial Nitrogen Transformations in Forest Soils. Global Biogeochemical Cycles, 2021, 35, .	1.9	4
112	A Nonâ€steady State Model Based on Dual Nitrogen and Oxygen Isotopes to Constrain Moss Nitrate Uptake and Reduction. Journal of Geophysical Research G: Biogeosciences, 2020, 125, e2019JG005498.	1.3	3
113	Intraspecific differences in the invasion success of the Argentine ant Linepithema humile Mayr are associated with diet breadth. Scientific Reports, 2021, 11, 2874.	1.6	3
114	Studies on Nitrogen Dynamics in Lotic Ecosystems Using Stable Isotope Techniques. Suimon Mizu Shigen Gakkaishi, 2006, 19, 293-301.	0.1	2
115	Soil nitrogen dynamics of forest ecosystems under environmental changes. Journal of Forest Research, 2011, 16, 331-332.	0.7	1
116	The Use of Natural Abundance of Nitrogen Isotopes in the Studies on Nitrogen Cycle in Forest Ecosystem Radioisotopes, 1995, 44, 765-766.	0.1	0