

Wolfgang Wanek

List of Publications by Year in descending order

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Version: 2024-02-01

175
papers

12,737
citations

20759

60
h-index

28224

105
g-index

222
all docs

222
docs citations

222
times ranked

14010
citing authors

#	ARTICLE	IF	CITATIONS
1	Putting vascular epiphytes on the traits map. <i>Journal of Ecology</i> , 2022, 110, 340-358.	1.9	19
2	Contrasting drivers of belowground nitrogen cycling in a montane grassland exposed to a multifactorial global change experiment with elevated CO ₂ , warming, and drought. <i>Global Change Biology</i> , 2022, 28, 2425-2441.	4.2	25
3	Isotopically characterised N ₂ O reference materials for use as community standards. <i>Rapid Communications in Mass Spectrometry</i> , 2022, 36, e9296.	0.7	5
4	Long-term soil warming alters fine root dynamics and morphology, and their ectomycorrhizal fungal community in a temperate forest soil. <i>Global Change Biology</i> , 2022, 28, 3441-3458.	4.2	27
5	Broad- and small-scale environmental gradients drive variation in chemical, but not morphological, leaf traits of vascular epiphytes. <i>Functional Ecology</i> , 2022, 36, 1858-1872.	1.7	3
6	Extracellular enzyme stoichiometry reflects the metabolic C-and P-limitations along a grassland succession on the Loess Plateau in China. <i>Applied Soil Ecology</i> , 2022, 179, 104594.	2.1	6
7	Recovery of aboveground biomass, species richness and composition in tropical secondary forests in SW Costa Rica. <i>Forest Ecology and Management</i> , 2021, 479, 118580.	1.4	24
8	The effect of the salinity, light regime and food source on carbon and nitrogen uptake in a benthic foraminifer. <i>Biogeosciences</i> , 2021, 18, 1395-1406.	1.3	4
9	Functional Traits of a Rainforest Vascular Epiphyte Community: Trait Covariation and Indications for Host Specificity. <i>Diversity</i> , 2021, 13, 97.	0.7	14
10	Denitrification is the major nitrous acid production pathway in boreal agricultural soils. <i>Communications Earth & Environment</i> , 2021, 2, .	2.6	12
11	Warming and elevated CO ₂ intensify drought and recovery responses of grassland carbon allocation to soil respiration. <i>Global Change Biology</i> , 2021, 27, 3230-3243.	4.2	33
12	Consistent shift in nutritional ecology of ants reveals trophic flexibility across alpine tree-line ecotones. <i>Ecological Entomology</i> , 2021, 46, 1082-1092.	1.1	4
13	No effect of long-term soil warming on diffusive soil inorganic and organic nitrogen fluxes in a temperate forest soil. <i>Soil Biology and Biochemistry</i> , 2021, 158, 108261.	4.2	14
14	An unexpected source of nitrogen for root uptake: positively charged amino acids dominate soil diffusive nitrogen fluxes. <i>New Phytologist</i> , 2021, 231, 2104-2106.	3.5	5
15	Glacier forelands reveal fundamental plant and microbial controls on short-term ecosystem nitrogen retention. <i>Journal of Ecology</i> , 2021, 109, 3710-3723.	1.9	9
16	Cyanate is a low abundance but actively cycled nitrogen compound in soil. <i>Communications Earth & Environment</i> , 2021, 2, .	2.6	11
17	Leaf trait covariation and tradeoffs in gallery forest C ₃ and CAM epiphytes. <i>Biotropica</i> , 2021, 53, 520-535.	0.8	6
18	Effects of heavy elements (Pb, Cu, Zn) on algal food uptake by <i>Elphidium excavatum</i> (Foraminifera). <i>Heliyon</i> , 2021, 7, e08427.	1.4	6

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19	Assimilation of Particular Organic Matter and Dissolved Organic or Inorganic Compounds by <i>Criboelphidium selseyense</i> (Foraminifera). <i>Frontiers in Marine Science</i> , 2021, 8, .	1.2	3
20	Nitrogen Kinetic Isotope Effects of Nitrification by the Complete Ammonia Oxidizer <i>Nitrospira inopinata</i> . <i>MSphere</i> , 2021, 6, e0063421.	1.3	3
21	Isotopic Elucidation of Microbial Nitrogen Transformations in Forest Soils. <i>Global Biogeochemical Cycles</i> , 2021, 35, .	1.9	4
22	Increased microbial growth, biomass, and turnover drive soil organic carbon accumulation at higher plant diversity. <i>Global Change Biology</i> , 2020, 26, 669-681.	4.2	217
23	Direct measurement of the in situ decomposition of microbial-derived soil organic matter. <i>Soil Biology and Biochemistry</i> , 2020, 141, 107660.	4.2	93
24	Microbial growth and carbon use efficiency show seasonal responses in a multifactorial climate change experiment. <i>Communications Biology</i> , 2020, 3, 584.	2.0	30
25	Composition and activity of nitrifier communities in soil are unresponsive to elevated temperature and CO ₂ , but strongly affected by drought. <i>ISME Journal</i> , 2020, 14, 3038-3053.	4.4	43
26	Nitrogen Isotope Fractionation During Archaeal Ammonia Oxidation: Coupled Estimates From Measurements of Residual Ammonium and Accumulated Nitrite. <i>Frontiers in Microbiology</i> , 2020, 11, 1710.	1.5	10
27	Quantifying microbial growth and carbon use efficiency in dry soil environments via ¹⁸ O water vapor equilibration. <i>Global Change Biology</i> , 2020, 26, 5333-5341.	4.2	27
28	Denitrification Is the Main Nitrous Oxide Source Process in Grassland Soils According to Quasi-Continuous Isotopocule Analysis and Biogeochemical Modeling. <i>Global Biogeochemical Cycles</i> , 2020, 34, e2019GB006505.	1.9	11
29	Climatic and edaphic controls over tropical forest diversity and vegetation carbon storage. <i>Scientific Reports</i> , 2020, 10, 5066.	1.6	55
30	Successional habitat filtering of rainforest trees is explained by potential growth more than by functional traits. <i>Functional Ecology</i> , 2020, 34, 1438-1447.	1.7	4
31	Salinity-dependent algae uptake and subsequent carbon and nitrogen metabolisms of two intertidal foraminifera (<i>Ammonia tepida</i> and <i>Haynesina</i>) Tj ETQq1 1 0.784314 ngBT /Ove	1.7	4
32	Vertical Redistribution of Soil Organic Carbon Pools After Twenty Years of Nitrogen Addition in Two Temperate Coniferous Forests. <i>Ecosystems</i> , 2019, 22, 379-400.	1.6	33
33	A novel isotope pool dilution approach to quantify gross rates of key abiotic and biological processes in the soil phosphorus cycle. <i>Biogeosciences</i> , 2019, 16, 3047-3068.	1.3	9
34	The Forest Observation System, building a global reference dataset for remote sensing of forest biomass. <i>Scientific Data</i> , 2019, 6, 198.	2.4	44
35	Environmental effects on soil microbial nitrogen use efficiency are controlled by allocation of organic nitrogen to microbial growth and regulate gross N mineralization. <i>Soil Biology and Biochemistry</i> , 2019, 135, 304-315.	4.2	90
36	Soil multifunctionality is affected by the soil environment and by microbial community composition and diversity. <i>Soil Biology and Biochemistry</i> , 2019, 136, 107521.	4.2	217

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37	Beta diversity and oligarchic dominance in the tropical forests of Southern Costa Rica. <i>Biotropica</i> , 2019, 51, 117-128.	0.8	11
38	Wide-spread limitation of soil organic nitrogen transformations by substrate availability and not by extracellular enzyme content. <i>Soil Biology and Biochemistry</i> , 2019, 133, 37-49.	4.2	48
39	Root Exudation of Primary Metabolites: Mechanisms and Their Roles in Plant Responses to Environmental Stimuli. <i>Frontiers in Plant Science</i> , 2019, 10, 157.	1.7	540
40	Resistant Soil Microbial Communities Show Signs of Increasing Phosphorus Limitation in Two Temperate Forests After Long-Term Nitrogen Addition. <i>Frontiers in Forests and Global Change</i> , 2019, 2, .	1.0	21
41	Growth explains microbial carbon use efficiency across soils differing in land use and geology. <i>Soil Biology and Biochemistry</i> , 2019, 128, 45-55.	4.2	127
42	Novel high-throughput approach to determine key processes of soil organic nitrogen cycling: Gross protein depolymerization and microbial amino acid uptake. <i>Soil Biology and Biochemistry</i> , 2019, 130, 73-81.	4.2	20
43	Food supply and size class depending variations in phytodetritus intake in the benthic foraminifer <i>Ammonia tepida</i> . <i>Biology Open</i> , 2018, 7, .	0.6	10
44	Age alters uptake pattern of organic and inorganic nitrogen by rubber trees. <i>Tree Physiology</i> , 2018, 38, 1685-1693.	1.4	12
45	Traits indicating a conservative resource strategy are weakly related to narrow range size in a group of neotropical trees. <i>Perspectives in Plant Ecology, Evolution and Systematics</i> , 2018, 32, 30-37.	1.1	6
46	pH-Dependent Bioavailability, Speciation, and Phytotoxicity of Tungsten (W) in Soil Affect Growth and Molybdoenzyme Activity of Nodulated Soybeans. <i>Environmental Science & Technology</i> , 2018, 52, 6146-6156.	4.6	36
47	Soil organic matter quality exerts a stronger control than stoichiometry on microbial substrate use efficiency along a latitudinal transect. <i>Soil Biology and Biochemistry</i> , 2018, 121, 212-220.	4.2	104
48	A multi-isotopic approach to investigate the influence of land use on nitrate removal in a highly saline lake-aquifer system. <i>Science of the Total Environment</i> , 2018, 631-632, 649-659.	3.9	35
49	Application of stable isotope labelling techniques for the detection of active diazotrophs. <i>Environmental Microbiology</i> , 2018, 20, 44-61.	1.8	44
50	Full 15N tracer accounting to revisit major assumptions of 15N isotope pool dilution approaches for gross nitrogen mineralization. <i>Soil Biology and Biochemistry</i> , 2018, 117, 16-26.	4.2	35
51	Preservation effects on isotopic signatures in benthic foraminiferal biomass. <i>Marine Micropaleontology</i> , 2018, 144, 50-59.	0.5	11
52	Significant release and microbial utilization of amino sugars and d-amino acid enantiomers from microbial cell wall decomposition in soils. <i>Soil Biology and Biochemistry</i> , 2018, 123, 115-125.	4.2	50
53	Is local trait variation related to total range size of tropical trees?. <i>PLoS ONE</i> , 2018, 13, e0193268.	1.1	7
54	Decoupling of microbial carbon, nitrogen, and phosphorus cycling in response to extreme temperature events. <i>Science Advances</i> , 2017, 3, e1602781.	4.7	143

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55	Flux Analysis of Free Amino Sugars and Amino Acids in Soils by Isotope Tracing with a Novel Liquid Chromatography/High Resolution Mass Spectrometry Platform. <i>Analytical Chemistry</i> , 2017, 89, 9192-9200.	3.2	36
56	Organic and inorganic nitrogen uptake by 21 dominant tree species in temperate and tropical forests. <i>Tree Physiology</i> , 2017, 37, 1515-1526.	1.4	64
57	Increased temperature causes different carbon and nitrogen processing patterns in two common intertidal foraminifera (<i>Ammonia tepida</i> and <i>Trochammina inflata</i>). <i>Marine Chemistry</i> , 2017, 170, 10-19.	10.784314	10750657
58	Carbon and Nitrogen Uptake of Calcareous Benthic Foraminifera along a Depth-Related Oxygen Gradient in the OMZ of the Arabian Sea. <i>Frontiers in Microbiology</i> , 2016, 7, 71.	1.5	17
59	Functional leaf traits of vascular epiphytes: vertical trends within the forest, intra- and interspecific trait variability, and taxonomic signals. <i>Functional Ecology</i> , 2016, 30, 188-198.	1.7	76
60	Soil microbial carbon use efficiency and biomass turnover in a long-term fertilization experiment in a temperate grassland. <i>Soil Biology and Biochemistry</i> , 2016, 97, 168-175.	4.2	205
61	Microbial decomposition of ¹³ C-labeled phytosiderophores in the rhizosphere of wheat: Mineralization dynamics and key microbial groups involved. <i>Soil Biology and Biochemistry</i> , 2016, 98, 196-207.	4.2	20
62	Moss $\delta^{13}\text{C}$: Implications for subantarctic palaeohydrological reconstructions. <i>Palaeogeography, Palaeoclimatology, Palaeoecology</i> , 2016, 453, 20-29.	1.0	3
63	Metabolism of mineral-sorbed organic matter and microbial lifestyles in fluvial ecosystems. <i>Geophysical Research Letters</i> , 2016, 43, 1582-1588.	1.5	24
64	Little effects on soil organic matter chemistry of density fractions after seven years of forest soil warming. <i>Soil Biology and Biochemistry</i> , 2016, 103, 300-307.	4.2	48
65	Stable isotope signatures reflect dietary diversity in European forest moths. <i>Frontiers in Zoology</i> , 2016, 13, 37.	0.9	9
66	Microbial carbon use efficiency and biomass turnover times depending on soil depth – Implications for carbon cycling. <i>Soil Biology and Biochemistry</i> , 2016, 96, 74-81.	4.2	289
67	Microbial physiology and soil CO ₂ efflux after 9 years of soil warming in a temperate forest – no indications for thermal adaptations. <i>Global Change Biology</i> , 2015, 21, 4265-4277.	4.2	104
68	INVESTIGATION OF THE INTERACTION OF ENDOPHYTES AND POPLAR PLANTS IN IN VITRO CULTURE AND FIELD TRIALS. <i>Acta Horticulturae</i> , 2015, , 439-442.	0.1	0
69	Moss $\delta^{13}\text{C}$: an accurate proxy for past water environments in polar regions. <i>Global Change Biology</i> , 2015, 21, 2454-2464.	4.2	27
70	Convergence of soil nitrogen isotopes across global climate gradients. <i>Scientific Reports</i> , 2015, 5, 8280.	1.6	127
71	Biological nitrogen fixation and biomass production stability in alfalfa (<i>Medicago sativa</i> L.) genotypes under organic management conditions. <i>Biological Agriculture and Horticulture</i> , 2015, 31, 177-192.	0.5	6
72	New insights into mechanisms driving carbon allocation in tropical forests. <i>New Phytologist</i> , 2015, 205, 137-146.	3.5	23

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73	The application of ecological stoichiometry to plant-microbial-soil organic matter transformations. <i>Ecological Monographs</i> , 2015, 85, 133-155.	2.4	735
74	Contribution of carbonate weathering to the CO ₂ efflux from temperate forest soils. <i>Biogeochemistry</i> , 2015, 124, 273-290.	1.7	26
75	Host tree phenology affects vascular epiphytes at the physiological, demographic and community level. <i>AoB PLANTS</i> , 2015, 7, .	1.2	47
76	Landscape-Scale Controls on Aboveground Forest Carbon Stocks on the Osa Peninsula, Costa Rica. <i>PLoS ONE</i> , 2015, 10, e0126748.	1.1	45
77	Thaumarchaeal ammonium oxidation and evidence for a nitrogen cycle in a subsurface radioactive thermal spring in the Austrian Central Alps. <i>Frontiers in Microbiology</i> , 2014, 5, 225.	1.5	15
78	Nutrient limitation of alpine plants: Implications from leaf N:P stoichiometry and leaf $\delta^{15}N$. <i>Journal of Plant Nutrition and Soil Science</i> , 2014, 177, 378-387.	1.1	44
79	Stoichiometric imbalances between terrestrial decomposer communities and their resources: mechanisms and implications of microbial adaptations to their resources. <i>Frontiers in Microbiology</i> , 2014, 5, 22.	1.5	501
80	Adjustment of microbial nitrogen use efficiency to carbon:nitrogen imbalances regulates soil nitrogen cycling. <i>Nature Communications</i> , 2014, 5, 3694.	5.8	594
81	Aerobic nitrous oxide production through N-nitrosating hybrid formation in ammonia-oxidizing archaea. <i>ISME Journal</i> , 2014, 8, 1135-1146.	4.4	270
82	Sensitivity of tropical forest aboveground productivity to climate anomalies in SW Costa Rica. <i>Global Biogeochemical Cycles</i> , 2014, 28, 1437-1454.	1.9	26
83	Assessing the effect of lucerne utilization systems in the Pannonian region of Austria. <i>Archives of Agronomy and Soil Science</i> , 2014, 60, 297-311.	1.3	1
84	The relationship between N isotopic fractionation within soybean and N_2 fixation during soybean development. <i>Physiologia Plantarum</i> , 2014, 152, 546-557.	2.6	8
85	No evidence of aquatic priming effects in hyporheic zone microcosms. <i>Scientific Reports</i> , 2014, 4, 5187.	1.6	66
86	Biochar Decelerates Soil Organic Nitrogen Cycling but Stimulates Soil Nitrification in a Temperate Arable Field Trial. <i>PLoS ONE</i> , 2014, 9, e86388.	1.1	231
87	A closeup study of early beech litter decomposition: potential drivers and microbial interactions on a changing substrate. <i>Plant and Soil</i> , 2013, 371, 139-154.	1.8	27
88	Subsurface earthworm casts can be important soil microsites specifically influencing the growth of grassland plants. <i>Biology and Fertility of Soils</i> , 2013, 49, 1097-1107.	2.3	18
89	Host-compound foraging by intestinal microbiota revealed by single-cell stable isotope probing. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 4720-4725.	3.3	210
90	Carbon isotope discrimination and water use efficiency relationships of alfalfa genotypes under irrigated and rain-fed organic farming. <i>European Journal of Agronomy</i> , 2013, 50, 82-89.	1.9	29

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91	Interactions of Nitrifying Bacteria and Heterotrophs: Identification of a Micavibrio-Like Putative Predator of Nitrospira spp. Applied and Environmental Microbiology, 2013, 79, 2027-2037.	1.4	90
92	Nitrification rates in Arctic soils are associated with functionally distinct populations of ammonia-oxidizing archaea. ISME Journal, 2013, 7, 1620-1631.	4.4	163
93	A novel ¹⁵ N tracer model reveals: Plant nitrate uptake governs nitrogen transformation rates in agricultural soils. Soil Biology and Biochemistry, 2013, 57, 301-310.	4.2	57
94	Oxygen isotopes in tree rings record variation in precipitation $\delta^{18}O$ and amount effects in the south of Mexico. Journal of Geophysical Research G: Biogeosciences, 2013, 118, 1604-1615.	1.3	30
95	Stoichiometric controls of nitrogen and phosphorus cycling in decomposing beech leaf litter. Ecology, 2012, 93, 770-782.	1.5	228
96	Effects of stoichiometry and temperature perturbations on beech leaf litter decomposition, enzyme activities and protein expression. Biogeosciences, 2012, 9, 4537-4551.	1.3	55
97	Effects of Resource Chemistry on the Composition and Function of Stream Hyporheic Biofilms. Frontiers in Microbiology, 2012, 3, 35.	1.5	12
98	Mimicking floodplain reconnection and disconnection using ¹⁵ N mesocosm incubations. Biogeosciences, 2012, 9, 4263-4278.	1.3	15
99	N ₂ fixation by organically grown soybean in Central Europe: Method of quantification and agronomic effects. European Journal of Agronomy, 2012, 41, 11-17.	1.9	18
100	Influence of litter chemistry and stoichiometry on glucan depolymerization during decomposition of beech (Fagus sylvatica L.) litter. Soil Biology and Biochemistry, 2012, 50, 174-187.	4.2	31
101	Controls of hydrochemical fluxes via stemflow in tropical lowland rainforests: Effects of meteorology and vegetation characteristics. Journal of Hydrology, 2012, 452-453, 247-258.	2.3	47
102	Long-Term Change in the Nitrogen Cycle of Tropical Forests. Science, 2011, 334, 664-666.	6.0	250
103	Physiological diversity and biogeography of vascular epiphytes at Barro Colorado Island, Panama. Flora: Morphology, Distribution, Functional Ecology of Plants, 2011, 206, 66-79.	0.6	20
104	A simple method for <i>in situ</i> ¹⁵ N and ¹³ C of grassland plant species by foliar brushing. Methods in Ecology and Evolution, 2011, 2, 326-332.	2.2	34
105	Long-term increases in intrinsic water-use efficiency do not lead to increased stem growth in a tropical monsoon forest in western Thailand. Global Change Biology, 2011, 17, 1049-1063.	4.2	135
106	Spatio-temporal variations determine plant-microbe competition for inorganic nitrogen in an alpine meadow. Journal of Ecology, 2011, 99, 563-571.	1.9	68
107	Are vascular epiphytes nitrogen or phosphorus limited? A study of plant ¹⁵ N fractionation and foliar N:P stoichiometry with the tank bromeliad Vriesea sanguinolenta. New Phytologist, 2011, 192, 462-470.	3.5	61
108	Community profiling and gene expression of fungal assimilatory nitrate reductases in agricultural soil. ISME Journal, 2011, 5, 1771-1783.	4.4	67

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109	Natural abundance radiocarbon in soil microbial biomass: Results from a glacial foreland. <i>Soil Biology and Biochemistry</i> , 2011, 43, 1356-1361.	4.2	6
110	Topography strongly affects atmospheric deposition and canopy exchange processes in different types of wet lowland rainforest, Southwest Costa Rica. <i>Biogeochemistry</i> , 2011, 106, 371-396.	1.7	36
111	Greenhouse gas fluxes respond to different N fertilizer types due to altered plant-soil-microbe interactions. <i>Plant and Soil</i> , 2011, 343, 17-35.	1.8	37
112	Dominant plant species shift their nitrogen uptake patterns in response to nutrient enrichment caused by a fungal fairy in an alpine meadow. <i>Plant and Soil</i> , 2011, 341, 495-504.	1.8	72
113	Stable carbon isotopes in tree rings indicate improved water use efficiency and drought responses of a tropical dry forest tree species. <i>Trees - Structure and Function</i> , 2011, 25, 103-113.	0.9	80
114	Alternative Methods for Measuring Inorganic, Organic, and Total Dissolved Nitrogen in Soil. <i>Soil Science Society of America Journal</i> , 2010, 74, 1018-1027.	1.2	273
115	Large Canopy Exchange Fluxes of Inorganic and Organic Nitrogen and Preferential Retention of Nitrogen by Epiphytes in a Tropical Lowland Rainforest. <i>Ecosystems</i> , 2010, 13, 367-381.	1.6	39
116	Molecular diversity of fungal communities in agricultural soils from Lower Austria. <i>Fungal Diversity</i> , 2010, 44, 65-75.	4.7	143
117	Microbial communities of arboreal and ground soils in the Esquinas rainforest, Costa Rica. <i>Plant and Soil</i> , 2010, 329, 65-74.	1.8	21
118	Short-term competition between crop plants and soil microbes for inorganic N fertilizer. <i>Soil Biology and Biochemistry</i> , 2010, 42, 360-372.	4.2	186
119	Determination of gross rates of amino acid production and immobilization in decomposing leaf litter by a novel ^{15}N isotope pool dilution technique. <i>Soil Biology and Biochemistry</i> , 2010, 42, 1293-1302.	4.2	118
120	A suite of sensitive chemical methods to determine the ^{15}N of ammonium, nitrate and total dissolved N in soil extracts. <i>Rapid Communications in Mass Spectrometry</i> , 2010, 24, 3615-3623.	0.7	58
121	The effect of resource quantity and resource stoichiometry on microbial carbon-use-efficiency. <i>FEMS Microbiology Ecology</i> , 2010, 73, no-no.	1.3	227
122	Dynamics of ammonia-oxidizing communities in barley-planted bulk soil and rhizosphere following nitrate and ammonium fertilizer amendment. <i>FEMS Microbiology Ecology</i> , 2010, 74, 575-591.	1.3	93
123	Contribution of carbon fixed by Rubisco and PEPC to phloem export in the Crassulacean acid metabolism plant <i>Kalanchoe daigremontiana</i> . <i>Journal of Experimental Botany</i> , 2010, 61, 1375-1383.	2.4	47
124	Long-Term Trends in Nitrogen Isotope Composition and Nitrogen Concentration in Brazilian Rainforest Trees Suggest Changes in Nitrogen Cycle. <i>Environmental Science & Technology</i> , 2010, 44, 1191-1196.	4.6	44
125	Microclimatic patterns correlate with the distribution of epiphyllous bryophytes in a tropical lowland rain forest in Costa Rica. <i>Journal of Tropical Ecology</i> , 2009, 25, 321-330.	0.5	53
126	A cost-effective high-throughput microcosm system for studying nitrogen dynamics at the plant-microbe-soil interface. <i>Plant and Soil</i> , 2009, 317, 293-307.	1.8	26

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127	Preparation of starch and soluble sugars of plant material for the analysis of carbon isotope composition: a comparison of methods. <i>Rapid Communications in Mass Spectrometry</i> , 2009, 23, 2476-2488.	0.7	76
128	Light affects competition for inorganic and organic nitrogen between maize and rhizosphere microorganisms. <i>Plant and Soil</i> , 2008, 304, 59-72.	1.8	44
129	Foliar $\delta^{15}\text{N}$ values characterize soil N cycling and reflect nitrate or ammonium preference of plants along a temperate grassland gradient. <i>Oecologia</i> , 2008, 156, 861-870.	0.9	159
130	Nitrogen fixation by phyllosphere bacteria associated with higher plants and their colonizing epiphytes of a tropical lowland rainforest of Costa Rica. <i>ISME Journal</i> , 2008, 2, 561-570.	4.4	218
131	Root-derived respiration and non-structural carbon of rice seedlings. <i>European Journal of Soil Biology</i> , 2008, 44, 22-29.	1.4	36
132	Total Nitrogen Content and $\delta^{15}\text{N}$ Signatures in Moss Tissue: Indicative Value for Nitrogen Deposition Patterns and Source Allocation on a Nationwide Scale. <i>Environmental Science & Technology</i> , 2008, 42, 8661-8667.	4.6	65
133	Short-term ^{15}N uptake kinetics and nitrogen nutrition of bryophytes in a lowland rainforest, Costa Rica. <i>Functional Plant Biology</i> , 2008, 35, 51.	1.1	15
134	Physiological Responses of Bryophytes <i>Thuidium tamariscinum</i> and <i>Hylocomium splendens</i> to Increased Nitrogen Deposition. <i>Annals of Botany</i> , 2007, 99, 161-169.	1.4	64
135	Nitrogen input by cyanobacterial biofilms of an inselberg into a tropical rainforest in French Guiana. <i>Flora: Morphology, Distribution, Functional Ecology of Plants</i> , 2007, 202, 521-529.	0.6	26
136	Canopy interactions of rainfall in an off-shore mangrove ecosystem dominated by <i>Rhizophora mangle</i> (Belize). <i>Journal of Hydrology</i> , 2007, 345, 70-79.	2.3	20
137	Heterotrophic microbial communities use ancient carbon following glacial retreat. <i>Biology Letters</i> , 2007, 3, 487-490.	1.0	201
138	Microbial activities and foliar uptake of nitrogen in the epiphytic bromeliad <i>Vriesea gigantea</i> . <i>New Phytologist</i> , 2007, 175, 311-320.	3.5	88
139	Natural ^{15}N abundance of soil N pools and N_2O reflect the nitrogen dynamics of forest soils. <i>Plant and Soil</i> , 2007, 295, 79-94.	1.8	74
140	Shift in soil-plant nitrogen dynamics of an alpine-nival ecotone. <i>Plant and Soil</i> , 2007, 301, 65-76.	1.8	65
141	Short-term changes in carbon isotope composition of soluble carbohydrates and starch: from canopy leaves to the root system. <i>Rapid Communications in Mass Spectrometry</i> , 2006, 20, 653-660.	0.7	94
142	Significance of organic nitrogen acquisition for dominant plant species in an alpine meadow on the Tibet plateau, China. <i>Plant and Soil</i> , 2006, 285, 221-231.	1.8	74
143	Natural ^{15}N abundance of plants and soils under different management practices in a montane grassland. <i>Soil Biology and Biochemistry</i> , 2006, 38, 1564-1576.	4.2	67
144	^{14}C Dating of Early Upper Palaeolithic Human and Faunal Remains from Mladeč, 2006, , 149-158.		8

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145	Flow history explains temporal and spatial variation of carbon fractionation in stream periphyton. <i>Limnology and Oceanography</i> , 2005, 50, 706-712.	1.6	31
146	Phyllosphere nitrogen relations: reciprocal transfer of nitrogen between epiphyllous liverworts and host plants in the understorey of a lowland tropical wet forest in Costa Rica. <i>New Phytologist</i> , 2005, 166, 577-588.	3.5	23
147	Direct dating of Early Upper Palaeolithic human remains from Mladeč. <i>Nature</i> , 2005, 435, 332-335.	13.7	140
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