

# Wolfgang Wanek

## List of Publications by Citations

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168  
papers

8,762  
citations

53  
h-index

89  
g-index

222  
ext. papers

10,840  
ext. citations

6  
avg, IF

6.19  
L-index

#	Paper	IF	Citations
168	The application of ecological stoichiometry to plant-microbial-soil organic matter transformations. <i>Ecological Monographs</i> , <b>2015</b> , 85, 133-155	9	431
167	Adjustment of microbial nitrogen use efficiency to carbon:nitrogen imbalances regulates soil nitrogen cycling. <i>Nature Communications</i> , <b>2014</b> , 5, 3694	17.4	373
166	Stoichiometric imbalances between terrestrial decomposer communities and their resources: mechanisms and implications of microbial adaptations to their resources. <i>Frontiers in Microbiology</i> , <b>2014</b> , 5, 22	5.7	312
165	Root Exudation of Primary Metabolites: Mechanisms and Their Roles in Plant Responses to Environmental Stimuli. <i>Frontiers in Plant Science</i> , <b>2019</b> , 10, 157	6.2	253
164	Aerobic nitrous oxide production through N-nitrosating hybrid formation in ammonia-oxidizing archaea. <i>ISME Journal</i> , <b>2014</b> , 8, 1135-46	11.9	207
163	The effect of resource quantity and resource stoichiometry on microbial carbon-use-efficiency. <i>FEMS Microbiology Ecology</i> , <b>2010</b> , 73, 430-40	4.3	205
162	Long-term change in the nitrogen cycle of tropical forests. <i>Science</i> , <b>2011</b> , 334, 664-6	33.3	203
161	Alternative Methods for Measuring Inorganic, Organic, and Total Dissolved Nitrogen in Soil. <i>Soil Science Society of America Journal</i> , <b>2010</b> , 74, 1018-1027	2.5	199
160	Biochar decelerates soil organic nitrogen cycling but stimulates soil nitrification in a temperate arable field trial. <i>PLoS ONE</i> , <b>2014</b> , 9, e86388	3.7	178
159	Microbial carbon use efficiency and biomass turnover times depending on soil depth [Implications for carbon cycling. <i>Soil Biology and Biochemistry</i> , <b>2016</b> , 96, 74-81	7.5	173
158	Stoichiometric controls of nitrogen and phosphorus cycling in decomposing beech leaf litter. <i>Ecology</i> , <b>2012</b> , 93, 770-82	4.6	165
157	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> , <b>2008</b> , 2, 561-70	11.9	160
156	Heterotrophic microbial communities use ancient carbon following glacial retreat. <i>Biology Letters</i> , <b>2007</b> , 3, 487-90	3.6	160
155	MANGROVE ISOTOPIC ( $\delta^{15}\text{N}$ AND $\delta^{13}\text{C}$ ) FRACTIONATION ACROSS A NITROGEN VS. PHOSPHORUS LIMITATION GRADIENT. <i>Ecology</i> , <b>2002</b> , 83, 1065-1075	4.6	155
154	Functional diversity of the soil microflora in primary succession across two glacier forelands in the Central Alps. <i>European Journal of Soil Science</i> , <b>2003</b> , 54, 685-696	3.4	152
153	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> , <b>2013</b> , 110, 4720-5	11.5	147
152	Nitrification rates in Arctic soils are associated with functionally distinct populations of ammonia-oxidizing archaea. <i>ISME Journal</i> , <b>2013</b> , 7, 1620-31	11.9	131

151	Foliar delta(15)N values characterize soil N cycling and reflect nitrate or ammonium preference of plants along a temperate grassland gradient. <i>Oecologia</i> , <b>2008</b> , 156, 861-70	2.9	131
150	Temperature-dependent shift from labile to recalcitrant carbon sources of arctic heterotrophs. <i>Rapid Communications in Mass Spectrometry</i> , <b>2005</b> , 19, 1401-8	2.2	127
149	Direct dating of Early Upper Palaeolithic human remains from Mladec. <i>Nature</i> , <b>2005</b> , 435, 332-5	50.4	121
148	Physiological and morphological adaptations of the fruit tree <i>Ziziphus rotundifolia</i> in response to progressive drought stress. <i>Tree Physiology</i> , <b>2001</b> , 21, 705-15	4.2	119
147	Long-term increases in intrinsic water-use efficiency do not lead to increased stem growth in a tropical monsoon forest in western Thailand. <i>Global Change Biology</i> , <b>2011</b> , 17, 1049-1063	11.4	117
146	Soil microbial carbon use efficiency and biomass turnover in a long-term fertilization experiment in a temperate grassland. <i>Soil Biology and Biochemistry</i> , <b>2016</b> , 97, 168-175	7.5	117
145	Short-term competition between crop plants and soil microbes for inorganic N fertilizer. <i>Soil Biology and Biochemistry</i> , <b>2010</b> , 42, 360-372	7.5	113
144	Allochthonous and autochthonous particulate organic matter in floodplains of the River Danube: the importance of hydrological connectivity. <i>Freshwater Biology</i> , <b>2003</b> , 48, 220-232	3.1	113
143	Molecular diversity of fungal communities in agricultural soils from Lower Austria. <i>Fungal Diversity</i> , <b>2010</b> , 44, 65-75	17.6	103
142	Long-term trends in cellulose delta13 C and water-use efficiency of tropical <i>Cedrela</i> and <i>Swietenia</i> from Brazil. <i>Tree Physiology</i> , <b>2005</b> , 25, 745-52	4.2	92
141	Convergence of soil nitrogen isotopes across global climate gradients. <i>Scientific Reports</i> , <b>2015</b> , 5, 8280	4.9	90
140	Nitrogen-15 natural abundance in a montane cloud forest canopy as an indicator of nitrogen cycling and epiphyte nutrition. <i>Oecologia</i> , <b>2002</b> , 131, 350-355	2.9	90
139	Determination of gross rates of amino acid production and immobilization in decomposing leaf litter by a novel 15N isotope pool dilution technique. <i>Soil Biology and Biochemistry</i> , <b>2010</b> , 42, 1293-1302	7.5	89
138	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> , <b>2006</b> , 20, 653-60	2.2	85
137	Stable isotopic composition of carbon and nitrogen and nitrogen content in vascular epiphytes along an altitudinal transect*. <i>Plant, Cell and Environment</i> , <b>1999</b> , 22, 1435-1443	8.4	84
136	Dynamics of ammonia-oxidizing communities in barley-planted bulk soil and rhizosphere following nitrate and ammonium fertilizer amendment. <i>FEMS Microbiology Ecology</i> , <b>2010</b> , 74, 575-91	4.3	82
135	Increased microbial growth, biomass, and turnover drive soil organic carbon accumulation at higher plant diversity. <i>Global Change Biology</i> , <b>2020</b> , 26, 669-681	11.4	81
134	Microbial activities and foliar uptake of nitrogen in the epiphytic bromeliad <i>Vriesea gigantea</i> . <i>New Phytologist</i> , <b>2007</b> , 175, 311-320	9.8	75

133	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> , <b>2011</b> , 25, 103-113	2.6	73
132	Soil multifunctionality is affected by the soil environment and by microbial community composition and diversity. <i>Soil Biology and Biochemistry</i> , <b>2019</b> , 136, 107521	7.5	72
131	Microbial physiology and soil CO <sub>2</sub> efflux after 9 years of soil warming in a temperate forest - no indications for thermal adaptations. <i>Global Change Biology</i> , <b>2015</b> , 21, 4265-77	11.4	72
130	Decoupling of microbial carbon, nitrogen, and phosphorus cycling in response to extreme temperature events. <i>Science Advances</i> , <b>2017</b> , 3, e1602781	14.3	70
129	Natural <sup>15</sup> N abundance of soil N pools and N <sub>2</sub> O reflect the nitrogen dynamics of forest soils. <i>Plant and Soil</i> , <b>2007</b> , 295, 79-94	4.2	69
128	Interactions of nitrifying bacteria and heterotrophs: identification of a <i>Micavibrio</i> -like putative predator of <i>Nitrospira</i> spp. <i>Applied and Environmental Microbiology</i> , <b>2013</b> , 79, 2027-37	4.8	67
127	Preparation of starch and other carbon fractions from higher plant leaves for stable carbon isotope analysis. <i>Rapid Communications in Mass Spectrometry</i> , <b>2001</b> , 15, 1136-40	2.2	67
126	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> , <b>2009</b> , 23, 2476-88	2.2	65
125	Significance of organic nitrogen acquisition for dominant plant species in an alpine meadow on the Tibet plateau, China. <i>Plant and Soil</i> , <b>2006</b> , 285, 221-231	4.2	62
124	Growth explains microbial carbon use efficiency across soils differing in land use and geology. <i>Soil Biology and Biochemistry</i> , <b>2019</b> , 128, 45-55	7.5	61
123	Total nitrogen content and delta( <sup>15</sup> N) signatures in moss tissue: indicative value for nitrogen deposition patterns and source allocation on a nationwide scale. <i>Environmental Science &amp; Technology</i> , <b>2008</b> , 42, 8661-7	10.3	60
122	Plants feed ants: food bodies of myrmecophytic <i>Piper</i> and their significance for the interaction with <i>Pheidole bicornis</i> ants. <i>Oecologia</i> , <b>2002</b> , 133, 186-192	2.9	58
121	Shift in soil-plant nitrogen dynamics of an alpine-bival ecotone. <i>Plant and Soil</i> , <b>2007</b> , 301, 65-76	4.2	57
120	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> , <b>2011</b> , 341, 495-504	4.2	56
119	Natural <sup>15</sup> N abundance of plants and soils under different management practices in a montane grassland. <i>Soil Biology and Biochemistry</i> , <b>2006</b> , 38, 1564-1576	7.5	56
118	No evidence of aquatic priming effects in hyporheic zone microcosms. <i>Scientific Reports</i> , <b>2014</b> , 4, 5187	4.9	55
117	Do ants feed plants? A <sup>15</sup> N labelling study of nitrogen fluxes from ants to plants in the mutualism of <i>Pheidole</i> and <i>Piper</i> . <i>Journal of Ecology</i> , <b>2003</b> , 91, 126-134	6	54
116	Physiological responses of bryophytes <i>Thuidium tamariscinum</i> and <i>Hylocomium splendens</i> to increased nitrogen deposition. <i>Annals of Botany</i> , <b>2007</b> , 99, 161-9	4.1	53

115	Natural $^{15}\text{N}$ abundance of epiphytes depends on the position within the forest canopy: source signals and isotope fractionation. <i>Plant, Cell and Environment</i> , <b>2002</b> , 25, 581-589	8.4	53
114	Community profiling and gene expression of fungal assimilatory nitrate reductases in agricultural soil. <i>ISME Journal</i> , <b>2011</b> , 5, 1771-83	11.9	52
113	Functional leaf traits of vascular epiphytes: vertical trends within the forest, intra- and interspecific trait variability, and taxonomic signals. <i>Functional Ecology</i> , <b>2016</b> , 30, 188-198	5.6	52
112	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> , <b>2018</b> , 121, 212-220	7.5	49
111	Difference in $\delta^{15}\text{N}$ signatures between nodulated roots and shoots of soybean is indicative of the contribution of symbiotic $\text{N}_2$ fixation to plant N. <i>Journal of Experimental Botany</i> , <b>2002</b> , 53, 1109-187	7	49
110	A suite of sensitive chemical methods to determine the $\delta^{15}\text{N}$ of ammonium, nitrate and total dissolved N in soil extracts. <i>Rapid Communications in Mass Spectrometry</i> , <b>2010</b> , 24, 3615-23	2.2	46
109	Evaluation of methods to measure differential $^{15}\text{N}$ labeling of soil and root N pools for studies of root exudation. <i>Rapid Communications in Mass Spectrometry</i> , <b>2004</b> , 18, 2415-25	2.2	46
108	Controls of hydrochemical fluxes via stemflow in tropical lowland rainforests: Effects of meteorology and vegetation characteristics. <i>Journal of Hydrology</i> , <b>2012</b> , 452-453, 247-258	6	43
107	Effects of stoichiometry and temperature perturbations on beech leaf litter decomposition, enzyme activities and protein expression. <i>Biogeosciences</i> , <b>2012</b> , 9, 4537-4551	4.6	43
106	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> , <b>2010</b> , 61, 1375-83	7	41
105	Biosynthesis and accumulation of D-ononitol in <i>Vigna umbellata</i> in response to drought stress. <i>Physiologia Plantarum</i> , <b>1997</b> , 101, 416-424	4.6	41
104	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> , <b>2019</b> , 135, 304-315	7.5	40
103	A novel $^{15}\text{N}$ tracer model reveals: Plant nitrate uptake governs nitrogen transformation rates in agricultural soils. <i>Soil Biology and Biochemistry</i> , <b>2013</b> , 57, 301-310	7.5	40
102	Microclimatic patterns correlate with the distribution of epiphyllous bryophytes in a tropical lowland rain forest in Costa Rica. <i>Journal of Tropical Ecology</i> , <b>2009</b> , 25, 321-330	1.3	40
101	Are vascular epiphytes nitrogen or phosphorus limited? A study of plant $(^{15}\text{N})$ N fractionation and foliar N : P stoichiometry with the tank bromeliad <i>Vriesea sanguinolenta</i> . <i>New Phytologist</i> , <b>2011</b> , 192, 462-70	9.8	39
100	Light affects competition for inorganic and organic nitrogen between maize and rhizosphere microorganisms. <i>Plant and Soil</i> , <b>2008</b> , 304, 59-72	4.2	38
99	The fate of <i>Corydalis cava</i> elaiosomes within an ant colony of <i>Myrmica rubra</i> : elaiosomes are preferentially fed to larvae. <i>Insectes Sociaux</i> , <b>2005</b> , 52, 55-62	1.5	37
98	Landscape-Scale Controls on Aboveground Forest Carbon Stocks on the Osa Peninsula, Costa Rica. <i>PLoS ONE</i> , <b>2015</b> , 10, e0126748	3.7	37

97	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> , <b>2018</b> , 123, 115-125	7.5	36
96	Long-term trends in nitrogen isotope composition and nitrogen concentration in brazilian rainforest trees suggest changes in nitrogen cycle. <i>Environmental Science &amp; Technology</i> , <b>2010</b> , 44, 1191-6	10.3	35
95	Large Canopy Exchange Fluxes of Inorganic and Organic Nitrogen and Preferential Retention of Nitrogen by Epiphytes in a Tropical Lowland Rainforest. <i>Ecosystems</i> , <b>2010</b> , 13, 367-381	3.9	35
94	Direct measurement of the in situ decomposition of microbial-derived soil organic matter. <i>Soil Biology and Biochemistry</i> , <b>2020</b> , 141, 107660	7.5	35
93	Host tree phenology affects vascular epiphytes at the physiological, demographic and community level. <i>AoB PLANTS</i> , <b>2014</b> , 7,	2.9	34
92	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> , <b>2014</b> , 177, 378-387	2.3	34
91	Greenhouse gas fluxes respond to different N fertilizer types due to altered plant-soil-microbe interactions. <i>Plant and Soil</i> , <b>2011</b> , 343, 17-35	4.2	32
90	Little effects on soil organic matter chemistry of density fractions after seven years of forest soil warming. <i>Soil Biology and Biochemistry</i> , <b>2016</b> , 103, 300-307	7.5	32
89	Microtopography and Plant-Cover Controls on Nitrogen Dynamics in Hummock Tundra Ecosystems in Siberia. <i>Arctic, Antarctic, and Alpine Research</i> , <b>2005</b> , 37, 435-443	1.8	31
88	Influence of litter chemistry and stoichiometry on glucan depolymerization during decomposition of beech ( <i>Fagus sylvatica</i> L.) litter. <i>Soil Biology and Biochemistry</i> , <b>2012</b> , 50, 174-187	7.5	30
87	The Forest Observation System, building a global reference dataset for remote sensing of forest biomass. <i>Scientific Data</i> , <b>2019</b> , 6, 198	8.2	29
86	Nitrogen nutrition during ontogeny of hemiepiphytic <i>Clusia</i> species. <i>Functional Plant Biology</i> , <b>2002</b> , 29, 733-740	2.7	29
85	Organic and inorganic nitrogen uptake by 21 dominant tree species in temperate and tropical forests. <i>Tree Physiology</i> , <b>2017</b> , 37, 1515-1526	4.2	28
84	Root-derived respiration and non-structural carbon of rice seedlings. <i>European Journal of Soil Biology</i> , <b>2008</b> , 44, 22-29	2.9	28
83	Size-Dependent Variation of Carbon and Nitrogen Isotope Abundances in Epiphytic Bromeliads. <i>Plant Biology</i> , <b>2003</b> , 5, 137-142	3.7	28
82	Oxygen isotopes in tree rings record variation in precipitation O and amount effects in the south of Mexico. <i>Journal of Geophysical Research G: Biogeosciences</i> , <b>2013</b> , 118, 1604-1615	3.7	27
81	Topography strongly affects atmospheric deposition and canopy exchange processes in different types of wet lowland rainforest, Southwest Costa Rica. <i>Biogeochemistry</i> , <b>2011</b> , 106, 371-396	3.8	27
80	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> , <b>2018</b> , 631-632, 649-659	10.2	26

79	Application of stable-isotope labelling techniques for the detection of active diazotrophs. <i>Environmental Microbiology</i> , <b>2018</b> , 20, 44-61	5.2	26
78	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> , <b>2017</b> , 89, 9192-9200	7.8	26
77	Flow history explains temporal and spatial variation of carbon fractionation in stream periphyton. <i>Limnology and Oceanography</i> , <b>2005</b> , 50, 706-712	4.8	24
76	Wide-spread limitation of soil organic nitrogen transformations by substrate availability and not by extracellular enzyme content. <i>Soil Biology and Biochemistry</i> , <b>2019</b> , 133, 37-49	7.5	23
75	A simple method for $\delta^{15}N$ and $\delta^{13}C$ labelling with N and C of grassland plant species by foliar brushing. <i>Methods in Ecology and Evolution</i> , <b>2011</b> , 2, 326-332	7.7	23
74	Use of decreasing foliar carbon isotope discrimination during water limitation as a carbon tracer to study whole plant carbon allocation. <i>Plant, Cell and Environment</i> , <b>2002</b> , 25, 609-616	8.4	23
73	A closeup study of early beech litter decomposition: potential drivers and microbial interactions on a changing substrate. <i>Plant and Soil</i> , <b>2013</b> , 371, 139-154	4.2	22
72	Carbon isotope discrimination and water use efficiency relationships of alfalfa genotypes under irrigated and rain-fed organic farming. <i>European Journal of Agronomy</i> , <b>2013</b> , 50, 82-89	5	22
71	A cost-effective high-throughput microcosm system for studying nitrogen dynamics at the plant-microbe-soil interface. <i>Plant and Soil</i> , <b>2009</b> , 317, 293-307	4.2	22
70	Nitrogen input by cyanobacterial biofilms of an inselberg into a tropical rainforest in French Guiana. <i>Flora: Morphology, Distribution, Functional Ecology of Plants</i> , <b>2007</b> , 202, 521-529	1.9	22
69	Contribution of carbonate weathering to the CO <sub>2</sub> efflux from temperate forest soils. <i>Biogeochemistry</i> , <b>2015</b> , 124, 273-290	3.8	21
68	Climatic and edaphic controls over tropical forest diversity and vegetation carbon storage. <i>Scientific Reports</i> , <b>2020</b> , 10, 5066	4.9	21
67	Sensitivity of tropical forest aboveground productivity to climate anomalies in SW Costa Rica. <i>Global Biogeochemical Cycles</i> , <b>2014</b> , 28, 1437-1454	5.9	21
66	Moss $\delta^{13}C$ : an accurate proxy for past water environments in polar regions. <i>Global Change Biology</i> , <b>2015</b> , 21, 2454-64	11.4	20
65	Spatio-temporal variations determine plant-microbe competition for inorganic nitrogen in an alpine meadow. <i>Journal of Ecology</i> , <b>2011</b> , 99, no-no	6	20
64	Contrasting adaptations to drought stress in field-grown <i>Ziziphus mauritiana</i> and <i>Prunus persica</i> trees: water relations, osmotic adjustment and carbon isotope composition. <i>Functional Plant Biology</i> , <b>2000</b> , 27, 985	2.7	20
63	Full N tracer accounting to revisit major assumptions of N isotope pool dilution approaches for gross nitrogen mineralization. <i>Soil Biology and Biochemistry</i> , <b>2018</b> , 117, 16-26	7.5	20
62	Microbial communities of arboreal and ground soils in the Esquinas rainforest, Costa Rica. <i>Plant and Soil</i> , <b>2010</b> , 329, 65-74	4.2	19



61	Canopy interactions of rainfall in an off-shore mangrove ecosystem dominated by <i>Rhizophora</i> mangle (Belize). <i>Journal of Hydrology</i> , <b>2007</b> , 345, 70-79	6	19
60	pH-Dependent Bioavailability, Speciation, and Phytotoxicity of Tungsten (W) in Soil Affect Growth and Molybdoenzyme Activity of Nodulated Soybeans. <i>Environmental Science &amp; Technology</i> , <b>2018</b> , 52, 6146-6156	10.3	18
59	Phyllosphere nitrogen relations: reciprocal transfer of nitrogen between epiphyllous liverworts and host plants in the understory of a lowland tropical wet forest in Costa Rica. <i>New Phytologist</i> , <b>2005</b> , 166, 577-88	9.8	18
58	Mode of photosynthesis during different life stages of hemiepiphytic <i>Clusia</i> species. <i>Functional Plant Biology</i> , <b>2002</b> , 29, 725-732	2.7	18
57	New insights into mechanisms driving carbon allocation in tropical forests. <i>New Phytologist</i> , <b>2015</b> , 205, 137-46	9.8	16
56	Physiological diversity and biogeography of vascular epiphytes at R̄ Changuinola, Panama. <i>Flora: Morphology, Distribution, Functional Ecology of Plants</i> , <b>2011</b> , 206, 66-79	1.9	16
55	Vertical Redistribution of Soil Organic Carbon Pools After Twenty Years of Nitrogen Addition in Two Temperate Coniferous Forests. <i>Ecosystems</i> , <b>2019</b> , 22, 379-400	3.9	14
54	Mimicking floodplain reconnection and disconnection using $^{15}\text{N}$ mesocosm incubations. <i>Biogeosciences</i> , <b>2012</b> , 9, 4263-4278	4.6	14
53	Short-term N uptake kinetics and nitrogen nutrition of bryophytes in a lowland rainforest, Costa Rica. <i>Functional Plant Biology</i> , <b>2008</b> , 35, 51-62	2.7	14
52	Composition and activity of nitrifier communities in soil are unresponsive to elevated temperature and CO <sub>2</sub> , but strongly affected by drought. <i>ISME Journal</i> , <b>2020</b> , 14, 3038-3053	11.9	14
51	Microbial decomposition of <sup>13</sup> C- labeled phytosiderophores in the rhizosphere of wheat: Mineralization dynamics and key microbial groups involved. <i>Soil Biology and Biochemistry</i> , <b>2016</b> , 98, 196-207	7.5	14
50	Metabolism of mineral-sorbed organic matter and microbial lifestyles in fluvial ecosystems. <i>Geophysical Research Letters</i> , <b>2016</b> , 43, 1582-1588	4.9	14
49	Increased temperature causes different carbon and nitrogen processing patterns in two common intertidal foraminifera ( <i>Ammonia tepida</i> and <i>Haynesina germanica</i> ). <i>Biogeosciences</i> , <b>2017</b> , 14, 2815-2829	4.6	13
48	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> , <b>2014</b> , 5, 225	5.7	13
47	N <sub>2</sub> fixation by organically grown soybean in Central Europe: Method of quantification and agronomic effects. <i>European Journal of Agronomy</i> , <b>2012</b> , 41, 11-17	5	12
46	Subsurface earthworm casts can be important soil microsites specifically influencing the growth of grassland plants. <i>Biology and Fertility of Soils</i> , <b>2013</b> , 49, 1097-1107	6.1	12
45	Effects of resource chemistry on the composition and function of stream hyporheic biofilms. <i>Frontiers in Microbiology</i> , <b>2012</b> , 3, 35	5.7	12
44	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> , <b>2016</b> , 7, 71	5.7	11



43	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> , <b>2019</b> , 130, 73-81	7.5	11
42	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> , <b>2019</b> , 2,	3.7	10
41	Quantifying microbial growth and carbon use efficiency in dry soil environments via O water vapor equilibration. <i>Global Change Biology</i> , <b>2020</b> , 26, 5333-5341	11.4	9
40	Flexibility of nitrogen metabolism in the tropical C3 crassulacean acid metabolism tree species <i>Clusia minor</i> . <i>Functional Plant Biology</i> , <b>2002</b> , 29, 741-747	2.7	9
39	Food supply and size class depending variations in phytodetritus intake in the benthic foraminifer. <i>Biology Open</i> , <b>2018</b> , 7,	2.2	8
38	Age alters uptake pattern of organic and inorganic nitrogen by rubber trees. <i>Tree Physiology</i> , <b>2018</b> , 38, 1685-1693	4.2	7
37	The relationship between N isotopic fractionation within soybean and N <sub>2</sub> fixation during soybean development. <i>Physiologia Plantarum</i> , <b>2014</b> , 152, 546-57	4.6	7
36	Effects of rhizospheric bicarbonate on net nitrate uptake and partitioning between the main nitrate utilising processes in <i>Populus canescens</i> and <i>Sambucus nigra</i> <b>2000</b> , 221, 13-24		7
35	Is local trait variation related to total range size of tropical trees?. <i>PLoS ONE</i> , <b>2018</b> , 13, e0193268	3.7	7
34	Microbial growth and carbon use efficiency show seasonal responses in a multifactorial climate change experiment. <i>Communications Biology</i> , <b>2020</b> , 3, 584	6.7	7
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32	Stable isotope signatures reflect dietary diversity in European forest moths. <i>Frontiers in Zoology</i> , <b>2016</b> , 13, 37	2.8	6
31	Mangrove Isotopic ( $\delta^{15}N$ and $\delta^{13}C$ ) Fractionation across a Nitrogen vs. Phosphorus Limitation Gradient. <i>Ecology</i> , <b>2002</b> , 83, 1065	4.6	6
30	Salinity-dependent algae uptake and subsequent carbon and nitrogen metabolisms of two intertidal foraminifera ( <i>Ammonia tepida</i> and <i>Haynesina germanica</i> ). <i>Biogeosciences</i> , <b>2020</b> , 17, 3723-3732	4.6	6
29	Recovery of aboveground biomass, species richness and composition in tropical secondary forests in SW Costa Rica. <i>Forest Ecology and Management</i> , <b>2021</b> , 479, 118580	3.9	6
28	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> , <b>2018</b> , 32, 30-37	3	5
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24	Warming and elevated CO intensify drought and recovery responses of grassland carbon allocation to soil respiration. <i>Global Change Biology</i> , <b>2021</b> , 27, 3230-3243	11.4	5
23	Denitrification is the major nitrous acid production pathway in boreal agricultural soils. <i>Communications Earth &amp; Environment</i> , <b>2021</b> , 2,	6.1	4
22	Preservation effects on isotopic signatures in benthic foraminiferal biomass. <i>Marine Micropaleontology</i> , <b>2018</b> , 144, 50-59	1.7	4
21	A novel isotope pool dilution approach to quantify gross rates of key abiotic and biological processes in the soil phosphorus cycle. <i>Biogeosciences</i> , <b>2019</b> , 16, 3047-3068	4.6	3
20	<sup>14</sup> C Dating of Early Upper Palaeolithic Human and Faunal Remains from Mladeč		3
19	Glacier forelands reveal fundamental plant and microbial controls on short-term ecosystem nitrogen retention. <i>Journal of Ecology</i> , <b>2021</b> , 109, 3710	6	3
18	Denitrification Is the Main Nitrous Oxide Source Process in Grassland Soils According to Quasi-Continuous Isotopic Analysis and Biogeochemical Modeling. <i>Global Biogeochemical Cycles</i> , <b>2020</b> , 34, e2019GB006505	5.9	2
17	Successional habitat filtering of rainforest trees is explained by potential growth more than by functional traits. <i>Functional Ecology</i> , <b>2020</b> , 34, 1438-1447	5.6	2
16	Biosynthesis and accumulation of D-ononitol in <i>Vigna umbellata</i> in response to drought stress. <i>Physiologia Plantarum</i> , <b>1997</b> , 101, 416-424	4.6	2
15	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> , <b>2021</b> , 158, 108261	7.5	2
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13	Cyanate is a low abundance but actively cycled nitrogen compound in soil. <i>Communications Earth &amp; Environment</i> , <b>2021</b> , 2,	6.1	2
12	Assessing the effect of lucerne utilization systems in the Pannonian region of Austria. <i>Archives of Agronomy and Soil Science</i> , <b>2014</b> , 60, 297-311	2	1
11	Effects of heavy elements (Pb, Cu, Zn) on algal food uptake by (Foraminifera). <i>Heliyon</i> , <b>2021</b> , 7, e08427	3.6	1
10	Consistent shift in nutritional ecology of ants reveals trophic flexibility across alpine tree-line ecotones. <i>Ecological Entomology</i> , <b>2021</b> , 46, 1082-1092	2.1	1
9	Moss $\delta^{13}C$ : Implications for subantarctic palaeohydrological reconstructions. <i>Palaeogeography, Palaeoclimatology, Palaeoecology</i> , <b>2016</b> , 453, 20-29	2.9	1
8	An unexpected source of nitrogen for root uptake: positively charged amino acids dominate soil diffusive nitrogen fluxes. <i>New Phytologist</i> , <b>2021</b> , 231, 2104-2106	9.8	1

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1	INVESTIGATION OF THE INTERACTION OF ENDOPHYTES AND POPLAR PLANTS IN IN VITRO CULTURE AND FIELD TRIALS. <i>Acta Horticulturae</i> , <b>2015</b> , 439-442	0.3	