

laurent Philippot

List of Publications by Citations

Source: <https://exaly.com/author-pdf/8837876/laurent-philippot-publications-by-citations.pdf>

Version: 2024-04-28

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

155
papers

15,503
citations

59
h-index

123
g-index

162
ext. papers

18,795
ext. citations

6.6
avg, IF

6.72
L-index

#	Paper	IF	Citations
155	Going back to the roots: the microbial ecology of the rhizosphere. <i>Nature Reviews Microbiology</i> , 2013 , 11, 789-99	22.2	1684
154	Quantitative detection of the nosZ gene, encoding nitrous oxide reductase, and comparison of the abundances of 16S rRNA, narG, nirK, and nosZ genes in soils. <i>Applied and Environmental Microbiology</i> , 2006 , 72, 5181-9	4.8	654
153	DNA extraction from soils: old bias for new microbial diversity analysis methods. <i>Applied and Environmental Microbiology</i> , 2001 , 67, 2354-9	4.8	535
152	Insights into the resistance and resilience of the soil microbial community. <i>FEMS Microbiology Reviews</i> , 2013 , 37, 112-29	15.1	529
151	Quantification of denitrifying bacteria in soils by nirK gene targeted real-time PCR. <i>Journal of Microbiological Methods</i> , 2004 , 59, 327-35	2.8	452
150	Abundance of narG, nirS, nirK, and nosZ genes of denitrifying bacteria during primary successions of a glacier foreland. <i>Applied and Environmental Microbiology</i> , 2006 , 72, 5957-62	4.8	431
149	The ecological coherence of high bacterial taxonomic ranks. <i>Nature Reviews Microbiology</i> , 2010 , 8, 523-9	22.2	406
148	Loss in microbial diversity affects nitrogen cycling in soil. <i>ISME Journal</i> , 2013 , 7, 1609-19	11.9	404
147	Relationship between N-cycling communities and ecosystem functioning in a 50-year-old fertilization experiment. <i>ISME Journal</i> , 2009 , 3, 597-605	11.9	400
146	The unaccounted yet abundant nitrous oxide-reducing microbial community: a potential nitrous oxide sink. <i>ISME Journal</i> , 2013 , 7, 417-26	11.9	369
145	Denitrifying genes in bacterial and Archaeal genomes. <i>Biochimica Et Biophysica Acta Gene Regulatory Mechanisms</i> , 2002 , 1577, 355-76		358
144	Microbes as Engines of Ecosystem Function: When Does Community Structure Enhance Predictions of Ecosystem Processes?. <i>Frontiers in Microbiology</i> , 2016 , 7, 214	5.7	321
143	Quantification of a novel group of nitrate-reducing bacteria in the environment by real-time PCR. <i>Journal of Microbiological Methods</i> , 2004 , 57, 399-407	2.8	301
142	Insights into the effect of soil pH on N ₂ O and N ₂ emissions and denitrifier community size and activity. <i>Applied and Environmental Microbiology</i> , 2010 , 76, 1870-8	4.8	297
141	Determinants of the distribution of nitrogen-cycling microbial communities at the landscape scale. <i>ISME Journal</i> , 2011 , 5, 532-42	11.9	279
140	Activity and composition of the denitrifying bacterial community respond differently to long-term fertilization. <i>Applied and Environmental Microbiology</i> , 2005 , 71, 8335-43	4.8	264
139	Ecology of Denitrifying Prokaryotes in Agricultural Soil. <i>Advances in Agronomy</i> , 2007 , 96, 249-305	7.7	253

138	Recently identified microbial guild mediates soil N ₂ O sink capacity. <i>Nature Climate Change</i> , 2014 , 4, 801-805	245
137	Importance of denitrifiers lacking the genes encoding the nitrous oxide reductase for N ₂ O emissions from soil. <i>Global Change Biology</i> , 2011 , 17, 1497-1504	11.4 237
136	Mapping field-scale spatial patterns of size and activity of the denitrifier community. <i>Environmental Microbiology</i> , 2009 , 11, 1518-26	5.2 225
135	Trait-based approaches for understanding microbial biodiversity and ecosystem functioning. <i>Frontiers in Microbiology</i> , 2014 , 5, 251	5.7 212
134	Genomics and Ecology of Novel NO-Reducing Microorganisms. <i>Trends in Microbiology</i> , 2018 , 26, 43-55	12.4 212
133	Disentangling the rhizosphere effect on nitrate reducers and denitrifiers: insight into the role of root exudates. <i>Environmental Microbiology</i> , 2008 , 10, 3082-92	5.2 203
132	Soil environmental conditions rather than denitrifier abundance and diversity drive potential denitrification after changes in land uses. <i>Global Change Biology</i> , 2011 , 17, 1975-1989	11.4 196
131	Quantification of the detrimental effect of a single primer-template mismatch by real-time PCR using the 16S rRNA gene as an example. <i>Applied and Environmental Microbiology</i> , 2008 , 74, 1660-3	4.8 185
130	Effects of management regime and plant species on the enzyme activity and genetic structure of N-fixing, denitrifying and nitrifying bacterial communities in grassland soils. <i>Environmental Microbiology</i> , 2006 , 8, 1005-16	5.2 174
129	Finding the missing link between diversity and activity using denitrifying bacteria as a model functional community. <i>Current Opinion in Microbiology</i> , 2005 , 8, 234-9	7.9 169
128	Relative abundances of proteobacterial membrane-bound and periplasmic nitrate reductases in selected environments. <i>Applied and Environmental Microbiology</i> , 2007 , 73, 5971-4	4.8 165
127	EFFECTS OF GRAZING ON MICROBIAL FUNCTIONAL GROUPS INVOLVED IN SOIL N DYNAMICS. <i>Ecological Monographs</i> , 2005 , 75, 65-80	9 164
126	Biochemical cycling in the rhizosphere having an impact on global change. <i>Plant and Soil</i> , 2009 , 321, 61-81	11.2 162
125	Molecular analysis of the nitrate-reducing community from unplanted and maize-planted soils. <i>Applied and Environmental Microbiology</i> , 2002 , 68, 6121-8	4.8 158
124	Soil carbon quality and nitrogen fertilization structure bacterial communities with predictable responses of major bacterial phyla. <i>Applied Soil Ecology</i> , 2014 , 84, 62-68	5 124
123	Ecological network analysis reveals the inter-connection between soil biodiversity and ecosystem function as affected by land use across Europe. <i>Applied Soil Ecology</i> , 2016 , 97, 112-124	5 123
122	N ₂ O production, a widespread trait in fungi. <i>Scientific Reports</i> , 2015 , 5, 9697	4.9 123
121	Do we need to understand microbial communities to predict ecosystem function? A comparison of statistical models of nitrogen cycling processes. <i>Soil Biology and Biochemistry</i> , 2014 , 68, 279-282	7.5 117

120	A plant perspective on nitrogen cycling in the rhizosphere. <i>Functional Ecology</i> , 2019 , 33, 540-552	5.6	112
119	Spatial patterns of bacterial taxa in nature reflect ecological traits of deep branches of the 16S rRNA bacterial tree. <i>Environmental Microbiology</i> , 2009 , 11, 3096-104	5.2	111
118	Differential responses of bacterial and archaeal groups at high taxonomical ranks to soil management. <i>Soil Biology and Biochemistry</i> , 2010 , 42, 1759-1765	7.5	108
117	Spatial distribution of ammonia-oxidizing bacteria and archaea across a 44-hectare farm related to ecosystem functioning. <i>ISME Journal</i> , 2011 , 5, 1213-25	11.9	106
116	Integration of biodiversity in soil quality monitoring: Baselines for microbial and soil fauna parameters for different land-use types. <i>European Journal of Soil Biology</i> , 2012 , 49, 63-72	2.9	104
115	16S rDNA analysis for characterization of denitrifying bacteria isolated from three agricultural soils. <i>FEMS Microbiology Ecology</i> , 2000 , 34, 121-128	4.3	104
114	Dissimilatory nitrate reductases in bacteria. <i>Biochimica Et Biophysica Acta Gene Regulatory Mechanisms</i> , 1999 , 1446, 1-23		92
113	Influence of maize mucilage on the diversity and activity of the denitrifying community. <i>Environmental Microbiology</i> , 2004 , 6, 301-12	5.2	87
112	Effectiveness of ecological rescue for altered soil microbial communities and functions. <i>ISME Journal</i> , 2017 , 11, 272-283	11.9	86
111	Inter-laboratory evaluation of the ISO standard 11063 "Soil quality - Method to directly extract DNA from soil samples". <i>Journal of Microbiological Methods</i> , 2011 , 84, 454-60	2.8	86
110	Structure and activity of the denitrifying community in a maize-cropped field fertilized with composted pig manure or ammonium nitrate. <i>FEMS Microbiology Ecology</i> , 2006 , 56, 119-31	4.3	86
109	Plant traits related to nitrogen uptake influence plant-microbe competition. <i>Ecology</i> , 2015 , 96, 2300-10	4.6	79
108	The diversity of the N ₂ O reducers matters for the N ₂ O:N ₂ denitrification end-product ratio across an annual and a perennial cropping system. <i>Frontiers in Microbiology</i> , 2015 , 6, 971	5.7	76
107	Characterization and transcriptional analysis of <i>Pseudomonas fluorescens</i> denitrifying clusters containing the nar, nir, nor and nos genes. <i>Biochimica Et Biophysica Acta Gene Regulatory Mechanisms</i> , 2001 , 1517, 436-40		73
106	Metagenomic and functional analyses of the consequences of reduction of bacterial diversity on soil functions and bioremediation in diesel-contaminated microcosms. <i>Scientific Reports</i> , 2016 , 6, 23012	4.9	71
105	Denitrifying bacteria in bulk and maize-rhizospheric soil: diversity and N ₂ O-reducing abilities. <i>Canadian Journal of Microbiology</i> , 2004 , 50, 469-74	3.2	70
104	Structure and activity of the nitrate-reducing community in the rhizosphere of <i>Lolium perenne</i> and <i>Trifolium repens</i> under long-term elevated atmospheric pCO ₂ . <i>FEMS Microbiology Ecology</i> , 2004 , 49, 445-54	4.3	68
103	Distribution of high bacterial taxa across the chronosequence of two alpine glacier forelands. <i>Microbial Ecology</i> , 2011 , 61, 303-12	4.4	63

102	Non-denitrifying nitrous oxide-reducing bacteria - An effective N ₂ O sink in soil. <i>Soil Biology and Biochemistry</i> , 2016 , 103, 376-379	7.5	61
101	Can differences in microbial abundances help explain enhanced N ₂ O emissions in a permanent grassland under elevated atmospheric CO ₂ ?. <i>Global Change Biology</i> , 2011 , 17, 3176-3186	11.4	60
100	Peaks of in situ N ₂ O emissions are influenced by N ₂ O-producing and reducing microbial communities across arable soils. <i>Global Change Biology</i> , 2018 , 24, 360-370	11.4	59
99	Soil environmental conditions and microbial build-up mediate the effect of plant diversity on soil nitrifying and denitrifying enzyme activities in temperate grasslands. <i>PLoS ONE</i> , 2013 , 8, e61069	3.7	59
98	Selecting cost effective and policy-relevant biological indicators for European monitoring of soil biodiversity and ecosystem function. <i>Ecological Indicators</i> , 2016 , 69, 213-223	5.8	59
97	Spatial and temporal dynamics of nitrogen fixing, nitrifying and denitrifying microbes in an unfertilized grassland soil. <i>Soil Biology and Biochemistry</i> , 2017 , 109, 214-226	7.5	57
96	Microbial succession of nitrate-reducing bacteria in the rhizosphere of <i>Poa alpina</i> across a glacier foreland in the Central Alps. <i>Environmental Microbiology</i> , 2006 , 8, 1600-12	5.2	57
95	Fitness in soil and rhizosphere of <i>Pseudomonas fluorescens</i> C7R12 compared with a C7R12 mutant affected in pyoverdine synthesis and uptake. <i>FEMS Microbiology Ecology</i> , 2000 , 34, 35-44	4.3	56
94	Influence of land-use intensity on the spatial distribution of N-cycling microorganisms in grassland soils. <i>FEMS Microbiology Ecology</i> , 2011 , 77, 95-106	4.3	54
93	Accelerated mineralisation of atrazine in maize rhizosphere soil. <i>Biology and Fertility of Soils</i> , 2002 , 36, 434-441	6.1	54
92	The establishment of an introduced community of fluorescent pseudomonads in the soil and in the rhizosphere is affected by the soil type. <i>FEMS Microbiology Ecology</i> , 1999 , 30, 163-170	4.3	53
91	Standardisation of methods in soil microbiology: progress and challenges. <i>FEMS Microbiology Ecology</i> , 2012 , 82, 1-10	4.3	51
90	Additions of maize root mucilage to soil changed the structure of the bacterial community. <i>Soil Biology and Biochemistry</i> , 2007 , 39, 1230-1233	7.5	51
89	Genetic characterization of the nitrate reducing community based on narG nucleotide sequence analysis. <i>Microbial Ecology</i> , 2003 , 46, 113-21	4.4	51
88	Direct seeding mulch-based cropping increases both the activity and the abundance of denitrifier communities in a tropical soil. <i>Soil Biology and Biochemistry</i> , 2009 , 41, 1703-1709	7.5	50
87	Characterization of denitrification gene clusters of soil bacteria via a metagenomic approach. <i>Applied and Environmental Microbiology</i> , 2009 , 75, 534-7	4.8	48
86	Response of total and nitrate-dissimilating bacteria to reduced N deposition in a spruce forest soil profile. <i>FEMS Microbiology Ecology</i> , 2009 , 67, 444-54	4.3	48
85	A methodological framework to embrace soil biodiversity. <i>Soil Biology and Biochemistry</i> , 2019 , 136, 107536	7.9	47

84	Estimation of atrazine-degrading genetic potential and activity in three French agricultural soils. <i>FEMS Microbiology Ecology</i> , 2004 , 48, 425-35	4.3	45
83	Tracking nitrate reducers and denitrifiers in the environment. <i>Biochemical Society Transactions</i> , 2005 , 33, 200-4	5.1	45
82	Involvement of nitrate reductase and pyoverdine in competitiveness of <i>Pseudomonas fluorescens</i> strain C7R12 in soil. <i>Applied and Environmental Microbiology</i> , 2001 , 67, 2627-35	4.8	45
81	Relative Contribution of nirK- and nirS- Bacterial Denitrifiers as Well as Fungal Denitrifiers to Nitrous Oxide Production from Dairy Manure Compost. <i>Environmental Science & Technology</i> , 2017 , 51, 14083-14091	10.3	44
80	Role of respiratory nitrate reductase in ability of <i>Pseudomonas fluorescens</i> YT101 to colonize the rhizosphere of maize. <i>Applied and Environmental Microbiology</i> , 2000 , 66, 4012-6	4.8	44
79	Evidence for shifts in the structure and abundance of the microbial community in a long-term PCB-contaminated soil under bioremediation. <i>Journal of Hazardous Materials</i> , 2011 , 195, 254-60	12.8	43
78	Effect of primary mild stresses on resilience and resistance of the nitrate reducer community to a subsequent severe stress. <i>FEMS Microbiology Letters</i> , 2008 , 285, 51-7	2.9	42
77	Frequent freeze-thaw cycles yield diminished yet resistant and responsive microbial communities in two temperate soils: a laboratory experiment. <i>FEMS Microbiology Ecology</i> , 2010 , 74, 323-35	4.3	41
76	Local response of bacterial densities and enzyme activities to elevated atmospheric CO ₂ and different N supply in the rhizosphere of <i>Phaseolus vulgaris</i> L.. <i>Soil Biology and Biochemistry</i> , 2008 , 40, 1225-1234	7.5	39
75	Exotic invasive plants increase productivity, abundance of ammonia-oxidizing bacteria and nitrogen availability in intermountain grasslands. <i>Journal of Ecology</i> , 2016 , 104, 994-1002	6	38
74	Cover Crop Management Practices Rather Than Composition of Cover Crop Mixtures Affect Bacterial Communities in No-Till Agroecosystems. <i>Frontiers in Microbiology</i> , 2019 , 10, 1618	5.7	37
73	16S rDNA analysis for characterization of denitrifying bacteria isolated from three agricultural soils. <i>FEMS Microbiology Ecology</i> , 2000 , 34, 121-128	4.3	37
72	Denitrification in pathogenic bacteria: for better or worst?. <i>Trends in Microbiology</i> , 2005 , 13, 191-2	12.4	36
71	Managing biotic interactions for ecological intensification of agroecosystems. <i>Frontiers in Ecology and Evolution</i> , 2014 , 2,	3.7	35
70	Experimental removal and addition of leaf litter inputs reduces nitrate production and loss in a lowland tropical forest. <i>Biogeochemistry</i> , 2013 , 113, 629-642	3.8	34
69	Use of functional genes to quantify denitrifiers in the environment. <i>Biochemical Society Transactions</i> , 2006 , 34, 101-3	5.1	34
68	Comparative genetic diversity of the narG, nosZ, and 16S rRNA genes in fluorescent pseudomonads. <i>Applied and Environmental Microbiology</i> , 2003 , 69, 1004-12	4.8	34
67	Spatial distribution of N-cycling microbial communities showed complex patterns in constructed wetland sediments. <i>FEMS Microbiology Ecology</i> , 2013 , 83, 340-51	4.3	33

66	Towards food, feed and energy crops mitigating climate change. <i>Trends in Plant Science</i> , 2011 , 16, 476-80	3.1	33
65	Differential responses of nitrate reducer community size, structure, and activity to tillage systems. <i>Applied and Environmental Microbiology</i> , 2009 , 75, 3180-6	4.8	33
64	Impact of the Maize Rhizosphere on the Genetic Structure, the Diversity and the Atrazine-degrading Gene Composition of Cultivable Atrazine-degrading Communities. <i>Plant and Soil</i> , 2006 , 282, 99-115	4.2	31
63	Frequency and diversity of nitrate reductase genes among nitrate-dissimilating <i>Pseudomonas</i> in the rhizosphere of perennial grasses grown in field conditions. <i>Microbial Ecology</i> , 2005 , 49, 63-72	4.4	31
62	Resilience of bacteria, archaea, fungi and N-cycling microbial guilds under plough and conservation tillage, to agricultural drought. <i>Soil Biology and Biochemistry</i> , 2018 , 120, 233-245	7.5	30
61	Crop cover is more important than rotational diversity for soil multifunctionality and cereal yields in European cropping systems. <i>Nature Food</i> , 2021 , 2, 28-37	14.4	30
60	Shifts in size, genetic structure and activity of the soil denitrifier community by nematode grazing. <i>European Journal of Soil Biology</i> , 2010 , 46, 112-118	2.9	29
59	Monitoring of atrazine treatment on soil bacterial, fungal and atrazine-degrading communities by quantitative competitive PCR. <i>Pest Management Science</i> , 2003 , 59, 259-68	4.6	29
58	Influence of Two Plant Species (Flax and Tomato) on the Distribution of Nitrogen Dissimilative Abilities within Fluorescent <i>Pseudomonas</i> spp. <i>Applied and Environmental Microbiology</i> , 1995 , 61, 1745-9	4.8	29
57	Genetic structure and activity of the nitrate-reducers community in the rhizosphere of different cultivars of maize. <i>Plant and Soil</i> , 2006 , 287, 177-186	4.2	28
56	The nitrification inhibitor dicyandiamide increases mineralization-immobilization turnover in slurry-amended grassland soil. <i>Journal of Agricultural Science</i> , 2014 , 152, 137-149	1	27
55	Impact of atmospheric CO ₂ and plant life forms on soil microbial activities. <i>Soil Biology and Biochemistry</i> , 2007 , 39, 33-42	7.5	27
54	A closer look at the functions behind ecosystem multifunctionality: A review. <i>Journal of Ecology</i> , 2021 , 109, 600-613	6	26
53	Functional and structural responses of soil N-cycling microbial communities to the herbicide mesotrione: a dose-effect microcosm approach. <i>Environmental Science and Pollution Research</i> , 2016 , 23, 4207-17	5.1	25
52	Abundance and activity of nitrate reducers in an arable soil are more affected by temporal variation and soil depth than by elevated atmospheric [CO ₂]. <i>FEMS Microbiology Ecology</i> , 2011 , 76, 209-19	4.3	25
51	Advantages of the metagenomic approach for soil exploration: reply from Vogel et al.. <i>Nature Reviews Microbiology</i> , 2009 , 7, 756-757	22.2	25
50	Distribution of bacteria and nitrogen-cycling microbial communities along constructed Technosol depth-profiles. <i>Journal of Hazardous Materials</i> , 2012 , 231-232, 88-97	12.8	23
49	Purification of the dissimilative nitrate reductase of <i>Pseudomonas fluorescens</i> and the cloning and sequencing of its corresponding genes. <i>Biochimica Et Biophysica Acta Gene Regulatory Mechanisms</i> , 1997 , 1350, 272-6		23

48	Taxonomic and functional characterization of microbial communities in Technosols constructed for remediation of a contaminated industrial wasteland. <i>Journal of Soils and Sediments</i> , 2012 , 12, 1396-1406 ^{3,4}	22
47	Effect of soil type and plant species on the fluorescent pseudomonads nitrate dissimilating community. <i>Plant and Soil</i> , 1999 , 209, 275-282	4.2 22
46	Nickel mine spoils revegetation attempts: effect of pioneer plants on two functional bacterial communities involved in the N-cycle. <i>Environmental Microbiology</i> , 2005 , 7, 486-98	5.2 21
45	Impact of phages on soil bacterial communities and nitrogen availability under different assembly scenarios. <i>Microbiome</i> , 2020 , 8, 52	16.6 20
44	Role of plant residues in determining temporal patterns of the activity, size, and structure of nitrate reducer communities in soil. <i>Applied and Environmental Microbiology</i> , 2010 , 76, 7136-43	4.8 19
43	Plant trait-based approaches to improve nitrogen cycling in agroecosystems. <i>Journal of Applied Ecology</i> , 2019 , 56, 2454-2466	5.8 18
42	Positive effects of plant association on rhizosphere microbial communities depend on plant species involved and soil nitrogen level. <i>Soil Biology and Biochemistry</i> , 2017 , 114, 1-4	7.5 18
41	Disruption of narG, the gene encoding the catalytic subunit of respiratory nitrate reductase, also affects nitrite respiration in <i>Pseudomonas fluorescens</i> YT101. <i>Journal of Bacteriology</i> , 1999 , 181, 5099-102 ^{3,5}	18
40	Soil functional operating range linked to microbial biodiversity and community composition using denitrifiers as model guild. <i>PLoS ONE</i> , 2012 , 7, e51962	3.7 17
39	Influence of integrated weed management system on N-cycling microbial communities and N ₂ O emissions. <i>Plant and Soil</i> , 2013 , 373, 501-514	4.2 15
38	Responses of <i>Cajanus cajan</i> and rhizospheric N-cycling communities to bioinoculants. <i>Plant and Soil</i> , 2012 , 358, 143-154	4.2 15
37	Relative involvement of nitrate and nitrite reduction in the competitiveness of <i>Pseudomonas fluorescens</i> in the rhizosphere of maize under non-limiting nitrate conditions. <i>FEMS Microbiology Ecology</i> , 2002 , 39, 121-7	4.3 15
36	Remotely sensed canopy nitrogen correlates with nitrous oxide emissions in a lowland tropical rainforest. <i>Ecology</i> , 2018 , 99, 2080-2089	4.6 15
35	Functional stability of the nitrate-reducing community in grassland soils towards high nitrate supply. <i>Soil Biology and Biochemistry</i> , 2006 , 38, 2980-2984	7.5 13
34	Domestication-driven changes in plant traits associated with changes in the assembly of the rhizosphere microbiota in tetraploid wheat. <i>Scientific Reports</i> , 2020 , 10, 12234	4.9 13
33	Effects of biosolids application on nitrogen dynamics and microbial structure in a saline-sodic soil of the former Lake Texcoco (Mexico). <i>Bioresource Technology</i> , 2010 , 101, 2491-8	11 12
32	Cereal-legume intercropping modifies the dynamics of the active rhizospheric bacterial community. <i>Rhizosphere</i> , 2017 , 3, 191-195	3.5 11
31	Physiological significance of pedospheric nitric oxide for root growth, development and organismic interactions. <i>Plant, Cell and Environment</i> , 2020 , 43, 2336-2354	8.4 11

30	Microbial Community Resilience across Ecosystems and Multiple Disturbances. <i>Microbiology and Molecular Biology Reviews</i> , 2021 , 85,	13.2	11
29	Leaf-cutter ants engineer large nitrous oxide hot spots in tropical forests. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2019 , 286, 20182504	4.4	10
28	A core microbiota of the plant-earthworm interaction conserved across soils. <i>Soil Biology and Biochemistry</i> , 2020 , 144, 107754	7.5	10
27	Abundance, activity and structure of denitrifier communities in phototrophic river biofilms (River Garonne, France). <i>Hydrobiologia</i> , 2013 , 716, 177-187	2.4	9
26	Impact of maize mucilage on atrazine mineralization and atzC abundance. <i>Pest Management Science</i> , 2005 , 61, 838-44	4.6	9
25	Unraveling negative biotic interactions determining soil microbial community assembly and functioning. <i>ISME Journal</i> , 2021 ,	11.9	9
24	Compounded Disturbance Chronology Modulates the Resilience of Soil Microbial Communities and N-Cycle Related Functions. <i>Frontiers in Microbiology</i> , 2018 , 9, 2721	5.7	8
23	Long-term impact of 19 years of farmyard manure or sewage sludge application on the structure, diversity and density of the protocatechuate-degrading bacterial community. <i>Agriculture, Ecosystems and Environment</i> , 2012 , 158, 72-82	5.7	7
22	Contribution of Bacteria to Initial Input and Cycling of Nitrogen in Soils 2005 , 159-176		7
21	Manipulating plant community composition to steer efficient N-cycling in intensively managed grasslands. <i>Journal of Applied Ecology</i> , 2021 , 58, 167-180	5.8	7
20	Soil and temperature effects on nitrification and denitrification modified N ₂ O mitigation by 3,4-dimethylpyrazole phosphate. <i>Soil Biology and Biochemistry</i> , 2021 , 157, 108224	7.5	6
19	Spatial distribution of the abundance and activity of the sulfate ester-hydrolyzing microbial community in a rape field. <i>Journal of Soils and Sediments</i> , 2012 , 12, 1360-1370	3.4	5
18	Ecotoxicological risk assessment of wastewater irrigation on soil microorganisms: Fate and impact of wastewater-borne micropollutants in lettuce-soil system. <i>Ecotoxicology and Environmental Safety</i> , 2021 , 223, 112595	7	5
17	Molecular Tools to Assess the Diversity and Density of Denitrifying Bacteria in Their Habitats 2007 , 313-330		4
16	Spatio-Temporal Variations in the Abundance and Structure of Denitrifier Communities in Sediments Differing in Nitrate Content. <i>Current Issues in Molecular Biology</i> , 2017 , 24, 71-102	2.9	4
15	Litter inputs drive patterns of soil nitrogen heterogeneity in a diverse tropical forest: Results from a litter manipulation experiment. <i>Soil Biology and Biochemistry</i> , 2021 , 158, 108247	7.5	3
14	Assessment of the resilience and resistance of remediated soils using denitrification as model process. <i>Journal of Soils and Sediments</i> , 2014 , 14, 178-182	3.4	2
13	Loss in soil microbial diversity constrains microbiome selection and alters the abundance of N-cycling guilds in barley rhizosphere. <i>Applied Soil Ecology</i> , 2022 , 169, 104224	5	2

12	Diversity of archaea and niche preferences among putative ammonia-oxidizing Nitrososphaeria dominating across European arable soils. <i>Environmental Microbiology</i> , 2021 ,	5.2	1
11	Land use in urban areas impacts the composition of soil bacterial communities involved in nitrogen cycling. A case study from Lefkosia (Nicosia) Cyprus. <i>Scientific Reports</i> , 2021 , 11, 8198	4.9	1
10	Precipitation patterns and N availability alter plant-soil microbial C and N dynamics. <i>Plant and Soil</i> , 2021 , 466, 151-163	4.2	1
9	Land-use intensification differentially affects bacterial, fungal and protist communities and decreases microbiome network complexity.. <i>Environmental Microbiomes</i> , 2022 , 17, 1	5.6	0
8	Assessment of spike-AMP and qPCR-AMP in soil microbiota quantitative research. <i>Soil Biology and Biochemistry</i> , 2022 , 166, 108570	7.5	0
7	Artificial selection of stable rhizosphere microbiota leads to heritable plant phenotype changes. <i>Ecology Letters</i> , 2022 , 25, 189-201	10	0
6	Novel virocell metabolic potential revealed in agricultural soils by virus-enriched soil metagenome analysis. <i>Environmental Microbiology Reports</i> , 2021 , 13, 348-354	3.7	0
5	Spatial analysis of the root system coupled to microbial community inoculation shed light on rhizosphere bacterial community assembly. <i>Biology and Fertility of Soils</i> , 2021 , 57, 973-989	6.1	0
4	Mixed Effects of Soil Compaction on the Nitrogen Cycle Under Pea and Wheat.. <i>Frontiers in Microbiology</i> , 2021 , 12, 822487	5.7	0
3	Biotic and abiotic predictors of potential N ₂ O emissions from denitrification in Irish grasslands soils: A national-scale field study. <i>Soil Biology and Biochemistry</i> , 2022 , 168, 108637	7.5	0
2	Structure and activity of the nitrate-reducing community in the rhizosphere of <i>Lolium perenne</i> and <i>Trifolium repens</i> under long-term elevated atmospheric pCO ₂ . <i>FEMS Microbiology Ecology</i> , 2004 , 49, 445-445	4.3	
1	Microbial trait-based approaches for agroecosystems. <i>Advances in Agronomy</i> , 2022 ,	7.7	