laurent Philippot

List of Publications by Year in Descending Order

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	Land-use intensification differentially affects bacterial, fungal and protist communities and decreases microbiome network complexity.. *Environmental Microbiomes*, **2022**, 17, 1	5.6	0
154	Assessment of spike-AMP and qPCR-AMP in soil microbiota quantitative research. *Soil Biology and Biochemistry*, **2022**, 166, 108570	7.5	0
153	Artificial selection of stable rhizosphere microbiota leads to heritable plant phenotype changes. *Ecology Letters*, **2022**, 25, 189-201	10	0
152	Loss in soil microbial diversity constrains microbiome selection and alters the abundance of N-cycling guilds in barley rhizosphere. *Applied Soil Ecology*, **2022**, 169, 104224	5	2
151	Biotic and abiotic predictors of potential N2O emissions from denitrification in Irish grasslands soils: A national-scale field study. *Soil Biology and Biochemistry*, **2022**, 168, 108637	7.5	0
150	Microbial trait-based approaches for agroecosystems. *Advances in Agronomy*, **2022**,	7.7	
149	Diversity of archaea and niche preferences among putative ammonia-oxidizing Nitrososphaeria dominating across European arable soils. *Environmental Microbiology*, **2021**,	5.2	1
148	Land use in urban areas impacts the composition of soil bacterial communities involved in nitrogen cycling. A case study from Lefkosia (Nicosia) Cyprus. *Scientific Reports*, **2021**, 11, 8198	4.9	1
147	Novel virocell metabolic potential revealed in agricultural soils by virus-enriched soil metagenome analysis. *Environmental Microbiology Reports*, **2021**, 13, 348-354	3.7	0
146	Microbial Community Resilience across Ecosystems and Multiple Disturbances. *Microbiology and Molecular Biology Reviews*, **2021**, 85,	13.2	11
145	Precipitation patterns and N availability alter plant-soil microbial C and N dynamics. *Plant and Soil*, **2021**, 466, 151-163	4.2	1
144	Soil and temperature effects on nitrification and denitrification modified N2O mitigation by 3,4-dimethylpyrazole phosphate. *Soil Biology and Biochemistry*, **2021**, 157, 108224	7.5	6
143	Unraveling negative biotic interactions determining soil microbial community assembly and functioning. *ISME Journal*, **2021**,	11.9	9
142	A closer look at the functions behind ecosystem multifunctionality: A review. *Journal of Ecology*, **2021**, 109, 600-613	6	26
141	Manipulating plant community composition to steer efficient N-cycling in intensively managed grasslands. *Journal of Applied Ecology*, **2021**, 58, 167-180	5.8	7
140	Litter inputs drive patterns of soil nitrogen heterogeneity in a diverse tropical forest: Results from a litter manipulation experiment. *Soil Biology and Biochemistry*, **2021**, 158, 108247	7.5	3
139	Spatial analysis of the root system coupled to microbial community inoculation shed light on rhizosphere bacterial community assembly. *Biology and Fertility of Soils*, **2021**, 57, 973-989	6.1	0

138	Ecotoxicological risk assessment of wastewater irrigation on soil microorganisms: Fate and impact of wastewater-borne micropollutants in lettuce-soil system. *Ecotoxicology and Environmental Safety* , **2021**, 223, 112595	7	5
137	Crop cover is more important than rotational diversity for soil multifunctionality and cereal yields in European cropping systems. *Nature Food*, **2021**, 2, 28-37	14.4	30
136	Mixed Effects of Soil Compaction on the Nitrogen Cycle Under Pea and Wheat.. *Frontiers in Microbiology*, **2021**, 12, 822487	5.7	0
135	A core microbiota of the plant-earthworm interaction conserved across soils. *Soil Biology and Biochemistry*, **2020**, 144, 107754	7.5	10
134	Physiological significance of pedospheric nitric oxide for root growth, development and organismic interactions. *Plant, Cell and Environment*, **2020**, 43, 2336-2354	8.4	11
133	Domestication-driven changes in plant traits associated with changes in the assembly of the rhizosphere microbiota in tetraploid wheat. *Scientific Reports*, **2020**, 10, 12234	4.9	13
132	Impact of phages on soil bacterial communities and nitrogen availability under different assembly scenarios. *Microbiome*, **2020**, 8, 52	16.6	20
131	Leaf-cutter ants engineer large nitrous oxide hot spots in tropical forests. *Proceedings of the Royal Society B: Biological Sciences*, **2019**, 286, 20182504	4.4	10
130	A plant perspective on nitrogen cycling in the rhizosphere. *Functional Ecology*, **2019**, 33, 540-552	5.6	112
129	Plant trait-based approaches to improve nitrogen cycling in agroecosystems. *Journal of Applied Ecology*, **2019**, 56, 2454-2466	5.8	18
128	A methodological framework to embrace soil biodiversity. *Soil Biology and Biochemistry*, **2019**, 136, 107536	7.5	47
127	Cover Crop Management Practices Rather Than Composition of Cover Crop Mixtures Affect Bacterial Communities in No-Till Agroecosystems. *Frontiers in Microbiology*, **2019**, 10, 1618	5.7	37
126	Resilience of bacteria, archaea, fungi and N-cycling microbial guilds under plough and conservation tillage, to agricultural drought. *Soil Biology and Biochemistry*, **2018**, 120, 233-245	7.5	30
125	Peaks of in situ N O emissions are influenced by N O-producing and reducing microbial communities across arable soils. *Global Change Biology*, **2018**, 24, 360-370	11.4	59
124	Genomics and Ecology of Novel NO-Reducing Microorganisms. *Trends in Microbiology*, **2018**, 26, 43-55	12.4	212
123	Compounded Disturbance Chronology Modulates the Resilience of Soil Microbial Communities and N-Cycle Related Functions. *Frontiers in Microbiology*, **2018**, 9, 2721	5.7	8
122	Remotely sensed canopy nitrogen correlates with nitrous oxide emissions in a lowland tropical rainforest. *Ecology*, **2018**, 99, 2080-2089	4.6	15
121	Effectiveness of ecological rescue for altered soil microbial communities and functions. *ISME Journal*, **2017**, 11, 272-283	11.9	86

120	Cereal-legume intercropping modifies the dynamics of the active rhizospheric bacterial community. *Rhizosphere*, **2017**, 3, 191-195	3.5	11
119	Relative Contribution of nirK- and nirS- Bacterial Denitrifiers as Well as Fungal Denitrifiers to Nitrous Oxide Production from Dairy Manure Compost. *Environmental Science & Technology*, **2017**, 51, 14083-14091	10.3	44
118	Positive effects of plant association on rhizosphere microbial communities depend on plant species involved and soil nitrogen level. *Soil Biology and Biochemistry*, **2017**, 114, 1-4	7.5	18
117	Spatial and temporal dynamics of nitrogen fixing, nitrifying and denitrifying microbes in an unfertilized grassland soil. *Soil Biology and Biochemistry*, **2017**, 109, 214-226	7.5	57
116	Spatio-Temporal Variations in the Abundance and Structure of Denitrifier Communities in Sediments Differing in Nitrate Content. *Current Issues in Molecular Biology*, **2017**, 24, 71-102	2.9	4
115	Ecological network analysis reveals the inter-connection between soil biodiversity and ecosystem function as affected by land use across Europe. *Applied Soil Ecology*, **2016**, 97, 112-124	5	123
114	Functional and structural responses of soil N-cycling microbial communities to the herbicide mesotrione: a dose-effect microcosm approach. *Environmental Science and Pollution Research*, **2016**, 23, 4207-17	5.1	25
113	Metagenomic and functional analyses of the consequences of reduction of bacterial diversity on soil functions and bioremediation in diesel-contaminated microcosms. *Scientific Reports*, **2016**, 6, 23012	4.9	71
112	Microbes as Engines of Ecosystem Function: When Does Community Structure Enhance Predictions of Ecosystem Processes?. *Frontiers in Microbiology*, **2016**, 7, 214	5.7	321
111	Exotic invasive plants increase productivity, abundance of ammonia-oxidizing bacteria and nitrogen availability in intermountain grasslands. *Journal of Ecology*, **2016**, 104, 994-1002	6	38
110	Selecting cost effective and policy-relevant biological indicators for European monitoring of soil biodiversity and ecosystem function. *Ecological Indicators*, **2016**, 69, 213-223	5.8	59
109	Non-denitrifying nitrous oxide-reducing bacteria - An effective N2O sink in soil. *Soil Biology and Biochemistry*, **2016**, 103, 376-379	7.5	61
108	N2O production, a widespread trait in fungi. *Scientific Reports*, **2015**, 5, 9697	4.9	123
107	The diversity of the N2O reducers matters for the N2O:N2 denitrification end-product ratio across an annual and a perennial cropping system. *Frontiers in Microbiology*, **2015**, 6, 971	5.7	76
106	Plant traits related to nitrogen uptake influence plant-microbe competition. *Ecology*, **2015**, 96, 2300-10	4.6	79
105	Assessment of the resilience and resistance of remediated soils using denitrification as model process. *Journal of Soils and Sediments*, **2014**, 14, 178-182	3.4	2
104	Recently identified microbial guild mediates soil N2O sink capacity. *Nature Climate Change*, **2014**, 4, 801-805	21.4	245
103	Soil carbon quality and nitrogen fertilization structure bacterial communities with predictable responses of major bacterial phyla. *Applied Soil Ecology*, **2014**, 84, 62-68	5	124

102	Managing biotic interactions for ecological intensification of agroecosystems. *Frontiers in Ecology and Evolution*, **2014**, 2,	3.7	35
101	Trait-based approaches for understanding microbial biodiversity and ecosystem functioning. *Frontiers in Microbiology*, **2014**, 5, 251	5.7	212
100	The nitrification inhibitor dicyandiamide increases mineralization–immobilization turnover in slurry-amended grassland soil. *Journal of Agricultural Science*, **2014**, 152, 137-149	1	27
99	Do we need to understand microbial communities to predict ecosystem function? A comparison of statistical models of nitrogen cycling processes. *Soil Biology and Biochemistry*, **2014**, 68, 279-282	7.5	117
98	Insights into the resistance and resilience of the soil microbial community. *FEMS Microbiology Reviews*, **2013**, 37, 112-29	15.1	529
97	Influence of integrated weed management system on N-cycling microbial communities and N2O emissions. *Plant and Soil*, **2013**, 373, 501-514	4.2	15
96	Abundance, activity and structure of denitrifier communities in phototrophic river biofilms (River Garonne, France). *Hydrobiologia*, **2013**, 716, 177-187	2.4	9
95	Going back to the roots: the microbial ecology of the rhizosphere. *Nature Reviews Microbiology*, **2013**, 11, 789-99	22.2	1684
94	The unaccounted yet abundant nitrous oxide-reducing microbial community: a potential nitrous oxide sink. *ISME Journal*, **2013**, 7, 417-26	11.9	369
93	Spatial distribution of N-cycling microbial communities showed complex patterns in constructed wetland sediments. *FEMS Microbiology Ecology*, **2013**, 83, 340-51	4.3	33
92	Experimental removal and addition of leaf litter inputs reduces nitrate production and loss in a lowland tropical forest. *Biogeochemistry*, **2013**, 113, 629-642	3.8	34
91	Loss in microbial diversity affects nitrogen cycling in soil. *ISME Journal*, **2013**, 7, 1609-19	11.9	404
90	Soil environmental conditions and microbial build-up mediate the effect of plant diversity on soil nitrifying and denitrifying enzyme activities in temperate grasslands. *PLoS ONE*, **2013**, 8, e61069	3.7	59
89	Standardisation of methods in soil microbiology: progress and challenges. *FEMS Microbiology Ecology*, **2012**, 82, 1-10	4.3	51
88	Spatial distribution of the abundance and activity of the sulfate ester-hydrolyzing microbial community in a rape field. *Journal of Soils and Sediments*, **2012**, 12, 1360-1370	3.4	5
87	Taxonomic and functional characterization of microbial communities in Technosols constructed for remediation of a contaminated industrial wasteland. *Journal of Soils and Sediments*, **2012**, 12, 1396-1406	3.4	22
86	Distribution of bacteria and nitrogen-cycling microbial communities along constructed Technosol depth-profiles. *Journal of Hazardous Materials*, **2012**, 231-232, 88-97	12.8	23
85	Integration of biodiversity in soil quality monitoring: Baselines for microbial and soil fauna parameters for different land-use types. *European Journal of Soil Biology*, **2012**, 49, 63-72	2.9	104

84	Responses of Cajanus cajan and rhizospheric N-cycling communities to bioinoculants. *Plant and Soil*, **2012**, 358, 143-154	4.2	15
83	Soil functional operating range linked to microbial biodiversity and community composition using denitrifiers as model guild. *PLoS ONE*, **2012**, 7, e51962	3.7	17
82	Long-term impact of 19 years farmyard manure or sewage sludge application on the structure, diversity and density of the protocatechuate-degrading bacterial community. *Agriculture, Ecosystems and Environment*, **2012**, 158, 72-82	5.7	7
81	Inter-laboratory evaluation of the ISO standard 11063 "Soil quality - Method to directly extract DNA from soil samples". *Journal of Microbiological Methods*, **2011**, 84, 454-60	2.8	86
80	Towards food, feed and energy crops mitigating climate change. *Trends in Plant Science*, **2011**, 16, 476-80	13.1	33
79	Importance of denitrifiers lacking the genes encoding the nitrous oxide reductase for N2O emissions from soil. *Global Change Biology*, **2011**, 17, 1497-1504	11.4	237
78	Soil environmental conditions rather than denitrifier abundance and diversity drive potential denitrification after changes in land uses. *Global Change Biology*, **2011**, 17, 1975-1989	11.4	196
77	Can differences in microbial abundances help explain enhanced N2O emissions in a permanent grassland under elevated atmospheric CO2?. *Global Change Biology*, **2011**, 17, 3176-3186	11.4	60
76	Abundance and activity of nitrate reducers in an arable soil are more affected by temporal variation and soil depth than by elevated atmospheric [CO2]. *FEMS Microbiology Ecology*, **2011**, 76, 209-19	4.3	25
75	Influence of land-use intensity on the spatial distribution of N-cycling microorganisms in grassland soils. *FEMS Microbiology Ecology*, **2011**, 77, 95-106	4.3	54
74	Determinants of the distribution of nitrogen-cycling microbial communities at the landscape scale. *ISME Journal*, **2011**, 5, 532-42	11.9	279
73	Spatial distribution of ammonia-oxidizing bacteria and archaea across a 44-hectare farm related to ecosystem functioning. *ISME Journal*, **2011**, 5, 1213-25	11.9	106
72	Evidence for shifts in the structure and abundance of the microbial community in a long-term PCB-contaminated soil under bioremediation. *Journal of Hazardous Materials*, **2011**, 195, 254-60	12.8	43
71	Distribution of high bacterial taxa across the chronosequence of two alpine glacier forelands. *Microbial Ecology*, **2011**, 61, 303-12	4.4	63
70	Frequent freeze-thaw cycles yield diminished yet resistant and responsive microbial communities in two temperate soils: a laboratory experiment. *FEMS Microbiology Ecology*, **2010**, 74, 323-35	4.3	41
69	The ecological coherence of high bacterial taxonomic ranks. *Nature Reviews Microbiology*, **2010**, 8, 523-9	22.2	406
68	Insights into the effect of soil pH on N(2)O and N(2) emissions and denitrifier community size and activity. *Applied and Environmental Microbiology*, **2010**, 76, 1870-8	4.8	297
67	Role of plant residues in determining temporal patterns of the activity, size, and structure of nitrate reducer communities in soil. *Applied and Environmental Microbiology*, **2010**, 76, 7136-43	4.8	19

66	Shifts in size, genetic structure and activity of the soil denitrifier community by nematode grazing. *European Journal of Soil Biology*, **2010**, 46, 112-118	2.9	29
65	Differential responses of bacterial and archaeal groups at high taxonomical ranks to soil management. *Soil Biology and Biochemistry*, **2010**, 42, 1759-1765	7.5	108
64	Effects of biosolids application on nitrogen dynamics and microbial structure in a saline-sodic soil of the former Lake Texcoco (Mexico). *Bioresource Technology*, **2010**, 101, 2491-8	11	12
63	Characterization of denitrification gene clusters of soil bacteria via a metagenomic approach. *Applied and Environmental Microbiology*, **2009**, 75, 534-7	4.8	48
62	Differential responses of nitrate reducer community size, structure, and activity to tillage systems. *Applied and Environmental Microbiology*, **2009**, 75, 3180-6	4.8	33
61	Direct seeding mulch-based cropping increases both the activity and the abundance of denitrifier communities in a tropical soil. *Soil Biology and Biochemistry*, **2009**, 41, 1703-1709	7.5	50
60	Biochemical cycling in the rhizosphere having an impact on global change. *Plant and Soil*, **2009**, 321, 61-81	4.2	162
59	Relationship between N-cycling communities and ecosystem functioning in a 50-year-old fertilization experiment. *ISME Journal*, **2009**, 3, 597-605	11.9	400
58	Advantages of the metagenomic approach for soil exploration: reply from Vogel et al.. *Nature Reviews Microbiology*, **2009**, 7, 756-757	22.2	25
57	Response of total and nitrate-dissimilating bacteria to reduced N deposition in a spruce forest soil profile. *FEMS Microbiology Ecology*, **2009**, 67, 444-54	4.3	48
56	Mapping field-scale spatial patterns of size and activity of the denitrifier community. *Environmental Microbiology*, **2009**, 11, 1518-26	5.2	225
55	Spatial patterns of bacterial taxa in nature reflect ecological traits of deep branches of the 16S rRNA bacterial tree. *Environmental Microbiology*, **2009**, 11, 3096-104	5.2	111
54	Disentangling the rhizosphere effect on nitrate reducers and denitrifiers: insight into the role of root exudates. *Environmental Microbiology*, **2008**, 10, 3082-92	5.2	203
53	Local response of bacterial densities and enzyme activities to elevated atmospheric CO2 and different N supply in the rhizosphere of Phaseolus vulgaris L.. *Soil Biology and Biochemistry*, **2008**, 40, 1225-1234	7.5	39
52	Quantification of the detrimental effect of a single primer-template mismatch by real-time PCR using the 16S rRNA gene as an example. *Applied and Environmental Microbiology*, **2008**, 74, 1660-3	4.8	185
51	Effect of primary mild stresses on resilience and resistance of the nitrate reducer community to a subsequent severe stress. *FEMS Microbiology Letters*, **2008**, 285, 51-7	2.9	42
50	Ecology of Denitrifying Prokaryotes in Agricultural Soil. *Advances in Agronomy*, **2007**, 96, 249-305	7.7	253
49	Impact of atmospheric CO2 and plant life forms on soil microbial activities. *Soil Biology and Biochemistry*, **2007**, 39, 33-42	7.5	27

48	Additions of maize root mucilage to soil changed the structure of the bacterial community. *Soil Biology and Biochemistry*, **2007**, 39, 1230-1233	7.5	51
47	Molecular Tools to Assess the Diversity and Density of Denitrifying Bacteria in Their Habitats **2007**, 313-330		4
46	Relative abundances of proteobacterial membrane-bound and periplasmic nitrate reductases in selected environments. *Applied and Environmental Microbiology*, **2007**, 73, 5971-4	4.8	165
45	Functional stability of the nitrate-reducing community in grassland soils towards high nitrate supply. *Soil Biology and Biochemistry*, **2006**, 38, 2980-2984	7.5	13
44	Abundance of narG, nirS, nirK, and nosZ genes of denitrifying bacteria during primary successions of a glacier foreland. *Applied and Environmental Microbiology*, **2006**, 72, 5957-62	4.8	431
43	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. *Applied and Environmental Microbiology*, **2006**, 72, 5181-9	4.8	654
42	Use of functional genes to quantify denitrifiers in the environment. *Biochemical Society Transactions*, **2006**, 34, 101-3	5.1	34
41	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. *Environmental Microbiology*, **2006**, 8, 1005-16	5.2	174
40	Microbial succession of nitrate-reducing bacteria in the rhizosphere of Poa alpina across a glacier foreland in the Central Alps. *Environmental Microbiology*, **2006**, 8, 1600-12	5.2	57
39	Structure and activity of the denitrifying community in a maize-cropped field fertilized with composted pig manure or ammonium nitrate. *FEMS Microbiology Ecology*, **2006**, 56, 119-31	4.3	86
38	Impact of the Maize Rhizosphere on the Genetic Structure, the Diversity and the Atrazine-degrading Gene Composition of Cultivable Atrazine-degrading Communities. *Plant and Soil*, **2006**, 282, 99-115	4.2	31
37	Genetic structure and activity of the nitrate-reducers community in the rhizosphere of different cultivars of maize. *Plant and Soil*, **2006**, 287, 177-186	4.2	28
36	Finding the missing link between diversity and activity using denitrifying bacteria as a model functional community. *Current Opinion in Microbiology*, **2005**, 8, 234-9	7.9	169
35	Denitrification in pathogenic bacteria: for better or worst?. *Trends in Microbiology*, **2005**, 13, 191-2	12.4	36
34	EFFECTS OF GRAZING ON MICROBIAL FUNCTIONAL GROUPS INVOLVED IN SOIL N DYNAMICS. *Ecological Monographs*, **2005**, 75, 65-80	9	164
33	Tracking nitrate reducers and denitrifiers in the environment. *Biochemical Society Transactions*, **2005**, 33, 200-4	5.1	45
32	Nickel mine spoils revegetation attempts: effect of pioneer plants on two functional bacterial communities involved in the N-cycle. *Environmental Microbiology*, **2005**, 7, 486-98	5.2	21
31	Frequency and diversity of nitrate reductase genes among nitrate-dissimilating Pseudomonas in the rhizosphere of perennial grasses grown in field conditions. *Microbial Ecology*, **2005**, 49, 63-72	4.4	31

30	Impact of maize mucilage on atrazine mineralization and atzC abundance. *Pest Management Science* , **2005**, 61, 838-44	4.6	9
29	Contribution of Bacteria to Initial Input and Cycling of Nitrogen in Soils **2005**, 159-176		7
28	Activity and composition of the denitrifying bacterial community respond differently to long-term fertilization. *Applied and Environmental Microbiology*, **2005**, 71, 8335-43	4.8	264
27	Influence of maize mucilage on the diversity and activity of the denitrifying community. *Environmental Microbiology*, **2004**, 6, 301-12	5.2	87
26	Quantification of a novel group of nitrate-reducing bacteria in the environment by real-time PCR. *Journal of Microbiological Methods*, **2004**, 57, 399-407	2.8	301
25	Structure and activity of the nitrate-reducing community in the rhizosphere of Lolium perenne and Trifolium repens under long-term elevated atmospheric pCO. *FEMS Microbiology Ecology*, **2004**, 49, 445-54	4.3	68
24	Estimation of atrazine-degrading genetic potential and activity in three French agricultural soils. *FEMS Microbiology Ecology*, **2004**, 48, 425-35	4.3	45
23	Denitrifying bacteria in bulk and maize-rhizospheric soil: diversity and N2O-reducing abilities. *Canadian Journal of Microbiology*, **2004**, 50, 469-74	3.2	70
22	Structure and activity of the nitrate-reducing community in the rhizosphere of Lolium perenne and Trifolium repens under long-term elevated atmospheric pCO2. *FEMS Microbiology Ecology*, **2004**, 49, 445-445	4.3	
21	Quantification of denitrifying bacteria in soils by nirK gene targeted real-time PCR. *Journal of Microbiological Methods*, **2004**, 59, 327-35	2.8	452
20	Genetic characterization of the nitrate reducing community based on narG nucleotide sequence analysis. *Microbial Ecology*, **2003**, 46, 113-21	4.4	51
19	Monitoring of atrazine treatment on soil bacterial, fungal and atrazine-degrading communities by quantitative competitive PCR. *Pest Management Science*, **2003**, 59, 259-68	4.6	29
18	Comparative genetic diversity of the narG, nosZ, and 16S rRNA genes in fluorescent pseudomonads. *Applied and Environmental Microbiology*, **2003**, 69, 1004-12	4.8	34
17	Denitrifying genes in bacterial and Archaeal genomes. *Biochimica Et Biophysica Acta Gene Regulatory Mechanisms*, **2002**, 1577, 355-76		358
16	Accelerated mineralisation of atrazine in maize rhizosphere soil. *Biology and Fertility of Soils*, **2002**, 36, 434-441	6.1	54
15	Relative involvement of nitrate and nitrite reduction in the competitiveness of Pseudomonas fluorescens in the rhizosphere of maize under non-limiting nitrate conditions. *FEMS Microbiology Ecology*, **2002**, 39, 121-7	4.3	15
14	Molecular analysis of the nitrate-reducing community from unplanted and maize-planted soils. *Applied and Environmental Microbiology*, **2002**, 68, 6121-8	4.8	158
13	Characterization and transcriptional analysis of Pseudomonas fluorescens denitrifying clusters containing the nar, nir, nor and nos genes. *Biochimica Et Biophysica Acta Gene Regulatory Mechanisms*, **2001**, 1517, 436-40		73

12	Involvement of nitrate reductase and pyoverdine in competitiveness of Pseudomonas fluorescens strain C7R12 in soil. *Applied and Environmental Microbiology*, **2001**, 67, 2627-35	4.8	45
11	DNA extraction from soils: old bias for new microbial diversity analysis methods. *Applied and Environmental Microbiology*, **2001**, 67, 2354-9	4.8	535
10	16S rDNA analysis for characterization of denitrifying bacteria isolated from three agricultural soils. *FEMS Microbiology Ecology*, **2000**, 34, 121-128	4.3	104
9	Fitness in soil and rhizosphere of Pseudomonas fluorescens C7R12 compared with a C7R12 mutant affected in pyoverdine synthesis and uptake. *FEMS Microbiology Ecology*, **2000**, 34, 35-44	4.3	56
8	16S rDNA analysis for characterization of denitrifying bacteria isolated from three agricultural soils. *FEMS Microbiology Ecology*, **2000**, 34, 121-128	4.3	37
7	Role of respiratory nitrate reductase in ability of Pseudomonas fluorescens YT101 to colonize the rhizosphere of maize. *Applied and Environmental Microbiology*, **2000**, 66, 4012-6	4.8	44
6	The establishment of an introduced community of fluorescent pseudomonads in the soil and in the rhizosphere is affected by the soil type. *FEMS Microbiology Ecology*, **1999**, 30, 163-170	4.3	53
5	Effect of soil type and plant species on the fluorescent pseudomonads nitrate dissimilating community. *Plant and Soil*, **1999**, 209, 275-282	4.2	22
4	Dissimilatory nitrate reductases in bacteria. *Biochimica Et Biophysica Acta Gene Regulatory Mechanisms*, **1999**, 1446, 1-23		92
3	Disruption of narG, the gene encoding the catalytic subunit of respiratory nitrate reductase, also affects nitrite respiration in Pseudomonas fluorescens YT101. *Journal of Bacteriology*, **1999**, 181, 5099-102	3.5	18
2	Purification of the dissimilative nitrate reductase of Pseudomonas fluorescens and the cloning and sequencing of its corresponding genes. *Biochimica Et Biophysica Acta Gene Regulatory Mechanisms*, **1997**, 1350, 272-6		23
1	Influence of Two Plant Species (Flax and Tomato) on the Distribution of Nitrogen Dissimilative Abilities within Fluorescent Pseudomonas spp. *Applied and Environmental Microbiology*, **1995**, 61, 1745-9	4.8	29