

Pascal Boeckx

List of Publications by Year in descending order

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Version: 2024-02-01

339
papers

18,361
citations

17405

63
h-index

19690

117
g-index

342
all docs

342
docs citations

342
times ranked

22058
citing authors

#	ARTICLE	IF	CITATIONS
1	TRY plant trait database – enhanced coverage and open access. <i>Global Change Biology</i> , 2020, 26, 119-188.	4.2	1,038
2	Biological Denitrification in Microbial Fuel Cells. <i>Environmental Science & Technology</i> , 2007, 41, 3354-3360.	4.6	739
3	Present limitations and future prospects of stable isotope methods for nitrate source identification in surface- and groundwater. <i>Water Research</i> , 2009, 43, 1159-1170.	5.3	660
4	Soil carbon storage controlled by interactions between geochemistry and climate. <i>Nature Geoscience</i> , 2015, 8, 780-783.	5.4	509
5	An integrated pan-tropical biomass map using multiple reference datasets. <i>Global Change Biology</i> , 2016, 22, 1406-1420.	4.2	469
6	Asynchronous carbon sink saturation in African and Amazonian tropical forests. <i>Nature</i> , 2020, 579, 80-87.	13.7	439
7	Assessment of the importance of dissimilatory nitrate reduction to ammonium for the terrestrial nitrogen cycle. <i>Biogeosciences</i> , 2011, 8, 1779-1791.	1.3	336
8	An estimate of the number of tropical tree species. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 7472-7477.	3.3	335
9	Factors influencing quality variation in cocoa (<i>Theobroma cacao</i>) bean flavour profile – A review. <i>Food Research International</i> , 2016, 82, 44-52.	2.9	302
10	Carbon allocation and carbon isotope fluxes in the plant-soil-atmosphere continuum: a review. <i>Biogeosciences</i> , 2011, 8, 3457-3489.	1.3	289
11	Maize biochars accelerate short-term soil nitrogen dynamics in a loamy sand soil. <i>Soil Biology and Biochemistry</i> , 2012, 55, 20-27.	4.2	289
12	Above-ground biomass and structure of 260 African tropical forests. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2013, 368, 20120295.	1.8	264
13	Use of a Bayesian isotope mixing model to estimate proportional contributions of multiple nitrate sources in surface water. <i>Environmental Pollution</i> , 2012, 161, 43-49.	3.7	220
14	Microbial community composition and rhizodeposit-carbon assimilation in differently managed temperate grassland soils. <i>Soil Biology and Biochemistry</i> , 2009, 41, 144-153.	4.2	211
15	Long-term thermal sensitivity of Earth's tropical forests. <i>Science</i> , 2020, 368, 869-874.	6.0	198
16	Effect of different biochar and fertilizer types on N ₂ O and NO emissions. <i>Soil Biology and Biochemistry</i> , 2014, 70, 244-255.	4.2	188
17	Methane Oxidation in Simulated Landfill Cover Soil Environments. <i>Environmental Science & Technology</i> , 1999, 33, 1854-1859.	4.6	179
18	Mechanisms for retention of bioavailable nitrogen in volcanic rainforest soils. <i>Nature Geoscience</i> , 2008, 1, 543-548.	5.4	179

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19	Methane Oxidation in a Neutral Landfill Cover Soil: Influence of Moisture Content, Temperature, and Nitrogen Turnover. <i>Journal of Environmental Quality</i> , 1996, 25, 178-183.	1.0	172
20	Regional Assessment of N Saturation using Foliar and Root $\delta^{15}\text{N}$. <i>Biogeochemistry</i> , 2006, 80, 143-171.	1.7	172
21	One-stage partial nitrification/anammox at 15°C on pretreated sewage: feasibility demonstration at lab-scale. <i>Applied Microbiology and Biotechnology</i> , 2013, 97, 10199-10210.	1.7	168
22	Abundance, production and stabilization of microbial biomass under conventional and reduced tillage. <i>Soil Biology and Biochemistry</i> , 2010, 42, 48-55.	4.2	166
23	Floc-based sequential partial nitrification and anammox at full scale with contrasting N ₂ O emissions. <i>Water Research</i> , 2011, 45, 2811-2821.	5.3	166
24	Methane emission from a landfill and the methane oxidising capacity of its covering soil. <i>Soil Biology and Biochemistry</i> , 1996, 28, 1397-1405.	4.2	163
25	Soil nitrogen conservation mechanisms in a pristine south Chilean <i>Nothofagus</i> forest ecosystem. <i>Soil Biology and Biochemistry</i> , 2007, 39, 2448-2458.	4.2	155
26	Isotopes for improved management of nitrate pollution in aqueous resources: review of surface water field studies. <i>Environmental Science and Pollution Research</i> , 2011, 18, 519-533.	2.7	155
27	Community shifts and carbon translocation within metabolically-active rhizosphere microorganisms in grasslands under elevated CO ₂ . <i>Biogeosciences</i> , 2007, 4, 769-779.	1.3	154
28	Phylogenetic classification of the world's tropical forests. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, 1837-1842.	3.3	144
29	Isotopic evidence for oligotrophication of terrestrial ecosystems. <i>Nature Ecology and Evolution</i> , 2018, 2, 1735-1744.	3.4	138
30	Environmental sustainability of an energy self-sufficient sewage treatment plant: Improvements through DEMON and co-digestion. <i>Water Research</i> , 2015, 74, 166-179.	5.3	128
31	Impact of a woody biochar on properties of a sandy loam soil and spring barley during a two-year field experiment. <i>European Journal of Agronomy</i> , 2015, 62, 65-78.	1.9	126
32	Sediment source fingerprinting: benchmarking recent outputs, remaining challenges and emerging themes. <i>Journal of Soils and Sediments</i> , 2020, 20, 4160-4193.	1.5	124
33	SoilTemp: A global database of near-surface temperature. <i>Global Change Biology</i> , 2020, 26, 6616-6629.	4.2	122
34	Bioconversion of fatty acids at the basis of marine food webs: insights from a compound-specific stable isotope analysis. <i>Marine Ecology - Progress Series</i> , 2012, 465, 53-67.	0.9	120
35	Methane oxidation in soils with different textures and land use. <i>Nutrient Cycling in Agroecosystems</i> , 1997, 49, 91-95.	1.1	116
36	Global maps of soil temperature. <i>Global Change Biology</i> , 2022, 28, 3110-3144.	4.2	113

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37	Nitrogen mineralization of vegetable root residues and green manures as related to their (bio)chemical composition. <i>European Journal of Agronomy</i> , 2004, 21, 161-170.	1.9	111
38	Outlook for benefits of sediment microbial fuel cells with two bioelectrodes. <i>Microbial Biotechnology</i> , 2008, 1, 446-462.	2.0	110
39	Nitrous oxide emissions from European agriculture – an analysis of variability and drivers of emissions from field experiments. <i>Biogeosciences</i> , 2013, 10, 2671-2682.	1.3	108
40	Greenhouse gas emissions from rice microcosms amended with a plant microbial fuel cell. <i>Applied Microbiology and Biotechnology</i> , 2014, 98, 3205-3217.	1.7	108
41	Aboveground biomass density models for NASA's Global Ecosystem Dynamics Investigation (GEDI) lidar mission. <i>Remote Sensing of Environment</i> , 2022, 270, 112845.	4.6	108
42	The electron donating capacity of biochar is dramatically underestimated. <i>Scientific Reports</i> , 2016, 6, 32870.	1.6	106
43	Modeling and simulation of oxygen-limited partial nitrification in a membrane-assisted bioreactor (MBR). <i>Biotechnology and Bioengineering</i> , 2004, 86, 531-542.	1.7	105
44	Conventional tree height-diameter relationships significantly overestimate aboveground carbon stocks in the Central Congo Basin. <i>Nature Communications</i> , 2013, 4, 2269.	5.8	103
45	Gross N transformation rates and net N mineralisation rates related to the C and N contents of soil organic matter fractions in grassland soils of different age. <i>Soil Biology and Biochemistry</i> , 2004, 36, 2075-2087.	4.2	97
46	Mobilization of aged and biolabile soil carbon by tropical deforestation. <i>Nature Geoscience</i> , 2019, 12, 541-546.	5.4	97
47	Biomonitoring of urban habitat quality by anatomical and chemical leaf characteristics. <i>Environmental and Experimental Botany</i> , 2009, 65, 386-394.	2.0	96
48	Inter-laboratory comparison of cryogenic water extraction systems for stable isotope analysis of soil water. <i>Hydrology and Earth System Sciences</i> , 2018, 22, 3619-3637.	1.9	92
49	Accumulation and fractionation of trace metals in a Tunisian calcareous soil amended with farmyard manure and municipal solid waste compost. <i>Journal of Hazardous Materials</i> , 2010, 176, 99-108.	6.5	91
50	Effect of altitude on biochemical composition and quality of green arabica coffee beans can be affected by shade and postharvest processing method. <i>Food Research International</i> , 2018, 105, 278-285.	2.9	91
51	Aggregate and soil organic carbon dynamics in South Chilean Andisols. <i>Biogeosciences</i> , 2005, 2, 159-174.	1.3	90
52	Influence of DCD and DMPP on soil N dynamics after incorporation of vegetable crop residues. <i>Biology and Fertility of Soils</i> , 2006, 43, 62-68.	2.3	87
53	Isotope fractionation during root water uptake by <i>Acacia caven</i> is enhanced by arbuscular mycorrhizas. <i>Plant and Soil</i> , 2019, 441, 485-497.	1.8	87
54	Functional role of DNRA and nitrite reduction in a pristine south Chilean <i>Nothofagus</i> forest. <i>Biogeochemistry</i> , 2008, 90, 243-258.	1.7	82

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55	Influence of growing altitude, shade and harvest period on quality and biochemical composition of Ethiopian specialty coffee. <i>Journal of the Science of Food and Agriculture</i> , 2017, 97, 2849-2857.	1.7	81
56	Carbon stock changes and carbon sequestration potential of Flemish cropland soils. <i>Global Change Biology</i> , 2003, 9, 1193-1203.	4.2	80
57	Temporal and spatial patterns of denitrification enzyme activity and nitrous oxide fluxes in three adjacent vegetated riparian buffer zones. <i>Biology and Fertility of Soils</i> , 2004, 40, 243-251.	2.3	80
58	Pan-tropical prediction of forest structure from the largest trees. <i>Global Ecology and Biogeography</i> , 2018, 27, 1366-1383.	2.7	78
59	Estimates of N ₂ O and CH ₄ fluxes from agricultural lands in various regions in Europe. <i>Nutrient Cycling in Agroecosystems</i> , 2001, 60, 35-47.	1.1	75
60	Evaluation of biocathodes in freshwater and brackish sediment microbial fuel cells. <i>Applied Microbiology and Biotechnology</i> , 2010, 87, 1675-1687.	1.7	75
61	Nitrogen deposition promotes the production of new fungal residues but retards the decomposition of old residues in forest soil fractions. <i>Global Change Biology</i> , 2014, 20, 327-340.	4.2	72
62	Temporal evolution of biochar's impact on soil nitrogen processes – a ¹⁵ N tracing study. <i>GCB Bioenergy</i> , 2015, 7, 635-645.	2.5	71
63	Prediction of specialty coffee cup quality based on near infrared spectra of green coffee beans. <i>Talanta</i> , 2016, 150, 367-374.	2.9	67
64	Affinities in C3 <i>Cyperus</i> lineages (Cyperaceae) revealed using molecular phylogenetic data and carbon isotope analysis. <i>Botanical Journal of the Linnean Society</i> , 2011, 167, 19-46.	0.8	65
65	High aboveground carbon stock of African tropical montane forests. <i>Nature</i> , 2021, 596, 536-542.	13.7	65
66	Phosphorus resource partitioning shapes phosphorus acquisition and plant species abundance in grasslands. <i>Nature Plants</i> , 2017, 3, 16224.	4.7	63
67	Long-term effects of mineral versus organic fertilizers on activity and structure of the methanotrophic community in agricultural soils. <i>Environmental Microbiology</i> , 2003, 5, 867-877.	1.8	62
68	Throughfall deposition and canopy exchange processes along a vertical gradient within the canopy of beech (<i>Fagus sylvatica</i> L.) and Norway spruce (<i>Picea abies</i> (L.) Karst). <i>Science of the Total Environment</i> , 2012, 420, 168-182.	3.9	62
69	Soil microbial CNP and respiration responses to organic matter and nutrient additions: Evidence from a tropical soil incubation. <i>Soil Biology and Biochemistry</i> , 2018, 122, 141-149.	4.2	62
70	Drivers of increased soil erosion in East Africa's agro-pastoral systems: changing interactions between the social, economic and natural domains. <i>Regional Environmental Change</i> , 2019, 19, 1909-1921.	1.4	62
71	Improving the management of nitrate pollution in water by the use of isotope monitoring: the ¹⁵ N, ¹⁸ O and ¹¹ B triptych. <i>Isotopes in Environmental and Health Studies</i> , 2013, 49, 29-47.	0.5	60
72	Foliar Nitrogen Uptake from Wet Deposition and the Relation with Leaf Wettability and Water Storage Capacity. <i>Water, Air, and Soil Pollution</i> , 2011, 219, 43-57.	1.1	58

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73	Soil erosion in East Africa: an interdisciplinary approach to realising pastoral land management change. <i>Environmental Research Letters</i> , 2018, 13, 124014.	2.2	58
74	Liana and tree below-ground water competition—evidence for water resource partitioning during the dry season. <i>Tree Physiology</i> , 2018, 38, 1071-1083.	1.4	58
75	Stable carbon isotope analysis of different tissues of beef animals in relation to their diet. <i>Rapid Communications in Mass Spectrometry</i> , 2004, 18, 1227-1232.	0.7	57
76	Sources and behaviour of nitrogen compounds in the shallow groundwater of agricultural areas (Poyang Lake basin, China). <i>Journal of Contaminant Hydrology</i> , 2017, 202, 59-69.	1.6	57
77	A deconvolutional Bayesian mixing model approach for river basin sediment source apportionment. <i>Scientific Reports</i> , 2018, 8, 13073.	1.6	57
78	Use of principal component analysis to assess factors controlling net N mineralization in deciduous and coniferous forest soils. <i>Biology and Fertility of Soils</i> , 2002, 36, 93-101.	2.3	56
79	Strong gradients in nitrogen and carbon stocks at temperate forest edges. <i>Forest Ecology and Management</i> , 2016, 376, 45-58.	1.4	56
80	Global patterns of nitrate isotope composition in rivers and adjacent aquifers reveal reactive nitrogen cascading. <i>Communications Earth & Environment</i> , 2021, 2, .	2.6	56
81	Title is missing!. <i>Nutrient Cycling in Agroecosystems</i> , 2001, 60, 23-34.	1.1	55
82	Nitrous oxide production from an ultisol of the humid tropics treated with different nitrogen sources and moisture regimes. <i>Biology and Fertility of Soils</i> , 2002, 36, 59-65.	2.3	55
83	Evolution of the $\delta^{13}\text{C}$ signature related to total carbon contents and carbon decomposition rate constants in a soil profile under grassland. <i>Rapid Communications in Mass Spectrometry</i> , 2002, 16, 2184-2189.	0.7	55
84	Clay composition and properties in termite mounds of the Lubumbashi area, D.R. Congo. <i>Geoderma</i> , 2013, 192, 304-315.	2.3	55
85	Biocathodic Nitrous Oxide Removal in Bioelectrochemical Systems. <i>Environmental Science & Technology</i> , 2011, 45, 10557-10566.	4.6	54
86	Kinetics of amino sugar formation from organic residues of different quality. <i>Soil Biology and Biochemistry</i> , 2013, 57, 814-821.	4.2	54
87	Soil properties influencing the denitrification potential of Flemish agricultural soils. <i>Biology and Fertility of Soils</i> , 2003, 38, 358-366.	2.3	52
88	The origin of carbonates in termite mounds of the Lubumbashi area, D.R. Congo. <i>Geoderma</i> , 2011, 165, 95-105.	2.3	52
89	Identifying the sources of nitrate contamination using a combined dual isotope, chemical and Bayesian model approach in a tropical agricultural river: Case study in the Mun River, Thailand. <i>Science of the Total Environment</i> , 2021, 760, 143938.	3.9	52
90	Litterfall and leaf litter decomposition in a central African tropical mountain forest and Eucalyptus plantation. <i>Forest Ecology and Management</i> , 2014, 326, 109-116.	1.4	51

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91	Nitrate-reducing, sulfide-oxidizing bacteria as microbial oxidants for rapid biological sulfide removal. <i>FEMS Microbiology Ecology</i> , 2009, 67, 151-161.	1.3	50
92	Using $\delta^{15}\text{N}$ and $\delta^{18}\text{O}$ values to identify sources of nitrate in karstic springs in the Paris basin (France). <i>Applied Geochemistry</i> , 2013, 35, 230-243.	1.4	50
93	Soil $\delta^{15}\text{N}$ patterns in old-growth forests of southern Chile as integrator for N-cycling. <i>Isotopes in Environmental and Health Studies</i> , 2005, 41, 249-259.	0.5	49
94	Advances in ^{15}N -tracing experiments: new labelling and data analysis approaches. <i>Biochemical Society Transactions</i> , 2011, 39, 279-283.	1.6	49
95	Quantifying nitrate retention processes in a riparian buffer zone using the natural abundance of ^{15}N in NO_3^- . <i>Rapid Communications in Mass Spectrometry</i> , 2003, 17, 2597-2604.	0.7	47
96	The age of large termite mounds – radiocarbon dating of <i>Macrotermes falciger</i> mounds of the Miombo woodland of Katanga, DR Congo. <i>Palaeogeography, Palaeoclimatology, Palaeoecology</i> , 2015, 435, 265-271.	1.0	47
97	Increased fungal dominance in N_2O emission hotspots along a natural pH gradient in organic forest soil. <i>Biology and Fertility of Soils</i> , 2013, 49, 715-721.	2.3	46
98	Methodological perspectives on the application of compound-specific stable isotope fingerprinting for sediment source apportionment. <i>Journal of Soils and Sediments</i> , 2017, 17, 1537-1553.	1.5	46
99	High fire-derived nitrogen deposition on central African forests. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, 549-554.	3.3	46
100	Short- and medium-term effects of NH_4^+ on CH_4 and N_2O fluxes in arable soils with a different texture. <i>Soil Biology and Biochemistry</i> , 2002, 34, 669-678.	4.2	45
101	Mitigation of N_2O and CH_4 Emission from Rice and Wheat Cropping Systems Using Dicyandiamide and Hydroquinone. <i>Nutrient Cycling in Agroecosystems</i> , 2005, 72, 41-49.	1.1	45
102	Direct measurement of denitrification activity in a Gulf coast freshwater marsh receiving diverted Mississippi River water. <i>Chemosphere</i> , 2006, 65, 2449-2455.	4.2	45
103	N_2O emission from conventional and minimum-tilled soils. <i>Biology and Fertility of Soils</i> , 2008, 44, 863-873.	2.3	45
104	Nitric Oxide Production by the Human Intestinal Microbiota by Dissimilatory Nitrate Reduction to Ammonium. <i>Journal of Biomedicine and Biotechnology</i> , 2009, 2009, 1-10.	3.0	45
105	In situ gross nitrogen transformations differ between temperate deciduous and coniferous forest soils. <i>Biogeochemistry</i> , 2012, 108, 259-277.	1.7	44
106	Spatial Distribution of Carbon Stored in Forests of the Democratic Republic of Congo. <i>Scientific Reports</i> , 2017, 7, 15030.	1.6	44
107	Effect of ammonium and nitrate application on the NO and N_2O emission out of different soils. <i>Plant and Soil</i> , 1996, 181, 153-162.	1.8	43
108	Development and evaluation of a high-performance liquid chromatography/isotope ratio mass spectrometry methodology for $\delta^{13}\text{C}$ analyses of amino sugars in soil. <i>Rapid Communications in Mass Spectrometry</i> , 2009, 23, 2519-2526.	0.7	43

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109	Bacteria contribute to Artemia nutrition in algae-limited conditions: A laboratory study. <i>Aquaculture</i> , 2013, 388-391, 1-7.	1.7	43
110	Model performance of tree height-diameter relationships in the central Congo Basin. <i>Annals of Forest Science</i> , 2017, 74, 1.	0.8	43
111	Hydraulic redistribution of foliar absorbed water causes turgor-driven growth in mangrove seedlings. <i>Plant, Cell and Environment</i> , 2019, 42, 2437-2447.	2.8	43
112	Translocation and turnover of rhizodeposit carbon within soil microbial communities of an extensive grassland ecosystem. <i>Plant and Soil</i> , 2014, 376, 61-73.	1.8	42
113	Short-Term Effect of Feedstock and Pyrolysis Temperature on Biochar Characteristics, Soil and Crop Response in Temperate Soils. <i>Agronomy</i> , 2014, 4, 52-73.	1.3	41
114	Reconciling biodiversity and carbon stock conservation in an Afrotropical forest landscape. <i>Science Advances</i> , 2018, 4, eaar6603.	4.7	40
115	Minireview: The Potential of Enhanced Manganese Redox Cycling for Sediment Oxidation. <i>Geomicrobiology Journal</i> , 2007, 24, 547-558.	1.0	39
116	Boron isotope ratio ($\delta^{11}\text{B}$) measurements in Water Framework Directive monitoring programs: comparison between double focusing sector field ICP and thermal ionization mass spectrometry. <i>Journal of Analytical Atomic Spectrometry</i> , 2010, 25, 964.	1.6	39
117	Short-term effect of tillage intensity on N ₂ O and CO ₂ emissions. <i>Agronomy for Sustainable Development</i> , 2011, 31, 453-461.	2.2	39
118	Contrasting nitrogen fluxes in African tropical forests of the Congo Basin. <i>Ecological Monographs</i> , 2019, 89, e01342.	2.4	39
119	Impact of hemiparasitic <i>Rhinanthus angustifolius</i> and <i>R. minor</i> on nitrogen availability in grasslands. <i>Plant and Soil</i> , 2008, 311, 255-268.	1.8	38
120	Wetland vegetation distribution modelling for the identification of constraining environmental variables. <i>Landscape Ecology</i> , 2008, 23, 1049-1065.	1.9	38
121	Plant and soil microbe responses to light, warming and nitrogen addition in a temperate forest. <i>Functional Ecology</i> , 2018, 32, 1293-1303.	1.7	38
122	Importance of correct B value determination to quantify biological N ₂ fixation and N balances of faba beans (<i>Vicia faba</i> L.) via ^{15}N natural abundance. <i>Biology and Fertility of Soils</i> , 2014, 50, 517-525.	2.3	37
123	Functional community structure of African monodominant <i>Gilbertiodendron dewevrei</i> forest influenced by local environmental filtering. <i>Ecology and Evolution</i> , 2017, 7, 295-304.	0.8	37
124	Resistance of African tropical forests to an extreme climate anomaly. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	3.3	37
125	The influence of land use and pesticides on methane oxidation in some Belgian soils. <i>Biology and Fertility of Soils</i> , 1998, 27, 293-298.	2.3	36
126	Dinitrogen and nitrous oxide exchanges from an undrained monolith fen: short-term responses following nitrate addition. <i>European Journal of Soil Science</i> , 2010, 61, 662-670.	1.8	36

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127	A robust nitrifying community in a bioreactor at 50 °C opens up the path for thermophilic nitrogen removal. <i>ISME Journal</i> , 2016, 10, 2293-2303.	4.4	36
128	Differentiating the geographical origin of Ethiopian coffee using XRF- and ICP-based multi-element and stable isotope profiling. <i>Food Chemistry</i> , 2019, 290, 295-307.	4.2	36
129	Determining tributary sources of increased sedimentation in East-African Rift Lakes. <i>Science of the Total Environment</i> , 2020, 717, 137266.	3.9	36
130	Drying and rewetting effects on N cycling in grassland soils of varying microbial community composition and management intensity in south central Chile. <i>Applied Soil Ecology</i> , 2011, 48, 270-279.	2.1	35
131	Classification of Nitrate Polluting Activities through Clustering of Isotope Mixing Model Outputs. <i>Journal of Environmental Quality</i> , 2013, 42, 1486-1497.	1.0	35
132	Atmospheric deposition of elements and its relevance for nutrient budgets of tropical forests. <i>Biogeochemistry</i> , 2020, 149, 175-193.	1.7	35
133	Microbial Protein out of Thin Air: Fixation of Nitrogen Gas by an Autotrophic Hydrogen-Oxidizing Bacterial Enrichment. <i>Environmental Science & Technology</i> , 2020, 54, 3609-3617.	4.6	35
134	Spatial patterns of $\delta^{13}C$ and $\delta^{15}N$ in the urban topsoil of Gent, Belgium. <i>Organic Geochemistry</i> , 2006, 37, 1383-1393.	0.9	34
135	Phospholipid ^{13}C stable isotopic probing during decomposition of wheat residues. <i>Applied Soil Ecology</i> , 2016, 98, 65-74.	2.1	34
136	Sustained nitrite accumulation in a membrane-assisted bioreactor (MBR) for the treatment of ammonium-rich wastewater. <i>Journal of Chemical Technology and Biotechnology</i> , 2003, 78, 412-419.	1.6	33
137	Vegetation composition and soil microbial community structural changes along a wetland hydrological gradient. <i>Hydrology and Earth System Sciences</i> , 2008, 12, 277-291.	1.9	33
138	Facultative nitrogen fixation by legumes in the central Congo basin is downregulated during late successional stages. <i>Biotropica</i> , 2016, 48, 281-284.	0.8	33
139	Causes and consequences of pronounced variation in the isotope composition of plant xylem water. <i>Biogeosciences</i> , 2020, 17, 4853-4870.	1.3	33
140	Characterization of soil organic matter fractions from grassland and cultivated soils via C content and $\delta^{13}C$ signature. <i>Rapid Communications in Mass Spectrometry</i> , 2002, 16, 2157-2164.	0.7	32
141	Urease and nitrification inhibitors to reduce emissions of CH ₄ and N ₂ O in rice production. <i>Nutrient Cycling in Agroecosystems</i> , 2002, 64, 203-211.	1.1	32
142	Critical assessment of the applicability of gas chromatography-combustion-isotope ratio mass spectrometry to determine amino sugar dynamics in soil. <i>Rapid Communications in Mass Spectrometry</i> , 2009, 23, 1201-1211.	0.7	32
143	Comparison of the silver nitrate and bacterial denitrification methods for the determination of nitrogen and oxygen isotope ratios of nitrate in surface water. <i>Rapid Communications in Mass Spectrometry</i> , 2010, 24, 833-840.	0.7	32
144	Retention of Dissolved Inorganic Nitrogen by Foliage and Twigs of Four Temperate Tree Species. <i>Ecosystems</i> , 2012, 15, 1093-1107.	1.6	32

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145	Termites Facilitate Methane Oxidation and Shape the Methanotrophic Community. <i>Applied and Environmental Microbiology</i> , 2013, 79, 7234-7240.	1.4	32
146	Pathway of nitrous oxide consumption in isolated <i>Pseudomonas stutzeri</i> strains under anoxic and oxic conditions. <i>Environmental Microbiology</i> , 2014, 16, 3143-3152.	1.8	32
147	Emission of N ₂ O from rye grass (<i>Lolium perenne</i> L.). <i>Biology and Fertility of Soils</i> , 1999, 28, 393-396.	2.3	31
148	Evaluating the potential of full-waveform lidar for mapping pan-tropical tree species richness. <i>Global Ecology and Biogeography</i> , 2020, 29, 1799-1816.	2.7	31
149	Screening organic biological wastes for their potential to manipulate the N release from N-rich vegetable crop residues in soil. <i>Agriculture, Ecosystems and Environment</i> , 2005, 111, 81-92.	2.5	30
150	Do nitrogen isotope patterns reflect microbial colonization of soil organic matter fractions?. <i>Biology and Fertility of Soils</i> , 2008, 44, 955-964.	2.3	30
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