Roland Bol

List of Publications by Year
in descending order

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		22153	29157
280	14,438	59	104
papers	citations	h-index	g-index

299	299	299	13210
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	A Review of Biochar and Its Use and Function in Soil. Advances in Agronomy, 2010, 105, 47-82.	5.2	1,490
2	Î´13C values of soil organic carbon and their use in documenting vegetation change in a subtropical savanna ecosystem. Geoderma, 1998, 82, 5-41.	5.1	445
3	SOIL MICROBES COMPETE EFFECTIVELY WITH PLANTS FOR ORGANIC-NITROGEN INPUTS TO TEMPERATE GRASSLANDS. Ecology, 2003, 84, 1277-1287.	3.2	313
4	Towards a global-scale soil climate mitigation strategy. Nature Communications, 2020, 11, 5427.	12.8	302
5	Chapter 6 Combining Biomarker with Stable Isotope Analyses for Assessing the Transformation and Turnover of Soil Organic Matter. Advances in Agronomy, 2008, , 155-250.	5.2	300
6	Molecular dynamics of organic matter in a cultivated soil. Organic Geochemistry, 2002, 33, 357-366.	1.8	299
7	Innovative methods in soil phosphorus research: A review. Journal of Plant Nutrition and Soil Science, 2015, 178, 43-88.	1.9	256
8	Sources and mechanisms of priming effect induced in two grassland soils amended with slurry and sugar. Soil Biology and Biochemistry, 2006, 38, 747-758.	8.8	240
9	PREFERENCES FOR DIFFERENT NITROGEN FORMS BY COEXISTING PLANT SPECIES AND SOIL MICROBES. Ecology, 2007, 88, 989-999.	3.2	237
10	Preferential uptake of soil nitrogen forms by grassland plant species. Oecologia, 2005, 142, 627-635.	2.0	222
11	Climatic influences on the leaching of dissolved organic matter from upland UK moorland soils, investigated by a field manipulation experiment. Environment International, 1999, 25, 83-95.	10.0	210
12	Heterotrophic microbial communities use ancient carbon following glacial retreat. Biology Letters, 2007, 3, 487-490.	2.3	201
13	Carbon isotopic composition of branched tetraether membrane lipids in soils suggest a rapid turnover and a heterotrophic life style of their source organism(s). Biogeosciences, 2010, 7, 2959-2973.	3.3	145
14	Organic phosphorus in the terrestrial environment: a perspective on the state of the art and future priorities. Plant and Soil, 2018, 427, 191-208.	3.7	145
15	Land use and soil factors affecting accumulation of phosphorus species in temperate soils. Geoderma, 2015, 257-258, 29-39.	5.1	133
16	Molecular insight into soil carbon turnover. , 1999, 13, 1278-1283.		128
17	Dissolved and colloidal phosphorus fluxes in forest ecosystemsâ€"an almost blind spot in ecosystem research. Journal of Plant Nutrition and Soil Science, 2016, 179, 425-438.	1.9	125
18	Post-glacial variations in distributions, 13C and 14C contents of aliphatic hydrocarbons and bulk organic matter in three types of British acid upland soils. Organic Geochemistry, 1996, 24, 273-287.	1.8	124

#	Article	IF	Citations
19	Stable isotope (13C,15N and34S) analysis of the hair of modern humans and their domestic animals. Rapid Communications in Mass Spectrometry, 2002, 16, 2195-2200.	1.5	124
20	The natural abundance of13C,15N,34S and14C in archived (1923-2000) plant and soil samples from the Askov long-term experiments on animal manure and mineral fertilizer. Rapid Communications in Mass Spectrometry, 2005, 19, 3216-3226.	1.5	122
21	Rapid intrinsic rates of amino acid biodegradation in soils are unaffected by agricultural management strategy. Soil Biology and Biochemistry, 2005, 37, 1267-1275.	8.8	121
22	Do plant species with different growth strategies vary in their ability to compete with soil microbes for chemical forms of nitrogen?. Soil Biology and Biochemistry, 2008, 40, 228-237.	8.8	119
23	Recovering Phosphorus from Soil: A Root Solution?. Environmental Science & Technology, 2012, 46, 1977-1978.	10.0	116
24	Phosphorus Solubilization and Potential Transfer to Surface Waters from the Soil Microbial Biomass Following Dryingâ€“Rewetting and Freezingâ€“Thawing. Advances in Agronomy, 2010, 106, 1-35.	5.2	115
25	Not poles apart: Antarctic soil fungal communities show similarities to those of the distant Arctic. Ecology Letters, 2016, 19, 528-536.	6.4	109
26	Quantification of soil carbon inputs under elevated CO2: C3 plants in a C4 soil. Plant and Soil, 1995, 187, 345-350.	3.7	106
27	Extensive Management Promotes Plant and Microbial Nitrogen Retention in Temperate Grassland. PLoS ONE, 2012, 7, e51201.	2.5	105
28	Dissolved organic matter and its parent organic matter in grass upland soil horizons studied by analytical pyrolysis techniques. European Journal of Soil Science, 1998, 49, 1-15.	3.9	104
29	Advances in the understanding of nutrient dynamics and management in UK agriculture. Science of the Total Environment, 2012, 434, 39-50.	8.0	101
30	Molecular turnover time of soil organic matter in particleâ€size fractions of an arable soil. Rapid Communications in Mass Spectrometry, 2009, 23, 2551-2558.	1.5	99
31	Nitrification inhibitors mitigate N2O emissions more effectively under straw-induced conditions favoring denitrification. Soil Biology and Biochemistry, 2017, 104, 197-207.	8.8	98
32	Effect of biochar origin and soil pH on greenhouse gas emissions from sandy and clay soils. Applied Soil Ecology, 2018, 129, 121-127.	4.3	98
33	Challenges of Reducing Phosphorus Based Water Eutrophication in the Agricultural Landscapes of Northwest Europe. Frontiers in Marine Science, 2018, 5, .	2.5	91
34	Amino acids as a nitrogen source in temperate upland grasslands: the use of dual labelled (13C,15N) glycine to test for direct uptake by dominant grasses. Rapid Communications in Mass Spectrometry, 2000, 14, 1351-1355.	1.5	90
35	Influence of microbial activity on plantâ€“microbial competition for organic and inorganic nitrogen. Plant and Soil, 2006, 289, 321-334.	3.7	89
36	The influence of soil processes on carbon isotope distribution and turnover in the British uplands. European Journal of Soil Science, 1999, 50, 41-51.	3.9	88

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37	Straw incorporation increases crop yield and soil organic carbon sequestration but varies under different natural conditions and farming practices in China: a system analysis. Biogeosciences, 2018, 15, 1933-1946.	3.3	88
38	Absence of carbon isotope fractionation of individual n-alkanes in a 23-year field decomposition experiment with Calluna vulgaris. Organic Geochemistry, 1997, 26, 497-501.	1.8	86
39	Tracing dung-derived carbon in temperate grassland using 13C natural abundance measurements. Soil Biology and Biochemistry, 2000, 32, 1337-1343.	8.8	84
40	Recent vegetation changes in central Queensland, Australia: Evidence from Î´13C and 14C analyses of soil organic matter. Geoderma, 2005, 126, 241-259.	5.1	84
41	Short-term effects of dairy slurry amendment on carbon sequestration and enzyme activities in a temperate grassland. Soil Biology and Biochemistry, 2003, 35, 1411-1421.	8.8	83
42	Quantification of priming and CO2 respiration sources following slurry-C incorporation into two grassland soils with different C content. Rapid Communications in Mass Spectrometry, 2003, 17, 2585-2590.	1.5	81
43	The TERENOâ€Rur Hydrological Observatory: A Multiscale Multiâ€Compartment Research Platform for the Advancement of Hydrological Science. Vadose Zone Journal, 2018, 17, 1-22.	2.2	81
44	Soil organic matter priming and carbon balance after straw addition is regulated by long-term fertilization. Soil Biology and Biochemistry, 2019, 135, 383-391.	8.8	81
45	Effect of antecedent soil moisture conditions on emissions and isotopologue distribution of N2O during denitrification. Soil Biology and Biochemistry, 2011, 43, 240-250.	8.8	78
46	Recalcitrant soil organic materials mineralize more efficiently at higher temperatures. Journal of Plant Nutrition and Soil Science, 2003, 166, 300-307.	1.9	77
47	Free amino sugar reactions in soil in relation to soil carbon and nitrogen cycling. Soil Biology and Biochemistry, 2007, 39, 3081-3092.	8.8	74
48	Leaching of natural colloids from forest topsoils and their relevance for phosphorus mobility. Science of the Total Environment, 2018, 634, 305-315.	8.0	74
49	Diurnal fluxes and the isotopomer ratios of N2O in a temperate grassland following urine amendment. Rapid Communications in Mass Spectrometry, 2001, 15, 1263-1269.	1.5	73
50	Dual isotope and isotopomer ratios of N2O emitted from a temperate grassland soil after fertiliser application. Rapid Communications in Mass Spectrometry, 2003, 17, 2550-2556.	1.5	73
51	Processes affecting transfer of sediment and colloids, with associated phosphorus, from intensively farmed grasslands: an overview of key issues. Hydrological Processes, 2006, 20, 4407-4413.	2.6	73
52	Longâ€term management changes topsoil and subsoil organic carbon and nitrogen dynamics in a temperate agricultural system. European Journal of Soil Science, 2016, 67, 421-430.	3.9	72
53	Coupled incorporation of maize (Zea mays L.) straw with nitrogen fertilizer increased soil organic carbon in Fluvic Cambisol. Geoderma, 2017, 304, 19-27.	5.1	72
54	Clear-cutting of a Norway spruce stand: implications for controls on the dynamics of dissolved organic matter in the forest floor. European Journal of Soil Science, 2004, 55, 401-413.	3.9	71

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55	Agricultural sustainable intensification improved nitrogen use efficiency and maintained high crop yield during 1980â€“2014 in Northern China. Science of the Total Environment, 2017, 596-597, 61-68.	8.0	71
56	The effect of nitrification inhibitor on N2O, NO and N2 emissions under different soil moisture levels in a permanent grassland soil. Soil Biology and Biochemistry, 2017, 113, 153-160.	8.8	69
57	The 14C age and residence time of organic matter and its lipid constituents in a stagnohumic gley soil. European Journal of Soil Science, 1996, 47, 215-222.	3.9	68
58	Speciation and distribution of P associated with Fe and Al oxides in aggregate-sized fraction of an arable soil. Biogeosciences, 2015, 12, 6443-6452.	3.3	68
59	Use of a novel nitrification inhibitor to reduce nitrous oxide emission from15N-labelled dairy slurry injected into soil. Rapid Communications in Mass Spectrometry, 2001, 15, 1291-1296.	1.5	65
60	Rapid shift from denitrification to nitrification in soil after biogas residue application as indicated by nitrous oxide isotopomers. Soil Biology and Biochemistry, 2011, 43, 1671-1677.	8.8	62
61	Iron cycling and isotope fractionation in terrestrial ecosystems. Earth-Science Reviews, 2019, 190, 323-352.	9.1	62
62	Interactions Among Agricultural Production and Other Ecosystem Services Delivered from European Temperate Grassland Systems. Advances in Agronomy, 2010, 109, 117-154.	5.2	62
63	Phosphorus Containing Water Dispersible Nanoparticles in Arable Soil. Journal of Environmental Quality, 2015, 44, 1772-1781.	2.0	61
64	Interaction of straw amendment and soil NO3â˜ content controls fungal denitrification and denitrification product stoichiometry in a sandy soil. Soil Biology and Biochemistry, 2018, 126, 204-212.	8.8	61
65	Soil NO3â˜ level and O2 availability are key factors in controlling N2O reduction to N2 following long-term liming of an acidic sandy soil. Soil Biology and Biochemistry, 2019, 132, 165-173.	8.8	61
66	Biotic and Abiotic Changes in Ecosystem Structure over a Shrub-Encroachment Gradient in the Southwestern USA. Ecosystems, 2010, 13, 1239-1255.	3.4	59
67	Distribution of Phosphorusâ€Containing Fine Colloids and Nanoparticles in Stream Water of a Forest Catchment. Vadose Zone Journal, 2014, 13, 1-11.	2.2	59
68	Radiocarbon Dating of Aliphatic Hydrocarbons A New Approach for Dating Passiveâ€Fraction Carbon in Soil Horizons. Soil Science Society of America Journal, 1999, 63, 1181-1187.	2.2	58
69	ESTIMATING NET PRIMARY PRODUCTION FROM MEASUREMENTS MADE ON SOIL ORGANIC MATTER. Ecology, 1999, 80, 2762-2773.	3.2	58
70	Effect of tillage system and straw management on organic matter dynamics. Agronomy for Sustainable Development, 2009, 29, 525-533.	5.3	58
71	The effect of diet manipulation on nitrous oxide and methane emissions from manure application to incubated grassland soils. Atmospheric Environment, 2007, 41, 7096-7107.	4.1	57
72	Quantification of priming and CO2 emission sources following the application of different slurry particle size fractions to a grassland soil. Soil Biology and Biochemistry, 2007, 39, 2608-2620.	8.8	57

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73	Anaerobic digestates lower N2O emissions compared to cattle slurry by affecting rate and product stoichiometry of denitrification â€“ An N2O isotopomer case study. Soil Biology and Biochemistry, 2015, 84, 65-74.	8.8	57
74	Multiple stable isotope (¹⁸O, ¹³C, ¹⁵N and ³⁴S) analysis of human hair to identify the recent migrants in a rural community in SW England. Rapid Communications in Mass Spectrometry, 2007, 21, 2951-2954.	1.5	56
75	Longâ€term influence of manure and mineral nitrogen applications on plant and soil ¹⁵N and ¹³C values from the Broadbalk Wheat Experiment. Rapid Communications in Mass Spectrometry, 2008, 22, 1735-1740.	1.5	56
76	Inter-specific variability in organic nitrogen uptake of three temperate grassland species. Journal of Plant Nutrition and Soil Science, 2003, 166, 606-611.	1.9	55
77	Nitrate leaching in soil: Tracing the NO3â¯ sources with the help of stable N and O isotopes. Soil Biology and Biochemistry, 2007, 39, 3024-3033.	8.8	55
78	Tracing the rate and extent of N and C flow from 13C,15N-glycine and glutamate into individual de novo synthesised soil amino acids. Organic Geochemistry, 2010, 41, 1259-1268.	1.8	54
79	Phosphorus forms in forest soil colloids as revealed by liquidâ€state ³¹Pâ€NMR. Journal of Plant Nutrition and Soil Science, 2016, 179, 159-167.	1.9	54
80	To Extract, or not to Extract Uranium from Phosphate Rock, that is the Question. Environmental Science & Technology, 2017, 51, 753-754.	10.0	54
81	Phosphorus Binding to Nanoparticles and Colloids in Forest Stream Waters. Vadose Zone Journal, 2017, 16, 1-12.	2.2	54
82	Moisture activation and carbon use efficiency of soil microbial communities along an aridity gradient in the Atacama Desert. Soil Biology and Biochemistry, 2018, 117, 68-71.	8.8	54
83	Savanna-derived organic matter remaining in arable soils of the South African Highveld long-term mixed cropping: Evidence from 13C and 15N natural abundance. Soil Biology and Biochemistry, 2005, 37, 1898-1909.	8.8	53
84	Carbon and nitrogen in soil and vine roots in harrowed and grass-covered vineyards. Agriculture, Ecosystems and Environment, 2014, 193, 70-82.	5.3	52
85	Greenhouse gas emissions during storage of manure and digestates: Key role of methane for prediction and mitigation. Agricultural Systems, 2018, 166, 26-35.	6.1	52
86	Phosphorus in water dispersible-colloids of forest soil profiles. Plant and Soil, 2018, 427, 71-86.	3.7	51
87	Carbonâ€mineralization kinetics in an organically managed Cambic Arenosol amended with organic fertilizers. Journal of Plant Nutrition and Soil Science, 2010, 173, 39-45.	1.9	50
88	Novel laser spectroscopic technique for continuous analysis of N₂O isotopomers â€“ application and intercomparison with isotope ratio mass spectrometry. Rapid Communications in Mass Spectrometry, 2013, 27, 216-222.	1.5	50
89	A terrestrial observatory approach to the integrated investigation of the effects of deforestation on water, energy, and matter fluxes. Science China Earth Sciences, 2015, 58, 61-75.	5.2	50
90	Dynamics of a Pasture Soil Microbial Community after Deposition of Cattle Urine Amended with [13 C]Urea. Applied and Environmental Microbiology, 2004, 70, 6363-6369.	3.1	49

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91	Dual isotope and isotopomer measurements for the understanding of N₂O production and consumption during denitrification in an arable soil. European Journal of Soil Science, 2010, 61, 364-374.	3.9	49
92	Straw amendment with nitrate-N decreased N2O/(N2O+N2) ratio but increased soil N2O emission: A case study of direct soil-born N2 measurements. Soil Biology and Biochemistry, 2018, 127, 301-304.	8.8	49
93	Short-term N2O, CO2, NH3 fluxes, and N/C transfers in a Danish grass-clover pasture after simulated urine deposition in autumn. Journal of Plant Nutrition and Soil Science, 2004, 167, 568-576.	1.9	48
94	Elemental Composition of Natural Nanoparticles and Fine Colloids in European Forest Stream Waters and Their Role as Phosphorus Carriers. Global Biogeochemical Cycles, 2017, 31, 1592-1607.	4.9	48
95	Enhanced Ibuprofen Adsorption and Desorption on Synthesized Functionalized Magnetic Multiwall Carbon Nanotubes from Aqueous Solution. Materials, 2020, 13, 3329.	2.9	48
96	Natural13C abundance: a tool to trace the incorporation of dung-derived carbon into soil particle-size fractions. , 1999, 13, 1291-1294.		46
97	Effects of dung and urine amendments on the isotopic content of N2O released from grasslands. Rapid Communications in Mass Spectrometry, 2000, 14, 1356-1360.	1.5	46
98	Quantifying N2O reduction to N2 during denitrification in soils via isotopic mapping approach: Model evaluation and uncertainty analysis. Environmental Research, 2019, 179, 108806.	7.5	46
99	Occurrence of Soil Fungi in Antarctic Pristine Environments. Frontiers in Bioengineering and Biotechnology, 2019, 7, 28.	4.1	45
100	Potential dual effect of nitrification inhibitor 3,4-dimethylpyrazole phosphate on nitrifier denitrification in the mitigation of peak N2O emission events in North China Plain cropping systems. Soil Biology and Biochemistry, 2018, 121, 147-153.	8.8	44
101	Compound specific plant amino acid Î´15N values differ with functional plant strategies in temperate grassland. Journal of Plant Nutrition and Soil Science, 2002, 165, 661-667.	1.9	43
102	Understanding spatial variability of soil properties: a key step in establishing fieldâ€•to farmâ€scale agroâ€ecosystem experiments. Rapid Communications in Mass Spectrometry, 2012, 26, 2413-2421.	1.5	43
103	Greenhouse gas (GHG) emissions from soils amended with digestate derived from anaerobic treatment of food waste. Rapid Communications in Mass Spectrometry, 2012, 26, 2422-2430.	1.5	43
104	Isotope fractionation factors controlling isotopocule signatures of soil-emitted N₂ O produced by denitrification processes of various rates. Rapid Communications in Mass Spectrometry, 2015, 29, 269-282.	1.5	43
105	Altitude affects the quality of the water-extractable organic matter (WEOM) from rhizosphere and bulk soil in European beech forests. Geoderma, 2017, 302, 6-13.	5.1	43
106	Compound specific Î´15Nâ€° values: amino acids in grassland and arable soils. Soil Biology and Biochemistry, 1999, 31, 1751-1755.	8.8	42
107	Bacteria and Fungi Respond Differently to Multifactorial Climate Change in a Temperate Heathland, Traced with 13C-Glycine and FACE CO2. PLoS ONE, 2014, 9, e85070.	2.5	42
108	Effect of beech (Fagus sylvatica L.) rhizosphere on phosphorous availability in soils at different altitudes (Central Italy). Geoderma, 2016, 276, 53-63.	5.1	42

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109	Effects of cattle slurry and nitrification inhibitor application on spatial soil O2 dynamics and N2O production pathways. Soil Biology and Biochemistry, 2017, 114, 200-209.	8.8	42
110	Assessment of natural fluorescence as a tracer of diffuse agricultural pollution from slurry spreading on intensely-farmed grasslands. Water Research, 2010, 44, 1701-1712.	11.3	40
111	Nutrient dynamics during decomposition of the residues from a sown legume or ruderal plant cover in an olive oil orchard. Agriculture, Ecosystems and Environment, 2014, 184, 115-123.	5.3	40
112	Impact of anthropogenic induced nitrogen input and liming on phosphorus leaching in forest soils. Journal of Plant Nutrition and Soil Science, 2016, 179, 443-453.	1.9	40
113	Short-term sequestration of slurry-derived carbon and nitrogen in temperate grassland soil as assessed by 13C and 15N natural abundance measurements. Journal of Plant Nutrition and Soil Science, 2001, 164, 467.	1.9	39
114	Towards a Holistic Classification of Diffuse Agricultural Water Pollution from Intensively Managed Grasslands on Heavy Soils. Advances in Agronomy, 2010, 105, 83-115.	5.2	39
115	Variations in concentrations of N and P forms in leachates from dried soils rewetted at different rates. Biology and Fertility of Soils, 2013, 49, 79-87.	4.3	39
116	Tracking the fate of dung-derived carbohydrates in a temperate grassland soil using compound-specific stable isotope analysis. Organic Geochemistry, 2009, 40, 1210-1218.	1.8	38
117	Application of simultaneous thermal analysis mass spectrometry and stable carbon isotope analysis in a carbon sequestration study. Rapid Communications in Mass Spectrometry, 2005, 19, 3192-3198.	1.5	37
118	Quantifying the spatial variability of soil physical and chemical properties in relation to mitigation of diffuse water pollution. Geoderma, 2014, 214-215, 25-41.	5.1	37
119	Carbon accrual in the Atacama Desert. Global and Planetary Change, 2019, 181, 102993.	3.5	37
120	Tracing elevational changes in microbial life and organic carbon sources in soils of the Atacama Desert. Global and Planetary Change, 2020, 184, 103078.	3.5	37
121	Offâ€line pyrolysis and compoundâ€specific stable carbon isotope analysis of lignin moieties: a new method for determining the fate of lignin residues in soil. Rapid Communications in Mass Spectrometry, 2008, 22, 1631-1639.	1.5	36
122	Interpreting early land management through compound specific stable isotope analyses of archaeological soils. , 1999, 13, 1315-1319.		35
123	Quantification of dung carbon incorporation in a temperate grassland soil following spring application using bulk stable carbon isotope determinations. Isotopes in Environmental and Health Studies, 2005, 41, 3-11.	1.0	35
124	Processes affecting transfer of sediment and colloids, with associated phosphorus, from intensively farmed grasslands: tracing sediment and organic matter. Hydrological Processes, 2007, 21, 417-422.	2.6	35
125	Nitrous oxide production and denitrification rates in estuarine intertidal saltmarsh and managed realignment zones. Estuarine, Coastal and Shelf Science, 2010, 87, 591-600.	2.1	34
126	Nitrification inhibitor's effect on mitigating N 2 O emissions was weakened by urease inhibitor in calcareous soils. Atmospheric Environment, 2017, 166, 142-150.	4.1	34

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127	Characterization of organic carbon in decomposing litter exposed to nitrogen and sulfur additions: Links to microbial community composition and activity. Geoderma, 2017, 286, 116-124.	5.1	34
128	Colloid-bound and dissolved phosphorus species in topsoil water extracts along a grassland transect from Cambisol to Stagnosol. Biogeosciences, 2017, 14, 1153-1164.	3.3	33
129	A novel application of natural fluorescence to understand the sources and transport pathways of pollutants from livestock farming in small headwater catchments. Science of the Total Environment, 2012, 417-418, 169-182.	8.0	32
130	Stage-specific response of litter decomposition to N and S amendments in a subtropical forest soil. Biology and Fertility of Soils, 2016, 52, 711-724.	4.3	32
131	Conservation farming practices in winter wheatâ€“summer maize cropping reduce GHG emissions and maintain high yields. Agriculture, Ecosystems and Environment, 2019, 272, 266-275.	5.3	32
132	Organic Carbon Linkage with Soil Colloidal Phosphorus at Regional and Field Scales: Insights from Size Fractionation of Fine Particles. Environmental Science & Technology, 2021, 55, 5815-5825.	10.0	32
133	Short-term dynamics of slurry-derived plant and microbial sugars in a temperate grassland soil as assessed by compound-specificÎ´13C analyses. Rapid Communications in Mass Spectrometry, 2005, 19, 1437-1446.	1.5	31
134	Development of a stable isotope index to assess decadal-scale vegetation change and application to woodlands of the Burdekin catchment, Australia. Global Change Biology, 2007, 13, 1455-1468.	9.5	31
135	Amino acid ‹sup›15‹/sup›N in longâ€term bare fallow soils: influence of annual N fertilizer and manure applications. European Journal of Soil Science, 2008, 59, 617-629.	3.9	31
136	Applications of stable isotope ratio mass spectrometry in cattle dung carbon cycling studies. Rapid Communications in Mass Spectrometry, 2010, 24, 495-500.	1.5	31
137	Woody plant encroachment into grasslands leads to accelerated erosion of previously stable organic carbon from dryland soils. Journal of Geophysical Research G: Biogeosciences, 2014, 119, 2345-2357.	3.0	31
138	Differential long-term fertilization alters residue-derived labile organic carbon fractions and microbial community during straw residue decomposition. Soil and Tillage Research, 2021, 213, 105120.	5.6	31
139	Spatio-temporal variation of stable isotope ratios in earthworms under grassland and maize cropping systems. Soil Biology and Biochemistry, 2001, 33, 1673-1682.	8.8	30
140	The Influence of Dung Amendments on Dissolved Organic Matter in Grassland Soil Leachates - Preliminary Results from a Lysimeter Study. Isotopes in Environmental and Health Studies, 1999, 35, 97-109.	1.0	29
141	Role of aggregate surface and core fraction in the sequestration of carbon from dung in a temperate grassland soil. European Journal of Soil Science, 2004, 55, 71-77.	3.9	29
142	Use of carbon isotope analysis to understand semiâ€arid erosion dynamics and longâ€term semiâ€arid land degradation. Rapid Communications in Mass Spectrometry, 2008, 22, 1697-1702.	1.5	29
143	Mitigating N2O emissions from clover residues by 3,4-dimethylpyrazole phosphate (DMPP) without adverse effects on the earthworm Lumbricus terrestris. Soil Biology and Biochemistry, 2017, 104, 95-107.	8.8	29
144	Title is missing!. Plant and Soil, 1999, 216, 35-45.	3.7	27

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145	Influence of flooding onÎ´15N,Î´18O,1Î´15N and2Î´15N signatures of N2O released from estuarine soilsâ€"a laboratory experiment using tidal flooding chambers. Rapid Communications in Mass Spectrometry, 2004, 18, 1561-1568.	1.5	27
146	Changes in ecosystem structure, function and hydrological connectivity control water, soil and carbon losses in semiâ€arid grass to woody vegetation transitions. Earth Surface Processes and Landforms, 2013, 38, 1602-1611.	2.5	27
147	What is the deal with the Green Deal: Will the new strategy help to improve European freshwater quality beyond the Water Framework Directive?. Science of the Total Environment, 2021, 791, 148080.	8.0	27
148	Using natural13C abundances to differentiate between three CO2 sources during incubation of a grassland soil amended with slurry and sugar. Journal of Plant Nutrition and Soil Science, 2004, 167, 669-677.	1.9	26
149	Assessment of the potential N mineralization of different particleâ€size fractions in two dairy cattle slurries. Journal of Plant Nutrition and Soil Science, 2008, 171, 313-315.	1.9	26
150	Impacts of natural factors and farming practices on greenhouse gas emissions in the North China Plain: A metaâ€analysis. Ecology and Evolution, 2017, 7, 6702-6715.	1.9	26
151	Effect of soil saturation on denitrification in a grassland soil. Biogeosciences, 2017, 14, 4691-4710.	3.3	26
152	Influences of irrigation and fertilization on soil N cycle and losses from wheatâ€"maize cropping system in northern China. Environmental Pollution, 2021, 278, 116852.	7.5	26
153	Enhancing the understanding of earthworm feeding behaviour via the use of fatty acidÎ´¹³C values determined by gas chromatographyâ€combustionâ€isotope ratio mass spectrometry. Rapid Communications in Mass Spectrometry, 2008, 22, 1643-1652.	1.5	25
154	Influence of recent vegetation on labile and recalcitrant carbon soil pools in central Queensland, Australia: evidence from thermal analysisâ€quadrupole mass spectrometryâ€isotope ratio mass spectrometry. Rapid Communications in Mass Spectrometry, 2008, 22, 1751-1758.	1.5	25
155	High Temporal Resolution Monitoring of Multiple Pollutant Responses in Drainage from an Intensively Managed Grassland Catchment Caused by a Summer Storm. Water, Air, and Soil Pollution, 2010, 205, 377-393.	2.4	25
156	Effects of land use change from natural forest to plantation on C, N and natural abundance of 13C and 15N along a climate gradient in eastern China. Scientific Reports, 2019, 9, 16516.	3.3	25
157	Enhanced soil aggregate stability limits colloidal phosphorus loss potentials in agricultural systems. Environmental Sciences Europe, 2020, 32, .	5.5	25
158	The Use of Zeolite Molecular Sieves for Trapping Low Concentrations of CO2 from Environmental Atmospheres. Radiocarbon, 1995, 37, 643-647.	1.8	24
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160	Effect of slurry and ammonium nitrate application on greenhouse gas fluxes of a grassland soil under atypical South West England weather conditions. Agriculture, Ecosystems and Environment, 2013, 181, 1-11.	5.3	24
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