

Roland Bol

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278
papers

10,989
citations

52
h-index

92
g-index

299
ext. papers

12,700
ext. citations

4.7
avg. IF

6.28
L-index

#	Paper	IF	Citations
278	A Review of Biochar and Its Use and Function in Soil. <i>Advances in Agronomy</i> , 2010 , 105, 47-82	7.7	1164
277	$\delta^{13}\text{C}$ values of soil organic carbon and their use in documenting vegetation change in a subtropical savanna ecosystem. <i>Geoderma</i> , 1998 , 82, 5-41	6.7	392
276	Molecular dynamics of organic matter in a cultivated soil. <i>Organic Geochemistry</i> , 2002 , 33, 357-366	3.1	271
275	SOIL MICROBES COMPETE EFFECTIVELY WITH PLANTS FOR ORGANIC-NITROGEN INPUTS TO TEMPERATE GRASSLANDS. <i>Ecology</i> , 2003 , 84, 1277-1287	4.6	266
274	Chapter 6 Combining Biomarker with Stable Isotope Analyses for Assessing the Transformation and Turnover of Soil Organic Matter. <i>Advances in Agronomy</i> , 2008 , 155-250	7.7	246
273	Preferential uptake of soil nitrogen forms by grassland plant species. <i>Oecologia</i> , 2005 , 142, 627-35	2.9	200
272	Preferences for different nitrogen forms by coexisting plant species and soil microbes. <i>Ecology</i> , 2007 , 88, 989-99	4.6	196
271	Innovative methods in soil phosphorus research: A review. <i>Journal of Plant Nutrition and Soil Science</i> , 2015 , 178, 43-88	2.3	189
270	Sources and mechanisms of priming effect induced in two grassland soils amended with slurry and sugar. <i>Soil Biology and Biochemistry</i> , 2006 , 38, 747-758	7.5	189
269	Climatic influences on the leaching of dissolved organic matter from upland UK moorland soils, investigated by a field manipulation experiment. <i>Environment International</i> , 1999 , 25, 83-95	12.9	188
268	Heterotrophic microbial communities use ancient carbon following glacial retreat. <i>Biology Letters</i> , 2007 , 3, 487-90	3.6	160
267	Carbon isotopic composition of branched tetraether membrane lipids in soils suggest a rapid turnover and a heterotrophic life style of their source organism(s). <i>Biogeosciences</i> , 2010 , 7, 2959-2973	4.6	123
266	Stable isotope (^{13}C , ^{15}N and ^{34}S) analysis of the hair of modern humans and their domestic animals. <i>Rapid Communications in Mass Spectrometry</i> , 2002 , 16, 2195-200	2.2	119
265	Post-glacial variations in distributions, ^{13}C and ^{14}C contents of aliphatic hydrocarbons and bulk organic matter in three types of British acid upland soils. <i>Organic Geochemistry</i> , 1996 , 24, 273-287	3.1	114
264	Molecular insight into soil carbon turnover. <i>Rapid Communications in Mass Spectrometry</i> , 1999 , 13, 1278-1283		113
263	Rapid intrinsic rates of amino acid biodegradation in soils are unaffected by agricultural management strategy. <i>Soil Biology and Biochemistry</i> , 2005 , 37, 1267-1275	7.5	109
262	The natural abundance of ^{13}C , ^{15}N , ^{34}S and ^{14}C in archived (1923-2000) plant and soil samples from the Askov long-term experiments on animal manure and mineral fertilizer. <i>Rapid Communications in Mass Spectrometry</i> , 2005 , 19, 3216-26	2.2	107

261	Do plant species with different growth strategies vary in their ability to compete with soil microbes for chemical forms of nitrogen?. <i>Soil Biology and Biochemistry</i> , 2008 , 40, 228-237	7.5	104
260	Dissolved and colloidal phosphorus fluxes in forest ecosystems—An almost blind spot in ecosystem research. <i>Journal of Plant Nutrition and Soil Science</i> , 2016 , 179, 425-438	2.3	99
259	Land use and soil factors affecting accumulation of phosphorus species in temperate soils. <i>Geoderma</i> , 2015 , 257-258, 29-39	6.7	98
258	Dissolved organic matter and its parent organic matter in grass upland soil horizons studied by analytical pyrolysis techniques. <i>European Journal of Soil Science</i> , 1998 , 49, 1-15	3.4	96
257	Phosphorus Solubilization and Potential Transfer to Surface Waters from the Soil Microbial Biomass Following Drying, Rewetting and Freezing/Thawing. <i>Advances in Agronomy</i> , 2010 , 106, 1-35	7.7	93
256	Organic phosphorus in the terrestrial environment: a perspective on the state of the art and future priorities. <i>Plant and Soil</i> , 2018 , 427, 191-208	4.2	87
255	Molecular turnover time of soil organic matter in particle-size fractions of an arable soil. <i>Rapid Communications in Mass Spectrometry</i> , 2009 , 23, 2551-8	2.2	87
254	Towards a global-scale soil climate mitigation strategy. <i>Nature Communications</i> , 2020 , 11, 5427	17.4	87
253	Quantification of soil carbon inputs under elevated CO ₂ : C3 plants in a C4 soil. <i>Plant and Soil</i> , 1995 , 187, 345-350	4.2	86
252	Recovering phosphorus from soil: a root solution?. <i>Environmental Science & Technology</i> , 2012 , 46, 1977-8	10.3	84
251	Advances in the understanding of nutrient dynamics and management in UK agriculture. <i>Science of the Total Environment</i> , 2012 , 434, 39-50	10.2	82
250	Extensive management promotes plant and microbial nitrogen retention in temperate grassland. <i>PLoS ONE</i> , 2012 , 7, e51201	3.7	81
249	The influence of soil processes on carbon isotope distribution and turnover in the British uplands. <i>European Journal of Soil Science</i> , 1999 , 50, 41-51	3.4	81
248	Amino acids as a nitrogen source in temperate upland grasslands: the use of dual labelled ((¹³ C, (¹⁵ N) glycine to test for direct uptake by dominant grasses. <i>Rapid Communications in Mass Spectrometry</i> , 2000 , 14, 1351-5	2.2	79
247	Tracing dung-derived carbon in temperate grassland using ¹³ C natural abundance measurements. <i>Soil Biology and Biochemistry</i> , 2000 , 32, 1337-1343	7.5	77
246	Recent vegetation changes in central Queensland, Australia: Evidence from ¹³ C and ¹⁴ C analyses of soil organic matter. <i>Geoderma</i> , 2005 , 126, 241-259	6.7	76
245	Short-term effects of dairy slurry amendment on carbon sequestration and enzyme activities in a temperate grassland. <i>Soil Biology and Biochemistry</i> , 2003 , 35, 1411-1421	7.5	76
244	Absence of carbon isotope fractionation of individual n-alkanes in a 23-year field decomposition experiment with <i>Calluna vulgaris</i> . <i>Organic Geochemistry</i> , 1997 , 26, 497-501	3.1	75

243	Quantification of priming and CO ₂ respiration sources following slurry-C incorporation into two grassland soils with different C content. <i>Rapid Communications in Mass Spectrometry</i> , 2003 , 17, 2585-90	2.2	74
242	Influence of microbial activity on plant-microbial competition for organic and inorganic nitrogen. <i>Plant and Soil</i> , 2006 , 289, 321-334	4.2	72
241	Recalcitrant soil organic materials mineralize more efficiently at higher temperatures. <i>Journal of Plant Nutrition and Soil Science</i> , 2003 , 166, 300-307	2.3	71
240	Processes affecting transfer of sediment and colloids, with associated phosphorus, from intensively farmed grasslands: an overview of key issues. <i>Hydrological Processes</i> , 2006 , 20, 4407-4413	3.3	69
239	Nitrification inhibitors mitigate N ₂ O emissions more effectively under straw-induced conditions favoring denitrification. <i>Soil Biology and Biochemistry</i> , 2017 , 104, 197-207	7.5	66
238	Diurnal fluxes and the isotopomer ratios of N ₂ O in a temperate grassland following urine amendment. <i>Rapid Communications in Mass Spectrometry</i> , 2001 , 15, 1263-9	2.2	66
237	Effect of biochar origin and soil pH on greenhouse gas emissions from sandy and clay soils. <i>Applied Soil Ecology</i> , 2018 , 129, 121-127	5	65
236	Dual isotope and isotopomer ratios of N ₂ O emitted from a temperate grassland soil after fertiliser application. <i>Rapid Communications in Mass Spectrometry</i> , 2003 , 17, 2550-6	2.2	64
235	The ¹⁴ C age and residence time of organic matter and its lipid constituents in a stagnohumic gley soil. <i>European Journal of Soil Science</i> , 1996 , 47, 215-222	3.4	64
234	Effect of antecedent soil moisture conditions on emissions and isotopologue distribution of N ₂ O during denitrification. <i>Soil Biology and Biochemistry</i> , 2011 , 43, 240-250	7.5	63
233	Clear-cutting of a Norway spruce stand: implications for controls on the dynamics of dissolved organic matter in the forest floor. <i>European Journal of Soil Science</i> , 2004 , 55, 401-413	3.4	61
232	Not poles apart: Antarctic soil fungal communities show similarities to those of the distant Arctic. <i>Ecology Letters</i> , 2016 , 19, 528-36	10	61
231	Free amino sugar reactions in soil in relation to soil carbon and nitrogen cycling. <i>Soil Biology and Biochemistry</i> , 2007 , 39, 3081-3092	7.5	59
230	Radiocarbon Dating of Aliphatic Hydrocarbons A New Approach for Dating Passive-Fraction Carbon in Soil Horizons. <i>Soil Science Society of America Journal</i> , 1999 , 63, 1181-1187	2.5	56
229	Challenges of Reducing Phosphorus Based Water Eutrophication in the Agricultural Landscapes of Northwest Europe. <i>Frontiers in Marine Science</i> , 2018 , 5,	4.5	54
228	Rapid shift from denitrification to nitrification in soil after biogas residue application as indicated by nitrous oxide isotopomers. <i>Soil Biology and Biochemistry</i> , 2011 , 43, 1671-1677	7.5	53
227	Use of a novel nitrification inhibitor to reduce nitrous oxide emission from (¹⁵ N-labelled dairy slurry injected into soil. <i>Rapid Communications in Mass Spectrometry</i> , 2001 , 15, 1291-6	2.2	53
226	Long-term management changes topsoil and subsoil organic carbon and nitrogen dynamics in a temperate agricultural system. <i>European Journal of Soil Science</i> , 2016 , 67, 421-430	3.4	52

225	The effect of diet manipulation on nitrous oxide and methane emissions from manure application to incubated grassland soils. <i>Atmospheric Environment</i> , 2007 , 41, 7096-7107	5.3	51
224	Quantification of priming and CO ₂ emission sources following the application of different slurry particle size fractions to a grassland soil. <i>Soil Biology and Biochemistry</i> , 2007 , 39, 2608-2620	7.5	51
223	Nitrate leaching in soil: Tracing the NO ₃ ⁻ sources with the help of stable N and O isotopes. <i>Soil Biology and Biochemistry</i> , 2007 , 39, 3024-3033	7.5	50
222	Long-term influence of manure and mineral nitrogen applications on plant and soil ¹⁵ N and ¹³ C values from the Broadbalk Wheat Experiment. <i>Rapid Communications in Mass Spectrometry</i> , 2008 , 22, 1735-40	2.2	50
221	Inter-specific variability in organic nitrogen uptake of three temperate grassland species. <i>Journal of Plant Nutrition and Soil Science</i> , 2003 , 166, 606-611	2.3	50
220	ESTIMATING NET PRIMARY PRODUCTION FROM MEASUREMENTS MADE ON SOIL ORGANIC MATTER. <i>Ecology</i> , 1999 , 80, 2762-2773	4.6	50
219	Interactions Among Agricultural Production and Other Ecosystem Services Delivered from European Temperate Grassland Systems. <i>Advances in Agronomy</i> , 2010 , 109, 117-154	7.7	50
218	Straw incorporation increases crop yield and soil organic carbon sequestration but varies under different natural conditions and farming practices in China: a system analysis. <i>Biogeosciences</i> , 2018 , 15, 1933-1946	4.6	50
217	Agricultural sustainable intensification improved nitrogen use efficiency and maintained high crop yield during 1980-2014 in Northern China. <i>Science of the Total Environment</i> , 2017 , 596-597, 61-68	10.2	49
216	Biotic and Abiotic Changes in Ecosystem Structure over a Shrub-Encroachment Gradient in the Southwestern USA. <i>Ecosystems</i> , 2010 , 13, 1239-1255	3.9	49
215	The effect of nitrification inhibitor on N ₂ O, NO and N ₂ emissions under different soil moisture levels in a permanent grassland soil. <i>Soil Biology and Biochemistry</i> , 2017 , 113, 153-160	7.5	48
214	Multiple stable isotope (¹⁸ O, ¹³ C, ¹⁵ N and ³⁴ S) analysis of human hair to identify the recent migrants in a rural community in SW England. <i>Rapid Communications in Mass Spectrometry</i> , 2007 , 21, 2951-4	2.2	48
213	The TERENO-Rur Hydrological Observatory: A Multiscale Multi-Compartment Research Platform for the Advancement of Hydrological Science. <i>Vadose Zone Journal</i> , 2018 , 17, 180055	2.7	48
212	Speciation and distribution of P associated with Fe and Al oxides in aggregate-sized fraction of an arable soil. <i>Biogeosciences</i> , 2015 , 12, 6443-6452	4.6	47
211	Distribution of Phosphorus-Containing Fine Colloids and Nanoparticles in Stream Water of a Forest Catchment. <i>Vadose Zone Journal</i> , 2014 , 13, vj2014.01.0005	2.7	46
210	Novel laser spectroscopic technique for continuous analysis of N ₂ O isotopomers--application and intercomparison with isotope ratio mass spectrometry. <i>Rapid Communications in Mass Spectrometry</i> , 2013 , 27, 216-22	2.2	45
209	Effect of tillage system and straw management on organic matter dynamics. <i>Agronomy for Sustainable Development</i> , 2009 , 29, 525-533	6.8	45
208	Short-term N ₂ O, CO ₂ , NH ₃ fluxes, and N/C transfers in a Danish grass-clover pasture after simulated urine deposition in autumn. <i>Journal of Plant Nutrition and Soil Science</i> , 2004 , 167, 568-576	2.3	45

207	Savanna-derived organic matter remaining in arable soils of the South African Highveld long-term mixed cropping: Evidence from 13C and 15N natural abundance. <i>Soil Biology and Biochemistry</i> , 2005 , 37, 1898-1909	7.5	45
206	A terrestrial observatory approach to the integrated investigation of the effects of deforestation on water, energy, and matter fluxes. <i>Science China Earth Sciences</i> , 2015 , 58, 61-75	4.6	44
205	Coupled incorporation of maize (<i>Zea mays</i> L.) straw with nitrogen fertilizer increased soil organic carbon in Fluvisol Cambisol. <i>Geoderma</i> , 2017 , 304, 19-27	6.7	44
204	Dual isotope and isotopomer measurements for the understanding of N ₂ O production and consumption during denitrification in an arable soil. <i>European Journal of Soil Science</i> , 2010 , 61, 364-374	3.4	44
203	Carbon and nitrogen in soil and vine roots in harrowed and grass-covered vineyards. <i>Agriculture, Ecosystems and Environment</i> , 2014 , 193, 70-82	5.7	43
202	Leaching of natural colloids from forest topsoils and their relevance for phosphorus mobility. <i>Science of the Total Environment</i> , 2018 , 634, 305-315	10.2	42
201	Phosphorus forms in forest soil colloids as revealed by liquid-state 31P-NMR. <i>Journal of Plant Nutrition and Soil Science</i> , 2016 , 179, 159-167	2.3	42
200	Carbon-mineralization kinetics in an organically managed Cambic Arenosol amended with organic fertilizers. <i>Journal of Plant Nutrition and Soil Science</i> , 2010 , 173, 39-45	2.3	42
199	Isotope fractionation factors controlling isotopocule signatures of soil-emitted N ₂ O produced by denitrification processes of various rates. <i>Rapid Communications in Mass Spectrometry</i> , 2015 , 29, 269-82	2.2	40
198	Compound specific plant amino acid $\delta^{15}N$ values differ with functional plant strategies in temperate grassland. <i>Journal of Plant Nutrition and Soil Science</i> , 2002 , 165, 661-667	2.3	40
197	Anaerobic digestates lower N ₂ O emissions compared to cattle slurry by affecting rate and product stoichiometry of denitrification – An N ₂ O isotopomer case study. <i>Soil Biology and Biochemistry</i> , 2015 , 84, 65-74	7.5	39
196	Dynamics of a pasture soil microbial community after deposition of cattle urine amended with [13C]urea. <i>Applied and Environmental Microbiology</i> , 2004 , 70, 6363-9	4.8	39
195	Effects of dung and urine amendments on the isotopic content of N ₂ O released from grasslands. <i>Rapid Communications in Mass Spectrometry</i> , 2000 , 14, 1356-60	2.2	39
194	Natural 13C abundance: a tool to trace the incorporation of dung-derived carbon into soil particle-size fractions. <i>Rapid Communications in Mass Spectrometry</i> , 1999 , 13, 1291-4	2.2	39
193	Compound specific $\delta^{15}N$ values: amino acids in grassland and arable soils. <i>Soil Biology and Biochemistry</i> , 1999 , 31, 1751-1755	7.5	39
192	Phosphorus Containing Water Dispersible Nanoparticles in Arable Soil. <i>Journal of Environmental Quality</i> , 2015 , 44, 1772-81	3.4	38
191	Phosphorus Binding to Nanoparticles and Colloids in Forest Stream Waters. <i>Vadose Zone Journal</i> , 2017 , 16, vj2016.07.0064	2.7	37
190	Tracing the rate and extent of N and C flow from 13C,15N-glycine and glutamate into individual de novo synthesised soil amino acids. <i>Organic Geochemistry</i> , 2010 , 41, 1259-1268	3.1	37

189	Assessment of natural fluorescence as a tracer of diffuse agricultural pollution from slurry spreading on intensely-farmed grasslands. <i>Water Research</i> , 2010 , 44, 1701-12	12.5	36
188	Interaction of straw amendment and soil NO ₃ ⁻ content controls fungal denitrification and denitrification product stoichiometry in a sandy soil. <i>Soil Biology and Biochemistry</i> , 2018 , 126, 204-212	7.5	36
187	Soil organic matter priming and carbon balance after straw addition is regulated by long-term fertilization. <i>Soil Biology and Biochemistry</i> , 2019 , 135, 383-391	7.5	35
186	Variations in concentrations of N and P forms in leachates from dried soils rewetted at different rates. <i>Biology and Fertility of Soils</i> , 2013 , 49, 79-87	6.1	35
185	Understanding spatial variability of soil properties: a key step in establishing field- to farm-scale agro-ecosystem experiments. <i>Rapid Communications in Mass Spectrometry</i> , 2012 , 26, 2413-21	2.2	35
184	Occurrence of Soil Fungi in Antarctic Pristine Environments. <i>Frontiers in Bioengineering and Biotechnology</i> , 2019 , 7, 28	5.8	34
183	Quantifying the spatial variability of soil physical and chemical properties in relation to mitigation of diffuse water pollution. <i>Geoderma</i> , 2014 , 214-215, 25-41	6.7	34
182	Elemental Composition of Natural Nanoparticles and Fine Colloids in European Forest Stream Waters and Their Role as Phosphorus Carriers. <i>Global Biogeochemical Cycles</i> , 2017 , 31, 1592-1607	5.9	33
181	Bacteria and fungi respond differently to multifactorial climate change in a temperate heathland, traced with ¹³ C-glycine and FACE CO ₂ . <i>PLoS ONE</i> , 2014 , 9, e85070	3.7	33
180	Short-term sequestration of slurry-derived carbon and nitrogen in temperate grassland soil as assessed by ¹³ C and ¹⁵ N natural abundance measurements. <i>Journal of Plant Nutrition and Soil Science</i> , 2001 , 164, 467	2.3	33
179	To Extract, or not to Extract Uranium from Phosphate Rock, that is the Question. <i>Environmental Science & Technology</i> , 2017 , 51, 753-754	10.3	32
178	Processes affecting transfer of sediment and colloids, with associated phosphorus, from intensively farmed grasslands: tracing sediment and organic matter. <i>Hydrological Processes</i> , 2007 , 21, 417-422	3.3	32
177	Quantification of dung carbon incorporation in a temperate grassland soil following spring application using bulk stable carbon isotope determinations. <i>Isotopes in Environmental and Health Studies</i> , 2005 , 41, 3-11	1.5	32
176	Tracking the fate of dung-derived carbohydrates in a temperate grassland soil using compound-specific stable isotope analysis. <i>Organic Geochemistry</i> , 2009 , 40, 1210-1218	3.1	31
175	Application of simultaneous thermal analysis mass spectrometry and stable carbon isotope analysis in a carbon sequestration study. <i>Rapid Communications in Mass Spectrometry</i> , 2005 , 19, 3192-8	2.2	31
174	Towards a Holistic Classification of Diffuse Agricultural Water Pollution from Intensively Managed Grasslands on Heavy Soils. <i>Advances in Agronomy</i> , 2010 , 105, 83-115	7.7	30
173	Amino acid ¹⁵ N in long-term bare fallow soils: influence of annual N fertilizer and manure applications. <i>European Journal of Soil Science</i> , 2008 , 59, 617-629	3.4	30
172	Moisture activation and carbon use efficiency of soil microbial communities along an aridity gradient in the Atacama Desert. <i>Soil Biology and Biochemistry</i> , 2018 , 117, 68-71	7.5	30

171	Altitude affects the quality of the water-extractable organic matter (WEOM) from rhizosphere and bulk soil in European beech forests. <i>Geoderma</i> , 2017 , 302, 6-13	6.7	29
170	Quantifying NO reduction to N during denitrification in soils via isotopic mapping approach: Model evaluation and uncertainty analysis. <i>Environmental Research</i> , 2019 , 179, 108806	7.9	29
169	Short-term dynamics of slurry-derived plant and microbial sugars in a temperate grassland soil as assessed by compound-specific delta13C analyses. <i>Rapid Communications in Mass Spectrometry</i> , 2005 , 19, 1437-46	2.2	29
168	Interpreting early land management through compound specific stable isotope analyses of archaeological soils. <i>Rapid Communications in Mass Spectrometry</i> , 1999 , 13, 1315-1319	2.2	29
167	Impact of anthropogenic induced nitrogen input and liming on phosphorus leaching in forest soils. <i>Journal of Plant Nutrition and Soil Science</i> , 2016 , 179, 443-453	2.3	29
166	Effect of beech (<i>Fagus sylvatica</i> L.) rhizosphere on phosphorous availability in soils at different altitudes (Central Italy). <i>Geoderma</i> , 2016 , 276, 53-63	6.7	29
165	Soil NO ₃ ⁻ level and O ₂ availability are key factors in controlling N ₂ O reduction to N ₂ following long-term liming of an acidic sandy soil. <i>Soil Biology and Biochemistry</i> , 2019 , 132, 165-173	7.5	29
164	Iron cycling and isotope fractionation in terrestrial ecosystems. <i>Earth-Science Reviews</i> , 2019 , 190, 323-352	2.2	29
163	Greenhouse gas emissions during storage of manure and digestates: Key role of methane for prediction and mitigation. <i>Agricultural Systems</i> , 2018 , 166, 26-35	6.1	28
162	Greenhouse gas (GHG) emissions from soils amended with digestate derived from anaerobic treatment of food waste. <i>Rapid Communications in Mass Spectrometry</i> , 2012 , 26, 2422-30	2.2	28
161	Applications of stable isotope ratio mass spectrometry in cattle dung carbon cycling studies. <i>Rapid Communications in Mass Spectrometry</i> , 2010 , 24, 495-500	2.2	28
160	Straw amendment with nitrate-N decreased N ₂ O/(N ₂ O+N ₂) ratio but increased soil N ₂ O emission: A case study of direct soil-born N ₂ measurements. <i>Soil Biology and Biochemistry</i> , 2018 , 127, 301-304	7.5	28
159	Nutrient dynamics during decomposition of the residues from a sown legume or ruderal plant cover in an olive oil orchard. <i>Agriculture, Ecosystems and Environment</i> , 2014 , 184, 115-123	5.7	27
158	Nitrous oxide production and denitrification rates in estuarine intertidal saltmarsh and managed realignment zones. <i>Estuarine, Coastal and Shelf Science</i> , 2010 , 87, 591-600	2.9	27
157	Off-line pyrolysis and compound-specific stable carbon isotope analysis of lignin moieties: a new method for determining the fate of lignin residues in soil. <i>Rapid Communications in Mass Spectrometry</i> , 2008 , 22, 1631-9	2.2	27
156	Spatio-temporal variation of stable isotope ratios in earthworms under grassland and maize cropping systems. <i>Soil Biology and Biochemistry</i> , 2001 , 33, 1673-1682	7.5	27
155	A novel application of natural fluorescence to understand the sources and transport pathways of pollutants from livestock farming in small headwater catchments. <i>Science of the Total Environment</i> , 2012 , 417-418, 169-82	10.2	26
154	Effects of cattle slurry and nitrification inhibitor application on spatial soil O ₂ dynamics and N ₂ O production pathways. <i>Soil Biology and Biochemistry</i> , 2017 , 114, 200-209	7.5	26

153	Development of a stable isotope index to assess decadal-scale vegetation change and application to woodlands of the Burdekin catchment, Australia. <i>Global Change Biology</i> , 2007 , 13, 1455-1468	11.4	26
152	The Influence of Dung Amendments on Dissolved Organic Matter in Grassland Soil Leachates - Preliminary Results from a Lysimeter Study. <i>Isotopes in Environmental and Health Studies</i> , 1999 , 35, 97-109	5	26
151	Potential dual effect of nitrification inhibitor 3,4-dimethylpyrazole phosphate on nitrifier denitrification in the mitigation of peak N ₂ O emission events in North China Plain cropping systems. <i>Soil Biology and Biochemistry</i> , 2018 , 121, 147-153	7.5	25
150	Woody plant encroachment into grasslands leads to accelerated erosion of previously stable organic carbon from dryland soils. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2014 , 119, 2345-2357	3.7	25
149	Characterization of organic carbon in decomposing litter exposed to nitrogen and sulfur additions: Links to microbial community composition and activity. <i>Geoderma</i> , 2017 , 286, 116-124	6.7	25
148	Phosphorus in water dispersible-colloids of forest soil profiles. <i>Plant and Soil</i> , 2018 , 427, 71-86	4.2	25
147	Colloid-bound and dissolved phosphorus species in topsoil water extracts along a grassland transect from Cambisol to Stagnosol. <i>Biogeosciences</i> , 2017 , 14, 1153-1164	4.6	24
146	Use of carbon isotope analysis to understand semi-arid erosion dynamics and long-term semi-arid land degradation. <i>Rapid Communications in Mass Spectrometry</i> , 2008 , 22, 1697-702	2.2	24
145	The effects of nitrogen fertilisation and elevated CO ₂ on the lipid biosynthesis and carbon isotopic discrimination in birch seedlings (<i>Betula pendula</i>). <i>Plant and Soil</i> , 1999 , 216, 35-45	4.2	24
144	Mitigating N ₂ O emissions from clover residues by 3,4-dimethylpyrazole phosphate (DMPP) without adverse effects on the earthworm <i>Lumbricus terrestris</i> . <i>Soil Biology and Biochemistry</i> , 2017 , 104, 95-107	7.5	23
143	Stage-specific response of litter decomposition to N and S amendments in a subtropical forest soil. <i>Biology and Fertility of Soils</i> , 2016 , 52, 711-724	6.1	22
142	Assessment of the potential N mineralization of different particle-size fractions in two dairy cattle slurries. <i>Journal of Plant Nutrition and Soil Science</i> , 2008 , 171, 313-315	2.3	22
141	Influence of flooding on delta ¹⁵ N, delta ¹⁸ O, 1delta ¹⁵ N and 2delta ¹⁵ N signatures of N ₂ O released from estuarine soils--a laboratory experiment using tidal flooding chambers. <i>Rapid Communications in Mass Spectrometry</i> , 2004 , 18, 1561-8	2.2	22
140	Role of aggregate surface and core fraction in the sequestration of carbon from dung in a temperate grassland soil. <i>European Journal of Soil Science</i> , 2004 , 55, 71-77	3.4	22
139	Using natural ¹³ C abundances to differentiate between three CO ₂ sources during incubation of a grassland soil amended with slurry and sugar. <i>Journal of Plant Nutrition and Soil Science</i> , 2004 , 167, 669-677	2.3	22
138	The Use of Zeolite Molecular Sieves for Trapping Low Concentrations of CO ₂ from Environmental Atmospheres. <i>Radiocarbon</i> , 1995 , 37, 643-647	4.6	22
137	Effect of slurry and ammonium nitrate application on greenhouse gas fluxes of a grassland soil under atypical South West England weather conditions. <i>Agriculture, Ecosystems and Environment</i> , 2013 , 181, 1-11	5.7	21
136	Nitrification inhibitor's effect on mitigating N ₂ O emissions was weakened by urease inhibitor in calcareous soils. <i>Atmospheric Environment</i> , 2017 , 166, 142-150	5.3	21

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| 1 | INTERCONNECTING SOIL ORGANIC MATTER WITH NITROGEN AND PHOSPHORUS CYCLING 2022 , 51-77 | | |