

# Roland Bol

## List of Publications by Year in Descending Order

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

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	Globally elevated chemical weathering rates beneath glaciers.. <i>Nature Communications</i> , <b>2022</b> , 13, 407	17.4	1
277	Potential denitrification activity response to long-term nitrogen fertilization - A global meta-analysis. <i>Journal of Cleaner Production</i> , <b>2022</b> , 336, 130451	10.3	0
276	Dust and aerosols in the Atacama Desert. <i>Earth-Science Reviews</i> , <b>2022</b> , 226, 103925	10.2	0
275	Fertilizer P-derived uranium continues to accumulate at Rothamsted long-term experiments.. <i>Science of the Total Environment</i> , <b>2022</b> , 820, 153118	10.2	0
274	Improved estimation and prediction of the wind-erodible fraction for Aridisols in arid southeast Tunisia. <i>Catena</i> , <b>2022</b> , 211, 106001	5.8	1
273	CO2 emission and source partitioning from carbonate and non-carbonate soils during incubation. <i>Pedosphere</i> , <b>2022</b> , 32, 452-462	5	0
272	INTERCONNECTING SOIL ORGANIC MATTER WITH NITROGEN AND PHOSPHORUS CYCLING <b>2022</b> , 51-77		
271	Home-Field Advantage of Litter Decomposition Faded 8 Years after Spruce Forest Clearcutting in Western Germany. <i>Soil Systems</i> , <b>2022</b> , 6, 26	3.5	0
270	Soil OC and N Stocks in the Saline Soil of Tunisian Gataaya Oasis Eight Years after Application of Manure and Compost. <i>Land</i> , <b>2022</b> , 11, 442	3.5	1
269	Low-level nitrogen and short-term addition increase soil carbon sequestration in Chinese forest ecosystems. <i>Catena</i> , <b>2022</b> , 215, 106333	5.8	1
268	GPR and EMI Characterization of the Hyperarid Study Site of Yungay, Chile: Implications of Applying Geophysical Methods on Mars. <i>Earth and Space Science</i> , <b>2021</b> , 8, e2021EA001790	3.1	0
267	Phenoloxidase activity and organic carbon dynamics in historic Anthrosols in Scotland, UK. <i>PLoS ONE</i> , <b>2021</b> , 16, e0259205	3.7	0
266	Bentonite clay combined with organic amendments to enhance soil fertility in oasis agrosystem. <i>Arabian Journal of Geosciences</i> , <b>2021</b> , 14, 1	1.8	3
265	Carbon stability in a Scottish lowland raised bog: potential legacy effects of historical land use and implications for global change. <i>Soil Biology and Biochemistry</i> , <b>2021</b> , 154, 108124	7.5	2
264	Organic Carbon Linkage with Soil Colloidal Phosphorus at Regional and Field Scales: Insights from Size Fractionation of Fine Particles. <i>Environmental Science &amp; Technology</i> , <b>2021</b> , 55, 5815-5825	10.3	5
263	Describing Phosphorus Sorption Processes on Volcanic Soil in the Presence of Copper or Silver Engineered Nanoparticles. <i>Minerals (Basel, Switzerland)</i> , <b>2021</b> , 11, 373	2.4	0
262	Colloidal catchment response to snowmelt and precipitation events differs in a forested headwater catchment. <i>Vadose Zone Journal</i> , <b>2021</b> , 20, e20126	2.7	1

261	Variation in the rate of land subsidence induced by groundwater extraction and its effect on the response pattern of soil microbial communities. <i>Earth Surface Processes and Landforms</i> , <b>2021</b> , 46, 1898-1908	3.7	0
260	Exponential relationship between N <sub>2</sub> O emission and fertilizer nitrogen input and mechanisms for improving fertilizer nitrogen efficiency under intensive plastic-shed vegetable production in China: A systematic analysis. <i>Agriculture, Ecosystems and Environment</i> , <b>2021</b> , 312, 107353	5.7	4
259	Citric Acid Effect on the Abundance, Size and Composition of Water-Dispersible Soil Colloids and Its Relationship to Soil Phosphorus Desorption: A Case Study. <i>Journal of Soil Science and Plant Nutrition</i> , <b>2021</b> , 21, 2436-2446	3.2	0
258	Cellulose-Based Hectocycle Nanopolymers: Synthesis, Molecular Docking and Adsorption of Difenconazole from Aqueous Medium. <i>International Journal of Molecular Sciences</i> , <b>2021</b> , 22,	6.3	4
257	Microbial potential for denitrification in the hyperarid Atacama Desert soils. <i>Soil Biology and Biochemistry</i> , <b>2021</b> , 157, 108248	7.5	4
256	Influences of irrigation and fertilization on soil N cycle and losses from wheat-maize cropping system in northern China. <i>Environmental Pollution</i> , <b>2021</b> , 278, 116852	9.3	6
255	Iron isotope fractionation in soil and graminaceous crops after 100 years of liming in the long-term agricultural experimental site at Berlin-Dahlem, Germany. <i>European Journal of Soil Science</i> , <b>2021</b> , 72, 289-299	3.4	1
254	A century of liming affects the Mg isotopic composition of the soil and crops in a long-term agricultural field at Berlin-Dahlem, Germany. <i>European Journal of Soil Science</i> , <b>2021</b> , 72, 300-312	3.4	0
253	Meet the Editors - Roland Bol. <i>Rapid Communications in Mass Spectrometry</i> , <b>2021</b> , 35, e9026	2.2	
252	Stable isotopic signatures of carbon and nitrogen in soil aggregates following the conversion of natural forests to managed plantations in eastern China. <i>Plant and Soil</i> , <b>2021</b> , 459, 371-385	4.2	3
251	Forest Soil Colloids Enhance Delivery of Phosphorus Into a Diffusive Gradient in Thin Films (DGT) Sink. <i>Frontiers in Forests and Global Change</i> , <b>2021</b> , 3,	3.7	4
250	Long-Term Compost Application and the Impact of Soil P Legacy on the Enhancement of Early Maize Growth. <i>Journal of Soil Science and Plant Nutrition</i> , <b>2021</b> , 21, 873-881	3.2	0
249	Redox-driven changes in water-dispersible colloids and their role in carbon cycling in hydromorphic soils. <i>Geoderma</i> , <b>2021</b> , 385, 114894	6.7	2
248	Distributions of straw-derived carbon in Mollisol's aggregates under different fertilization practices. <i>Scientific Reports</i> , <b>2021</b> , 11, 17899	4.9	1
247	Differential long-term fertilization alters residue-derived labile organic carbon fractions and microbial community during straw residue decomposition. <i>Soil and Tillage Research</i> , <b>2021</b> , 213, 105120	6.5	1
246	Water dispersible colloids and related nutrient availability in Amazonian Terra Preta soils. <i>Geoderma</i> , <b>2021</b> , 397, 115103	6.7	3
245	Phosphate oxygen isotope fingerprints of past biological activity in the Atacama Desert. <i>Geochimica Et Cosmochimica Acta</i> , <b>2021</b> , 311, 1-11	5.5	1
244	What is the deal with the Green Deal: Will the new strategy help to improve European freshwater quality beyond the Water Framework Directive?. <i>Science of the Total Environment</i> , <b>2021</b> , 791, 148080	10.2	7

243	Novel, Environment-Friendly Cellulose-Based Derivatives for Tetraconazole Removal from Aqueous Solution. <i>Polymers</i> , <b>2021</b> , 13,	4.5	3
242	Microbial assimilation dynamics differs but total mineralization from added root and shoot residues is similar in agricultural Alfisols. <i>Soil Biology and Biochemistry</i> , <b>2020</b> , 148, 107901	7.5	6
241	Resilience in coastal dune grasslands: pH and soil organic matter effects on P nutrition, plant strategies, and soil communities. <i>Ecosphere</i> , <b>2020</b> , 11, e03112	3.1	6
240	Rhizosphere processes in nitrate-rich barley soil tripled both N <sub>2</sub> O and N <sub>2</sub> losses due to enhanced bacterial and fungal denitrification. <i>Plant and Soil</i> , <b>2020</b> , 448, 509-522	4.2	10
239	Intensive organic vegetable production increases soil organic carbon but with a lower carbon conversion efficiency than integrated management. <i>Journal of Plant Nutrition and Soil Science</i> , <b>2020</b> , 183, 155-168	2.3	2
238	Non-critical uranium accumulation in soils of German and Danish long-term fertilizer experiments. <i>Geoderma</i> , <b>2020</b> , 370, 114336	6.7	7
237	Critical accumulation of fertilizer-derived uranium in Icelandic grassland Andosol. <i>Environmental Sciences Europe</i> , <b>2020</b> , 32,	5	4
236	Tracing elevational changes in microbial life and organic carbon sources in soils of the Atacama Desert. <i>Global and Planetary Change</i> , <b>2020</b> , 184, 103078	4.2	18
235	Coevolution of uranium concentration and oxygen stable isotope in phosphate rocks. <i>Applied Geochemistry</i> , <b>2020</b> , 114, 104476	3.5	5
234	Contrasting depth distribution of colloid-associated phosphorus in the active and abandoned sections of an alluvial fan in a hyper-arid region of the Atacama Desert. <i>Global and Planetary Change</i> , <b>2020</b> , 185, 103090	4.2	6
233	Enhanced soil aggregate stability limits colloidal phosphorus loss potentials in agricultural systems. <i>Environmental Sciences Europe</i> , <b>2020</b> , 32,	5	9
232	Enhanced Ibuprofen Adsorption and Desorption on Synthesized Functionalized Magnetic Multiwall Carbon Nanotubes from Aqueous Solution. <i>Materials</i> , <b>2020</b> , 13,	3.5	17
231	Towards a global-scale soil climate mitigation strategy. <i>Nature Communications</i> , <b>2020</b> , 11, 5427	17.4	87
230	Bioavailability and -accessibility of subsoil allocated P-labelled hydroxyapatite to wheat under different moisture supply. <i>Scientific Reports</i> , <b>2020</b> , 10, 17140	4.9	2
229	Magnetic Multiwall Carbon Nanotube Decorated with Novel Functionalities: Synthesis and Application as Adsorbents for Lead Removal from Aqueous Medium. <i>Processes</i> , <b>2020</b> , 8, 986	2.9	7
228	Uranium Vertical and Lateral Distribution in a German Forested Catchment. <i>Forests</i> , <b>2020</b> , 11, 1351	2.8	0
227	Nitrogen Additions Retard Nutrient Release from Two Contrasting Foliar Litters in a Subtropical Forest, Southwest China. <i>Forests</i> , <b>2020</b> , 11, 377	2.8	2
226	Soil Organic Matter Composition in Coastal and Continental Date Palm Systems: Insights from Tunisian Oases. <i>Pedosphere</i> , <b>2019</b> , 29, 444-456	5	10

225	Occurrence of Soil Fungi in Antarctic Pristine Environments. <i>Frontiers in Bioengineering and Biotechnology</i> , <b>2019</b> , 7, 28	5.8	34
224	Soil organic matter priming and carbon balance after straw addition is regulated by long-term fertilization. <i>Soil Biology and Biochemistry</i> , <b>2019</b> , 135, 383-391	7.5	35
223	Carbon accrual in the Atacama Desert. <i>Global and Planetary Change</i> , <b>2019</b> , 181, 102993	4.2	20
222	Insights into 33phosphorus utilisation from Fe- and Al-hydroxides in Luvisol and Ferralsol subsoils. <i>Soil Research</i> , <b>2019</b> , 57, 447	1.8	2
221	Quantifying NO reduction to N during denitrification in soils via isotopic mapping approach: Model evaluation and uncertainty analysis. <i>Environmental Research</i> , <b>2019</b> , 179, 108806	7.9	29
220	Effects of land use change from natural forest to plantation on C, N and natural abundance of C and N along a climate gradient in eastern China. <i>Scientific Reports</i> , <b>2019</b> , 9, 16516	4.9	11
219	Variation of C and N enrichments in different plant components of labeled winter wheat ( L.). <i>PeerJ</i> , <b>2019</b> , 7, e7738	3.1	1
218	Soil NO <sub>3</sub> level and O <sub>2</sub> availability are key factors in controlling N <sub>2</sub> O reduction to N <sub>2</sub> following long-term liming of an acidic sandy soil. <i>Soil Biology and Biochemistry</i> , <b>2019</b> , 132, 165-173	7.5	29
217	Iron cycling and isotope fractionation in terrestrial ecosystems. <i>Earth-Science Reviews</i> , <b>2019</b> , 190, 323-352	20.2	29
216	Conservation farming practices in winter wheat/summer maize cropping reduce GHG emissions and maintain high yields. <i>Agriculture, Ecosystems and Environment</i> , <b>2019</b> , 272, 266-275	5.7	20
215	Improved isotopic model based on N tracing and Rayleigh-type isotope fractionation for simulating differential sources of N O emissions in a clay grassland soil. <i>Rapid Communications in Mass Spectrometry</i> , <b>2019</b> , 33, 449-460	2.2	3
214	Measuring root system traits of wheat in 2D images to parameterize 3D root architecture models. <i>Plant and Soil</i> , <b>2018</b> , 425, 457-477	4.2	16
213	Leaching of natural colloids from forest topsoils and their relevance for phosphorus mobility. <i>Science of the Total Environment</i> , <b>2018</b> , 634, 305-315	10.2	42
212	Isotopic methods for non-destructive assessment of carbon dynamics in shrublands under long-term climate change manipulation. <i>Methods in Ecology and Evolution</i> , <b>2018</b> , 9, 866-880	7.7	2
211	Allocation of photosynthesized carbon in an intensively farmed winter wheat-soil system as revealed by CO pulse labelling. <i>Scientific Reports</i> , <b>2018</b> , 8, 3160	4.9	11
210	Potential dual effect of nitrification inhibitor 3,4-dimethylpyrazole phosphate on nitrifier denitrification in the mitigation of peak N <sub>2</sub> O emission events in North China Plain cropping systems. <i>Soil Biology and Biochemistry</i> , <b>2018</b> , 121, 147-153	7.5	25
209	Organic phosphorus in the terrestrial environment: a perspective on the state of the art and future priorities. <i>Plant and Soil</i> , <b>2018</b> , 427, 191-208	4.2	87
208	Greenhouse gas emissions during storage of manure and digestates: Key role of methane for prediction and mitigation. <i>Agricultural Systems</i> , <b>2018</b> , 166, 26-35	6.1	28

207	Rapid wet chemical synthesis for $^{33}\text{P}$ -labelled hydroxyapatite [An approach for environmental research. <i>Applied Geochemistry</i> , <b>2018</b> , 97, 181-186	3.5	8
206	Challenges of Reducing Phosphorus Based Water Eutrophication in the Agricultural Landscapes of Northwest Europe. <i>Frontiers in Marine Science</i> , <b>2018</b> , 5,	4.5	54
205	Effect of long-term drainage on plant community, soil carbon and nitrogen contents and stable isotopic ( $\delta^{13}\text{C}$ , $\delta^{15}\text{N}$ ) composition of a permanent grassland. <i>European Journal of Soil Science</i> , <b>2018</b> , 69, 48-68	3.4	2
204	Phosphorus in water dispersible-colloids of forest soil profiles. <i>Plant and Soil</i> , <b>2018</b> , 427, 71-86	4.2	25
203	Moisture activation and carbon use efficiency of soil microbial communities along an aridity gradient in the Atacama Desert. <i>Soil Biology and Biochemistry</i> , <b>2018</b> , 117, 68-71	7.5	30
202	Straw amendment with nitrate-N decreased $\text{N}_2\text{O}/(\text{N}_2\text{O}+\text{N}_2)$ ratio but increased soil $\text{N}_2\text{O}$ emission: A case study of direct soil-born $\text{N}_2$ measurements. <i>Soil Biology and Biochemistry</i> , <b>2018</b> , 127, 301-304	7.5	28
201	Historical charcoal additions alter water extractable, particulate and bulk soil C composition and stabilization. <i>Journal of Plant Nutrition and Soil Science</i> , <b>2018</b> , 181, 809-817	2.3	13
200	Interaction of straw amendment and soil $\text{NO}_3^-$ content controls fungal denitrification and denitrification product stoichiometry in a sandy soil. <i>Soil Biology and Biochemistry</i> , <b>2018</b> , 126, 204-212	7.5	36
199	Isotopic evidence of biotrophy and unusual nitrogen nutrition in soil-dwelling Hygrophoraceae. <i>Environmental Microbiology</i> , <b>2018</b> , 20, 3573-3588	5.2	12
198	The TERENO-Rur Hydrological Observatory: A Multiscale Multi-Compartment Research Platform for the Advancement of Hydrological Science. <i>Vadose Zone Journal</i> , <b>2018</b> , 17, 180055	2.7	48
197	Effect of biochar origin and soil pH on greenhouse gas emissions from sandy and clay soils. <i>Applied Soil Ecology</i> , <b>2018</b> , 129, 121-127	5	65
196	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> , <b>2018</b> , 15, 1933-1946	4.6	50
195	Mitigating $\text{N}_2\text{O}$ 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> , <b>2017</b> , 104, 95-107	7.5	23
194	A Three-Dimensional View on Soil Biogeochemistry: A Dataset for a Forested Headwater Catchment. <i>Journal of Environmental Quality</i> , <b>2017</b> , 46, 210-218	3.4	15
193	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> , <b>2017</b> , 596-597, 61-68	10.2	49
192	An evaluation of the hysteresis in chemical concentration-discharge ( $\text{CQ}$ ) relationships from drained, intensively managed grasslands in southwest England. <i>Hydrological Sciences Journal</i> , <b>2017</b> , 62, 1243-1254	3.5	8
191	Altitude affects the quality of the water-extractable organic matter (WEOM) from rhizosphere and bulk soil in European beech forests. <i>Geoderma</i> , <b>2017</b> , 302, 6-13	6.7	29
190	The effect of nitrification inhibitor on $\text{N}_2\text{O}$ , $\text{NO}$ and $\text{N}_2$ emissions under different soil moisture levels in a permanent grassland soil. <i>Soil Biology and Biochemistry</i> , <b>2017</b> , 113, 153-160	7.5	48

189	To Extract, or not to Extract Uranium from Phosphate Rock, that is the Question. <i>Environmental Science &amp; Technology</i> , <b>2017</b> , 51, 753-754	10.3	32
188	Study of uranium toxicity using low-background gamma-ray spectrometry. <i>Journal of Radioanalytical and Nuclear Chemistry</i> , <b>2017</b> , 314, 1367-1373	1.5	6
187	Elemental Composition of Natural Nanoparticles and Fine Colloids in European Forest Stream Waters and Their Role as Phosphorus Carriers. <i>Global Biogeochemical Cycles</i> , <b>2017</b> , 31, 1592-1607	5.9	33
186	Phosphorus Binding to Nanoparticles and Colloids in Forest Stream Waters. <i>Vadose Zone Journal</i> , <b>2017</b> , 16, vjz2016.07.0064	2.7	37
185	Effect of soil saturation on denitrification in a grassland soil. <i>Biogeosciences</i> , <b>2017</b> , 14, 4691-4710	4.6	20
184	Spatiotemporal Analysis of Dissolved Organic Carbon and Nitrate in Waters of a Forested Catchment Using Wavelet Analysis. <i>Vadose Zone Journal</i> , <b>2017</b> , 16, vjz2016.09.0077	2.7	15
183	Colloid-bound and dissolved phosphorus species in topsoil water extracts along a grassland transect from Cambisol to Stagnosol. <i>Biogeosciences</i> , <b>2017</b> , 14, 1153-1164	4.6	24
182	A Dataset for Three-Dimensional Distribution of 39 Elements Including Plant Nutrients and Other Metals and Metalloids in the Soils of a Forested Headwater Catchment. <i>Journal of Environmental Quality</i> , <b>2017</b> , 46, 1510-1518	3.4	5
181	Soil organic phosphorus transformations during 2000 years of paddy-rice and non-paddy management in the Yangtze River Delta, China. <i>Scientific Reports</i> , <b>2017</b> , 7, 10818	4.9	4
180	Biogas Digester Hydraulic Retention Time Affects Oxygen Consumption Patterns and Greenhouse Gas Emissions after Application of Digestate to Soil. <i>Journal of Environmental Quality</i> , <b>2017</b> , 46, 1114-1122	3.4	4
179	Effects of cattle slurry and nitrification inhibitor application on spatial soil O <sub>2</sub> dynamics and N <sub>2</sub> O production pathways. <i>Soil Biology and Biochemistry</i> , <b>2017</b> , 114, 200-209	7.5	26
178	Nitrification inhibitor's effect on mitigating N <sub>2</sub> O emissions was weakened by urease inhibitor in calcareous soils. <i>Atmospheric Environment</i> , <b>2017</b> , 166, 142-150	5.3	21
177	Impacts of natural factors and farming practices on greenhouse gas emissions in the North China Plain: A meta-analysis. <i>Ecology and Evolution</i> , <b>2017</b> , 7, 6702-6715	2.8	15
176	Nitrification inhibitors mitigate N <sub>2</sub> O emissions more effectively under straw-induced conditions favoring denitrification. <i>Soil Biology and Biochemistry</i> , <b>2017</b> , 104, 197-207	7.5	66
175	Characterization of organic carbon in decomposing litter exposed to nitrogen and sulfur additions: Links to microbial community composition and activity. <i>Geoderma</i> , <b>2017</b> , 286, 116-124	6.7	25
174	Effect of past peat cultivation practices on present dynamics of dissolved organic carbon. <i>Science of the Total Environment</i> , <b>2017</b> , 574, 1243-1253	10.2	17
173	Coupled incorporation of maize ( <i>Zea mays</i> L.) straw with nitrogen fertilizer increased soil organic carbon in Fluvisol Cambisol. <i>Geoderma</i> , <b>2017</b> , 304, 19-27	6.7	44
172	Contrasting temperature responses of dissolved organic carbon and phenols leached from soils. <i>Plant and Soil</i> , <b>2016</b> , 399, 13-27	4.2	14

171	Soil organic matter amendments in date palm groves of the Middle Eastern and North African region: a mini-review. <i>Journal of Arid Land</i> , <b>2016</b> , 8, 77-92	2.2	15
170	Stage-specific response of litter decomposition to N and S amendments in a subtropical forest soil. <i>Biology and Fertility of Soils</i> , <b>2016</b> , 52, 711-724	6.1	22
169	Phosphorus forms in forest soil colloids as revealed by liquid-state <sup>31</sup> P-NMR. <i>Journal of Plant Nutrition and Soil Science</i> , <b>2016</b> , 179, 159-167	2.3	42
168	Impact of anthropogenic induced nitrogen input and liming on phosphorus leaching in forest soils. <i>Journal of Plant Nutrition and Soil Science</i> , <b>2016</b> , 179, 443-453	2.3	29
167	Dissolved and colloidal phosphorus fluxes in forest ecosystems—An almost blind spot in ecosystem research. <i>Journal of Plant Nutrition and Soil Science</i> , <b>2016</b> , 179, 425-438	2.3	99
166	Long-term management changes topsoil and subsoil organic carbon and nitrogen dynamics in a temperate agricultural system. <i>European Journal of Soil Science</i> , <b>2016</b> , 67, 421-430	3.4	52
165	Not poles apart: Antarctic soil fungal communities show similarities to those of the distant Arctic. <i>Ecology Letters</i> , <b>2016</b> , 19, 528-36	10	61
164	N <sub>2</sub> O source partitioning in soils using ( <sup>15</sup> N site preference values corrected for the N <sub>2</sub> O reduction effect. <i>Rapid Communications in Mass Spectrometry</i> , <b>2016</b> , 30, 620-6	2.2	20
163	Effect of beech ( <i>Fagus sylvatica</i> L.) rhizosphere on phosphorous availability in soils at different altitudes (Central Italy). <i>Geoderma</i> , <b>2016</b> , 276, 53-63	6.7	29
162	The contribution of hydroxylamine content to spatial variability of N <sub>2</sub> O formation in soil of a Norway spruce forest. <i>Geochimica Et Cosmochimica Acta</i> , <b>2016</b> , 178, 76-86	5.5	14
161	Comparison of extraction efficiencies for water-transportable phenols from different land uses. <i>Organic Geochemistry</i> , <b>2016</b> , 102, 45-51	3.1	3
160	Anaerobic digestates lower N <sub>2</sub> O emissions compared to cattle slurry by affecting rate and product stoichiometry of denitrification—An N <sub>2</sub> O isotopomer case study. <i>Soil Biology and Biochemistry</i> , <b>2015</b> , 84, 65-74	7.5	39
159	Land use and soil factors affecting accumulation of phosphorus species in temperate soils. <i>Geoderma</i> , <b>2015</b> , 257-258, 29-39	6.7	98
158	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> , <b>2015</b> , 58, 61-75	4.6	44
157	Phosphorus Containing Water Dispersible Nanoparticles in Arable Soil. <i>Journal of Environmental Quality</i> , <b>2015</b> , 44, 1772-81	3.4	38
156	Isotope fractionation factors controlling isotopocule signatures of soil-emitted N <sub>2</sub> O produced by denitrification processes of various rates. <i>Rapid Communications in Mass Spectrometry</i> , <b>2015</b> , 29, 269-82	2.2	40
155	Spatio-temporal Variations of Dissolved Organic Matter in a German Forested Mountainous Headwater Catchment. <i>Vadose Zone Journal</i> , <b>2015</b> , 14, vjz2015.01.0005	2.7	8
154	Speciation and distribution of P associated with Fe and Al oxides in aggregate-sized fraction of an arable soil. <i>Biogeosciences</i> , <b>2015</b> , 12, 6443-6452	4.6	47



153	Potential use of rare earth oxides as tracers of organic matter in grassland. <i>Journal of Plant Nutrition and Soil Science</i> , <b>2015</b> , 178, 288-296	2.3	3
152	Innovative methods in soil phosphorus research: A review. <i>Journal of Plant Nutrition and Soil Science</i> , <b>2015</b> , 178, 43-88	2.3	189
151	Quantifying the spatial variability of soil physical and chemical properties in relation to mitigation of diffuse water pollution. <i>Geoderma</i> , <b>2014</b> , 214-215, 25-41	6.7	34
150	Flooding effects on soil phenol oxidase activity and phenol release during rice straw decomposition. <i>Journal of Plant Nutrition and Soil Science</i> , <b>2014</b> , 177, 541-547	2.3	13
149	Sorption of inositol hexaphosphate on desert soils. <i>Geoderma</i> , <b>2014</b> , 232-234, 573-580	6.7	19
148	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> , <b>2014</b> , 119, 2345-2357	3.7	25
147	Distribution of Phosphorus-Containing Fine Colloids and Nanoparticles in Stream Water of a Forest Catchment. <i>Vadose Zone Journal</i> , <b>2014</b> , 13, vj2014.01.0005	2.7	46
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145	Bacteria and fungi respond differently to multifactorial climate change in a temperate heathland, traced with <sup>13</sup> C-glycine and FACE CO <sub>2</sub> . <i>PLoS ONE</i> , <b>2014</b> , 9, e85070	3.7	33
144	Carbon and nitrogen in soil and vine roots in harrowed and grass-covered vineyards. <i>Agriculture, Ecosystems and Environment</i> , <b>2014</b> , 193, 70-82	5.7	43
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133	Soil mineral N retention and N(2) O emissions following combined application of (15) N-labelled fertiliser and weed residues. <i>Rapid Communications in Mass Spectrometry</i> , <b>2012</b> , 26, 2379-85	2.2	10
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123	Natural abundance radiocarbon in soil microbial biomass: Results from a glacial foreland. <i>Soil Biology and Biochemistry</i> , <b>2011</b> , 43, 1356-1361	7.5	5
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118	Long-term release of carbon from grassland soil amended with different slurry particle size fractions: a laboratory incubation study. <i>Rapid Communications in Mass Spectrometry</i> , <b>2011</b> , 25, 1514-20	2.2	7

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22	Molecular insight into soil carbon turnover. <i>Rapid Communications in Mass Spectrometry</i> , <b>1999</b> , 13, 1278-1283	1.13	
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20	A dynamic study of earthworm feeding ecology -using stable isotopes. <i>Rapid Communications in Mass Spectrometry</i> , <b>1999</b> , 13, 1300-1304	2.2	15
19	Interpreting early land management through compound specific stable isotope analyses of archaeological soils. <i>Rapid Communications in Mass Spectrometry</i> , <b>1999</b> , 13, 1315-1319	2.2	29
18	Short-term changes in $\delta(^{13}\text{C})$ and $\delta(^{15}\text{N})$ signatures of water discharged from grazed grasslands. <i>Rapid Communications in Mass Spectrometry</i> , <b>1999</b> , 13, 1803-7	2.2	4
17	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> , <b>1999</b> , 35, 97-109	1.5	26
16	Estimating the contribution of <i>Spartina anglica</i> biomass to salt-marsh sediments using compound specific stable carbon isotope measurements. <i>Organic Geochemistry</i> , <b>1999</b> , 30, 477-483	3.1	19
15	Climatic influences on the leaching of dissolved organic matter from upland UK moorland soils, investigated by a field manipulation experiment. <i>Environment International</i> , <b>1999</b> , 25, 83-95	12.9	188
14	Compound specific $\delta^{15}\text{N}$ values: amino acids in grassland and arable soils. <i>Soil Biology and Biochemistry</i> , <b>1999</b> , 31, 1751-1755	7.5	39
13	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> , <b>1998</b> , 49, 1-15	3.4	96
12	$\delta^{13}\text{C}$ values of soil organic carbon and their use in documenting vegetation change in a subtropical savanna ecosystem. <i>Geoderma</i> , <b>1998</b> , 82, 5-41	6.7	392
11	Effects of Long-Term Fertilizer and Manure Treatments on the Distribution and $^{15}\text{N}$ Natural Abundance of Amino Acids in the Palace Leas Meadow Hay Plots: A Preliminary Study. <i>ACS Symposium Series</i> , <b>1998</b> , 309-320	0.4	5
10	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> , <b>1997</b> , 26, 497-501	3.1	75



9	Compound-specific $\delta^{15}\text{N}$ amino acid signals in palaeosols as indicators of early land use: a preliminary study. <i>Archaeological Prospection</i> , <b>1997</b> , 4, 147-152	1.8	15
8	Amino Acid ( $^{15}\text{N}$ )/( $^{14}\text{N}$ ) analysis at natural abundances: a new tool for soil organic matter studies in agricultural systems. <i>Isotopes in Environmental and Health Studies</i> , <b>1997</b> , 33, 87-93	1.5	13
7	Post-glacial variations in distributions, $^{13}\text{C}$ and $^{14}\text{C}$ contents of aliphatic hydrocarbons and bulk organic matter in three types of British acid upland soils. <i>Organic Geochemistry</i> , <b>1996</b> , 24, 273-287	3.1	114
6	The $^{14}\text{C}$ age and residence time of organic matter and its lipid constituents in a staghomic gley soil. <i>European Journal of Soil Science</i> , <b>1996</b> , 47, 215-222	3.4	64
5	Quantification of soil carbon inputs under elevated $\text{CO}_2$ : $\text{C}_3$ plants in a $\text{C}_4$ soil. <i>Plant and Soil</i> , <b>1995</b> , 187, 345-350	4.2	86
4	The Use of Zeolite Molecular Sieves for Trapping Low Concentrations of $\text{CO}_2$ from Environmental Atmospheres. <i>Radiocarbon</i> , <b>1995</b> , 37, 643-647	4.6	22
3	Straw incorporation increases crop yield and soil organic carbon sequestration but varies under different natural conditions and farming practices in China: a system analysis		2
2	Speciation and distribution of P associated with Fe and Al oxides in aggregate-sized fraction of an arable soil		4
1	Carbon isotopic composition of branched tetraether membrane lipids in soils suggest a rapid turnover and a heterotrophic life style of their source organism(s)		11