Karl G Richards

List of Publications by Year
in descending order

166 papers	4,603 citations	109264 35 h-index	155592 55 g-index
183 all docs	183 docs citations	183 times ranked	4735 citing authors

#	Article	IF	Citations
1	Management, regulation and environmental impacts of nitrogen fertilization in northwestern Europe under the Nitrates Directive; a benchmark study. Biogeosciences, 2012, 9, 5143-5160.	1.3	162
2	Microbial Contamination of Fresh Produce: What, Where, and How?. Comprehensive Reviews in Food Science and Food Safety, 2019, 18, 1727-1750.	5.9	143
3	Denitrification potential in subsoils: A mechanism to reduce nitrate leaching to groundwater. Agriculture, Ecosystems and Environment, 2012, 147, 13-23.	2.5	139
4	Reducing nitrous oxide emissions by changing N fertiliser use from calcium ammonium nitrate (CAN) to urea based formulations. Science of the Total Environment, 2016, 563-564, 576-586.	3.9	126
5	Combining stable isotopes with contamination indicators: A method for improved investigation of nitrate sources and dynamics in aquifers with mixed nitrogen inputs. Water Research, 2017, 124, 85-96.	5.3	112
6	Modelling soil phosphorus decline: Expectations of Water Framework Directive policies. Environmental Science and Policy, 2010, 13, 472-484.	2.4	108
7	Exploring nitrogen indicators of farm performance among farm types across several European case studies. Agricultural Systems, 2020, 177, 102689.	3.2	102
8	Long-Term Persistence and Leaching ofEscherichia coliin Temperate Maritime Soils. Applied and Environmental Microbiology, 2010, 76, 1449-1455.	1.4	97
9	Improving and disaggregating N2O emission factors for ruminant excreta on temperate pasture soils. Science of the Total Environment, 2016, 568, 327-338.	3.9	73
10	In situ denitrification and DNRA rates in groundwater beneath an integrated constructed wetland. Water Research, 2017, 111, 254-264.	5.3	73
11	Time lag: a methodology for the estimation of vertical and horizontal travel and flushing timescales to nitrate threshold concentrations in Irish aquifers. Environmental Science and Policy, 2011, 14, 419-431.	2.4	72
12	Urease and Nitrification Inhibitorsâ€"As Mitigation Tools for Greenhouse Gas Emissions in Sustainable Dairy Systems: A Review. Sustainability, 2020, 12, 6018.	1.6	71
13	Denitrification and indirect N2O emissions in groundwater: Hydrologic and biogeochemical influences. Journal of Contaminant Hydrology, 2013, 152, 70-81.	1.6	70
14	Dairy industry derived wastewater treatment sludge: Generation, type and characterization of nutrients and metals for agricultural reuse. Journal of Cleaner Production, 2019, 230, 1266-1275.	4.6	70
15	Evaluation of Cover Crop and Reduced Cultivation for Reducing Nitrate Leaching in Ireland. Journal of Environmental Quality, 2008, 37, 138-145.	1.0	67
16	Phylogenetic and functional potential links pH and N2O emissions in pasture soils. Scientific Reports, 2016, 6, 35990.	1.6	67
17	Anaerobic digestion of agricultural manure and biomass â€“ Critical indicators of risk and knowledge gaps. Science of the Total Environment, 2019, 690, 460-479.	3.9	67
18	Factors affecting nitrate distribution in shallow groundwater under a beef farm in South Eastern Ireland. Journal of Environmental Management, 2009, 90, 3135-3146.	3.8	66

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19	Ammonia emissions from urea, stabilized urea and calcium ammonium nitrate: insights into loss abatement in temperate grassland. Soil Use and Management, 2016, 32, 92-100.	2.6	66
20	High-Resolution Denitrification Kinetics in Pasture Soils Link N2O Emissions to pH, and Denitrification to C Mineralization. PLoS ONE, 2016, 11, e0151713.	1.1	62
21	Characterization of Environmentally Persistent Escherichia coli Isolates Leached from an Irish Soil. Applied and Environmental Microbiology, 2010, 76, 2175-2180.	1.4	61
22	Mobilisation or dilution? Nitrate response of karst springs to high rainfall events. Hydrology and Earth System Sciences, 2014, 18, 4423-4435.	1.9	60
23	Confirmation of co-denitrification in grazed grassland. Scientific Reports, 2015, 5, 17361.	1.6	59
24	Groundwater nitrate reduction versus dissolved gas production: A tale of two catchments. Science of the Total Environment, 2017, 586, 372-389.	3.9	59
25	Carbon and nitrogen dynamics and greenhouse gas emissions in constructed wetlands treating wastewater: a review. Hydrology and Earth System Sciences, 2016, 20, 109-123.	1.9	54
26	Review: the environmental status and implications of the nitrate time lag in Europe and North America. Hydrogeology Journal, 2018, 26, 7-22.	0.9	53
27	Groundwater: A pathway for terrestrial C and N losses and indirect greenhouse gas emissions. Agriculture, Ecosystems and Environment, 2012, 159, 40-48.	2.5	48
28	Ranking hazards pertaining to human health concerns from land application of anaerobic digestate. Science of the Total Environment, 2020, 710, 136297.	3.9	47
29	The effects of dairy cow weight on selected soil physical properties indicative of compaction. Soil Use and Management, 2011, 27, 36-44.	2.6	46
30	A review of nitrous oxide mitigation by farm nitrogen management inÂtemperate grassland-based agriculture. Journal of Environmental Management, 2013, 128, 893-903.	3.8	44
31	Influence of soil moisture on codenitrification fluxes from a urea-affected pasture soil. Scientific Reports, 2017, 7, 2185.	1.6	44
32	The effect of the nitrification inhibitor dicyandiamide (DCD) on nitrous oxide and methane emissions after cattle slurry application to Irish grassland. Agriculture, Ecosystems and Environment, 2015, 199, 339-349.	2.5	40
33	Impact of agronomic practices of an intensive dairy farm on nitrogen concentrations in a karst aquifer in Ireland. Agriculture, Ecosystems and Environment, 2013, 179, 187-199.	2.5	39
34	Enteropathogen survival in soil from different land-uses is predominantly regulated by microbial community composition. Applied Soil Ecology, 2015, 89, 76-84.	2.1	39
35	Evaluating the utility of 15N and 18O isotope abundance analyses to identify nitrate sources: A soil zone study. Water Research, 2012, 46, 3723-3736.	5.3	38
36	Impact of fertiliser nitrogen formulation, and N stabilisers on nitrous oxide emissions in spring barley. Agriculture, Ecosystems and Environment, 2016, 233, 229-237.	2.5	38

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37	Integrated assessment of agricultural nutrient pressures and legacies in karst landscapes. Agriculture, Ecosystems and Environment, 2017, 239, 246-256.	2.5	38
38	The effect of urinary nitrogen loading rate and a nitrification inhibitor on nitrous oxide emissions from a temperate grassland soil. Journal of Agricultural Science, 2014, 152, 159-171.	0.6	37
39	Coupling of surface water and groundwater nitrate-N dynamics in two permeable agricultural catchments. Journal of Agricultural Science, 2014, 152, 107-124.	0.6	36
40	Technical Note: Field experiences using UV/VIS sensors for high-resolution monitoring of nitrate in groundwater. Hydrology and Earth System Sciences, 2015, 19, 1589-1598.	1.9	36
41	Nitrogen fertilisers with urease inhibitors reduce nitrous oxide and ammonia losses, while retaining yield in temperate grassland. Science of the Total Environment, 2020, 725, 138329.	3.9	36
42	Carbon amendment and soil depth affect the distribution and abundance of denitrifiers in agricultural soils. Environmental Science and Pollution Research, 2016, 23, 7899-7910.	2.7	35
43	Linking hydrogeochemistry to nitrate abundance in groundwater in agricultural settings in Ireland. Journal of Hydrology, 2012, 448-449, 212-222.	2.3	34
44	Fungal and bacterial contributions to codenitrification emissions of N2O and N2 following urea deposition to soil. Nutrient Cycling in Agroecosystems, 2018, 110, 135-149.	1.1	34
45	Beneficial effects of multi-species mixtures on N2O emissions from intensively managed grassland swards. Science of the Total Environment, 2021, 792, 148163.	3.9	34
46	The nitrification inhibitor dicyandiamide increases mineralizationâ€“immobilization turnover in slurry-amended grassland soil. Journal of Agricultural Science, 2014, 152, 137-149.	0.6	33
47	Gross nitrogen transformations in grassland soil react differently to urea stabilisers under laboratory and field conditions. Soil Biology and Biochemistry, 2017, 109, 23-34.	4.2	32
48	Gaseous Nitrogen Losses from a Cambisol Cropped to Spring Wheat with Urea Sizes and Placement Depths. Soil Science Society of America Journal, 2009, 73, 1335-1344.	1.2	31
49	Increasing soil pH reduces fertiliser derived N2O emissions in intensively managed temperate grassland. Agriculture, Ecosystems and Environment, 2021, 311, 107319.	2.5	31
50	Determination and Occurrence of Phenoxyacetic Acid Herbicides and Their Transformation Products in Groundwater Using Ultra High Performance Liquid Chromatography Coupled to Tandem Mass Spectrometry. Molecules, 2014, 19, 20627-20649.	1.7	30
51	Slow delivery of a nitrification inhibitor (dicyandiamide) to soil using a biodegradable hydrogel of chitosan. Chemosphere, 2013, 93, 2854-2858.	4.2	29
52	Permeable reactive interceptors: blocking diffuse nutrient and greenhouse gases losses in key areas of the farming landscape. Journal of Agricultural Science, 2014, 152, 71-81.	0.6	29
53	In situ N2O emissions are not mitigated by hippuric and benzoic acids under denitrifying conditions. Science of the Total Environment, 2015, 511, 362-368.	3.9	29
54	An investigation of anticoccidial veterinary drugs as emerging organic contaminants in groundwater. Science of the Total Environment, 2020, 746, 141116.	3.9	29

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55	Application of plasma activated water for decontamination of alfalfa and mung bean seeds. Food Microbiology, 2021, 96, 103708.	2.1	29
56	Assessing the potential for the occurrence and character of preferential flow in three Irish grassland soils using image analysis. Geoderma, 2009, 153, 362-371.	2.3	28
57	Evaluation of headspace equilibration methods for quantifying greenhouse gases in groundwater. Journal of Environmental Management, 2012, 111, 208-212.	3.8	28
58	Hydrogeological characteristics influencing the occurrence of pesticides and pesticide metabolites in groundwater across the Republic of Ireland. Science of the Total Environment, 2017, 601-602, 594-602.	3.9	28
59	Slurry 15NH4-N recovery in herbage and soil: effects of application method and timing. Plant and Soil, 2010, 330, 357-368.	1.8	27
60	Insights into the low-temperature adaptation and nutritional flexibility of a soil-persistentEscherichia coli. FEMS Microbiology Ecology, 2013, 84, 75-85.	1.3	27
61	An analysis of the spatio-temporal occurrence of anthelmintic veterinary drug residues in groundwater. Science of the Total Environment, 2021, 769, 144804.	3.9	27
62	Quantification of In Situ Denitrification Rates in Groundwater Below an Arable and a Grassland System. Water, Air, and Soil Pollution, 2013, 224, 1.	1.1	26
63	Response to nitrogen addition reveals metabolic and ecological strategies of soil bacteria. Molecular Ecology, 2017, 26, 5500-5514.	2.0	26
64	Assessing the performance of three frequently used biogeochemical models when simulating N2O emissions from a range of soil types and fertiliser treatments. Geoderma, 2018, 331, 53-69.	2.3	25
65	Grassland Phosphorus and Nitrogen Fertiliser Replacement value of Dairy Processing Dewatered Sludge. Sustainable Production and Consumption, 2021, 25, 363-373.	5.7	25
66	Agricultural anaerobic digestion power plants in Ireland and Germany: policy and practice. Journal of the Science of Food and Agriculture, 2017, 97, 719-723.	1.7	24
67	Denitrification enzyme activity and potential of subsoils under grazed grasslands assayed by membrane inlet mass spectrometer. Soil Biology and Biochemistry, 2011, 43, 1787-1797.	4.2	23
68	Effects of field-manure applications on stratified 17Î²-estradiol concentrations. Journal of Hazardous Materials, 2011, 192, 748-752.	6.5	23
69	Effects of over-winter green cover on groundwater nitrate and dissolved organic carbon concentrations beneath tillage land. Science of the Total Environment, 2012, 438, 144-153.	3.9	23
70	Ammonia emissions from cattle dung, urine and urine with dicyandiamide in a temperate grassland. Soil Use and Management, 2016, 32, 83-91.	2.6	23
71	REDUCING NITRATE LOSSES FROM SIMULATED GRAZING ON GRASSLAND LYSIMETERS IN IRELAND USING A NITRIFICATION INHIBITOR (DICYANDIAMIDE). Biology and Environment, 2012, 112B, 79-89.	0.2	23
72	The effect of cattle slurry in combination with nitrate and the nitrification inhibitor dicyandiamide on in situ nitrous oxide and dinitrogen emissions. Biogeosciences, 2012, 9, 4909-4919.	1.3	22

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73	Scenarios to limit environmental nitrogen losses from dairy expansion. Science of the Total Environment, 2020, 707, 134606.	3.9	22
74	Quantitative solid phase microextraction â€“ Gas chromatography mass spectrometry analysis of the pesticides lindane, heptachlor and two heptachlor transformation products in groundwater. Journal of Chromatography A, 2013, 1284, 1-7.	1.8	21
75	Pesticide occurrence in groundwater and the physical characteristics in association with these detections in Ireland. Environmental Monitoring and Assessment, 2014, 186, 7819-7836.	1.3	21
76	Consequences of varied soil hydraulic and meteorological complexity on unsaturated zone time lag estimates. Journal of Contaminant Hydrology, 2014, 170, 53-67.	1.6	21
77	A framework for determining unsaturated zone water quality time lags at catchment scale. Agriculture, Ecosystems and Environment, 2017, 236, 234-242.	2.5	21
78	Assessing the impact of long-term soil phosphorus on N-transformation pathways using 15N tracing. Soil Biology and Biochemistry, 2021, 152, 108066.	4.2	20
79	Mixing dicyandiamide (DCD) with supplementary feeds for cattle: An effective method to deliver a nitrification inhibitor in urine patches. Agriculture, Ecosystems and Environment, 2016, 231, 114-121.	2.5	19
80	Nitrogen fertiliser interactions with urine deposit affect nitrous oxide emissions from grazed grasslands. Agriculture, Ecosystems and Environment, 2020, 290, 106784.	2.5	19
81	Application of 15N tracing for estimating nitrogen cycle processes in soils of a constructed wetland. Water Research, 2020, 183, 116062.	5.3	19
82	An on-farm survey of spatial and temporal stratifications of 17Î²-estradiol concentrations. Chemosphere, 2011, 82, 1683-1689.	4.2	18
83	The effect of renovation of long-term temperate grassland on N2O emissions and N leaching from contrasting soils. Science of the Total Environment, 2016, 560-561, 233-240.	3.9	18
84	The effect of carbon availability on N2O emissions is moderated by soil phosphorus. Soil Biology and Biochemistry, 2020, 142, 107726.	4.2	18
85	Biotic and abiotic predictors of potential N2O emissions from denitrification in Irish grasslands soils: A national-scale field study. Soil Biology and Biochemistry, 2022, 168, 108637.	4.2	18
86	The fate of slurry-N fractions in herbage and soil during two growing seasons following application. Plant and Soil, 2011, 342, 83-96.	1.8	17
87	The effect of precipitation and application rate on dicyandiamide persistence and efficiency in two Irish grassland soils. Soil Use and Management, 2015, 31, 367-374.	2.6	17
88	Can the agronomic performance of urea equal calcium ammonium nitrate across nitrogen rates in temperate grassland?. Soil Use and Management, 2017, 33, 243-251.	2.6	17
89	Development and Optimisation of a Multiresidue Method for the Determination of 40 Anthelmintic Compounds in Environmental Water Samples by Solid Phase Extraction (SPE) with LC-MS/MS Detection. Molecules, 2019, 24, 1978.	1.7	17
90	Sward composition and soil moisture conditions affect nitrous oxide emissions and soil nitrogen dynamics following urea-nitrogen application. Science of the Total Environment, 2020, 722, 137780.	3.9	16

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91	Differing effects of increasing calcium ammonium nitrate, urea and urea + NBPT fertiliser rates on nitrous oxide emission factors at six temperate grassland sites in Ireland. Agriculture, Ecosystems and Environment, 2021, 313, 107382.	2.5	16
92	Risk assessment of Escherichia coli in bioaerosols generated following land application of farmyard slurry. Science of the Total Environment, 2021, 791, 148189.	3.9	16
93	Abundance of denitrification genes under different peizometer depths in four Irish agricultural groundwater sites. Environmental Science and Pollution Research, 2013, 20, 6646-6657.	2.7	15
94	Effects of over-winter green cover on soil solution nitrate concentrations beneath tillage land. Science of the Total Environment, 2014, 470-471, 967-974.	3.9	15
95	Amendment of cattle slurry with the nitrification inhibitor dicyandiamide during storage: A new effective and practical N2O mitigation measure for landspreading. Agriculture, Ecosystems and Environment, 2016, 215, 68-75.	2.5	15
96	Temperate Grassland Yields and Nitrogen Uptake Are Influenced by Fertilizer Nitrogen Source. Agronomy Journal, 2017, 109, 71-79.	0.9	15
97	Gross N transformations vary with soil moisture and time following urea deposition to a pasture soil. Geoderma, 2021, 386, 114904.	2.3	15
98	Water Content and Soil Type Effects on Accelerated Leaching after Slurry Application. Vadose Zone Journal, 2012, 11, .	1.3	15
99	Toward Assessing Farm-Based Anaerobic Digestate Public Health Risks: Comparative Investigation With Slurry, Effect of Pasteurization Treatments, and Use of Miniature Bioreactors as Proxies for Pathogen Spiking Trials. Frontiers in Sustainable Food Systems, 2018, 2, .	1.8	14
100	Impact of nitrogen compounds on fungal and bacterial contributions to codenitrification in a pasture soil. Scientific Reports, 2019, 9, 13371.	1.6	14
101	Reduced tillage with residue retention and nitrogen application rate increase N2O fluxes from irrigated wheat in a subtropical floodplain soil. Agriculture, Ecosystems and Environment, 2021, 306, 107194.	2.5	14
102	Compositional changes in the hydrophobic acids fraction of drainage water from different land management practices. Water Research, 2010, 44, 4379-4390.	5.3	13
103	Exploring the relationship between groundwater geochemical factors and denitrification potentials on a dairy farm in southeast Ireland. Ecological Engineering, 2011, 37, 1304-1313.	1.6	13
104	A new sensitive method for the simultaneous chromatographic separation and tandem mass spectrometry detection of anticoccidials, including highly polar compounds, in environmental waters. Journal of Chromatography A, 2020, 1618, 460857.	1.8	13
105	Source partitioning using N2O isotopomers and soil WFPS to establish dominant N2O production pathways from different pasture sward compositions. Science of the Total Environment, 2021, 781, 146515.	3.9	13
106	Spatial and Temporal Variations of Nutrient Loads in Overland Flow and Subsurface Drainage from A Marginal Land Site in South-East Ireland. Biology and Environment, 2013, 113, 1-18.	0.2	13
107	An evaluation of urine patch simulation methods for nitrous oxide emission measurement. Journal of Agricultural Science, 2017, 155, 725-732.	0.6	12
108	Landspreading with co-digested cattle slurry, with or without pasteurisation, as a mitigation strategy against pathogen, nutrient and metal contamination associated with untreated slurry. Science of the Total Environment, 2020, 744, 140841.	3.9	12

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109	Mustard catch crop enhances denitrification in shallow groundwater beneath a spring barley field. Chemosphere, 2014, 103, 234-239.	4.2	11
110	Ammonia emissions from urine patches amended with N stabilized fertilizer formulations. Nutrient Cycling in Agroecosystems, 2017, 108, 163-175.	1.1	11
111	Proportion of Sewage Sludge to Soil Influences the Survival of Salmonella Dublin and Escherichia coli. Clean - Soil, Air, Water, 2018, 46, 1800042.	0.7	11
112	Identifying Urine Patches on Intensively Managed Grassland Using Aerial Imagery Captured From Remotely Piloted Aircraft Systems. Frontiers in Sustainable Food Systems, 0, 2, .	1.8	11
113	The effects of urine nitrogen application rate on nitrogen transformations in grassland soils. Journal of Agricultural Science, 2019, 157, 515-522.	0.6	11
114	Impact of Soil Type, Biology and Temperature on the Survival of Non-Toxigenic Escherichia Coli O157. Biology and Environment, 2013, 113, 1-6.	0.2	11
115	The interactive effects of fertiliser nitrogen with dung and urine on nitrous oxide emissions in grassland. Irish Journal of Agricultural and Food Research, 2016, 55, 1-9.	0.2	10
116	Feeding dicyandiamide (DCD) to cattle: An effective method to reduce N2O emissions from urine patches in a heavy-textured soil under temperate climatic conditions. Science of the Total Environment, 2018, 615, 1319-1331.	3.9	10
117	Novel Use of Dairy Processing Sludge Derived Pyrogenic Char (DPS-PC) to Remove Phosphorus in Discharge Effluents. Waste and Biomass Valorization, 2020, 11, 1453-1465.	1.8	10
118	Reducing Nitrate Losses from Simulated Grazing on Grassland Lysimeters in Ireland Using a Nitrification Inhibitor (Dicyandiamide). Biology and Environment, 2012, 112, 1-11.	0.2	10
119	Quantitative microbial risk assessment associated with ready-to-eat salads following the application of farmyard manure and slurry or anaerobic digestate to arable lands. Science of the Total Environment, 2021, 806, 151227.	3.9	10
120	Current knowledge on urease and nitrification inhibitors technology and their safety. Reviews on Environmental Health, 2021, 36, 477-491.	1.1	10
121	Nitrous oxide emission factors from an intensively grazed temperate grassland: A comparison of cumulative emissions determined by eddy covariance and static chamber methods. Agriculture, Ecosystems and Environment, 2022, 324, 107725.	2.5	10
122	Effect of contrasting phosphorus levels on nitrous oxide and carbon dioxide emissions from temperate grassland soils. Scientific Reports, 2022, 12, 2602.	1.6	10
123	Unsaturated zone travel time to groundwater on a vulnerable site. Irish Geography, 2005, 38, 57-71.	0.2	9
124	Evaluating E. coli Transport Risk in Soil using Dye and Bromide Tracers. Soil Science Society of America Journal, 2012, 76, 663-673.	1.2	9
125	The interactive effects of various nitrogen fertiliser formulations applied to urine patches on nitrous oxide emissions in grassland. Irish Journal of Agricultural and Food Research, 2017, 56, 54-64.	0.2	9
126	Reactive carbon and nitrogen concentrations and dynamics in groundwater beneath an earthen-lined integrated constructed wetland. Ecological Engineering, 2019, 126, 55-63.	1.6	9

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127	Sustainability of ruminant livestock production in Ireland. Animal Frontiers, 2021, 11, 32-43.	0.8	9
128	Evaluation of pathogen concentration in anaerobic digestate using a predictive modelling approach (ADRISK). Science of the Total Environment, 2021, 800, 149574.	3.9	9
129	A methodological framework to determine optimum durations for the construction of soil water characteristic curves using centrifugation. Irish Journal of Agricultural and Food Research, 2016, 55, 91-99.	0.2	8
130	Preparation and Antimicrobial Properties of Alginate and Serum Albumin/Glutaraldehyde Hydrogels Impregnated with Silver(I) Ions. Chemistry, 2021, 3, 672-686.	0.9	8
131	Does soil biology hold the key to optimized slurry management? A manifesto for research. Soil Use and Management, 2011, 27, 464-469.	2.6	7
132	Comparison of pesticide leaching potential to groundwater under EU FOCUS and site specific conditions. Science of the Total Environment, 2013, 463-464, 432-441.	3.9	7
133	Nitrogen transformation processes and gaseous emissions from a humic gley soil at two water filled pore spaces. Soil and Tillage Research, 2020, 198, 104543.	2.6	7
134	Potential loss of nutrients, carbon and metals in simulated runoff associated with dairy processing sludge application. International Journal of Environmental Science and Technology, 2020, 17, 3955-3968.	1.8	7
135	Development of One-Step Non-Solvent Extraction and Sensitive UHPLC-MS/MS Method for Assessment of N-(n-Butyl) Thiophosphoric Triamide (NBPT) and N-(n-Butyl) Phosphoric Triamide (NBPTo) in Milk. Molecules, 2021, 26, 2890.	1.7	7
136	Ammonium-Based Compound Fertilisers Mitigate Nitrous Oxide Emissions in Temperate Grassland. Agronomy, 2021, 11, 1712.	1.3	7
137	SPATIAL AND TEMPORAL VARIATIONS OF NUTRIENT LOADS IN OVERLAND FLOW AND SUBSURFACE DRAINAGE FROM A MARGINAL LAND SITE IN SOUTH-EAST IRELAND. Biology and Environment, 2013, 113B, 169-186.	0.2	7
138	Soil tests for predicting nitrogen supply for grassland under controlled environmental conditions. Journal of Agricultural Science, 2014, 152, 82-95.	0.6	6
139	Effect of an agri-environmental measure on nitrate leaching from a beef farming system in Ireland. Agriculture, Ecosystems and Environment, 2015, 202, 17-24.	2.5	6
140	A Small Study of Bacterial Contamination of Anaerobic Digestion Materials and Survival in Different Feed Stocks. Bioengineering, 2020, 7, 116.	1.6	6
141	Impacts of pasture species and ruminant urine on N₂O emissions and nitrogen transforming microbial communities in soil mesocosms. New Zealand Journal of Agricultural Research, 2022, 65, 42-62.	0.9	6
142	Competition and community succession link N transformation and greenhouse gas emissions in urine patches. Science of the Total Environment, 2021, 779, 146318.	3.9	6
143	Survival of Escherichia coli and Listeria innocua on Lettuce after Irrigation with Contaminated Water in a Temperate Climate. Foods, 2021, 10, 2072.	1.9	6
144	A field-based comparison of ammonia emissions from six Irish soil types following urea fertiliser application. Irish Journal of Agricultural and Food Research, 2016, 55, 152-158.	0.2	6

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145	Accelerating the development of biological nitrification inhibition as a viable nitrous oxide mitigation strategy in grazed livestock systems. Biology and Fertility of Soils, 2022, 58, 235-240.	2.3	6
146	Risk Assessment of E. coli Survival Up to the Grazing Exclusion Period After Dairy Slurry, Cattle Dung, and Biosolids Application to Grassland. Frontiers in Sustainable Food Systems, 2018, 2, .	1.8	5
147	Quantitative microbial human exposure model for faecal indicator bacteria and risk assessment of pathogenic Escherichia coli in surface runoff following application of dairy cattle slurry and co-digestate to grassland. Journal of Environmental Management, 2021, 299, 113627.	3.8	5
148	Urea treatment decouples intrinsic pH control over N2O emissions in soils. Soil Biology and Biochemistry, 2021, 163, 108461.	4.2	5
149	The effect of dicyandiamide addition to cattle slurry on soil gross nitrogen transformations at a grassland site in Northern Ireland. Journal of Agricultural Science, 2014, 152, 125-136.	0.6	4
150	Impact of beef extract used for sample concentration on the detection of Escherichia coli DNA in water samples via qPCR. Journal of Microbiological Methods, 2020, 168, 105786.	0.7	4
151	Development and verification of a novel isotopic N 2 O measurement technique for discrete static chamber samples using cavity ringâ€down spectroscopy. Rapid Communications in Mass Spectrometry, 2021, 35, e9049.	0.7	4
152	A Bayesian inference approach to quantify average pathogen loads in farmyard manure and slurry using open-source Irish datasets. Science of the Total Environment, 2021, 786, 147474.	3.9	4
153	Nitrous oxide responses to long-term phosphorus application on pasture soil. New Zealand Journal of Agricultural Research, 2023, 66, 171-188.	0.9	3
154	Patterns and Drivers of Groundwater and Stream Nitrate Concentrations in Intensively Managed Agricultural Catchments. Water (Switzerland), 2022, 14, 1388.	1.2	3
155	Characteristics of hydrophobic and hydrophilic acid fractions in drainage waters of undisturbed soil lysimeters. Journal of Soils and Sediments, 2018, 18, 3197-3214.	1.5	2
156	Leaching of Free and Conjugate Natural Estrogens in Soil Monoliths. Water, Air, and Soil Pollution, 2019, 230, 1.	1.1	2
157	Evaluation of proximal sensing technologies for mapping bovine urine patches under grazing pastures. Computers and Electronics in Agriculture, 2021, 188, 106309.	3.7	2
158	Soils and Water Quality. World Soils Book Series, 2018, , 235-243.	0.1	2
159	Assessing nitrous oxide emissions in time and space with minimal uncertainty using static chambers and eddy covariance from a temperate grassland. Agricultural and Forest Meteorology, 2022, 313, 108743.	1.9	2
160	The Survival of Salmonella Senftenberg, Escherichia coli O157:H7, Listeria monocytogenes, Enterococcus faecalis and Clostridium sporogenes in Sandy and Clay Loam Textured Soils When Applied in Bovine Slurry or Unpasteurised Digestate and the Run-Off Rate for a Test Bacterium, Listeria innocua, When Applied to Grass in Slurry and Digestate. Frontiers in Sustainable Food Systems, 2022, 6, .	1.8	1
161	The effect of application method and timing of application on slurry 15NH4-N recovery in herbage and soil. Advances in Animal Biosciences, 2010, 1, 80.	1.0	0
162	Editorial: Innovations for sustainable use of nitrogen resources. Journal of Agricultural Science, 2014, 152, 1-1.	0.6	0

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163	Concluding Editorial: Conclusions of the 17th International Nitrogen Workshop. Journal of Agricultural Science, 2014, 152, 182-184.	0.6	0
164	Editorial: RAMIRAN 2017: Sustainable Utilisation of Manures and Residue Resources in Agriculture. Frontiers in Sustainable Food Systems, 2019, 3, .	1.8	0
165	The effect of soil pH and phosphorus interactions on nitrous oxide emissions and microbial communities involved in nitrogen cycling. Access Microbiology, 2019, 1, .	0.2	0
166	Can nitrogen input mapping from aerial imagery improve nitrous oxide emissions estimates from grazed grassland?. Precision Agriculture, 0, , .	3.1	0