Louis A Schipper

List of Publications by Citations

185 papers	7,251 citations	47 h-index	78 g-index
193 ext. papers	8,359 ext. citations	5.1 avg, IF	6.06 L-index

#	Paper	IF	Citations
185	Denitrifying bioreactors—An approach for reducing nitrate loads to receiving waters. *Ecological Engineering*, **2010**, 36, 1532-1543	3.9	360
184	Decreases in organic C reserves in soils can reduce the catabolic diversity of soil microbial communities. *Soil Biology and Biochemistry*, **2000**, 32, 189-196	7.5	271
183	Hot-water-soluble C as a simple measure of labile soil organic matter: The relationship with microbial biomass C. *Soil Biology and Biochemistry*, **1998**, 30, 1469-1472	7.5	240
182	Is the microbial community in a soil with reduced catabolic diversity less resistant to stress or disturbance?. *Soil Biology and Biochemistry*, **2001**, 33, 1143-1153	7.5	234
181	Nitrate removal, communities of denitrifiers and adverse effects in different carbon substrates for use in denitrification beds. *Water Research*, **2011**, 45, 5463-75	12.5	199
180	Annual denitrification rates in agricultural and forest soils: a review. *Soil Research*, **1999**, 37, 1073	1.8	192
179	Nitrate removal and hydraulic performance of organic carbon for use in denitrification beds. *Ecological Engineering*, **2010**, 36, 1588-1595	3.9	186
178	How to measure, report and verify soil carbon change to realize the potential of soil carbon sequestration for atmospheric greenhouse gas removal. *Global Change Biology*, **2020**, 26, 219-241	11.4	142
177	On the Temperature Dependence of Enzyme-Catalyzed Rates. *Biochemistry*, **2016**, 55, 1681-8	3.2	138
176	Rates, controls and potential adverse effects of nitrate removal in a denitrification bed. *Ecological Engineering*, **2011**, 37, 511-522	3.9	137
175	Denitrifying Bioreactors for Nitrate Removal: A Meta-Analysis. *Journal of Environmental Quality*, **2016**, 45, 873-81	3.4	132
174	Five years of nitrate removal, denitrification and carbon dynamics in a denitrification wall. *Water Research*, **2001**, 35, 3473-7	12.5	128
173	Thermodynamic theory explains the temperature optima of soil microbial processes and high Q10 values at low temperatures. *Global Change Biology*, **2014**, 20, 3578-86	11.4	123
172	Regulators of denitrification in an organic riparian soil. *Soil Biology and Biochemistry*, **1993**, 25, 925-933	7.5	115
171	Large losses of soil C and N from soil profiles under pasture in New Zealand during the past 20 years. *Global Change Biology*, **2007**, 13, 1138-1144	11.4	112
170	Changes in microbial heterotrophic diversity along five plant successional sequences. *Soil Biology and Biochemistry*, **2001**, 33, 2093-2103	7.5	112
169	Change in heat capacity for enzyme catalysis determines temperature dependence of enzyme catalyzed rates. *ACS Chemical Biology*, **2013**, 8, 2388-93	4.9	109

168	Nitrate Removal from Groundwater Using a Denitrification Wall Amended with Sawdust: Field Trial. *Journal of Environmental Quality*, **1998**, 27, 664-668	3.4	104
167	Nitrate removal from groundwater and denitrification rates in a porous treatment wall amended with sawdust. *Ecological Engineering*, **2000**, 14, 269-278	3.9	100
166	Carbon exchange of grazed pasture on a drained peat soil. *Global Change Biology*, **2005**, 11, 607-618	11.4	97
165	Convergence of soil nitrogen isotopes across global climate gradients. *Scientific Reports*, **2015**, 5, 8280	4.9	90
164	Recovery of topsoil characteristics after landslip erosion in dry hill country of New Zealand, and a test of the space-for-time hypothesis. *Soil Biology and Biochemistry*, **2003**, 35, 1575-1586	7.5	85
163	Performance of Soil Condition Indicators Across Taxonomic Groups and Land Uses. *Soil Science Society of America Journal*, **2000**, 64, 300-311	2.5	85
162	Soil quality monitoring in New Zealand: practical lessons from a 6-year trial. *Agriculture, Ecosystems and Environment*, **2004**, 104, 523-534	5.7	80
161	Nitrate removal from three different effluents using large-scale denitrification beds. *Ecological Engineering*, **2010**, 36, 1552-1557	3.9	74
160	Soil quality at a national scale in New Zealand. *Journal of Environmental Quality*, **2002**, 31, 1848-57	3.4	71
159	Hydraulic constraints on the performance of a groundwater denitrification wall for nitrate removal from shallow groundwater. *Journal of Contaminant Hydrology*, **2004**, 69, 263-79	3.9	67
158	Maximum rates of nitrate removal in a denitrification wall. *Journal of Environmental Quality*, **2005**, 34, 1270-6	3.4	67
157	Impact of Land-Applied Tertiary-Treated Effluent on Soil Biochemical Properties. *Journal of Environmental Quality*, **1996**, 25, 1073-1077	3.4	67
156	Hydraulic conductivity in soils irrigated with wastewaters of differing strengths: Field and laboratory studies. *Soil Research*, **1999**, 37, 391	1.8	67
155	Rates of accumulation of cadmium and uranium in a New Zealand hill farm soil as a result of long-term use of phosphate fertilizer. *Agriculture, Ecosystems and Environment*, **2011**, 144, 95-101	5.7	66
154	Land application of domestic effluent onto four soil types: plant uptake and nutrient leaching. *Journal of Environmental Quality*, **2005**, 34, 635-43	3.4	66
153	Soil quality monitoring in New Zealand: trends and issues arising from a broad-scale survey. *Agriculture, Ecosystems and Environment*, **2004**, 104, 545-552	5.7	65
152	Gains and losses in C and N stocks of New Zealand pasture soils depend on land use. *Agriculture, Ecosystems and Environment*, **2010**, 139, 611-617	5.7	63
151	Pasture and forest soil microbial communities show distinct patterns in their catabolic respiration responses at a landscape scale. *Soil Biology and Biochemistry*, **2004**, 36, 49-55	7.5	62

150	Relationship between soil δ15N, C/N and N losses across land uses in New Zealand. *Agriculture, Ecosystems and Environment*, **2010**, 139, 736-741	5.7	61
149	Nitrogen inputs and outputs for New Zealand in 2001 at national and regional scales. *Biogeochemistry*, **2006**, 80, 71-88	3.8	60
148	Carbon balance of an intensively grazed temperate dairy pasture over four years. *Agriculture, Ecosystems and Environment*, **2015**, 206, 10-20	5.7	55
147	Denitrification Potential in Lake Sediment Increases Across a Gradient of Catchment Agriculture. *Ecosystems*, **2011**, 14, 341-352	3.9	54
146	Carbon balance of an intensively grazed temperate pasture in two climatically contrasting years. *Agriculture, Ecosystems and Environment*, **2011**, 144, 271-280	5.7	51
145	What is soil organic matter worth?. *Journal of Environmental Quality*, **2006**, 35, 548-57	3.4	49
144	Irrigation of an allophanic soil with dairy factory effluent for 22 years: responses of nutrient storage and soil biota. *Soil Research*, **2000**, 38, 25	1.8	49
143	Soil order and grazing management effects on changes in soil C and N in New Zealand pastures. *Agriculture, Ecosystems and Environment*, **2014**, 184, 67-75	5.7	48
142	Foliar 15N natural abundance indicates phosphorus limitation of bog species. *Oecologia*, **2005**, 144, 550-7	2.9	48
141	Vegetation and peat characteristics in the development of lowland restiad peat bogs, North Island, New Zealand. *Wetlands*, **2004**, 24, 133-151	1.7	47
140	An approach for estimating when soils will reach maximum nitrogen storage. *Soil Use and Management*, **2004**, 20, 281-286	3.1	47
139	Subsidence rates and carbon loss in peat soils following conversion to pasture in the Waikato Region, New Zealand. *Soil Use and Management*, **2006**, 18, 91-93	3.1	45
138	Determination of Methane Oxidation in the Rhizosphere of Sagittaria lancifolia Using Methyl Fluoride. *Soil Science Society of America Journal*, **1996**, 60, 611-616	2.5	45
137	Management practices to reduce losses or increase soil carbon stocks in temperate grazed grasslands: New Zealand as a case study. *Agriculture, Ecosystems and Environment*, **2018**, 265, 432-443	5.7	44
136	Irrigating grazed pasture decreases soil carbon and nitrogen stocks. *Global Change Biology*, **2017**, 23, 945-954	11.4	44
135	Hydraulic properties, hydraulic efficiency and nitrate removal of organic carbon media for use in denitrification beds. *Ecological Engineering*, **2012**, 41, 1-7	3.9	43
134	Regulation of nitrous oxide emissions from soils irrigated with dairy farm effluent. *Journal of Environmental Quality*, **2001**, 30, 1881-7	3.4	41
133	Root carbon inputs under moderately diverse sward and conventional ryegrass-clover pasture: implications for soil carbon sequestration. *Plant and Soil*, **2015**, 392, 289-299	4.2	40

132	Isotope Tracing of Long-Term Cadmium Fluxes in an Agricultural Soil. *Environmental Science & Technology*, **2017**, 51, 7369-7377	10.3	38
131	Subsidence Rates of Drained Agricultural Peatlands in New Zealand and the Relationship with Time since Drainage. *Journal of Environmental Quality*, **2014**, 43, 1442-9	3.4	38
130	Long-term nitrate removal in a denitrification wall. *Agriculture, Ecosystems and Environment*, **2011**, 140, 514-520	5.7	38
129	The optimum temperature of soil microbial respiration: Patterns and controls. *Soil Biology and Biochemistry*, **2018**, 121, 35-42	7.5	37
128	Overriding control of methane flux temporal variability by water table dynamics in a Southern Hemisphere, raised bog. *Journal of Geophysical Research G: Biogeosciences*, **2015**, 120, 819-831	3.7	36
127	Oscillating peat surface levels in a restiad peatland, New Zealand□magnitude and spatiotemporal variability. *Hydrological Processes*, **2008**, 22, 3264-3274	3.3	36
126	Soil quality monitoring in New Zealand: development of an interpretative framework. *Agriculture, Ecosystems and Environment*, **2004**, 104, 535-544	5.7	35
125	Moving Denitrifying Bioreactors beyond Proof of Concept: Introduction to the Special Section. *Journal of Environmental Quality*, **2016**, 45, 757-61	3.4	35
124	A review of soil carbon change in New Zealand□ grazed grasslands. *New Zealand Journal of Agricultural Research*, **2017**, 60, 93-118	1.9	34
123	The joy of teaching soil science. *Geoderma*, **2014**, 217-218, 1-9	6.7	34
122	Accumulation of soil organic C and change in C:N ratio after establishment of pastures on reverted scrubland in New Zealand. *Biogeochemistry*, **2011**, 104, 49-58	3.8	34
121	Changes in soil properties after application of dairy factory effluent to New Zealand volcanic ash and pumice soils. *Soil Research*, **2001**, 39, 505	1.8	34
120	Macrofaunal Functional Diversity Provides Resilience to Nutrient Enrichment in Coastal Sediments. *Ecosystems*, **2017**, 20, 1324-1336	3.9	33
119	Photodegradation leads to increased carbon dioxide losses from terrestrial organic matter. *Global Change Biology*, **2009**, 16, no-no	11.4	33
118	Decadal Changes in Soil Carbon and Nitrogen under a Range of Irrigation and Phosphorus Fertilizer Treatments. *Soil Science Society of America Journal*, **2013**, 77, 246-256	2.5	32
117	Topsoil characteristics of three contrasting New Zealand soils under four long-term land uses. *New Zealand Journal of Agricultural Research*, **2000**, 43, 569-583	1.9	32
116	How close are we to the temperature tipping point of the terrestrial biosphere?. *Science Advances*, **2021**, 7,	14.3	32
115	Variations in CO2 exchange for dairy farms with year-round rotational grazing on drained peatlands. *Agriculture, Ecosystems and Environment*, **2015**, 202, 68-78	5.7	29

114	Evaluating 50 years of time-series soil radiocarbon data: towards routine calculation of robust C residence times. *Biogeochemistry*, **2013**, 112, 129-137	3.8	29
113	Methane Production and Emissions from Four Reclaimed and Pristine Wetlands of Southeastern United States. *Soil Science Society of America Journal*, **1994**, 58, 1270-1275	2.5	29
112	Year-round growing conditions explains large CO2 sink strength in a New Zealand raised peat bog. *Agricultural and Forest Meteorology*, **2014**, 192-193, 59-68	5.8	28
111	A comparison of different approaches for measuring denitrification rates in a nitrate removing bioreactor. *Water Research*, **2011**, 45, 4141-51	12.5	28
110	Agricultural intensification exacerbates spillover effects on soil biogeochemistry in adjacent forest remnants. *PLoS ONE*, **2015**, 10, e0116474	3.7	28
109	DNA adsorption by nanocrystalline allophane spherules and nanoaggregates, and implications for carbon sequestration in Andisols. *Applied Clay Science*, **2016**, 120, 40-50	5.2	27
108	CO2 emissions following cultivation of a temperate permanent pasture. *Agriculture, Ecosystems and Environment*, **2014**, 184, 21-33	5.7	27
107	Nitrogen transformation in a denitrification layer irrigated with dairy factory effluent. *Water Research*, **2008**, 42, 2457-64	12.5	27
106	Anaerobic Decomposition and Denitrification during Plant Decomposition in an Organic Soil. *Journal of Environmental Quality*, **1994**, 23, 923-928	3.4	27
105	The carbon balance of temperate grasslands part I: The impact of increased species diversity. *Agriculture, Ecosystems and Environment*, **2017**, 239, 310-323	5.7	26
104	Nitrogen inputs and outputs for New Zealand from 1990 to 2010 at national and regional scales. *New Zealand Journal of Agricultural Research*, **2012**, 55, 241-262	1.9	26
103	Modelling carbon and water exchange of a grazed pasture in New Zealand constrained by eddy covariance measurements. *Science of the Total Environment*, **2015**, 512-513, 273-286	10.2	25
102	Preferential flow in a well drained and a poorly drained soil under different overhead irrigation regimes. *Soil Use and Management*, **1998**, 14, 96-100	3.1	25
101	The trade-offs between milk production and soil organic carbon storage in dairy systems under different management and environmental factors. *Science of the Total Environment*, **2017**, 577, 61-72	10.2	24
100	Effects of prolonged oral administration of dicyandiamide to dairy heifers on excretion in urine and efficacy in soil. *Agriculture, Ecosystems and Environment*, **2013**, 173, 28-36	5.7	24
99	Nutrient leaching and changes in soil characteristics of four contrasting soils irrigated with secondary-treated municipal wastewater for four years. *Soil Research*, **2006**, 44, 107	1.8	24
98	Resistance to cropping pressure of two New Zealand soils with contrasting mineralogy. *Soil Research*, **2000**, 38, 85	1.8	24
97	The carbon balance of temperate grasslands part II: The impact of pasture renewal via direct drilling. *Agriculture, Ecosystems and Environment*, **2017**, 239, 132-142	5.7	22

96	Trends in soil carbon and nutrients of hill-country pastures receiving different phosphorus fertilizer loadings for 20 years. *Biogeochemistry*, **2011**, 104, 35-48	3.8	22
95	Solubilisation of soil carbon following treatment with cow urine under laboratory conditions. *Soil Research*, **2012**, 50, 50	1.8	22
94	Influence of erosion and deposition on carbon and nitrogen accumulation in resampled steepland soils under pasture in New Zealand. *Geoderma*, **2013**, 192, 154-159	6.7	21
93	Effect of amending cattle urine with dicyandiamide on soil nitrogen dynamics and leaching of urinary-nitrogen. *Agriculture, Ecosystems and Environment*, **2013**, 167, 12-22	5.7	21
92	Microbial biomass, respiration and diversity in ultramafic soils of West Dome, New Zealand. *Plant and Soil*, **2004**, 262, 151-158	4.2	21
91	Macromolecular rate theory (MMRT) provides a thermodynamics rationale to underpin the convergent temperature response in plant leaf respiration. *Global Change Biology*, **2018**, 24, 1538-1547	11.4	21
90	High vapor pressure deficit constrains GPP and the light response of NEE at a Southern Hemisphere bog. *Agricultural and Forest Meteorology*, **2015**, 203, 54-63	5.8	20
89	Denitrification enzyme activity is limited by soil aeration in a wastewater-irrigated forest soil. *Biology and Fertility of Soils*, **2000**, 32, 385-389	6.1	20
88	Fecal Bacteria, Bacteriophage, and Nutrient Reductions in a Full-Scale Denitrifying Woodchip Bioreactor. *Journal of Environmental Quality*, **2016**, 45, 847-54	3.4	20
87	Drying-Rewetting Cycles Affect Nitrate Removal Rates in Woodchip Bioreactors. *Journal of Environmental Quality*, **2019**, 48, 93-101	3.4	20
86	Evaluation of passive solar heating and alternative flow regimes on nitrate removal in denitrification beds. *Ecological Engineering*, **2011**, 37, 1195-1204	3.9	19
85	Rapid laboratory measurement of the temperature dependence of soil respiration and application to changes in three diverse soils through the year. *Biogeochemistry*, **2017**, 133, 101-112	3.8	18
84	Carbon and nitrogen leaching under high and low phosphate fertility pasture with increasing nitrogen inputs. *Agriculture, Ecosystems and Environment*, **2015**, 202, 139-147	5.7	18
83	Nitrogen inputs and outputs for New Zealand at national and regional scales: Past, present and future scenarios. *Journal of the Royal Society of New Zealand*, **2008**, 38, 71-87	2	18
82	Water table fluctuations control CO exchange in wet and dry bogs through different mechanisms. *Science of the Total Environment*, **2019**, 655, 1037-1046	10.2	18
81	Changes in soil C, N and δ15N along three forest–pasture chronosequences in New Zealand. *Soil Research*, **2014**, 52, 27	1.8	17
80	Denitrification Rates in a Wastewater-Irrigated Forest Soil in New Zealand. *Journal of Environmental Quality*, **1999**, 28, 2008-2014	3.4	17
79	Sedimentary Environment Influences Ecosystem Response to Nutrient Enrichment. *Estuaries and Coasts*, **2018**, 41, 1994-2008	2.8	16

78	Vegetation and peat characteristics of restiad bogs on Chatham Island (Rekohu), New Zealand. *New Zealand Journal of Botany*, **2004**, 42, 293-312	1	16
77	Restoring cut-over restiad peat bogs: A factorial experiment of nutrients, seed and cultivation. *Ecological Engineering*, **2002**, 19, 29-40	3.9	16
76	Nitrous oxide fluxes determined by continuous eddy covariance measurements from intensively grazed pastures: Temporal patterns and environmental controls. *Agriculture, Ecosystems and Environment*, **2018**, 268, 171-180	5.7	16
75	Shifts in temperature response of soil respiration between adjacent irrigated and non-irrigated grazed pastures. *Agriculture, Ecosystems and Environment*, **2019**, 285, 106620	5.7	15
74	Carbon leaching from undisturbed soil cores treated with dairy cow urine. *Soil Research*, **2012**, 50, 320	1.8	15
73	Cadmium accumulation in three contrasting New Zealand soils with the same phosphate fertilizer history. *Geoderma Regional*, **2016**, 7, 271-278	2.7	15
72	Changes in Natural 15N Abundance in Pastoral Soils Receiving Differing Amounts of Superphosphate Fertilizer and Irrigation for 50 Years. *Soil Science Society of America Journal*, **2013**, 77, 830-841	2.5	14
71	Low spatial and inter-annual variability of evaporation from a year-round intensively grazed temperate pasture system. *Agriculture, Ecosystems and Environment*, **2016**, 232, 46-58	5.7	14
70	Managing denitrification in human-dominated landscapes. *Ecological Engineering*, **2010**, 36, 1503-1506	3.9	13
69	Three Approaches to Define Desired Soil Organic Matter Contents **2003**, 32, 760		13
68	Estimates of annual leaching losses of dissolved organic carbon from pastures on Allophanic Soils grazed by dairy cattle, Waikato, New Zealand. *New Zealand Journal of Agricultural Research*, **2016**, 59, 32-49	1.9	12
67	Do glucosinolate hydrolysis products reduce nitrous oxide emissions from urine affected soil?. *Science of the Total Environment*, **2017**, 603-604, 370-380	10.2	12
66	Correcting bulk density measurements made with driving hammer equipment. *Geoderma*, **2010**, 157, 46-50	6.7	12
65	In Situ Determination of Detrital Breakdown in Wetland Soil-Floodwater Profile. *Soil Science Society of America Journal*, **1995**, 59, 565-568	2.5	12
64	Priming of soil decomposition leads to losses of carbon in soil treated with cow urine. *Soil Research*, **2013**, 51, 513	1.8	11
63	Reconciling annual nitrous oxide emissions of an intensively grazed dairy pasture determined by eddy covariance and emission factors. *Agriculture, Ecosystems and Environment*, **2020**, 287, 106646	5.7	11
62	Carbon dioxide emissions and sediment organic carbon burials across a gradient of trophic state in eleven New Zealand lakes. *Hydrobiologia*, **2017**, 795, 341-354	2.4	10
61	The effect of irrigation on cadmium, uranium, and phosphorus contents in agricultural soils. *Agriculture, Ecosystems and Environment*, **2017**, 247, 84-90	5.7	10

60	Denitrification and availability of carbon and nitrogen in a well-drained pasture soil amended with particulate organic carbon. *Journal of Environmental Quality*, **2011**, 40, 923-30	3.4	10
59	In situ Mixing of Organic Matter Decreases Hydraulic Conductivity of Denitrification Walls in Sand Aquifers. *Ground Water Monitoring and Remediation*, **2008**, 28, 57-64	1.4	10
58	A new method to extract and purify DNA from allophanic soils and paleosols, and potential for paleoenvironmental reconstruction and other applications. *Geoderma*, **2016**, 274, 114-125	6.7	10
57	Carbon budget of an intensively grazed temperate grassland with large quantities of imported supplemental feed. *Agriculture, Ecosystems and Environment*, **2019**, 281, 1-15	5.7	9
56	Toward optimisation of water use efficiency in dryland pastures using carbon isotope discrimination as a tool to select plant species mixtures. *Science of the Total Environment*, **2019**, 665, 698-708	10.2	9
55	Southern Hemisphere bog persists as a strong carbon sink during droughts. *Biogeosciences*, **2017**, 14, 4563-4576	4.6	8
54	Denitrification and anammox remove nitrogen in denitrifying bioreactors. *Ecological Engineering*, **2019**, 138, 38-45	3.9	8
53	Bacteria and virus removal in denitrifying bioreactors: Effects of media type and age. *Ecological Engineering*, **2019**, 138, 46-53	3.9	8
52	Soil C and N contents in a paired survey of dairy and dry stock pastures in New Zealand. *Agriculture, Ecosystems and Environment*, **2014**, 185, 34-40	5.7	8
51	Nutritional niche separation in coexisting bog species demonstrated by 15N-enriched simulated rainfall. *Austral Ecology*, **2009**, 34, 377	1.5	8
50	Nitrogen renovation by denitrification in forest sewage irrigation systems. *Biological Wastes*, **1989**, 29, 181-187		8
49	The Inflection Point Hypothesis: The Relationship between the Temperature Dependence of Enzyme-Catalyzed Reaction Rates and Microbial Growth Rates. *Biochemistry*, **2020**, 59, 3562-3569	3.2	8
48	Forest canopy restoration has indirect effects on litter decomposition and no effect on denitrification. *Ecosphere*, **2018**, 9, e02534	3.1	8
47	Contrasting temperature responses of soil respiration derived from soil organic matter and added plant litter. *Biogeochemistry*, **2020**, 150, 45-59	3.8	7
46	Changes in soil total C and N contents at three chronosequences after conversion from plantation pine forest to dairy pasture on a New Zealand Pumice soil. *Soil Research*, **2014**, 52, 38	1.8	7
45	Site condition, fertility gradients and soil biological activity in a New Zealand frost-flat heathland. *Pedobiologia*, **2004**, 48, 129-137	1.7	7
44	An inverse relationship between nitrate and ammonium in an organic riparian soil. *Soil Biology and Biochemistry*, **1994**, 26, 799-800	7.5	7
43	Rapid carbon accumulation in a peatland following Late Holocene tephra deposition, New Zealand. *Quaternary Science Reviews*, **2020**, 246, 106505	3.9	7

42	Carbon, water and energy fluxes in agricultural systems of Australia and New Zealand. *Agricultural and Forest Meteorology*, **2020**, 287, 107934	5.8	6
41	Herbicide application during pasture renewal initially increases root turnover and carbon input to soil in perennial ryegrass and white clover pasture. *Plant and Soil*, **2017**, 412, 133-142	4.2	6
40	Artificial Sinks: Opportunities and Challenges for Managing Offsite Nitrogen Losses. *Journal of Contemporary Water Research and Education*, **2013**, 151, 9-19	1.2	6
39	Use of shallow samples to estimate the total carbon storage in pastoral soils. *New Zealand Journal of Agricultural Research*, **2013**, 56, 86-90	1.9	6
38	Nitrate removal and greenhouse gas production of woodchip denitrification walls under a humid subtropical climate. *Ecological Engineering*, **2020**, 156, 105988	3.9	5
37	Increased Duration of Drying:Rewetting Cycles Increases Nitrate Removal in Woodchip Bioreactors. *Agricultural and Environmental Letters*, **2019**, 4, 190028	1.5	4
36	MAGGnet: An international network to foster mitigation of agricultural greenhouse gases. *Carbon Management*, **2016**, 7, 243-248	3.3	4
35	Multiple small monthly doses of dicyandiamide (DCD) did not reduce denitrification in Waikato dairy pasture. *New Zealand Journal of Agricultural Research*, **2013**, 56, 37-48	1.9	4
34	Southern hemisphere bog persists as a strong carbon sink during droughts		4
33	Carbon Storage and DNA Adsorption in Allophanic Soils and Paleosols **2014**, 163-172		4
32	Utility of 'Diffusive Gradients in Thin-Films' for the measurement of nitrate removal performance of denitrifying bioreactors. *Science of the Total Environment*, **2020**, 718, 135267	10.2	4
31	Temperate grazed grassland carbon balances for two adjacent paddocks determined separately from one eddy covariance system. *Agricultural and Forest Meteorology*, **2020**, 287, 107942	5.8	4
30	Effectiveness of Denitrifying Bioreactors on Water Pollutant Reduction from Agricultural Areas. *Transactions of the ASABE*, **2021**, 64, 641-658	0.9	4
29	Improved gap filling approach and uncertainty estimation for eddy covariance N2O fluxes. *Agricultural and Forest Meteorology*, **2021**, 297, 108280	5.8	4
28	Deforestation may increase soil carbon but it is unlikely to be continuous or unlimited. *Global Change Biology*, **2018**, 24, 557-558	11.4	4
27	Impacts of irrigation on soil C and N stocks in grazed grasslands depends on aridity and irrigation duration. *Geoderma*, **2021**, 399, 115109	6.7	4
26	Separating the temperature response of soil respiration derived from soil organic matter and added labile carbon compounds. *Geoderma*, **2021**, 400, 115128	6.7	4
25	Quantifying carbon losses from periodic maize silage cropping of permanent temperate pastures. *Agriculture, Ecosystems and Environment*, **2020**, 301, 107048	5.7	3

24	Use of the USDA National Cooperative Soil Survey Soil Characterization Data to Detect Soil Change: A Cautionary Tale. *Soil Science Society of America Journal*, **2017**, 81, 1463-1474	2.5	3
23	Soil characteristics, belowground diversity and rates of simazine mineralisation of a New Zealand Gley Soil in a chronosequence under horticultural use. *Biology and Fertility of Soils*, **2008**, 44, 633-640	6.1	3
22	Recovery of the CO sink in a remnant peatland following water table lowering. *Science of the Total Environment*, **2020**, 718, 134613	10.2	3
21	High contribution of methane in greenhouse gas emissions from a eutrophic lake: a mass balance synthesis. *New Zealand Journal of Marine and Freshwater Research*, **2021**, 55, 411-430	1.3	3
20	Soil organic matter turnover rates increase to match increased inputs in grazed grasslands. *Biogeochemistry*, **2021**, 156, 145-160	3.8	3
19	Changes in characteristics of soils irrigated with processing wastewater from three New Zealand dairy factories. *Soil Research*, **2015**, 53, 448	1.8	2
18	An approach for estimating when soils will reach maximum nitrogen storage. *Soil Use and Management*, **2006**, 20, 281-286	3.1	2
17	Characterizing porous microaggregates and soil organic matter sequestered in allophanic paleosols on Holocene tephras using synchrotron-based X-ray microscopy and spectroscopy. *Scientific Reports* , **2021**, 11, 21310	4.9	2
16	Large differences in CO emissions from two dairy farms on a drained peatland driven by contrasting respiration rates during seasonal dry conditions. *Science of the Total Environment*, **2021**, 760, 143410	10.2	2
15	Effect of soil cap and nitrate inflow on nitrous oxide emissions from woodchip bioreactors. *Ecological Engineering*, **2021**, 166, 106235	3.9	2
14	Soil microbial sensitivity to temperature remains unchanged despite community compositional shifts along geothermal gradients. *Global Change Biology*, **2021**, 27, 6217-6231	11.4	2
13	Soil Quality Indicators On The World Wide Web. *IFIP Advances in Information and Communication Technology*, **2000**, 131-141	0.5	2
12	The temperature and flow dependence of nitrate concentration and load estimates based on diffusive gradients in thin-films.. *Journal of Environmental Quality*, **2022**,	3.4	1
11	High-frequency, in situ sampling of field woodchip bioreactors reveals sources of sampling error and hydraulic inefficiencies. *Journal of Environmental Management*, **2020**, 272, 110996	7.9	1
10	Can Incorporating Brassica Tissues into Soil Reduce Nitrification Rates and Nitrous Oxide Emissions?. *Journal of Environmental Quality*, **2018**, 47, 1436-1444	3.4	1
9	Development of bromide-selective Diffusive Gradients in Thin-Films for the measurement of average flow rate of streams. *Science of the Total Environment*, **2021**, 788, 147737	10.2	1
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