Leo M Condron

List of Publications by Citations

51 papers	3,345 citations	25 h-index	53 g-index
53 ext. papers	3,850 ext. citations	5.1 avg, IF	5.48 L-index

#	Paper	IF	Citations
51	A Review of Biochar and Soil Nitrogen Dynamics. *Agronomy*, **2013**, 3, 275-293	3.6	522
50	Biochar adsorbed ammonia is bioavailable. *Plant and Soil*, **2012**, 350, 57-69	4.2	302
49	Extraction of soil organic phosphorus. *Talanta*, **2005**, 66, 294-306	6.2	290
48	Biochar and the nitrogen cycle: introduction. *Journal of Environmental Quality*, **2010**, 39, 1218-23	3.4	289
47	Effects of selected root exudate components on soil bacterial communities. *FEMS Microbiology Ecology*, **2011**, 77, 600-10	4.3	245
46	Biochar incorporation into pasture soil suppresses in situ nitrous oxide emissions from ruminant urine patches. *Journal of Environmental Quality*, **2011**, 40, 468-76	3.4	205
45	The phosphorus composition of temperate pasture soils determined by NaOHEDTA extraction and solution 31P NMR spectroscopy. *Organic Geochemistry*, **2003**, 34, 1199-1210	3.1	176
44	Revisiting the fundamentals of phosphorus fractionation of sediments and soils. *Journal of Soils and Sediments*, **2011**, 11, 830-840	3.4	164
43	A wood based low-temperature biochar captures NH3-N generated from ruminant urine-N, retaining its bioavailability. *Plant and Soil*, **2012**, 353, 73-84	4.2	106
42	Soil microbial organic nitrogen uptake is regulated by carbon availability. *Soil Biology and Biochemistry*, **2014**, 77, 261-267	7.5	98
41	Biochar and fertiliser applications influence phosphorus fractionation and wheat yield. *Biology and Fertility of Soils*, **2014**, 50, 169-178	6.1	91
40	Using organic phosphorus to sustain pasture productivity: A perspective. *Geoderma*, **2014**, 221-222, 11-19	6.7	85
39	Phosphorus-31 Nuclear Magnetic Resonance Spectral Assignments of Phosphorus Compounds in Soil NaOHEDTA Extracts **2003**, 67, 497		73
38	Response of soil microbial communities to contrasted histories of phosphorus fertilisation in pastures. *Applied Soil Ecology*, **2012**, 61, 40-48	5	59
37	Effect of Green Manure Addition on Soil Organic Phosphorus Mineralisation. *Nutrient Cycling in Agroecosystems*, **2005**, 73, 181-189	3.3	49
36	Impact of long-term phosphorus fertilizer inputs on bacterial phoD gene community in a maize field, Northeast China. *Science of the Total Environment*, **2019**, 669, 1011-1018	10.2	45
35	Soil carbon pools, plant biomarkers and mean carbon residence time after afforestation of grassland with three tree species. *Soil Biology and Biochemistry*, **2011**, 43, 1341-1349	7.5	43

34	Soil alkaline phosphatase activity and bacterial phoD gene abundance and diversity under long-term nitrogen and manure inputs. *Geoderma*, **2019**, 349, 36-44	6.7	38
33	In situ sampling of low molecular weight organic anions from rhizosphere of radiata pine (Pinus radiata) grown in a rhizotron system. *Environmental and Experimental Botany*, **2011**, 70, 131-142	5.9	35
32	Accumulation and distribution of phosphorus in the soil profile under fertilized grazed pasture. *Agriculture, Ecosystems and Environment*, **2017**, 239, 228-235	5.7	33
31	Phosphorus speciation in a long-term manure-amended soil profile Evidence from wet chemical extraction, 31P-NMR and P K-edge XANES spectroscopy. *Geoderma*, **2018**, 322, 19-27	6.7	33
30	Oxygen isotopes of phosphate and soil phosphorus cycling across a 6500 year chronosequence under lowland temperate rainforest. *Geoderma*, **2015**, 257-258, 14-21	6.7	33
29	Chemical nature of residual phosphorus in Andisols. *Geoderma*, **2016**, 271, 27-31	6.7	31
28	Fate of phosphorus applied to soil in pig slurry under cropping in southern Brazil. *Geoderma*, **2018**, 321, 164-172	6.7	28
27	Effect of land use and soil organic matter quality on the structure and function of microbial communities in pastoral soils: Implications for disease suppression. *PLoS ONE*, **2018**, 13, e0196581	3.7	25
26	Challenges and opportunities in harnessing soil disease suppressiveness for sustainable pasture production. *Soil Biology and Biochemistry*, **2016**, 95, 100-111	7.5	24
25	Dynamics and availability of phosphorus in the rhizosphere of a temperate silvopastoral system. *Biology and Fertility of Soils*, **2003**, 39, 65-73	6.1	23
24	Phosphorus and Sulphur Cycling in Terrestrial Ecosystems **2007**, 65-92		18
23	Investigation of organic anions in tree root exudates and rhizosphere microbial communities using in situ and destructive sampling techniques. *Plant and Soil*, **2012**, 359, 149-163	4.2	17
22	Effects of long-term grassland management on the chemical nature and bioavailability of soil phosphorus. *Biology and Fertility of Soils*, **2012**, 48, 607-611	6.1	17
21	Impacts of long-term plant residue management on soil organic matter quality, Pseudomonas community structure and disease suppressiveness. *Soil Biology and Biochemistry*, **2019**, 135, 396-406	7.5	16
20	Plant biomass management impacts on short-term soil phosphorus dynamics in a temperate grassland. *Biology and Fertility of Soils*, **2018**, 54, 397-409	6.1	14
19	Validating novel oligonucleotide primers targeting three classes of bacterial non-specific acid phosphatase genes in grassland soils. *Plant and Soil*, **2018**, 427, 39-51	4.2	13
18	Role of Organic Anions and Phosphatase Enzymes in Phosphorus Acquisition in the Rhizospheres of Legumes and Grasses Grown in a Low Phosphorus Pasture Soil. *Plants*, **2020**, 9,	4.5	12
17	The error in stream sediment phosphorus fractionation and sorption properties effected by drying pretreatments. *Journal of Soils and Sediments*, **2019**, 19, 1587-1597	3.4	12

16	Modelling arsenic toxicity in wheat: simultaneous application of diffusive gradients in thin films to arsenic and phosphorus in soil. *Environmental Pollution*, **2011**, 159, 2996-3002	9.3	11
15	Impacts of long-term plant biomass management on soil phosphorus under temperate grassland. *Plant and Soil*, **2018**, 427, 163-174	4.2	10
14	Mobilisation of recalcitrant soil nutrient fractions supports foliar nitrogen to phosphorus homeostasis in a seabird soil. *Plant and Soil*, **2014**, 385, 77-86	4.2	8
13	Sediment phosphorus buffering in streams at baseflow: A meta-analysis. *Journal of Environmental Quality*, **2021**, 50, 287-311	3.4	8
12	Soybean (Glycine max (L.) Merrill) intercropping with reduced nitrogen input influences rhizosphere phosphorus dynamics and phosphorus acquisition of sugarcane (Saccharum officinarum). *Biology and Fertility of Soils*, **2020**, 56, 1063-1075	6.1	7
11	Soil Phosphorus Modeling for Modern Agriculture Requires Balance of Science and Practicality: A Perspective. *Journal of Environmental Quality*, **2019**, 48, 1281-1294	3.4	6
10	Soil microbial diversity in adjacent forest systems - contrasting native, old growth kauri (Agathis australis) forest with exotic pine (Pinus radiata) plantation forest. *FEMS Microbiology Ecology*, **2020**, 96,	4.3	6
9	Challenges in Assessing Links Between Root Exudates and the Structure and Function of Soil Microbial Communities **2013**, 125-135		6
8	Mass balance assessment of phosphorus dynamics in a fertilizer trial with 57 years of superphosphate application under irrigated grazed pasture. *Nutrient Cycling in Agroecosystems*, **2019**, 114, 33-44	3.3	5
7	Long-term atmospheric carbon dioxide enrichment decreases soil phosphorus availability in a grazed temperate pasture. *Geoderma*, **2020**, 378, 114621	6.7	5
6	Impact of grassland afforestation with contrasting tree species on soil phosphorus fractions and alkaline phosphatase gene communities. *Soil Biology and Biochemistry*, **2021**, 159, 108274	7.5	3
5	Non-host larvae negatively impact persistence of the entomopathogen Beauveria bassiana in soil. *Journal of Invertebrate Pathology*, **2018**, 156, 19-28	2.6	2
4	Research and Application of Biochar in New Zealand. *SSSA Special Publication Series*, **2015**, 423-443	0	1
3	Nitrogen fertilization effects on soil phosphorus dynamics under a grass-pasture system. *Nutrient Cycling in Agroecosystems*,1	3.3	1
2	A rapid fractionation method for assessing key soil phosphorus parameters in agroecosystems. *Geoderma*, **2021**, 385, 114893	6.7	1
1	Sediment and water-column phosphorus chemistry in streams at baseflow across varying catchment geologies. *Inland Waters*,1-65	2.4	