

# Clayton R Butterly

## List of Publications by Year in descending order

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Version: 2024-02-01

50  
papers

1,928  
citations

218677

26  
h-index

254184

43  
g-index

52  
all docs

52  
docs citations

52  
times ranked

2075  
citing authors

#	ARTICLE	IF	CITATIONS
1	Carbon pulses but not phosphorus pulses are related to decreases in microbial biomass during repeated drying and rewetting of soils. <i>Soil Biology and Biochemistry</i> , 2009, 41, 1406-1416.	8.8	215
2	Adsorbent materials for ammonium and ammonia removal: A review. <i>Journal of Cleaner Production</i> , 2021, 283, 124611.	9.3	129
3	Rhizosphere priming effect on soil organic carbon decomposition under plant species differing in soil acidification and root exudation. <i>New Phytologist</i> , 2016, 211, 864-873.	7.3	114
4	The contribution of crop residues to changes in soil pH under field conditions. <i>Plant and Soil</i> , 2013, 366, 185-198.	3.7	112
5	Effect of crop residue biochar on soil acidity amelioration in strongly acidic tea garden soils. <i>Soil Use and Management</i> , 2014, 30, 119-128.	4.9	87
6	Rewetting CO <sub>2</sub> pulses in Australian agricultural soils and the influence of soil properties. <i>Biology and Fertility of Soils</i> , 2010, 46, 739-753.	4.3	78
7	Carbon and nitrogen partitioning of wheat and field pea grown with two nitrogen levels under elevated CO <sub>2</sub> . <i>Plant and Soil</i> , 2015, 391, 367-382.	3.7	71
8	Long-term effects of elevated CO <sub>2</sub> on carbon and nitrogen functional capacity of microbial communities in three contrasting soils. <i>Soil Biology and Biochemistry</i> , 2016, 97, 157-167.	8.8	65
9	Model organic compounds differ in their effects on pH changes of two soils differing in initial pH. <i>Biology and Fertility of Soils</i> , 2011, 47, 51-62.	4.3	62
10	Spectroscopic evidence for hyperthermophilic pretreatment intensifying humification during pig manure and rice straw composting. <i>Bioresource Technology</i> , 2019, 294, 122131.	9.6	61
11	Factors affecting the measurement of soil <math>pH</math> buffer capacity: approaches to optimize the methods. <i>European Journal of Soil Science</i> , 2015, 66, 53-64.	3.9	59
12	Rapid changes in carbon and phosphorus after rewetting of dry soil. <i>Biology and Fertility of Soils</i> , 2011, 47, 41-50.	4.3	55
13	Model organic compounds differ in priming effects on alkalinity release in soils through carbon and nitrogen mineralisation. <i>Soil Biology and Biochemistry</i> , 2012, 51, 35-43.	8.8	54
14	Interactive effects of initial pH and nitrogen status on soil organic carbon priming by glucose and lignocellulose. <i>Soil Biology and Biochemistry</i> , 2018, 123, 33-44.	8.8	54
15	Long-term stabilization of crop residues and soil organic carbon affected by residue quality and initial soil pH. <i>Science of the Total Environment</i> , 2017, 587-588, 502-509.	8.0	50
16	The short-term effects of liming on organic carbon mineralisation in two acidic soils as affected by different rates and application depths of lime. <i>Biology and Fertility of Soils</i> , 2017, 53, 431-443.	4.3	49
17	Organic anion-to-acid ratio influences pH change of soils differing in initial pH. <i>Journal of Soils and Sediments</i> , 2014, 14, 407-414.	3.0	44
18	Effects of fertilizer types on nitrogen and phosphorous loss from rice-wheat rotation system in the Taihu Lake region of China. <i>Agriculture, Ecosystems and Environment</i> , 2019, 285, 106605.	5.3	43

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19	Contribution of soluble and insoluble fractions of agricultural residues to short-term pH changes. <i>European Journal of Soil Science</i> , 2011, 62, 718-727.	3.9	41
20	Elevated CO <sub>2</sub> temporally enhances phosphorus immobilization in the rhizosphere of wheat and chickpea. <i>Plant and Soil</i> , 2013, 368, 315-328.	3.7	38
21	Fertilization alters microbial community composition and functional patterns by changing the chemical nature of soil organic carbon: A field study in a Halosol. <i>Geoderma</i> , 2017, 292, 17-24.	5.1	37
22	Enhanced nitrogen retention by lignite during poultry litter composting. <i>Journal of Cleaner Production</i> , 2020, 277, 122422.	9.3	36
23	Long-term effect of lime application on the chemical composition of soil organic carbon in acid soils varying in texture and liming history. <i>Biology and Fertility of Soils</i> , 2016, 52, 295-306.	4.3	35
24	Residue addition and liming history interactively enhance mineralization of native organic carbon in acid soils. <i>Biology and Fertility of Soils</i> , 2017, 53, 61-75.	4.3	35
25	Free-air CO <sub>2</sub> enrichment (FACE) reduces the inhibitory effect of soil nitrate on N <sub>2</sub> fixation of <i>Pisum sativum</i> . <i>Annals of Botany</i> , 2016, 117, 177-185.	2.9	30
26	pH change, carbon and nitrogen mineralization in paddy soils as affected by Chinese milk vetch addition and soil water regime. <i>Journal of Soils and Sediments</i> , 2013, 13, 654-663.	3.0	27
27	Effects of fertilization practices on aluminum fractions and species in a wheat soil. <i>Journal of Soils and Sediments</i> , 2016, 16, 1933-1943.	3.0	24
28	Gas emissions during cattle manure composting and stockpiling. <i>Journal of Environmental Quality</i> , 2020, 49, 228-235.	2.0	24
29	Lignite as additives accelerates the removal of antibiotic resistance genes during poultry litter composting. <i>Bioresource Technology</i> , 2020, 315, 123841.	9.6	19
30	Use of crop residues with alkaline slag to ameliorate soil acidity in an Ultisol. <i>Soil Use and Management</i> , 2012, 28, 148-156.	4.9	16
31	Soil organic carbon contributes to alkalinity priming induced by added organic substrates. <i>Soil Biology and Biochemistry</i> , 2013, 65, 217-226.	8.8	16
32	Effectiveness of innovative organic amendments in acid soils depends on their ability to supply P and alleviate Al and Mn toxicity in plants. <i>Journal of Soils and Sediments</i> , 2020, 20, 3951-3962.	3.0	16
33	Surface Amendments Can Ameliorate Subsoil Acidity in Tea Garden Soils of High-Rainfall Environments. <i>Pedosphere</i> , 2016, 26, 180-191.	4.0	13
34	Impact of novel materials on alkalinity movement down acid soil profiles when combined with lime. <i>Journal of Soils and Sediments</i> , 2021, 21, 52-62.	3.0	12
35	Effects of Exotic <i>Spartina alterniflora</i> Invasion on Soil Phosphorus and Carbon Pools and Associated Soil Microbial Community Composition in Coastal Wetlands. <i>ACS Omega</i> , 2021, 6, 5730-5738.	3.5	11
36	Changes in water content of two agricultural soils does not alter labile P and C pools. <i>Plant and Soil</i> , 2011, 348, 185-201.	3.7	10

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37	Residue decomposition and soil carbon priming in three contrasting soils previously exposed to elevated CO <sub>2</sub> . <i>Biology and Fertility of Soils</i> , 2019, 55, 17-29.	4.3	10
38	Alkalinity movement down acid soil columns was faster when lime and plant residues were combined than when either was applied separately. <i>European Journal of Soil Science</i> , 2021, 72, 313-325.	3.9	10
39	Modified lignite and black coal reduce ammonia volatilization from cattle manure. <i>Journal of Environmental Management</i> , 2022, 301, 113807.	7.8	10
40	An agricultural practise with climate and food security benefits: "Claying" with kaolinitic clay subsoil decreased soil carbon priming and mineralisation in sandy cropping soils. <i>Science of the Total Environment</i> , 2020, 709, 134488.	8.0	9
41	Elevated CO <sub>2</sub> induced rhizosphere effects on the decomposition and N recovery from crop residues. <i>Plant and Soil</i> , 2016, 408, 55-71.	3.7	7
42	Biochars and their feedstocks differ in their short-term effects in ameliorating acid soils grown with aluminium-sensitive wheat. <i>Journal of Soils and Sediments</i> , 2021, 21, 2805-2816.	3.0	7
43	Liming and priming: the long-term impact of pH amelioration on mineralisation may negate carbon sequestration gains.. <i>Soil Security</i> , 2021, 3, 100007.	2.3	7
44	Lignite, dewatered lignite and modified subbituminous coal reduce nitrogen loss from broiler litter. <i>Waste Management</i> , 2021, 136, 113-121.	7.4	7
45	Liming effect of non-legume residues promotes the biological amelioration of soil acidity via nitrate uptake. <i>Plant and Soil</i> , 2021, 464, 63-73.	3.7	4
46	Soil Microbial Biomass and pH as Affected by the Addition of Plant Residues. , 2010, , 320-322.		4
47	Surface modification of coal tailings by thermal air oxidation for ammonia capture. <i>Journal of Cleaner Production</i> , 2022, 362, 132525.	9.3	4
48	Elevated CO <sub>2</sub> in semi-arid cropping systems: A synthesis of research from the Australian Grains Free Air CO <sub>2</sub> Enrichment (AGFACE) research program. <i>Advances in Agronomy</i> , 2022, , 1-73.	5.2	3
49	Carbon Compounds Differ in Their Effects on Soil pH and Microbial Respiration. , 2010, , 331-333.		2
50	Combined nitrate and phosphorus application promotes rhizosphere alkalization and nitrogen uptake by wheat but not canola in acid subsoils. <i>Journal of Soils and Sediments</i> , 2021, 21, 2995-3006.	3.0	1