Colin D. Campbell

List of Publications by Year
in descending order

112	13,567	31976 53	23533 111
papers	citations	h-index	g-index

112	112	112	14106
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	It is elemental: soil nutrient stoichiometry drives bacterial diversity. Environmental Microbiology, 2017, 19, 1176-1188.	3.8	242
2	Longâ€term Impact of Sewage Sludge Application on Rhizobium leguminosarum biovar trifolii: An Evaluation Using Metaâ€Analysis. Journal of Environmental Quality, 2016, 45, 1572-1587.	2.0	4
3	Long-term impact of sewage sludge application on soil microbial biomass: An evaluation using meta-analysis. Environmental Pollution, 2016, 219, 1021-1035.	7.5	52
4	Seasonal dynamics of the soil microbial community: assimilation of old and young carbon sources in a longâ€term field experiment as revealed by natural <scp>¹³C</scp> abundance. European Journal of Soil Science, 2016, 67, 79-89.	3.9	19
5	Soil amendment affects Cd uptake by wheat â€" are we underestimating the risks from chloride inputs?. Science of the Total Environment, 2016, 554-555, 349-357.	8.0	31
6	Microbial diversity drives multifunctionality in terrestrial ecosystems. Nature Communications, 2016, 7, 10541.	12.8	1,365
7	Deterministic processes vary during community assembly for ecologically dissimilar taxa. Nature Communications, 2015, 6, 8444.	12.8	278
8	Environmental risk factors in the incidence of Johneâ€™s disease. Critical Reviews in Microbiology, 2015, 41, 488-507.	6.1	23
9	Assessing biogas digestate, pot ale, wood ash and rockdust as soil amendments: effects on soil chemistry and microbial community composition. Acta Agriculturae Scandinavica - Section B Soil and Plant Science, 2015, 65, 383-399.	0.6	5
10	Early-life residential exposure to soil components in rural areas and childhood respiratory health and allergy. Science of the Total Environment, 2014, 466-467, 338-344.	8.0	6
11	Loss of microbial diversity in soils is coincident with reductions in some specialized functions. Environmental Microbiology, 2014, 16, 2408-2420.	3.8	232
12	The direct response of the external mycelium of arbuscular mycorrhizal fungi to temperature and the implications for nutrient transfer. Soil Biology and Biochemistry, 2014, 78, 109-117.	8.8	42
13	Addition of a volcanic rockdust to soils has no observable effects on plant yield and nutrient status or on soil microbial activity. Plant and Soil, 2013, 367, 419-436.	3.7	26
14	Multiâ€factorial drivers of ammonia oxidizer communities: evidence from a national soil survey. Environmental Microbiology, 2013, 15, 2545-2556.	3.8	141
15	Comparison of soil carbon stocks in <scp>S</scp>cottish soils between 1978 and 2009. European Journal of Soil Science, 2013, 64, 455-465.	3.9	75
16	Land use and a low-carbon society. Earth and Environmental Science Transactions of the Royal Society of Edinburgh, 2012, 103, 165-173.	0.3	16
17	Predictors of fine-scale spatial variation in soil mite and microbe community composition differ between biotic groups and habitats. Pedobiologia, 2012, 55, 83-91.	1.2	47
18	Risk assessment of the use of PAS100 green composts in sheep and cattle production in Scotland. Waste Management, 2012, 32, 117-130.	7.4	19

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19	Prevalence and survival of potential pathogens in source-segregated green waste compost. Science of the Total Environment, 2012, 431, 128-138.	8.0	36
20	Explaining the variation in the soil microbial community: do vegetation composition and soil chemistry explain the same or different parts of the microbial variation?. Plant and Soil, 2012, 351, 355-362.	3.7	42
21	Multiplex T-RFLP Allows for Increased Target Number and Specificity: Detection of Salmonella enterica and Six Species of Listeria in a Single Test. PLoS ONE, 2012, 7, e43672.	2.5	3
22	The arbuscular mycorrhizal fungus Glomus hoi can capture and transfer nitrogen from organic patches to its associated host plant at low temperature. Applied Soil Ecology, 2011, 48, 102-105.	4.3	56
23	Antibiotic Resistance Gene Abundances Correlate with Metal and Geochemical Conditions in Archived Scottish Soils. PLoS ONE, 2011, 6, e27300.	2.5	310
24	Soil pH controls nitrification and carbon substrate utilization more than urea or charcoal in some highly acidic soils. Biology and Fertility of Soils, 2011, 47, 515-522.	4.3	67
25	Links between Ammonia Oxidizer Community Structure, Abundance, and Nitrification Potential in Acidic Soils. Applied and Environmental Microbiology, 2011, 77, 4618-4625.	3.1	357
26	Is vegetation composition or soil chemistry the best predictor of the soil microbial community?. Plant and Soil, 2010, 333, 417-430.	3.7	121
27	Degradation of yew, ragwort and rhododendron toxins during composting. Science of the Total Environment, 2010, 408, 4128-4137.	8.0	26
28	Degradation of metalaxyl-M in contrasting soils is influenced more by differences in physicochemical characteristics than in microbial community composition after re-inoculation of sterilised soils. Soil Biology and Biochemistry, 2010, 42, 1123-1131.	8.8	20
29	The ecological engineering impact of a single tree species on the soil microbial community. Journal of Ecology, 2010, 98, 50-61.	4.0	67
30	The influence of vegetation type, soil properties and precipitation on the composition of soil mite and microbial communities at the landscape scale. Journal of Biogeography, 2010, 37, 1317-1328.	3.0	197
31	The Enigma of Soil Animal Species Diversity Revisited: The Role of Small-Scale Heterogeneity. PLoS ONE, 2010, 5, e11567.	2.5	108
32	Environmental and spatial characterisation of bacterial community composition in soil to inform sampling strategies. Soil Biology and Biochemistry, 2009, 41, 2292-2298.	8.8	130
33	An inter-laboratory comparison of multi-enzyme and multiple substrate-induced respiration assays to assess method consistency in soil monitoring. Biology and Fertility of Soils, 2009, 45, 623-633.	4.3	28
34	Letters to the Editor: Comments on â€˜Baseline values and change in the soil, and implications for monitoringâ€™ by R.M. Lark, P.H. Bellamy & G.J.D. Kirk. European Journal of Soil Science, 2009, 60, 481-483.	3.9	4
35	Considerations for Scottish soil monitoring in the European context. European Journal of Soil Science, 2009, 60, 833-843.	3.9	10
36	Soil genomics. Nature Reviews Microbiology, 2009, 7, 756-756.	28.6	92

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37	Long term repeated prescribed burning increases evenness in the basidiomycete laccase gene pool in forest soils. FEMS Microbiology Ecology, 2009, 67, 397-410.	2.7	29
38	Selecting biological indicators for monitoring soils: A framework for balancing scientific and technical opinion to assist policy development. Ecological Indicators, 2009, 9, 1212-1221.	6.3	227
39	Does the preferential microbial colonisation of ferromagnesian minerals affect mineral weathering in soil?. Die Naturwissenschaften, 2008, 95, 851-858.	1.6	22
40	Multiple profiling of soil microbial communities identifies potential genetic markers of metal-enriched sewage sludge. FEMS Microbiology Ecology, 2008, 65, 555-564.	2.7	25
41	Microbial DNA profiling by multiplex terminal restriction fragment length polymorphism for forensic comparison of soil and the influence of sample condition. Journal of Applied Microbiology, 2008, 105, 813-821.	3.1	35
42	Soil pore volume and the abundance of soil mites in two contrasting habitats. Soil Biology and Biochemistry, 2008, 40, 1538-1541.	8.8	58
43	Population size of indigenous Rhizobium leguminosarum biovar trifolii in long-term field experiments with sewage sludge cake, metal-amended liquid sludge or metal salts: Effects of zinc, copper and cadmium. Soil Biology and Biochemistry, 2008, 40, 1670-1680.	8.8	52
44	Long term repeated burning in a wet sclerophyll forest reduces fungal and bacterial biomass and responses to carbon substrates. Soil Biology and Biochemistry, 2008, 40, 2246-2252.	8.8	62
45	DNA- and RNA-derived assessments of fungal community composition in soil amended with sewage sludge rich in cadmium, copper and zinc. Soil Biology and Biochemistry, 2008, 40, 2358-2365.	8.8	47
46	Cadmium availability to wheat grain in soils treated with sewage sludge or metal salts. Chemosphere, 2007, 66, 1415-1423.	8.2	82
47	Developmental window of response to predator chemical cues in rough-skinned newt embryos. Functional Ecology, 2007, 21, 880-885.	3.6	14
48	Climate change cannot be entirely responsible for soil carbon loss observed in England and Wales, 1978â€“2003. Global Change Biology, 2007, 13, 2605-2609.	9.5	126
49	The cascading effects of birch on heather moorland: a test for the top-down control of an ecosystem engineer. Journal of Ecology, 2007, 95, 540-554.	4.0	50
50	Afforestation of moorland leads to changes in crenarchaeal community structure. FEMS Microbiology Ecology, 2007, 60, 51-59.	2.7	35
51	Long-term exposure to Zn-spiked sewage sludge alters soil community structure. Soil Biology and Biochemistry, 2007, 39, 2576-2586.	8.8	33
52	Assessing CLPPs using MicroRespâ„¢. Journal of Soils and Sediments, 2007, 7, 406-410.	3.0	107
53	Changes in Fungal Community Composition in Response to Vegetational Succession During the Natural Regeneration of Cutover Peatlands. Microbial Ecology, 2007, 54, 508-522.	2.8	74
54	FragMatchâ€”a program for the analysis of DNA fragment data. Mycorrhiza, 2007, 17, 133-136.	2.8	12

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55	The extended phenotype of Scots pine Pinus sylvestris structures the understorey assemblage. Ecography, 2006, 29, 451-457.	4.5	25
56	Microbial indicators of heavy metal contamination in urban and rural soils. Chemosphere, 2006, 63, 1942-1952.	8.2	117
57	Miniaturized test system for soil respiration induced by volatile pollutants. Environmental Pollution, 2006, 140, 269-278.	7.5	20
58	Linking biosensor responses to Cd, Cu and Zn partitioning in soils. Environmental Pollution, 2006, 142, 493-500.	7.5	34
59	Initial results from a long-term, multi-site field study of the effects on soil fertility and microbial activity of sludge cakes containing heavy metals. Soil Use and Management, 2006, 22, 11-21.	4.9	50
60	The identification of 100 ecological questions of high policy relevance in the UK. Journal of Applied Ecology, 2006, 43, 617-627.	4.0	395
61	Substrate utilisation profiles of microbial communities in peat are depth dependent and correlate with whole soil FTIR profiles. Soil Biology and Biochemistry, 2006, 38, 2958-2962.	8.8	63
62	Endophytic bacterial diversity in poplar trees growing on a BTEX-contaminated site: The characterisation of isolates with potential to enhance phytoremediation. Systematic and Applied Microbiology, 2006, 29, 539-556.	2.8	238
63	Use of Multiplex Terminal Restriction Fragment Length Polymorphism for Rapid and Simultaneous Analysis of Different Components of the Soil Microbial Communityâ–¿. Applied and Environmental Microbiology, 2006, 72, 7278-7285.	3.1	146
64	Bacterial diversity promotes community stability and functional resilience after perturbation. Environmental Microbiology, 2005, 7, 301-313.	3.8	429
65	Pine microsatellite markers allow roots and ectomycorrhizas to be linked to individual trees. New Phytologist, 2005, 165, 295-304.	7.3	62
66	Rock fragments in soil support a different microbial community from the fine earth. Soil Biology and Biochemistry, 2004, 36, 1119-1128.	8.8	111
67	Combined microbial community level and single species biosensor responses to monitor recovery of oil polluted soil. Soil Biology and Biochemistry, 2004, 36, 1149-1159.	8.8	90
68	Colonisation of poplar trees by gfp expressing bacterial endophytes. FEMS Microbiology Ecology, 2004, 48, 109-118.	2.7	210
69	Assessing shifts in microbial community structure across a range of grasslands of differing management intensity using CLPP, PLFA and community DNA techniques. Applied Soil Ecology, 2004, 25, 63-84.	4.3	331
70	Native woodland expansion: soil chemical and microbiological indicators of change. Soil Biology and Biochemistry, 2003, 35, 753-764.	8.8	34
71	Potential bias of fungal 18S rDNA and internal transcribed spacer polymerase chain reaction primers for estimating fungal biodiversity in soil. Environmental Microbiology, 2003, 5, 36-47.	3.8	235
72	Diversity of fungi in organic soils under a moorland - Scots pine (Pinus sylvestris L.) gradient. Environmental Microbiology, 2003, 5, 1121-1132.	3.8	166

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73	UV-B radiation and soil microbial communities. Nature, 2003, 423, 138-138.	27.8	5
74	Microbial biomass and metabolic quotient of soils under different land use in the Three Gorges Reservoir area. Geoderma, 2003, 115, 129-138.	5.1	66
75	A Rapid Microtiter Plate Method To Measure Carbon Dioxide Evolved from Carbon Substrate Amendments so as To Determine the Physiological Profiles of Soil Microbial Communities by Using Whole Soil. Applied and Environmental Microbiology, 2003, 69, 3593-3599.	3.1	633
76	Microbial communities in different soil types do not converge after diesel contamination. Journal of Applied Microbiology, 2002, 92, 276-288.	3.1	131
77	Development of a novel, bioluminescence-based, fungal bioassay for toxicity testing. Environmental Microbiology, 2002, 4, 422-429.	3.8	63
78	Arctic microorganisms respond more to elevated UV-B radiation than CO2. Nature, 2002, 416, 82-83.	27.8	102
79	How Resilient Are Microbial Communities to Temperature Changes During Composting?. , 2002, , 3-16.		9
80	Accounting for variability in soil microbial communities of temperate upland grassland ecosystems. Soil Biology and Biochemistry, 2001, 33, 533-551.	8.8	415
81	FTIR spectroscopy of peat in and bordering Scots pine woodland: relationship with chemical and biological properties. Soil Biology and Biochemistry, 2001, 33, 1193-1200.	8.8	92
82	Development of QSARs to investigate the bacterial toxicity and biotransformation potential of aromatic heterocylic compounds. Chemosphere, 2001, 42, 885-892.	8.2	45
83	Comparison of response of six different luminescent bacterial bioassays to bioremediation of five contrasting oils. Journal of Environmental Monitoring, 2001, 3, 404-410.	2.1	32
84	Depth distribution of cherry (Prunus avium L.) tree roots as influenced by grass root competition. Plant and Soil, 2001, 231, 11-19.	3.7	32
85	Title is missing!. Environmental Geochemistry and Health, 2001, 23, 213-217.	3.4	4
86	An arbuscular mycorrhizal fungus accelerates decomposition and acquires nitrogen directly from organic material. Nature, 2001, 413, 297-299.	27.8	945
87	The effect of culture conditions on the mycelial growth and luminescence of naturally bioluminescent fungi. FEMS Microbiology Letters, 2001, 202, 165-170.	1.8	1
88	Investigating the specificity of regulators of degradation of hydrocarbons and hydrocarbon-based compounds using structure-activity relationships. Biodegradation, 2000, 11, 37-47.	3.0	4
89	Microbial Biomass and Community Structure in a Sequence of Soils with Increasing Fertility and Changing Land Use. Microbial Ecology, 2000, 40, 223-237.	2.8	382
90	The effect of EDTA and fulvic acid on Cd, Zn, and Cu toxicity to a bioluminescent construct (pUCD607) of Escherichia coli. Chemosphere, 2000, 40, 319-325.	8.2	48

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91	Title is missing!. Environmental Geochemistry and Health, 1999, 21, 331-337.	3.4	58
92	Characterisation of rhizobia from African acacias and other tropical woody legumes using Biologâ„¢ and partial 16S rRNA sequencing. FEMS Microbiology Letters, 1999, 170, 111-117.	1.8	29
93	Title is missing!. Plant and Soil, 1998, 203, 289-300.	3.7	61
94	Changes in soil microbial biomass and microbial activities in response to 7 years simulated pollutant nitrogen deposition on a heathland and two grasslands. Environmental Pollution, 1998, 103, 239-250.	7.5	128
95	Selective influence of plant species on microbial diversity in the rhizosphere. Soil Biology and Biochemistry, 1998, 30, 369-378.	8.8	1,001
96	Characterisation and microbial utilisation of exudate material from the rhizosphere of Lolium perenne grown under CO2 enrichment. Soil Biology and Biochemistry, 1998, 30, 1033-1043.	8.8	91
97	Effect of Metal-Rich Sludge Amendments on the Soil Microbial Community. Applied and Environmental Microbiology, 1998, 64, 238-245.	3.1	313
98	Direct toxicity assessment of two soils amended with sewage sludge contaminated with heavy metals using a protozoan (Colpoda steinii) bioassay.. Chemosphere, 1997, 34, 501-514.	8.2	30
99	Use of rhizosphere carbon sources in sole carbon source tests to discriminate soil microbial communities. Journal of Microbiological Methods, 1997, 30, 33-41.	1.6	325
100	Effect of heavy metal contamination on the rate of decomposition of sewage sludge and microbial activity. Applied Geochemistry, 1996, 11, 331-333.	3.0	9
101	Functional biodiversity of microbial communities in the rhizospheres of hybrid larch (Larix eurolepis) and Sitka spruce (Picea sitchensis). Tree Physiology, 1996, 16, 1031-1038.	3.1	181
102	Radiocaesium in an organic soil and the effect of treatment with the fungicide â€˜Captanâ€™. Plant and Soil, 1995, 170, 315-322.	3.7	16
103	Effect of nitrogen fertiliser on temporal and spatial variation of mineral nitrogen and microbial biomass in a silvopastoral system. Biology and Fertility of Soils, 1995, 19, 177-185.	4.3	8
104	Use of luminescence-marked bacteria to assess copper bioavailability in malt whisky distillery effluent. Chemosphere, 1995, 31, 3217-3224.	8.2	43
105	Distribution of soil invertase in relation to the root systems ofPicea sitchensis (Bong.) Carr. andAcer pseudoplatanus L. during development of young plants. Plant and Soil, 1994, 167, 73-77.	3.7	2
106	Manual recording of minirhizotron data and its application to study the effect of herbicide and nitrogen fertiliser on tree and pasture root growth in a silvopastoral system. Agroforestry Systems, 1994, 26, 75-87.	2.0	15
107	Scanning electron microscopy of the microbial colonization of composted tree bark. Micron, 1994, 25, 253-255.	2.2	3
108	Effects of nitrogen fertiliser on tree/ pasture competition during the establishment phase of a silvopastoral system. Annals of Applied Biology, 1994, 124, 83-96.	2.5	24

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109	A method for counting roots observed in minirhizotrons and their theoretical conversion to root length density. Plant and Soil, 1993, 153, 1-9.	3.7	30
110	Soil physical factors affecting the growth of sycamore (Acer pseudoplatanus L.) in a silvopastoral system on a stony upland soil in North-East Scotland. Agroforestry Systems, 1993, 24, 295-306.	2.0	13
111	The composting of tree bark in small reactorsâ€"adiabatic and fixed-temperature experiments. Biological Wastes, 1990, 31, 175-185.	0.2	18
112	The composting of tree bark in small reactorsâ€" self-heating experiments. Biological Wastes, 1990, 31, 145-161.	0.2	17