

Brian R Wilson

List of Publications by Citations

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77
papers

1,932
citations

27
h-index

41
g-index

81
ext. papers

2,252
ext. citations

3.9
avg, IF

5.15
L-index

#	Paper	IF	Citations
77	Drivers of soil organic carbon storage and vertical distribution in Eastern Australia. <i>Plant and Soil</i> , 2015 , 390, 111-127	4.2	127
76	Organic amendments influence soil quality and carbon sequestration in the Indo-Gangetic plains of India. <i>Agriculture, Ecosystems and Environment</i> , 2012 , 156, 134-141	5.7	121
75	Digital soil mapping algorithms and covariates for soil organic carbon mapping and their implications: A review. <i>Geoderma</i> , 2019 , 352, 395-413	6.7	104
74	Soil organic carbon mineralization rates in aggregates under contrasting land uses. <i>Geoderma</i> , 2014 , 216, 10-18	6.7	81
73	Physical soil architectural traits are functionally linked to carbon decomposition and bacterial diversity. <i>Scientific Reports</i> , 2016 , 6, 33012	4.9	67
72	Factors Controlling Soil Organic Carbon Stocks with Depth in Eastern Australia. <i>Soil Science Society of America Journal</i> , 2015 , 79, 1741-1751	2.5	62
71	Accumulation of soil carbon under zero tillage cropping and perennial vegetation on the Liverpool Plains, eastern Australia. <i>Soil Research</i> , 2009 , 47, 273	1.8	59
70	Carbon storage in the soils and vegetation of contrasting land uses in northern New South Wales, Australia. <i>Soil Research</i> , 2005 , 43, 21	1.8	55
69	The depth distribution of organic carbon in the soils of eastern Australia. <i>Ecosphere</i> , 2016 , 7, e01214	3.1	52
68	Land-use effects on soil properties on the north-western slopes of New South Wales: Implications for soil condition assessment. <i>Soil Research</i> , 2008 , 46, 359	1.8	51
67	Changes to the dispersive characteristics of soils along an evolutionary slope sequence in the Vera badlands, southeast Spain: implications for site stabilisation. <i>Catena</i> , 2003 , 50, 243-254	5.8	51
66	Land-use contrasts reveal instability of subsoil organic carbon. <i>Global Change Biology</i> , 2017 , 23, 955-965	11.4	46
65	Soil carbon and related soil properties along a soil type and land-use intensity gradient, New South Wales, Australia. <i>Soil Use and Management</i> , 2011 , 27, 437-447	3.1	45
64	Influence of scattered paddock trees on surface soil properties: A study of the Northern Tablelands of NSW. <i>Ecological Management and Restoration</i> , 2002 , 3, 211-219	1.4	45
63	Influence of biochar and compost on soil properties and tree growth in a tropical urban environment. <i>International Journal of Environmental Science and Technology</i> , 2015 , 12, 1303-1310	3.3	44
62	Climate and soil properties limit the positive effects of land use reversion on carbon storage in Eastern Australia. <i>Scientific Reports</i> , 2015 , 5, 17866	4.9	42
61	The relationships between land uses, soil management practices, and soil carbon fractions in South Eastern Australia. <i>Agriculture, Ecosystems and Environment</i> , 2014 , 197, 41-52	5.7	41

60	The initial lignin:nitrogen ratio of litter from above and below ground sources strongly and negatively influenced decay rates of slowly decomposing litter carbon pools. <i>Soil Biology and Biochemistry</i> , 2014 , 77, 268-275	7.5	39
59	The nature of three ancient woodland soils in southern England. <i>Journal of Biogeography</i> , 1997 , 24, 633-646	4.6	38
58	Environmental and human influences on organic carbon fractions down the soil profile. <i>Agriculture, Ecosystems and Environment</i> , 2016 , 223, 152-166	5.7	36
57	Soil hydrological and erosional responses in patches and inter-patches in vegetation states in semi-arid Australia. <i>Geoderma</i> , 2011 , 160, 524-534	6.7	35
56	Factors related to gully erosion in woody encroachment in south-eastern Australia. <i>Catena</i> , 2010 , 83, 148-157	5.8	34
55	Invasive native scrub and soil condition in semi-arid south-eastern Australia. <i>Agriculture, Ecosystems and Environment</i> , 2009 , 132, 212-222	5.7	32
54	Aggregate hierarchy and carbon mineralization in two Oxisols of New South Wales, Australia. <i>Soil and Tillage Research</i> , 2015 , 146, 193-203	6.5	31
53	The value of habitat reconstruction to birds at Gunnedah, New South Wales. <i>Emu</i> , 2004 , 104, 177-189	1.1	31
52	Changes in soil organic carbon pool in three long-term fertility experiments with different cropping systems and inorganic and organic soil amendments in the eastern cereal belt of India. <i>Soil Research</i> , 2010 , 48, 413	1.8	28
51	An allometric model for estimating DBH of isolated and clustered Eucalyptus trees from measurements of crown projection area. <i>Forest Ecology and Management</i> , 2014 , 326, 125-132	3.9	27
50	Comparison of Canopy Volume Measurements of Scattered Eucalypt Farm Trees Derived from High Spatial Resolution Imagery and LiDAR. <i>Remote Sensing</i> , 2016 , 8, 388	5	27
49	Forest burning affects quality and quantity of soil organic matter. <i>Science of the Total Environment</i> , 2017 , 575, 41-49	10.2	26
48	Soil and vegetation response to thinning White Cypress Pine (<i>Callitris glaucophylla</i>) on the North Western Slopes of New South Wales, Australia. <i>Plant and Soil</i> , 2006 , 285, 245-255	4.2	25
47	Scattered paddock trees, litter chemistry, and surface soil properties in pastures of the New England Tablelands, New South Wales. <i>Soil Research</i> , 2004 , 42, 905	1.8	24
46	Measurement and estimation of land-use effects on soil carbon and related properties for soil monitoring: a study on a basalt landscape of northern New South Wales, Australia. <i>Soil Research</i> , 2010 , 48, 421	1.8	23
45	Previous land use and climate influence differences in soil organic carbon following reforestation of agricultural land with mixed-species plantings. <i>Agriculture, Ecosystems and Environment</i> , 2016 , 227, 61-72	5.7	23
44	Land-use and historical management effects on soil organic carbon in grazing systems on the Northern Tablelands of New South Wales. <i>Soil Research</i> , 2013 , 51, 668	1.8	18
43	Mean Residence Time of Soil Organic Carbon in Aggregates Under Contrasting Land Uses Based on Radiocarbon Measurements. <i>Radiocarbon</i> , 2013 , 55, 127-139	4.6	17

42	Scattered native trees and soil patterns in grazing land on the Northern Tablelands of New South Wales, Australia. <i>Soil Research</i> , 2007 , 45, 199	1.8	17
41	Application of char products improves urban soil quality. <i>Soil Use and Management</i> , 2012 , 28, 329-336	3.1	16
40	Mean Residence Time of Soil Organic Carbon in Aggregates Under Contrasting Land Uses Based on Radiocarbon Measurements. <i>Radiocarbon</i> , 2013 , 55, 127-139	4.6	16
39	A comparison of pinewood and moorland soils in the Abernethy Forest Reserve, Scotland. <i>Global Ecology and Biogeography</i> , 2001 , 10, 291-303	6.1	16
38	Comparison of three cation extraction methods and their use in determination of sodium adsorption ratios of some sodic soils. <i>Communications in Soil Science and Plant Analysis</i> , 2001 , 32, 1765-1777	1.5	16
37	Carbon sequestration under subtropical perennial pastures I: Overall trends. <i>Soil Research</i> , 2013 , 51, 760	1.8	15
36	A systematic review of soil carbon management in Australia and the need for a social-ecological systems framework. <i>Science of the Total Environment</i> , 2020 , 719, 135182	10.2	15
35	Characterization of Soil Organic Matter in Aggregates and Size-Density Fractions by Solid State ¹³ C CPMAS NMR Spectroscopy. <i>Communications in Soil Science and Plant Analysis</i> , 2014 , 45, 1523-1537	1.5	14
34	Projections of changes in grassland soil organic carbon under climate change are relatively insensitive to methods of model initialization. <i>European Journal of Soil Science</i> , 2013 , 64, 229-238	3.4	14
33	Biological indicators of soil quality in a long-term rice-wheat system on the Indo-Gangetic plain: combined effect of tillage-water-nutrient management. <i>Environmental Earth Sciences</i> , 2017 , 76, 1	2.9	13
32	Modelling soil organic carbon storage with RothC in irrigated Vertisols under cotton cropping systems in the sub-tropics. <i>Soil and Tillage Research</i> , 2014 , 143, 38-49	6.5	13
31	Soil hydrological and erosional responses in areas of woody encroachment, pasture and woodland in semi-arid Australia. <i>Journal of Arid Environments</i> , 2011 , 75, 936-945	2.5	13
30	Driving factors of soil organic carbon fractions over New South Wales, Australia. <i>Geoderma</i> , 2019 , 353, 213-226	6.7	12
29	The patterns of grazed pasture associated with scattered trees across an Australian temperate landscape: an investigation of pasture quantity and quality. <i>Rangeland Journal</i> , 2011 , 33, 121	1.5	12
28	Using measured stocks of biomass and litter carbon to constrain modelled estimates of sequestration of soil organic carbon under contrasting mixed-species environmental plantings. <i>Science of the Total Environment</i> , 2018 , 615, 348-359	10.2	9
27	Carbon storage in soil and vegetation in paired roadside sites in the box woodlands of eastern Australia. <i>Australian Forestry</i> , 2002 , 65, 268-272	2.1	9
26	Examining the impact of shade on above-ground biomass and normalized difference vegetation index of C3 and C4 grass species in North-Western NSW, Australia. <i>Grass and Forage Science</i> , 2015 , 70, 324-334	2.3	8
25	Determination of Agricultural Impact on Soil Microbial Activity Using ¹⁸ O-PHCl and Respiration Experiments. <i>ACS Earth and Space Chemistry</i> , 2018 , 2, 683-691	3.2	8

24	Assessing ground cover at patch and hillslope scale in semi-arid woody vegetation and pasture using fused Quickbird data. <i>International Journal of Applied Earth Observation and Geoinformation</i> , 2012 , 14, 94-102	7.3	8
23	Drying temperature effects on bulk density and carbon density determination in soils of northern New South Wales. <i>Soil Research</i> , 2009 , 47, 781	1.8	7
22	The influence of individual native trees and grazing regime on soil properties and groundcover patterns in a temperate landscape of New South Wales, Australia. <i>Rangeland Journal</i> , 2009 , 31, 405	1.5	7
21	Soil properties on sub-Antarctic Macquarie Island: Fundamental indicators of ecosystem function and potential change. <i>Catena</i> , 2019 , 177, 167-179	5.8	7
20	Increasing soil organic carbon with maize in cotton-based cropping systems: Mechanisms and potential. <i>Agriculture, Ecosystems and Environment</i> , 2020 , 299, 106985	5.7	6
19	A two-step up-scaling method for mapping runoff and sediment production from pasture and woody encroachment on semi-arid hillslopes. <i>Ecohydrology</i> , 2013 , 6, 83-93	2.5	6
18	Effects of grazing, trenching and surface soil disturbance on ground cover in woody encroachment on the Cobar Pediplain, south-eastern Australia. <i>Journal of Arid Environments</i> , 2013 , 96, 80-86	2.5	6
17	Soil charcoal prediction using attenuated total reflectance mid-infrared spectroscopy. <i>Soil Research</i> , 2017 , 55, 86	1.8	6
16	Hydrological thresholds of soil surface properties identified using conditional inference tree analysis. <i>Earth Surface Processes and Landforms</i> , 2012 , 37, 620-632	3.7	6
15	Litterfall and associated nutrient pools extend beyond the canopy of scattered eucalypt trees in temperate pastures. <i>Plant and Soil</i> , 2011 , 345, 339-352	4.2	5
14	Climatically driven change in soil carbon across a basalt landscape is restricted to non-agricultural land use systems. <i>Soil Research</i> , 2017 , 55, 376	1.8	4
13	Mathematical Functions to Model the Depth Distribution of Soil Organic Carbon in a Range of Soils from New South Wales, Australia under Different Land Uses. <i>Soil Systems</i> , 2019 , 3, 46	3.5	4
12	A Comparative Study of Land Cover Classification Techniques for Farmscapes Using Very High Resolution Remotely Sensed Data. <i>Photogrammetric Engineering and Remote Sensing</i> , 2014 , 80, 461-470	1.6	4
11	Subsoil Microbial Diversity and Stability in Rotational Cotton Systems. <i>Soil Systems</i> , 2020 , 4, 44	3.5	3
10	Rapid PXRF soil organic carbon and organic matter assessment using novel modular radiation detector assembly. <i>Geoderma</i> , 2021 , 382, 114728	6.7	3
9	Comparative study of soil properties under various cultivation regimes of different crops. <i>Soil Research</i> , 2011 , 49, 595	1.8	2
8	The impact of individual <i>Callitris glaucophylla</i> (white cypress pine) trees on agricultural soils and pastures of the north-western slopes of NSW, Australia. <i>Rangeland Journal</i> , 2009 , 31, 321	1.5	2
7	Rhizosphere Legacy: Plant Root Interactions with the Soil and Its Biome. <i>Rhizosphere Biology</i> , 2021 , 129-153	1.5	1

6	Contrasting agricultural management effects on soil organic carbon dynamics between topsoil and subsoil. <i>Soil Research</i> , 2021 , 59, 24	1.8	1
5	Distribution of subsoil microbial activity and biomass under Australian rotational cotton as influenced by system, crop status and season. <i>Soil Research</i> , 2021 , 59, 547	1.8	1
4	Distribution, nature and threats to soils of the Australian Alps: A review. <i>Austral Ecology</i> ,	1.5	0
3	Response to Letter to the Editor Comments on Modelling soil organic carbon storage with RothC in irrigated Vertisols under cotton cropping systems in the sub-tropics (Nimai Senapati, Nilantha R. Hulugalle, Pete Smith, Brian R. Wilson, Jagadeesh B. Yeluripati, Heiko Daniel, Subhadip Ghosh, Peter Lockwood. <i>Soil & Tillage Research</i> 143 (2014) 387-9) <i>Soil and Tillage Research</i> , 2016 , 155, 535-539	6.5	
2	Patch and soil characteristics of pastures with water-spreading banks and woody encroachment in semi-arid Australia. <i>Ecological Management and Restoration</i> , 2013 , 14, 120-126	1.4	
1	High soil acidity under native shrub encroachment in the Cobar Pediplain, south-eastern Australia. <i>Rangeland Journal</i> , 2018 , 40, 451	1.5	