

Brian R Wilson

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/6215672/publications.pdf>

Version: 2024-02-01

81
papers

2,657
citations

159573

30
h-index

197805

49
g-index

81
all docs

81
docs citations

81
times ranked

3074
citing authors

#	ARTICLE	IF	CITATIONS
1	Digital soil mapping algorithms and covariates for soil organic carbon mapping and their implications: A review. <i>Geoderma</i> , 2019, 352, 395-413.	5.1	228
2	Drivers of soil organic carbon storage and vertical distribution in Eastern Australia. <i>Plant and Soil</i> , 2015, 390, 111-127.	3.7	199
3	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.	5.3	163
4	Soil organic carbon mineralization rates in aggregates under contrasting land uses. <i>Geoderma</i> , 2014, 216, 10-18.	5.1	114
5	Factors Controlling Soil Organic Carbon Stocks with Depth in Eastern Australia. <i>Soil Science Society of America Journal</i> , 2015, 79, 1741-1751.	2.2	105
6	Physical soil architectural traits are functionally linked to carbon decomposition and bacterial diversity. <i>Scientific Reports</i> , 2016, 6, 33012.	3.3	93
7	The depth distribution of organic carbon in the soils of eastern Australia. <i>Ecosphere</i> , 2016, 7, e01214.	2.2	76
8	Accumulation of soil carbon under zero tillage cropping and perennial vegetation on the Liverpool Plains, eastern Australia. <i>Soil Research</i> , 2009, 47, 273.	1.1	65
9	Carbon storage in the soils and vegetation of contrasting land uses in northern New South Wales, Australia. <i>Soil Research</i> , 2005, 43, 21.	1.1	64
10	Land-use contrasts reveal instability of subsoil organic carbon. <i>Global Change Biology</i> , 2017, 23, 955-965.	9.5	62
11	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.	5.0	58
12	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.	3.5	58
13	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.	1.1	55
14	Environmental and human influences on organic carbon fractions down the soil profile. <i>Agriculture, Ecosystems and Environment</i> , 2016, 223, 152-166.	5.3	54
15	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.	4.9	53
16	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.	8.8	52
17	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.	5.3	52
18	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.	3.3	52

#	ARTICLE	IF	CITATIONS
19	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.	1.5	47
20	Factors related to gully erosion in woody encroachment in south-eastern Australia. <i>Catena</i> , 2010, 83, 148-157.	5.0	46
21	The nature of three ancient woodland soils in southern England. <i>Journal of Biogeography</i> , 1997, 24, 633-646.	3.0	45
22	Aggregate hierarchy and carbon mineralization in two Oxisols of New South Wales, Australia. <i>Soil and Tillage Research</i> , 2015, 146, 193-203.	5.6	43
23	Soil hydrological and erosional responses in patches and inter-patches in vegetation states in semi-arid Australia. <i>Geoderma</i> , 2011, 160, 524-534.	5.1	41
24	Forest burning affects quality and quantity of soil organic matter. <i>Science of the Total Environment</i> , 2017, 575, 41-49.	8.0	38
25	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.	1.1	36
26	Invasive native scrub and soil condition in semi-arid south-eastern Australia. <i>Agriculture, Ecosystems and Environment</i> , 2009, 132, 212-222.	5.3	35
27	The value of habitat reconstruction to birds at Gunnedah, New South Wales. <i>Emu</i> , 2004, 104, 177-189.	0.6	34
28	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.	3.2	33
29	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.	4.0	33
30	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.	5.3	33
31	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.	1.1	28
32	Driving factors of soil organic carbon fractions over New South Wales, Australia. <i>Geoderma</i> , 2019, 353, 213-226.	5.1	28
33	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.	1.1	26
34	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.	3.7	25
35	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.	8.0	24
36	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.	1.1	24

#	ARTICLE	IF	CITATIONS
37	Carbon sequestration under subtropical perennial pastures I: Overall trends. <i>Soil Research</i> , 2013, 51, 760.	1.1	21
38	Mean Residence Time of Soil Organic Carbon in Aggregates Under Contrasting Land Uses Based on Radiocarbon Measurements. <i>Radiocarbon</i> , 2013, 55, 127-139.	1.8	21
39	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.	1.4	21
40	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.	2.7	21
41	Application of char products improves urban soil quality. <i>Soil Use and Management</i> , 2012, 28, 329-336.	4.9	20
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.	1.1	20
43	A comparison of pinewood and moorland soils in the Abernethy Forest Reserve, Scotland. <i>Global Ecology and Biogeography</i> , 2001, 10, 291-303.	5.8	19
44	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.	1.4	18
45	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.	3.9	18
46	Mean Residence Time of Soil Organic Carbon in Aggregates Under Contrasting Land Uses Based on Radiocarbon Measurements. <i>Radiocarbon</i> , 2013, 55, 127-139.	1.8	17
47	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.	5.6	17
48	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.	0.9	17
49	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.	2.4	15
50	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.	0.9	14
51	Soil properties on sub-Antarctic Macquarie Island: Fundamental indicators of ecosystem function and potential change. <i>Catena</i> , 2019, 177, 167-179.	5.0	13
52	Increasing soil organic carbon with maize in cotton-based cropping systems: Mechanisms and potential. <i>Agriculture, Ecosystems and Environment</i> , 2020, 299, 106985.	5.3	13
53	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.	8.0	12
54	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.	2.4	11

#	ARTICLE	IF	CITATIONS
55	Drying temperature effects on bulk density and carbon density determination in soils of northern New South Wales. <i>Soil Research</i> , 2009, 47, 781.	1.1	10
56	Examining the impact of shade on above-ground biomass and normalized difference vegetation index of C_3 and C_4 grass species in north-western NSW, Australia. <i>Grass and Forage Science</i> , 2015, 70, 324-334.	2.9	10
57	Determination of Agricultural Impact on Soil Microbial Activity Using ^{18}O and Respiration Experiments. <i>ACS Earth and Space Chemistry</i> , 2018, 2, 683-691.	2.7	10
58	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.	2.6	9
59	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.	3.7	8
60	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.	2.8	8
61	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.	0.9	8
62	Hydrological thresholds of soil surface properties identified using conditional inference tree analysis. <i>Earth Surface Processes and Landforms</i> , 2012, 37, 620-632.	2.5	7
63	Soil charcoal prediction using attenuated total reflectance mid-infrared spectroscopy. <i>Soil Research</i> , 2017, 55, 86.	1.1	7
64	Rapid PXRF soil organic carbon and organic matter assessment using novel modular radiation detector assembly. <i>Geoderma</i> , 2021, 382, 114728.	5.1	7
65	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.	2.4	6
66	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.	1.1	6
67	Contrasting agricultural management effects on soil organic carbon dynamics between topsoil and subsoil. <i>Soil Research</i> , 2021, 59, 24.	1.1	5
68	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.	0.6	4
69	Subsoil Microbial Diversity and Stability in Rotational Cotton Systems. <i>Soil Systems</i> , 2020, 4, 44.	2.6	4
70	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, 547-558.	1.1	4
71	Distribution, nature and threats to soils of the Australian Alps: A review. <i>Austral Ecology</i> , 2022, 47, 166-188.	1.5	4
72	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.	0.9	3

#	ARTICLE	IF	CITATIONS
73	Rhizosphere Legacy: Plant Root Interactions with the Soil and Its Biome. <i>Rhizosphere Biology</i> , 2021, , 129-153.	0.6	3
74	Comparative study of soil properties under various cultivation regimes of different crops. <i>Soil Research</i> , 2011, 49, 595.	1.1	2
75	Soil organic matter in a stressed world. <i>Soil Research</i> , 2021, 59, i.	1.1	1
76	Soil Carbon Storage Potential of Tropical Grasses: A Review. , 0, , .		1
77	Patch and soil characteristics of pastures with waterâ€spreading banks and woody encroachment in semiâ€arid Australia. <i>Ecological Management and Restoration</i> , 2013, 14, 120-126.	1.5	0
78	Tree cover extraction from 50 cm worldview2 imagery: A comparison of image processing techniques. , 2013, , .		0
79	Response to Letter to the Editor â€Comments on â€Modelling soil organic carbon storage with RothC in irrigated Vertisols under cotton cropping systems in the sub-tropicsâ€ (Nimai Senapati, Nilantha R.) <i>Tj ETQq1 1 0.784314 rgBT /Overlock 10</i>	5.6	0
80	High soil acidity under native shrub encroachment in the Cobar Pediplain, south-eastern Australia. <i>Rangeland Journal</i> , 2018, 40, 451.	0.9	0
81	Functional Links between Biomass Production and Decomposition of Vetiver (<i>Chrysopogon</i>) <i>Tj ETQq1 1 0.784314 rgBT /Overlock 10</i>	3.5	0