

Elise Pendall

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

168
papers

8,227
citations

48
h-index

86
g-index

192
ext. papers

10,144
ext. citations

7.6
avg, IF

5.95
L-index

#	Paper	IF	Citations
168	Quantifying global soil carbon losses in response to warming. <i>Nature</i> , 2016 , 540, 104-108	50.4	560
167	C4 grasses prosper as carbon dioxide eliminates desiccation in warmed semi-arid grassland. <i>Nature</i> , 2011 , 476, 202-5	50.4	370
166	Shrub encroachment in North American grasslands: shifts in growth form dominance rapidly alters control of ecosystem carbon inputs. <i>Global Change Biology</i> , 2008 , 14, 615-623	11.4	357
165	Below-ground process responses to elevated CO ₂ and temperature: a discussion of observations, measurement methods, and models. <i>New Phytologist</i> , 2004 , 162, 311-322	9.8	318
164	Rhizosphere priming: a nutrient perspective. <i>Frontiers in Microbiology</i> , 2013 , 4, 216	5.7	286
163	The FLUXNET2015 dataset and the ONEFlux processing pipeline for eddy covariance data. <i>Scientific Data</i> , 2020 , 7, 225	8.2	256
162	Oxygen-18 concentrations in recent precipitation and ice cores on the Tibetan Plateau. <i>Journal of Geophysical Research</i> , 2003 , 108, n/a-n/a		199
161	Cascading impacts of bark beetle-caused tree mortality on coupled biogeophysical and biogeochemical processes. <i>Frontiers in Ecology and the Environment</i> , 2012 , 10, 416-424	5.5	182
160	Paleohydrologic reconstruction based on n-alkane distributions in ombrotrophic peat. <i>Organic Geochemistry</i> , 2006 , 37, 1505-1513	3.1	157
159	Climate change alters stoichiometry of phosphorus and nitrogen in a semiarid grassland. <i>New Phytologist</i> , 2012 , 196, 807-815	9.8	150
158	Coordinated approaches to quantify long-term ecosystem dynamics in response to global change. <i>Global Change Biology</i> , 2011 , 17, 843-854	11.4	144
157	Does declining carbon-use efficiency explain thermal acclimation of soil respiration with warming?. <i>Global Change Biology</i> , 2013 , 19, 252-63	11.4	141
156	Modeling soil CO ₂ emissions from ecosystems. <i>Biogeochemistry</i> , 2005 , 73, 71-91	3.8	137
155	Rhizosphere stoichiometry: are C : N : P ratios of plants, soils, and enzymes conserved at the plant species-level?. <i>New Phytologist</i> , 2014 , 201, 505-517	9.8	131
154	Introducing BASE: the Biomes of Australian Soil Environments soil microbial diversity database. <i>GigaScience</i> , 2016 , 5, 21	7.6	131
153	Contrasting effects of elevated CO ₂ and warming on nitrogen cycling in a semiarid grassland. <i>New Phytologist</i> , 2010 , 187, 426-437	9.8	126
152	Altered root traits due to elevated CO ₂ : a meta-analysis. <i>Global Ecology and Biogeography</i> , 2013 , 22, 1095-1105	6.1	121

151	An introduction to the Australian and New Zealand flux tower network (OzFlux). <i>Biogeosciences</i> , 2016 , 13, 5895-5916	4.6	119
150	Positive climate feedbacks of soil microbial communities in a semi-arid grassland. <i>Ecology Letters</i> , 2013 , 16, 234-41	10	115
149	Rhizodeposition stimulated by elevated CO ₂ in a semiarid grassland. <i>New Phytologist</i> , 2004 , 162, 447-458	5.8	114
148	The fate of carbon in a mature forest under carbon dioxide enrichment. <i>Nature</i> , 2020 , 580, 227-231	50.4	109
147	Tree water uptake in a tropical plantation varying in tree diversity: interspecific differences, seasonal shifts and complementarity. <i>Ecohydrology</i> , 2015 , 8, 1-12	2.5	104
146	Multiproxy Record of Late Pleistocene-Holocene Climate and Vegetation Changes from a Peat Bog in Patagonia. <i>Quaternary Research</i> , 2001 , 55, 168-178	1.9	100
145	Partitioning evapotranspiration fluxes from a Colorado grassland using stable isotopes: Seasonal variations and ecosystem implications of elevated atmospheric CO ₂ . <i>Plant and Soil</i> , 2003 , 254, 291-303	4.2	97
144	Impacts of warming and elevated CO ₂ on a semi-arid grassland are non-additive, shift with precipitation, and reverse over time. <i>Ecology Letters</i> , 2016 , 19, 956-66	10	90
143	The temperature responses of soil respiration in deserts: a seven desert synthesis. <i>Biogeochemistry</i> , 2011 , 103, 71-90	3.8	84
142	Multiscale observations of snow accumulation and peak snowpack following widespread, insect-induced lodgepole pine mortality. <i>Ecohydrology</i> , 2014 , 7, 150-162	2.5	78
141	Effects of forest conversion into grassland on soil aggregate structure and carbon storage in Panama: evidence from soil carbon fractionation and stable isotopes. <i>Plant and Soil</i> , 2006 , 288, 217-232	4.2	78
140	A trade-off between plant and soil carbon storage under elevated CO ₂ . <i>Nature</i> , 2021 , 591, 599-603	50.4	78
139	Soil aggregate size distribution mediates microbial climate change feedbacks. <i>Soil Biology and Biochemistry</i> , 2014 , 68, 357-365	7.5	77
138	Elevated atmospheric CO ₂ effects and soil water feedbacks on soil respiration components in a Colorado grassland. <i>Global Biogeochemical Cycles</i> , 2003 , 17, n/a-n/a	5.9	73
137	Elevated CO ₂ stimulates soil respiration in a FACE wheat field. <i>Basic and Applied Ecology</i> , 2001 , 2, 193-203	3.2	72
136	Predicting soil carbon loss with warming. <i>Nature</i> , 2018 , 554, E4-E5	50.4	71
135	Sap flux-scaled transpiration and stomatal conductance response to soil and atmospheric drought in a semi-arid sagebrush ecosystem. <i>Journal of Hydrology</i> , 2012 , 464-465, 176-185	6	68
134	The effect of experimental warming and precipitation change on proteolytic enzyme activity: positive feedbacks to nitrogen availability are not universal. <i>Global Change Biology</i> , 2012 , 18, 2617-2625	11.4	66

133	The impact of soil microorganisms on the global budget of delta18O in atmospheric CO2. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009 , 106, 22411-5	11.5	66
132	Faster turnover of new soil carbon inputs under increased atmospheric CO. <i>Global Change Biology</i> , 2017 , 23, 4420-4429	11.4	64
131	Timber harvesting alters soil carbon mineralization and microbial community structure in coniferous forests. <i>Soil Biology and Biochemistry</i> , 2008 , 40, 1901-1907	7.5	63
130	Long-term enhancement of N availability and plant growth under elevated CO2 in a semi-arid grassland. <i>Functional Ecology</i> , 2008 , 22, 975-982	5.6	60
129	Spring drought regulates summer net ecosystem CO2 exchange in a sagebrush-steppe ecosystem. <i>Agricultural and Forest Meteorology</i> , 2008 , 148, 381-391	5.8	60
128	Differential hydrogen isotopic ratios of Sphagnum and vascular plant biomarkers in ombrotrophic peatlands as a quantitative proxy for precipitation÷evaporation balance. <i>Geochimica Et Cosmochimica Acta</i> , 2010 , 74, 1407-1416	5.5	56
127	Isotopic Approach to Soil Carbonate Dynamics and Implications for Paleoclimatic Interpretations. <i>Quaternary Research</i> , 1994 , 42, 60-71	1.9	56
126	Soil carbon storage under simulated climate change is mediated by plant functional type. <i>Global Change Biology</i> , 2011 , 17, 505-514	11.4	53
125	Tracing Changes in Ecosystem Function under Elevated Carbon Dioxide Conditions. <i>BioScience</i> , 2003 , 53, 805	5.7	53
124	A Rapid Method of Soil Carbonate Analysis Using Gas Chromatography. <i>Soil Science Society of America Journal</i> , 1988 , 52, 880-883	2.5	51
123	Invasive forb benefits from water savings by native plants and carbon fertilization under elevated CO2 and warming. <i>New Phytologist</i> , 2013 , 200, 1156-65	9.8	49
122	Stable-carbon isotopes and soil organic carbon in wheat under CO2 enrichment. <i>New Phytologist</i> , 2001 , 150, 305-314	9.8	49
121	Warming reduces carbon losses from grassland exposed to elevated atmospheric carbon dioxide. <i>PLoS ONE</i> , 2013 , 8, e71921	3.7	49
120	Long-term exposure to elevated CO2 enhances plant community stability by suppressing dominant plant species in a mixed-grass prairie. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014 , 111, 15456-61	11.5	48
119	Impact of mountain pine beetle induced mortality on forest carbon and water fluxes. <i>Environmental Research Letters</i> , 2014 , 9, 105004	6.2	48
118	The Australian SuperSite Network: A continental, long-term terrestrial ecosystem observatory. <i>Science of the Total Environment</i> , 2016 , 568, 1263-1274	10.2	47
117	Response of soil organic matter pools to elevated CO2 and warming in a semi-arid grassland. <i>Plant and Soil</i> , 2011 , 347, 339-350	4.2	44
116	Cheatgrass is favored by warming but not CO2 enrichment in a semi-arid grassland. <i>Global Change Biology</i> , 2016 , 22, 3026-38	11.4	43

115	Soil organic matter dynamics in grassland soils under elevated CO ₂ : Insights from long-term incubations and stable isotopes. <i>Soil Biology and Biochemistry</i> , 2007 , 39, 2628-2639	7.5	43
114	Representativeness of Eddy-Covariance flux footprints for areas surrounding AmeriFlux sites. <i>Agricultural and Forest Meteorology</i> , 2021 , 301-302, 108350	5.8	43
113	Increased plant productivity and decreased microbial respiratory C loss by plant growth-promoting rhizobacteria under elevated CO ₂ . <i>Scientific Reports</i> , 2015 , 5, 9212	4.9	41
112	Plant rhizosphere influence on microbial C metabolism: the role of elevated CO ₂ , N availability and root stoichiometry. <i>Biogeochemistry</i> , 2014 , 117, 229-240	3.8	41
111	Seasonality of soil moisture mediates responses of ecosystem phenology to elevated CO ₂ and warming in a semi-arid grassland. <i>Journal of Ecology</i> , 2015 , 103, 1119-1130	6	41
110	Plant traits, stoichiometry and microbes as drivers of decomposition in the rhizosphere in a temperate grassland. <i>Journal of Ecology</i> , 2017 , 105, 1750-1765	6	39
109	Testing sagebrush allometric relationships across three fire chronosequences in Wyoming, USA. <i>Journal of Arid Environments</i> , 2008 , 72, 285-301	2.5	39
108	Carbon uptake and water use in woodlands and forests in southern Australia during an extreme heat wave event in the "Angry Summer" of 2012/2013. <i>Biogeosciences</i> , 2016 , 13, 5947-5964	4.6	39
107	Elevated carbon dioxide accelerates the spatial turnover of soil microbial communities. <i>Global Change Biology</i> , 2016 , 22, 957-64	11.4	39
106	Disentangling root responses to climate change in a semiarid grassland. <i>Oecologia</i> , 2014 , 175, 699-711	2.9	38
105	Role of plant-fungal nutrient trading and host control in determining the competitive success of ectomycorrhizal fungi. <i>ISME Journal</i> , 2017 , 11, 2666-2676	11.9	38
104	Antecedent moisture and temperature conditions modulate the response of ecosystem respiration to elevated CO ₂ and warming. <i>Global Change Biology</i> , 2015 , 21, 2588-2602	11.4	38
103	Controls over Soil Nitrogen Pools in a Semiarid Grassland Under Elevated CO ₂ and Warming. <i>Ecosystems</i> , 2012 , 15, 761-774	3.9	35
102	Effect of water addition and nitrogen fertilization on the fluxes of CH ₄ , CO ₂ , NO _x , and N ₂ O following five years of elevated CO ₂ in the Colorado Shortgrass Steppe. <i>Atmospheric Chemistry and Physics</i> , 2003 , 3, 1763-1768	6.8	35
101	Paleoclimatic significance of δD and δ ¹³ C values in piñon pine needles from packrat middens spanning the last 40,000 years. <i>Palaeogeography, Palaeoclimatology, Palaeoecology</i> , 1999 , 147, 53-72	2.9	35
100	Focus on extreme events and the carbon cycle. <i>Environmental Research Letters</i> , 2015 , 10, 070201	6.2	33
99	Examining the evidence for decoupling between photosynthesis and transpiration during heat extremes. <i>Biogeosciences</i> , 2019 , 16, 903-916	4.6	32
98	Elevated carbon dioxide alters impacts of precipitation pulses on ecosystem photosynthesis and respiration in a semi-arid grassland. <i>Oecologia</i> , 2010 , 162, 791-802	2.9	32

97	Challenging terrestrial biosphere models with data from the long-term multifactor Prairie Heating and CO Enrichment experiment. <i>Global Change Biology</i> , 2017 , 23, 3623-3645	11.4	31
96	Influence of precipitation seasonality on piñon pine cellulose D values. <i>Global Change Biology</i> , 2000 , 6, 287-301	11.4	30
95	Spatial heterogeneity of temperature sensitivity of soil respiration: A global analysis of field observations. <i>Soil Biology and Biochemistry</i> , 2020 , 141, 107675	7.5	30
94	Depth dependence of soil carbon temperature sensitivity across Tibetan permafrost regions. <i>Soil Biology and Biochemistry</i> , 2018 , 126, 82-90	7.5	30
93	Spatial patterns in leaf area and plant functional type cover across chronosequences of sagebrush ecosystems. <i>Plant Ecology</i> , 2007 , 194, 67-83	1.7	29
92	Comparison of measured and modeled variations in piñon pine leaf water isotopic enrichment across a summer moisture gradient. <i>Oecologia</i> , 2005 , 145, 605-18	2.9	29
91	A global perspective on agroecosystem nitrogen cycles after returning crop residue. <i>Agriculture, Ecosystems and Environment</i> , 2018 , 266, 49-54	5.7	28
90	Decomposition and nitrogen transformation rates in a temperate grassland vary among co-occurring plant species. <i>Plant and Soil</i> , 2012 , 350, 365-378	4.2	28
89	Towards a predictive understanding of belowground process responses to climate change: have we moved any closer?. <i>Functional Ecology</i> , 2008 , 22, 937-940	5.6	27
88	Management Implications of Global Change for Great Plains Rangelands. <i>Rangelands</i> , 2008 , 30, 18-22	1.1	27
87	THE STABLE ISOTOPE CHEMISTRY OF PEDOGENIC CARBONATE IN AN ALLUVIAL SOIL FROM THE PUNJAB, PAKISTAN. <i>Soil Science</i> , 1990 , 149, 199-211	0.9	27
86	Mistletoe, friend and foe: synthesizing ecosystem implications of mistletoe infection. <i>Environmental Research Letters</i> , 2017 , 12, 115012	6.2	26
85	Gross primary production responses to warming, elevated CO ₂ , and irrigation: quantifying the drivers of ecosystem physiology in a semiarid grassland. <i>Global Change Biology</i> , 2017 , 23, 3092-3106	11.4	25
84	Elevated CO ₂ and warming shift the functional composition of soil nematode communities in a semiarid grassland. <i>Soil Biology and Biochemistry</i> , 2016 , 103, 46-51	7.5	25
83	Land use and season affect fluxes of CO ₂ , CH ₄ , CO, N ₂ O, H ₂ and isotopic source signatures in Panama: evidence from nocturnal boundary layer profiles. <i>Global Change Biology</i> , 2010 , 16, 2721-2736	11.4	25
82	Effect of crop residue addition on soil organic carbon priming as influenced by temperature and soil properties. <i>Geoderma</i> , 2019 , 347, 70-79	6.7	23
81	Microclimatic performance of a free-air warming and CO ₂ enrichment experiment in windy Wyoming, USA. <i>PLoS ONE</i> , 2015 , 10, e0116834	3.7	23
80	Aboveground and Belowground Carbon Pools After Fire in Mountain Big Sagebrush Steppe. <i>Rangeland Ecology and Management</i> , 2010 , 63, 187-196	2.2	23

79	Wetting and drying cycles drive variations in the stable carbon isotope ratio of respired carbon dioxide in semi-arid grassland. <i>Oecologia</i> , 2009 , 160, 321-33	2.9	22
78	Recovery of soil microbial community structure after fire in a sagebrush-grassland ecosystem. <i>Land Degradation and Development</i> , 2010 , 21, 423-432	4.4	22
77	COSORE: A community database for continuous soil respiration and other soil-atmosphere greenhouse gas flux data. <i>Global Change Biology</i> , 2020 , 26, 7268-7283	11.4	22
76	Biogeographic variation in temperature sensitivity of decomposition in forest soils. <i>Global Change Biology</i> , 2020 , 26, 1873-1885	11.4	22
75	Response of soil organic matter dynamics to conversion from tropical forest to grassland as determined by long-term incubation. <i>Biology and Fertility of Soils</i> , 2008 , 44, 1053	6.1	21
74	Climate warming and tree carbon use efficiency in a whole-tree CO tracer study. <i>New Phytologist</i> , 2019 , 222, 1313-1324	9.8	20
73	Root responses to elevated CO ₂ , warming and irrigation in a semi-arid grassland: Integrating biomass, length and life span in a 5-year field experiment. <i>Journal of Ecology</i> , 2018 , 106, 2176-2189	6	20
72	Evapotranspiration (ET) and regulating mechanisms in two semiarid <i>Artemisia</i> -dominated shrub steppes at opposite sides of the globe. <i>Journal of Arid Environments</i> , 2010 , 74, 1461-1470	2.5	20
71	Elevated CO and warming cause interactive effects on soil carbon and shifts in carbon use by bacteria. <i>Ecology Letters</i> , 2018 , 21, 1639-1648	10	20
70	Soil Microbes Compete Strongly with Plants for Soil Inorganic and Amino Acid Nitrogen in a Semiarid Grassland Exposed to Elevated CO ₂ and Warming. <i>Ecosystems</i> , 2015 , 18, 867-880	3.9	19
69	Does soil respiration decline following bark beetle induced forest mortality? Evidence from a lodgepole pine forest. <i>Agricultural and Forest Meteorology</i> , 2015 , 214-215, 201-207	5.8	19
68	Soil Nitrogen Five Years after Bark Beetle Infestation in Lodgepole Pine Forests. <i>Soil Science Society of America Journal</i> , 2015 , 79, 282-293	2.5	19
67	Alfalfa-grass biomass, soil organic carbon, and total nitrogen under different management approaches in an irrigated agroecosystem. <i>Plant and Soil</i> , 2014 , 374, 173-184	4.2	19
66	Upside-down fluxes Down Under: CO ₂ net sink in winter and net source in summer in a temperate evergreen broadleaf forest. <i>Biogeosciences</i> , 2018 , 15, 3703-3716	4.6	19
65	Do rhizosphere priming effects enhance plant nitrogen uptake under elevated CO ₂ ?. <i>Agriculture, Ecosystems and Environment</i> , 2016 , 224, 50-55	5.7	18
64	Emissions of BVOC from lodgepole pine in response to mountain pine beetle attack in high and low mortality forest stands. <i>Biogeosciences</i> , 2013 , 10, 483-499	4.6	18
63	Can UAV-Based Infrared Thermography Be Used to Study Plant-Parasite Interactions between Mistletoe and Eucalypt Trees?. <i>Remote Sensing</i> , 2018 , 10, 2062	5	18
62	Soil physico-chemical properties are more important than microbial diversity and enzyme activity in controlling carbon and nitrogen stocks near Sydney, Australia. <i>Geoderma</i> , 2020 , 366, 114201	6.7	16

61	Mediation of soil C decomposition by arbuscular mycorrhizal fungi in grass rhizospheres under elevated CO ₂ . <i>Biogeochemistry</i> , 2016 , 127, 45-55	3.8	16
60	The carbon dioxide evasion cycle of an intermittent first-order stream: contrasting water-air and soil-air exchange. <i>Biogeochemistry</i> , 2017 , 132, 87-102	3.8	15
59	Isotope partitioning of soil respiration: A Bayesian solution to accommodate multiple sources of variability. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2015 , 120, 221-236	3.7	15
58	Field variability of carbon isotopes in soil organic carbon. <i>Nuclear Instruments & Methods in Physics Research B</i> , 1997 , 123, 451-454	1.2	13
57	Root effects on the temperature sensitivity of soil respiration depend on climatic condition and ecosystem type. <i>Soil and Tillage Research</i> , 2020 , 199, 104574	6.5	12
56	Upscaling CO ₂ fluxes using leaf, soil and chamber measurements across successional growth stages in a sagebrush steppe ecosystem. <i>Journal of Arid Environments</i> , 2015 , 121, 43-51	2.5	12
55	Stable Isotope Constraints on Net Ecosystem Production Under Elevated CO ₂ 2005 , 182-198		12
54	Rising Temperature May Trigger Deep Soil Carbon Loss Across Forest Ecosystems. <i>Advanced Science</i> , 2020 , 7, 2001242	13.6	12
53	Warming and elevated CO ₂ alter the suberin chemistry in roots of photosynthetically divergent grass species. <i>AoB PLANTS</i> , 2017 , 9,	2.9	11
52	Soil organic carbon and nitrogen pools are increased by mixed grass and legume cover crops in vineyard agroecosystems: Detecting short-term management effects using infrared spectroscopy. <i>Geoderma</i> , 2020 , 379, 114619	6.7	11
51	Using a paired tower approach and remote sensing to assess carbon sequestration and energy distribution in a heterogeneous sclerophyll forest. <i>Science of the Total Environment</i> , 2020 , 699, 133918	10.2	11
50	Bark beetle-induced tree mortality alters stand energy budgets due to water budget changes. <i>Theoretical and Applied Climatology</i> , 2018 , 131, 153-165	3	11
49	Elevated CO and water addition enhance nitrogen turnover in grassland plants with implications for temporal stability. <i>Ecology Letters</i> , 2018 , 21, 674-682	10	10
48	Does vegetation structure regulate the spatial structure of soil respiration within a sagebrush steppe ecosystem?. <i>Journal of Arid Environments</i> , 2014 , 103, 1-10	2.5	10
47	An incubation study of temperature sensitivity of greenhouse gas fluxes in three land-cover types near Sydney, Australia. <i>Science of the Total Environment</i> , 2019 , 688, 324-332	10.2	9
46	Effects of elevated CO on fine root biomass are reduced by aridity but enhanced by soil nitrogen: A global assessment. <i>Scientific Reports</i> , 2017 , 7, 15355	4.9	9
45	Where does all the carbon go? The missing sink. <i>New Phytologist</i> , 2002 , 153, 207-210	9.8	8
44	Soil/landform relationships surrounding the Harappa archaeological site, Pakistan. <i>Geoarchaeology - an International Journal</i> , 1990 , 5, 301-322	1.4	8

43	An introduction to the Australian and New Zealand flux tower network OzFlux		8
42	Trading Water for Carbon: Maintaining Photosynthesis at the Cost of Increased Water Loss During High Temperatures in a Temperate Forest. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2020 , 125, e2019JG005239	3.7	8
41	The three major axes of terrestrial ecosystem function. <i>Nature</i> , 2021 , 598, 468-472	50.4	8
40	Seasonally contrasting responses of evapotranspiration to warming and elevated CO ₂ in a semiarid grassland. <i>Ecohydrology</i> , 2017 , 10, e1880	2.5	7
39	Warming and Elevated CO ₂ Interact to Alter Seasonality and Reduce Variability of Soil Water in a Semiarid Grassland. <i>Ecosystems</i> , 2018 , 21, 1533-1544	3.9	7
38	Soil physico-chemical properties are critical for predicting carbon storage and nutrient availability across Australia. <i>Environmental Research Letters</i> , 2020 , 15, 094088	6.2	7
37	Shallow snowpack inhibits soil respiration in sagebrush steppe through multiple biotic and abiotic mechanisms. <i>Ecosphere</i> , 2016 , 7, e01297	3.1	7
36	Generating Spatially Robust Carbon Budgets From Flux Tower Observations. <i>Geophysical Research Letters</i> , 2020 , 47, e2019GL085942	4.9	6
35	Quantifying and reducing uncertainties in estimated soil CO ₂ fluxes with hierarchical data-model integration. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2016 , 121, 2935-2948	3.7	6
34	Daily and seasonal changes in soil amino acid composition in a semiarid grassland exposed to elevated CO ₂ and warming. <i>Biogeochemistry</i> , 2015 , 123, 135-146	3.8	6
33	Microbial functional genes commonly respond to elevated carbon dioxide. <i>Environment International</i> , 2020 , 144, 106068	12.9	6
32	Does root respiration in Australian rainforest tree seedlings acclimate to experimental warming?. <i>Tree Physiology</i> , 2020 , 40, 1192-1204	4.2	5
31	Biophysical Factors and Canopy Coupling Control Ecosystem Water and Carbon Fluxes of Semiarid Sagebrush Ecosystems. <i>Rangeland Ecology and Management</i> , 2018 , 71, 309-317	2.2	5
30	Digging into the roots of belowground carbon cycling following seven years of Prairie Heating and CO ₂ Enrichment (PHACE), Wyoming USA. <i>Soil Biology and Biochemistry</i> , 2017 , 115, 169-177	7.5	5
29	Separating contributions from natural and anthropogenic sources in atmospheric methane from the Black Sea region, Romania. <i>Applied Geochemistry</i> , 2008 , 23, 2871-2879	3.5	5
28	Exploring the Potential of DSCOVER EPIC Data to Retrieve Clumping Index in Australian Terrestrial Ecosystem Research Network Observing Sites. <i>Frontiers in Remote Sensing</i> , 2021 , 2,	1	5
27	Carbon input control over soil organic matter dynamics in a temperate grassland exposed to elevated CO ₂ and warming		4
26	Pastures and Climate Extremes: Impacts of warming and drought on the productivity and resilience of key pasture species in a field experiment		4

25	Climate warming negates arbuscular mycorrhizal fungal reductions in soil phosphorus leaching with tall fescue but not lucerne. <i>Soil Biology and Biochemistry</i> , 2021 , 152, 108075	7.5	4
24	Modeling soil CO ₂ production and transport with dynamic source and diffusion terms: testing the steady-state assumption using DETECT v1.0. <i>Geoscientific Model Development</i> , 2018 , 11, 1909-1928	6.3	4
23	Ecosystem type drives tea litter decomposition and associated prokaryotic microbiome communities in freshwater and coastal wetlands at a continental scale. <i>Science of the Total Environment</i> , 2021 , 782, 146819	10.2	4
22	Impacts of elevated carbon dioxide on carbon gains and losses from soil and associated microbes in a Eucalyptus woodland. <i>Soil Biology and Biochemistry</i> , 2020 , 143, 107734	7.5	3
21	Carbon isotopic tracing of sugars throughout whole-trees exposed to climate warming. <i>Plant, Cell and Environment</i> , 2019 , 42, 3253-3263	8.4	3
20	Microbial carbon use efficiency, biomass residence time and temperature sensitivity across ecosystems and soil depths. <i>Soil Biology and Biochemistry</i> , 2021 , 154, 108117	7.5	3
19	Response of sagebrush carbon metabolism to experimental precipitation pulses. <i>Journal of Arid Environments</i> , 2016 , 135, 181-194	2.5	3
18	Temporal Coupling of Subsurface and Surface Soil CO ₂ Fluxes: Insights From a Nonsteady State Model and Cross-Wavelet Coherence Analysis. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2018 , 123, 1406-1424	3.7	2
17	High-throughput, image-based phenotyping reveals nutrient-dependent growth facilitation in a grass-legume mixture. <i>PLoS ONE</i> , 2020 , 15, e0239673	3.7	2
16	Carbon uptake and water use in woodlands and forests in southern Australia during an extreme heat wave event in the 'Angry Summer' of 2012/2013		2
15	Recovery from Severe Mistletoe Infection After Heat- and Drought-Induced Mistletoe Death. <i>Ecosystems</i> , 1	3.9	2
14	The influence of roots on mycorrhizal fungi, saprotrophic microbes and carbon dynamics in a low-phosphorus Eucalyptus forest under elevated CO ₂ . <i>Functional Ecology</i> , 2021 , 35, 2056-2071	5.6	2
13	Thermal optima of gross primary productivity are closely aligned with mean air temperatures across Australian wooded ecosystems. <i>Global Change Biology</i> , 2021 , 27, 4727-4744	11.4	2
12	Stimulation of soil microbial functioning by elevated CO ₂ may surpass effects mediated by irrigation in a semiarid grassland. <i>Geoderma</i> , 2021 , 401, 115162	6.7	2
11	Seasonal effects of altered precipitation regimes on ecosystem-level CO ₂ fluxes and their drivers in a grassland from Eastern Australia. <i>Plant and Soil</i> , 2021 , 460, 435-451	4.2	2
10	Model-data fusion approach to quantify evapotranspiration and net ecosystem exchange across the sagebrush ecosystem at different temporal resolutions. <i>Ecohydrology</i> , 2018 , 11, e1957	2.5	1
9	Direct and indirect trophic interactions of soil nematodes impact chickpea and oat nutrition. <i>Plant and Soil</i> , 2020 , 457, 255-268	4.2	1
8	Climate warming alters photosynthetic responses to elevated CO ₂ in prairie plants. <i>American Journal of Botany</i> , 2020 , 107, 1238-1252	2.7	1

7	Concurrent Measurements of Soil and Ecosystem Respiration in a Mature Eucalypt Woodland: Advantages, Lessons, and Questions. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2021 , 126, e2020JG006221	3.7	1
6	Integrating Ecological Stoichiometry to Understand Nutrient Limitation and Potential for Competition in Mixed Pasture Assemblages. <i>Journal of Soil Science and Plant Nutrition</i> , 2021 , 21, 2489-2500	3.2	1
5	Tapping into the physiological responses to mistletoe infection during heat and drought stress. <i>Tree Physiology</i> , 2021 ,	4.2	1
4	Arbuscular mycorrhizal fungal-mediated reductions in N ₂ O emissions were not impacted by experimental warming for two common pasture species. <i>Pedobiologia</i> , 2021 , 87-88, 150744	1.7	0
3	Key microorganisms mediate soil carbon-climate feedbacks in forest ecosystems. <i>Science Bulletin</i> , 2021 , 66, 2036-2044	10.6	0
2	Pastures and Climate Extremes: Impacts of Cool Season Warming and Drought on the Productivity of Key Pasture Species in a Field Experiment.. <i>Frontiers in Plant Science</i> , 2022 , 13, 836968	6.2	0
1	Elevated CO ₂ alters the temperature sensitivity of stem CO ₂ efflux in a mature eucalypt woodland. <i>Environmental and Experimental Botany</i> , 2021 , 188, 104508	5.9	