

# Louise E Jackson

## List of Publications by Year in descending order

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Version: 2024-02-01

55  
papers

5,185  
citations

117571

34  
h-index

155592

55  
g-index

56  
all docs

56  
docs citations

56  
times ranked

6142  
citing authors

#	ARTICLE	IF	CITATIONS
1	Soil enzyme activities, microbial communities, and carbon and nitrogen availability in organic agroecosystems across an intensively-managed agricultural landscape. <i>Soil Biology and Biochemistry</i> , 2014, 68, 252-262.	4.2	551
2	Microbial immobilization of ammonium and nitrate in relation to ammonification and nitrification rates in organic and conventional cropping systems. <i>Soil Biology and Biochemistry</i> , 2003, 35, 29-36.	4.2	368
3	Short-term partitioning of ammonium and nitrate between plants and microbes in an annual grassland. <i>Soil Biology and Biochemistry</i> , 1989, 21, 409-415.	4.2	345
4	Roots, Nitrogen Transformations, and Ecosystem Services. <i>Annual Review of Plant Biology</i> , 2008, 59, 341-363.	8.6	267
5	Land use and climatic factors structure regional patterns in soil microbial communities. <i>Global Ecology and Biogeography</i> , 2010, 19, 27-39.	2.7	261
6	Spatial and temporal effects on plant-microbial competition for inorganic nitrogen in a California annual grassland. <i>Soil Biology and Biochemistry</i> , 1989, 21, 1059-1066.	4.2	250
7	Soil microbial community composition and land use history in cultivated and grassland ecosystems of coastal California. <i>Soil Biology and Biochemistry</i> , 2002, 34, 1599-1611.	4.2	242
8	Global and Local Concerns: What Attitudes and Beliefs Motivate Farmers to Mitigate and Adapt to Climate Change?. <i>PLoS ONE</i> , 2012, 7, e52882.	1.1	195
9	Ecological intensification and arbuscular mycorrhizas: a meta-analysis of tillage and cover crop effects. <i>Journal of Applied Ecology</i> , 2017, 54, 1785-1793.	1.9	166
10	Climate-smart agriculture global research agenda: scientific basis for action. <i>Agriculture and Food Security</i> , 2014, 3, .	1.6	165
11	Effects of arbuscular mycorrhizae on tomato yield, nutrient uptake, water relations, and soil carbon dynamics under deficit irrigation in field conditions. <i>Science of the Total Environment</i> , 2016, 566-567, 1223-1234.	3.9	164
12	Microbial responses to simulated tillage in cultivated and uncultivated soils. <i>Soil Biology and Biochemistry</i> , 2000, 32, 1547-1559.	4.2	160
13	Short-term Dynamics of Nitrogen, Microbial Activity, and Phospholipid Fatty Acids after Tillage. <i>Soil Science Society of America Journal</i> , 2001, 65, 118-126.	1.2	160
14	Soil microbial community composition as affected by restoration practices in California grassland. <i>Soil Biology and Biochemistry</i> , 2006, 38, 1851-1860.	4.2	145
15	Linking soil properties and nematode community composition: effects of soil management on soil food webs. <i>Nematology</i> , 2006, 8, 703-715.	0.2	108
16	Ecological Origins of California's Mediterranean Grasses. <i>Journal of Biogeography</i> , 1985, 12, 349.	1.4	106
17	Mycorrhizal fungi enhance plant nutrient acquisition and modulate nitrogen loss with variable water regimes. <i>Global Change Biology</i> , 2018, 24, e171-e182.	4.2	105
18	Biodiversity is associated with indicators of soil ecosystem functions over a landscape gradient of agricultural intensification. <i>Landscape Ecology</i> , 2010, 25, 1333-1348.	1.9	104

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19	Soil Organic Matter Functional Group Composition in Relation to Organic Carbon, Nitrogen, and Phosphorus Fractions in Organically Managed Tomato Fields. <i>Soil Science Society of America Journal</i> , 2015, 79, 772-782.	1.2	104
20	Microbial responses and nitrous oxide emissions during wetting and drying of organically and conventionally managed soil under tomatoes. <i>Biology and Fertility of Soils</i> , 2005, 42, 109-118.	2.3	99
21	Arbuscular mycorrhizal effects on plant water relations and soil greenhouse gas emissions under changing moisture regimes. <i>Soil Biology and Biochemistry</i> , 2014, 74, 184-192.	4.2	78
22	Root distribution in relation to soil nitrogen availability in field-grown tomatoes. <i>Plant and Soil</i> , 1990, 128, 115-126.	1.8	77
23	Abundance, diversity and connectance of soil food web channels along environmental gradients in an agricultural landscape. <i>Soil Biology and Biochemistry</i> , 2011, 43, 2374-2383.	4.2	55
24	Vineyard floor management affects soil, plant nutrition, and grape yield and quality. <i>California Agriculture</i> , 2008, 62, 184-190.	0.5	55
25	Transcriptomic and metabolic responses of mycorrhizal roots to nitrogen patches under field conditions. <i>Plant and Soil</i> , 2012, 350, 145-162.	1.8	51
26	Growth, nutrition, and soil respiration of a mycorrhiza-defective tomato mutant and its mycorrhizal wild-type progenitor. <i>Functional Plant Biology</i> , 2008, 35, 228.	1.1	44
27	Tomato root transcriptome response to a nitrogen-enriched soil patch. <i>BMC Plant Biology</i> , 2010, 10, 75.	1.6	44
28	Can conservation agriculture improve phosphorus (P) availability in weathered soils? Effects of tillage and residue management on soil P status after 9 years in a Kenyan Oxisol. <i>Soil and Tillage Research</i> , 2017, 166, 157-166.	2.6	43
29	Nematode diversity, food web condition, and chemical and physical properties in different soil habitats of an organic farm. <i>Biology and Fertility of Soils</i> , 2008, 44, 727-744.	2.3	42
30	Plant-soil biodiversity relationships and nutrient retention in agricultural riparian zones of the Sacramento Valley, California. <i>Agroforestry Systems</i> , 2010, 80, 41-60.	0.9	40
31	Soil microbial-root and microbial-rhizosphere processes to increase nitrogen availability and retention in agroecosystems. <i>Current Opinion in Environmental Sustainability</i> , 2012, 4, 517-522.	3.1	38
32	Tightly-Coupled Plant-Soil Nitrogen Cycling: Comparison of Organic Farms across an Agricultural Landscape. <i>PLoS ONE</i> , 2015, 10, e0131888.	1.1	38
33	Organic Amendment and Tillage Effects on Vegetable Field Weed Emergence and Seedbanks <sup>1</sup> . <i>Weed Technology</i> , 2003, 17, 42-50.	0.4	37
34	Assessment of carbon in woody plants and soil across a vineyard-woodland landscape. <i>Carbon Balance and Management</i> , 2011, 6, 11.	1.4	33
35	California processing tomatoes: Morphological, physiological and phenological traits associated with crop improvement during the last 80 years. <i>European Journal of Agronomy</i> , 2014, 53, 45-55.	1.9	32
36	Rototillage, Disking, and Subsequent Irrigation. <i>Journal of Environmental Quality</i> , 2002, 31, 752-758.	1.0	31

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37	Nematode food webs associated with native perennial plant species and soil nutrient pools in California riparian oak woodlands. <i>Geoderma</i> , 2014, 228-229, 182-191.	2.3	26
38	Mycorrhizal effects on growth and nutrition of tomato under elevated atmospheric carbon dioxide. <i>Functional Plant Biology</i> , 2007, 34, 730.	1.1	26
39	The Potential for California Agricultural Crop Soils to Reduce Greenhouse Gas Emissions. <i>Advances in Agronomy</i> , 2010, , 123-162.	2.4	20
40	Nematode community responses to a moisture gradient and grazing along a restored riparian corridor. <i>European Journal of Soil Biology</i> , 2012, 50, 32-38.	1.4	20
41	The reduced mycorrhizal colonisation (rmc) mutation of tomato disrupts five gene sequences including the CYCLOPS/IPD3 homologue. <i>Mycorrhiza</i> , 2013, 23, 573-584.	1.3	20
42	Inside Arbuscular Mycorrhizal Roots – Molecular Probes to Understand the Symbiosis. <i>Plant Genome</i> , 2013, 6, plantgenome2012.06.0007.	1.6	19
43	Ecologically Based Nutrient Management. , 2017, , 203-257.		18
44	Increasing the effective use of water in processing tomatoes through alternate furrow irrigation without a yield decrease. <i>Agricultural Water Management</i> , 2016, 177, 107-117.	2.4	16
45	Biochemical proxies indicate differences in soil C cycling induced by long-term tillage and residue management in a tropical agroecosystem. <i>Plant and Soil</i> , 2017, 420, 315-329.	1.8	16
46	Use of local greenhouse gas inventories to prioritise opportunities for climate action planning and voluntary mitigation by agricultural stakeholders in California. <i>Journal of Environmental Planning and Management</i> , 2013, 56, 553-571.	2.4	13
47	Use of introgression lines to determine the ecophysiological basis for changes in water use efficiency and yield in California processing tomatoes. <i>Functional Plant Biology</i> , 2014, 41, 119.	1.1	13
48	Root expression of nitrogen metabolism genes reflects soil nitrogen cycling in an organic agroecosystem. <i>Plant and Soil</i> , 2015, 392, 175-189.	1.8	11
49	Cultivar mixtures of processing tomato in an organic agroecosystem. <i>Organic Agriculture</i> , 2011, 1, 17-30.	1.2	10
50	Scientists, growers assess trade-offs in use of tillage, cover crops and compost. <i>California Agriculture</i> , 2003, 57, 48-54.	0.5	10
51	The impacts of alternative patterns of urbanization on greenhouse gas emissions in an agricultural county. <i>Journal of Urbanism</i> , 2013, 6, 213-235.	0.6	9
52	Below and aboveground responses to lupines and litter mulch in a California grassland restored with native bunchgrasses. <i>Applied Soil Ecology</i> , 2009, 42, 124-133.	2.1	7
53	Minimum tillage practices affect disease and yield of lettuce. <i>California Agriculture</i> , 2002, 56, 35-40.	0.5	6
54	Erratum to “Soil community composition and land use history in cultivated and grassland ecosystems of coastal California” [Soil Biology & Biochemistry 34(11) 1599-1611]. <i>Soil Biology and Biochemistry</i> , 2003, 35, 487.	4.2	5

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55	Assessment of methylammonium as an analog for ammonium in plant uptake from soil. <i>Plant and Soil</i> , 1994, 164, 195-202.	1.8	4