

# Therese M Mcbeath

## List of Publications by Year in descending order

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Version: 2024-02-01

41  
papers

1,649  
citations

331670

21  
h-index

289244

40  
g-index

41  
all docs

41  
docs citations

41  
times ranked

1803  
citing authors

#	ARTICLE	IF	CITATIONS
1	The chemical nature of P accumulation in agricultural soilsâ€™implications for fertiliser management and design: an Australian perspective. <i>Plant and Soil</i> , 2011, 349, 69-87.	3.7	284
2	Crop residue phosphorus: speciation and potential bio-availability. <i>Plant and Soil</i> , 2012, 359, 375-385.	3.7	155
3	Complex Forms of Soil Organic Phosphorusâ€™A Major Component of Soil Phosphorus. <i>Environmental Science &amp; Technology</i> , 2015, 49, 13238-13245.	10.0	97
4	Improving water productivity in the Australian Grains industryâ€™a nationally coordinated approach. <i>Crop and Pasture Science</i> , 2014, 65, 583.	1.5	79
5	Are farmers in low-rainfall cropping regions under-fertilising with nitrogen? A risk analysis. <i>Agricultural Systems</i> , 2013, 116, 37-51.	6.1	72
6	Summer fallow weed control and residue management impacts on winter crop yield though soil water and N accumulation in a winter-dominant, low rainfall region of southern Australia. <i>Crop and Pasture Science</i> , 2013, 64, 922.	1.5	65
7	Farmer risk-aversion limits closure of yield and profit gaps: A study of nitrogen management in the southern Australian wheatbelt. <i>Agricultural Systems</i> , 2015, 137, 108-118.	6.1	65
8	Polyphosphate-fertilizer solution stability with time, temperature, and pH. <i>Journal of Plant Nutrition and Soil Science</i> , 2007, 170, 387-391.	1.9	63
9	Effect of wheat phosphorus status on leaf surface properties and permeability to foliar-applied phosphorus. <i>Plant and Soil</i> , 2014, 384, 7-20.	3.7	61
10	The effect of soil water status on fertiliser, topsoil and subsoil phosphorus utilisation by wheat. <i>Plant and Soil</i> , 2012, 358, 337-348.	3.7	56
11	Efficacy of zinc oxides as fertilisers. <i>Plant and Soil</i> , 2014, 374, 843-855.	3.7	55
12	Phosphorus speciation in mature wheat and canola plants as affected by phosphorus supply. <i>Plant and Soil</i> , 2014, 378, 125-137.	3.7	51
13	Predicting the response of wheat ( <i>Triticum aestivum</i> L.) to liquid and granular phosphorus fertilisers in Australian soils. <i>Soil Research</i> , 2007, 45, 448.	1.1	46
14	Management of crop residues affects the transfer of phosphorus to plant and soil pools: Results from a dual-labelling experiment. <i>Soil Biology and Biochemistry</i> , 2014, 71, 31-39.	8.8	46
15	Changes in P Bioavailability Induced by the Application of Liquid and Powder Sources of P, N and Zn Fertilizers in Alkaline Soils. <i>Nutrient Cycling in Agroecosystems</i> , 2006, 74, 27-40.	2.2	36
16	An assessment of various measures of soil phosphorus and the net accumulation of phosphorus in fertilized soils under pasture. <i>Journal of Plant Nutrition and Soil Science</i> , 2015, 178, 543-554.	1.9	36
17	Break-crop effects on wheat production across soils and seasons in a semi-arid environment. <i>Crop and Pasture Science</i> , 2015, 66, 566.	1.5	27
18	Measuring organic carbon in Calcarosols: understanding the pitfalls and complications. <i>Soil Research</i> , 2012, 50, 397.	1.1	25

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19	Assessing crop residue phosphorus speciation using chemical fractionation and solution $^{31}\text{P}$ nuclear magnetic resonance spectroscopy. <i>Talanta</i> , 2014, 126, 122-129.	5.5	24
20	Wheat leaf properties affecting the absorption and subsequent translocation of foliar-applied phosphoric acid fertiliser. <i>Plant and Soil</i> , 2014, 384, 37-51.	3.7	23
21	The fate of fertiliser P in soil under pasture and uptake by subterranean clover – a field study using $^{33}\text{P}$ -labelled single superphosphate. <i>Plant and Soil</i> , 2016, 401, 23-38.	3.7	23
22	The Timing of Application and Inclusion of a Surfactant Are Important for Absorption and Translocation of Foliar Phosphoric Acid by Wheat Leaves. <i>Frontiers in Plant Science</i> , 2019, 10, 1532.	3.6	23
23	Uptake of phosphorus from surfactant solutions by wheat leaves: spreading kinetics, wetted area, and drying time. <i>Soft Matter</i> , 2016, 12, 209-218.	2.7	22
24	Phosphorus availability in chicken manure is lower with increased stockpiling period, despite a larger orthophosphate content. <i>Plant and Soil</i> , 2013, 373, 359-372.	3.7	21
25	The chemical nature of organic phosphorus that accumulates in fertilized soils of a temperate pasture as determined by solution $^{31}\text{P}$ NMR spectroscopy. <i>Journal of Plant Nutrition and Soil Science</i> , 2017, 180, 27-38.	1.9	19
26	Dry Soil Reduces Fertilizer Phosphorus and Zinc Diffusion but Not Bioavailability. <i>Soil Science Society of America Journal</i> , 2012, 76, 1301-1310.	2.2	18
27	Spectral sensitivity of solution $^{31}\text{P}$ NMR spectroscopy is improved by narrowing the soil to solution ratio to 1:4 for pasture soils of low organic P content. <i>Geoderma</i> , 2015, 257-258, 48-57.	5.1	16
28	Combined nitrogen input from legume residues and fertilizer improves early nitrogen supply and uptake by wheat. <i>Journal of Plant Nutrition and Soil Science</i> , 2020, 183, 355-366.	1.9	16
29	Challenges and opportunities for grain farming on sandy soils of semi-arid south and south-eastern Australia. <i>Soil Research</i> , 2020, 58, 323.	1.1	15
30	The use of a zinc-efficient wheat cultivar as an adaptation to calcareous subsoil: a glasshouse study. <i>Plant and Soil</i> , 2010, 336, 15-24.	3.7	14
31	Phosphorus and nitrogen fertiliser use efficiency of wheat seedlings grown in soils from contrasting tillage systems.. <i>Plant and Soil</i> , 2015, 396, 297-309.	3.7	14
32	Direct recovery of $^{33}\text{P}$ -labelled fertiliser phosphorus in subterranean clover ( <i>Trifolium</i> ) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 227 Td (su Ecosystems and Environment, 2017, 246, 144-156.	5.3	13
33	Management practices that maximise gross margins in Australian canola ( <i>Brassica napus</i> L.). <i>Field Crops Research</i> , 2020, 252, 107803.	5.1	13
34	Exchangeability of orthophosphate and pyrophosphate in soils: a double isotopic labelling study. <i>Plant and Soil</i> , 2009, 314, 243-252.	3.7	11
35	Assessment of foliar-applied phosphorus fertiliser formulations to enhance phosphorus nutrition and grain production in wheat. <i>Crop and Pasture Science</i> , 2020, 71, 795.	1.5	11
36	A stable isotope methodology for measurement of soil-applied zinc fertilizer recovery in durum wheat ( <i>Triticum durum</i> ). <i>Journal of Plant Nutrition and Soil Science</i> , 2013, 176, 756-763.	1.9	9

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37	The decomposition of windrowed, chipped logging slash and tree seedling response: A plant growth and nuclear magnetic resonance spectroscopy study. <i>Organic Geochemistry</i> , 2011, 42, 936-946.	1.8	8
38	Soil phosphorus pools with addition of fertiliser phosphorus in a long-term grazing experiment. <i>Nutrient Cycling in Agroecosystems</i> , 2020, 116, 151-164.	2.2	6
39	Combined application of nitrogen and phosphorus to enhance nitrogen use efficiency and close the wheat yield gap on varying soils in semi-arid conditions. <i>Journal of Agronomy and Crop Science</i> , 2019, 205, 635-646.	3.5	5
40	Agronomic management combining early-sowing on establishment opportunities, cultivar options and adequate nitrogen is critical for canola ( <i>Brassica napus</i> ) productivity and profit in low-rainfall environments. <i>Crop and Pasture Science</i> , 2020, 71, 807.	1.5	5
41	Early growing season immobilisation affects post-tillering wheat nitrogen uptake from crop stubble and 15N fertiliser in a sandy soil. <i>Soil Research</i> , 2021, 59, 239.	1.1	1