

# Matthew D Denton

## List of Publications by Year in descending order

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76  
papers

1,945  
citations

236912

25  
h-index

302107

39  
g-index

79  
all docs

79  
docs citations

79  
times ranked

2304  
citing authors

#	ARTICLE	IF	CITATIONS
1	<i>Banksia</i> species (Proteaceae) from severely phosphorus-impoverished soils exhibit extreme efficiency in the use and re-mobilization of phosphorus. <i>Plant, Cell and Environment</i> , 2007, 30, 1557-1565.	5.7	144
2	Variation in morphological and physiological parameters in herbaceous perennial legumes in response to phosphorus supply. <i>Plant and Soil</i> , 2010, 331, 241-255.	3.7	110
3	Long read reference genome-free reconstruction of a full-length transcriptome from <i>Astragalus membranaceus</i> reveals transcript variants involved in bioactive compound biosynthesis. <i>Cell Discovery</i> , 2017, 3, 17031.	6.7	95
4	Variation in seedling growth of 11 perennial legumes in response to phosphorus supply. <i>Plant and Soil</i> , 2010, 328, 133-143.	3.7	86
5	AusTraits, a curated plant trait database for the Australian flora. <i>Scientific Data</i> , 2021, 8, 254.	5.3	73
6	Do tillage systems influence nitrogen fixation in legumes? A review. <i>Soil and Tillage Research</i> , 2019, 185, 113-121.	5.6	67
7	The preceding root system drives the composition and function of the rhizosphere microbiome. <i>Genome Biology</i> , 2020, 21, 89.	8.8	61
8	Complete genome sequence of <i>Rhizobium leguminosarum</i> bv. <i>trifolii</i> strain WSM2304, an effective microsymbiont of the South American clover <i>Trifolium polymorphum</i> .. <i>Standards in Genomic Sciences</i> , 2010, 2, 66-76.	1.5	60
9	Distribution, abundance and symbiotic effectiveness of <i>Rhizobium leguminosarum</i> bv. <i>trifolii</i> from alkaline pasture soils in South Australia. <i>Australian Journal of Experimental Agriculture</i> , 2000, 40, 25.	1.0	58
10	Complete genome sequence of <i>Rhizobium leguminosarum</i> bv. <i>trifolii</i> strain WSM1325, an effective microsymbiont of annual Mediterranean clovers.. <i>Standards in Genomic Sciences</i> , 2010, 2, 347-356.	1.5	53
11	Legume inoculant application methods: effects on nodulation patterns, nitrogen fixation, crop growth and yield in narrow-leaf lupin and faba bean. <i>Plant and Soil</i> , 2017, 419, 25-39.	3.7	46
12	Root distributions of Australian herbaceous perennial legumes in response to phosphorus placement. <i>Functional Plant Biology</i> , 2006, 33, 1091.	2.1	44
13	Nitrogen supply and sink demand modulate the patterns of leaf senescence in maize. <i>Field Crops Research</i> , 2018, 225, 92-103.	5.1	43
14	Mechanisms in plant growth-promoting rhizobacteria that enhance legume-rhizobial symbioses. <i>Journal of Applied Microbiology</i> , 2020, 129, 1133-1156.	3.1	43
15	Soil mineral nitrogen benefits derived from legumes and comparisons of the apparent recovery of legume or fertiliser nitrogen by wheat. <i>Soil Research</i> , 2017, 55, 600.	1.1	43
16	Evaluation of historic Australian wheat varieties reveals increased grain yield and changes in senescence patterns but limited adaptation to tillage systems. <i>Field Crops Research</i> , 2017, 206, 65-73.	5.1	41
17	Legume-oilseed intercropping in mechanised broadacre agriculture – a review. <i>Field Crops Research</i> , 2021, 260, 107980.	5.1	40
18	Nitrogen contributions from faba bean ( <i>Vicia faba</i> L.) reliant on soil rhizobia or inoculation. <i>Plant and Soil</i> , 2013, 365, 363-374.	3.7	37

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19	Competition between inoculant and naturalised <i>Rhizobium leguminosarum</i> bv. <i>trifolii</i> for nodulation of annual clovers in alkaline soils. <i>Australian Journal of Agricultural Research</i> , 2002, 53, 1019.	1.5	36
20	A multi-site field evaluation of granular inoculants for legume nodulation. <i>Soil Biology and Biochemistry</i> , 2009, 41, 2508-2516.	8.8	36
21	Competitive abilities of common field isolates and a commercial strain of <i>Rhizobium leguminosarum</i> bv. <i>trifolii</i> for clover nodule occupancy. <i>Soil Biology and Biochemistry</i> , 2003, 35, 1039-1048.	8.8	35
22	<i>Trichoderma harzianum</i> Inoculation Reduces the Incidence of Clubroot Disease in Chinese Cabbage by Regulating the Rhizosphere Microbial Community. <i>Microorganisms</i> , 2020, 8, 1325.	3.6	31
23	High soil temperatures alter the rates of nitrification, denitrification and associated N <sub>2</sub> O emissions. <i>Journal of Soils and Sediments</i> , 2019, 19, 2176-2189.	3.0	30
24	Does phenotypic plasticity in carboxylate exudation differ among rare and widespread <i>Banksia</i> species (Proteaceae)? <i>New Phytologist</i> , 2007, 173, 592-599.	7.3	29
25	The cropping systems of the Central Dry Zone of Myanmar: Productivity constraints and possible solutions. <i>Agricultural Systems</i> , 2019, 169, 31-40.	6.1	29
26	A high-quality genome of taro ( <i>Colocasia esculenta</i> (L.) Schott), one of the world's oldest crops. <i>Molecular Ecology Resources</i> , 2021, 21, 68-77.	4.8	28
27	Response of juvenile <i>Melaleuca halmaturorum</i> to flooding: Management implications for a seasonal wetland, Bool Lagoon, South Australia. <i>Marine and Freshwater Research</i> , 1994, 45, 1395.	1.3	26
28	Psychological Factors Influencing Farmers' Intention to Adopt Agroforestry: A Structural Equation Modeling Approach. <i>Journal of Sustainable Forestry</i> , 2020, 39, 854-865.	1.4	25
29	Transgenic alfalfa secretes a fungal endochitinase protein to the rhizosphere. <i>Plant and Soil</i> , 2005, 269, 233-243.	3.7	24
30	The potential for rhizobial inoculation to increase soybean grain yields on acid soils in Ethiopia. <i>Soil Science and Plant Nutrition</i> , 2017, 63, 441-451.	1.9	24
31	Nitrogen fertilization modifies maize yield response to tillage and stubble in a sub-humid tropical environment. <i>Field Crops Research</i> , 2018, 223, 113-124.	5.1	23
32	Strategies to acquire and use phosphorus in phosphorus-impooverished and fire-prone environments. <i>Plant and Soil</i> , 2022, 476, 133-160.	3.7	22
33	Alfalfa monocultures promote soil organic carbon accumulation to a greater extent than perennial grass monocultures or grass-alfalfa mixtures. <i>Ecological Engineering</i> , 2019, 131, 53-62.	3.6	20
34	Agronomic and environmental drivers of population size and symbiotic performance of <i>Rhizobium leguminosarum</i> bv. <i>viciae</i> in Mediterranean-type environments. <i>Crop and Pasture Science</i> , 2012, 63, 467.	1.5	18
35	Large-scale <i>Trichoderma</i> diversity was associated with ecosystem, climate and geographic location. <i>Environmental Microbiology</i> , 2020, 22, 1011-1024.	3.8	17
36	The diversity of arbuscular mycorrhizas of selected Australian Fabaceae. <i>Plant Biosystems</i> , 2008, 142, 420-427.	1.6	16

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37	Forage options to sustainably intensify smallholder farming systems on tropical sandy soils. A review. <i>Agronomy for Sustainable Development</i> , 2019, 39, 1.	5.3	16
38	Soil phosphorus supply affects nodulation and N:P ratio in 11 perennial legume seedlings. <i>Crop and Pasture Science</i> , 2011, 62, 992.	1.5	15
39	Assessing smallholder farmers'™ motivation to adopt agroforestry using a multi-group structural equation modeling approach. <i>Agroforestry Systems</i> , 2020, 94, 2199-2211.	2.0	15
40	Ability to produce indole acetic acid is associated with improved phosphate solubilising activity of rhizobacteria. <i>Archives of Microbiology</i> , 2021, 203, 3825-3837.	2.2	15
41	N <sub>2</sub> O and N <sub>2</sub> emissions from denitrification respond differently to temperature and nitrogen supply. <i>Journal of Soils and Sediments</i> , 2018, 18, 1548-1557.	3.0	14
42	Contrasting water use patterns of two important agroforestry tree species in the Mt Elgon region of Uganda. <i>Australian Forestry</i> , 2019, 82, 57-65.	0.9	14
43	Plant growth-promoting rhizobacteria <i>Burkholderia vietnamiensis</i> B418 inhibits root-knot nematode on watermelon by modifying the rhizosphere microbial community. <i>Scientific Reports</i> , 2022, 12, 8381.	3.3	14
44	Microbial communities along the soil-root continuum are determined by root anatomical boundaries, soil properties, and root exudation. <i>Soil Biology and Biochemistry</i> , 2022, 171, 108721.	8.8	14
45	Impact of seed-applied pesticides on rhizobial survival and legume nodulation. <i>Journal of Applied Microbiology</i> , 2020, 129, 389-399.	3.1	13
46	Dissimilatory nitrate reduction to ammonium increased with rising temperature. <i>Biology and Fertility of Soils</i> , 2021, 57, 363-372.	4.3	13
47	Is phosphate solubilizing ability in plant growth-promoting rhizobacteria isolated from chickpea linked to their ability to produce ACC deaminase?. <i>Journal of Applied Microbiology</i> , 2021, 131, 2416-2432.	3.1	13
48	Root depth development in tropical perennial forage grasses is related to root angle, root diameter and leaf area. <i>Plant and Soil</i> , 2020, 456, 145-158.	3.7	12
49	Quantifying the value of adopting a post-rice legume crop to intensify mixed smallholder farms in Southeast Asia. <i>Agricultural Systems</i> , 2020, 177, 102690.	6.1	11
50	The effect of ploidy number on vigor, productivity, and potential adaptation to climate change in annual <i>Medicago</i> species. <i>Crop Science</i> , 2021, 61, 89-103.	1.8	11
51	Nodulation of <i>Medicago truncatula</i> and <i>Medicago polymorpha</i> in two pastures of contrasting soil pH and rhizobial populations. <i>Applied Soil Ecology</i> , 2007, 35, 441-448.	4.3	10
52	Nitrifying Microbes in the Rhizosphere of Perennial Grasses Are Modified by Biological Nitrification Inhibition. <i>Microorganisms</i> , 2020, 8, 1687.	3.6	10
53	Near-Complete Genomes of Two <i>Trichoderma</i> Species: A Resource for Biological Control of Plant Pathogens. <i>Molecular Plant-Microbe Interactions</i> , 2020, 33, 1036-1039.	2.6	10
54	Insufficient potassium and sulfur supply threaten the productivity of perennial forage grasses in smallholder farms on tropical sandy soils. <i>Plant and Soil</i> , 2021, 461, 617-630.	3.7	9

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55	Large-scale screening of rhizobacteria to enhance the chickpea-Mesorhizobium symbiosis using a plant-based strategy. <i>Rhizosphere</i> , 2021, 18, 100361.	3.0	9
56	Nitrogen fixation in annual <i>Trifolium</i> species in alkaline soils as assessed by the <sup>15</sup> N natural abundance method. <i>Crop and Pasture Science</i> , 2011, 62, 712.	1.5	8
57	A quantitative analysis of root distortion from contrasting wheat cropping systems. <i>Plant and Soil</i> , 2016, 404, 173-192.	3.7	8
58	Rainfall-related opportunities, risks and constraints to rainfed cropping in the Central Dry Zone of Myanmar as defined by soil water balance modelling. <i>Agricultural Systems</i> , 2018, 164, 47-57.	6.1	8
59	Changes in soil-pores and wheat root geometry due to strategic tillage in a no-tillage cropping system. <i>Soil Research</i> , 2021, 59, 83.	1.1	7
60	Soil environment influences plant growth-promotion traits of isolated rhizobacteria. <i>Pedobiologia</i> , 2022, 90, 150785.	1.2	6
61	Strategic Nitrogen Supply Alters Canopy Development and Improves Nitrogen Use Efficiency in Dryland Wheat. <i>Agronomy Journal</i> , 2017, 109, 1072-1081.	1.8	5
62	Canopy development and grain yield of dryland wheat is modified by strategic nitrogen supply and stubble management. <i>European Journal of Agronomy</i> , 2018, 99, 195-205.	4.1	5
63	Symbiotic effectiveness, ecological adaptation and phylogenetic diversity of chickpea rhizobia isolated from a large-scale Australian soil collection. <i>Plant and Soil</i> , 2021, 469, 49-71.	3.7	5
64	Patterns of foliar and soil nitrogen isotope composition of <i>Caragana microphylla</i> , a leguminous shrub species in the semi-arid regions of northern China. <i>Biogeochemistry</i> , 2019, 146, 257-269.	3.5	4
65	No evidence of regulation in root-mediated iron reduction in two Strategy I cluster-rooted <i>Banksia</i> species (Proteaceae). <i>Plant and Soil</i> , 2021, 461, 203-218.	3.7	4
66	Farmers' Knowledge and Perceptions of Management and the Impact of Trees on-Farm in the Mt. Elgon Region of Uganda. <i>Small-Scale Forestry</i> , 2022, 21, 71-92.	1.7	4
67	Microbiomes across root compartments are shaped by inoculation with a fungal biological control agent. <i>Applied Soil Ecology</i> , 2022, 170, 104230.	4.3	4
68	Soil surface pressure reduces post-emergent shoot growth in wheat. <i>Plant and Soil</i> , 2017, 413, 127-144.	3.7	3
69	Nitrogen enrichment intensifies legume reliance on root phosphatase activity but weakens inter-specific correlations between N <sub>2</sub> fixation and mycorrhizal colonization. <i>Plant and Soil</i> , 2021, 465, 503-514.	3.7	3
70	Long-Term Monocultures of American Ginseng Change the Rhizosphere Microbiome by Reducing Phenolic Acids in Soil. <i>Agriculture (Switzerland)</i> , 2022, 12, 640.	3.1	3
71	A novel framework for identifying the interactions between biophysical and social components of an agricultural system: a guide for improving wheat production in Haryana, NW India. <i>Journal of Agricultural Education and Extension</i> , 2018, 24, 263-284.	2.2	2
72	Soil metabolomics reveal complex interactions between <i>Arthrobacter ureafaciens</i> and <i>Trichoderma harzianum</i> when co-inoculated on wheat. <i>Pedobiologia</i> , 2021, 85-86, 150723.	1.2	2

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73	Rhizobial diversity is associated with inoculation history at a two-continent scale. <i>FEMS Microbiology Ecology</i> , 2022, 98, .	2.7	2
74	Managing Sands of the Lower Mekong Basin to Limit Land Degradation: A Review of Properties and Limitations for Crop and Forage Production. <i>Soil Systems</i> , 2022, 6, 58.	2.6	2
75	Plant Nitrogen and Phosphorus Resorption in Response to Varied Legume Proportions in a Restored Grassland. <i>Plants</i> , 2020, 9, 292.	3.5	1
76	Genotypic and seasonal variation in root depth development during establishment of C4 perennial grass ecotypes. <i>Crop and Pasture Science</i> , 2021, 72, 913.	1.5	0