Matthew D Denton

List of Publications by Year
in descending order

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	Farmersâ€™ Knowledge and Perceptions of Management and the Impact of Trees on-Farm in the Mt. Elgon Region of Uganda. Small-Scale Forestry, 2022, 21, 71-92.	1.7	4
2	Microbiomes across root compartments are shaped by inoculation with a fungal biological control agent. Applied Soil Ecology, 2022, 170, 104230.	4.3	4
3	Soil environment influences plant growth-promotion traits of isolated rhizobacteria. Pedobiologia, 2022, 90, 150785.	1.2	6
4	Rhizobial diversity is associated with inoculation history at a two-continent scale. FEMS Microbiology Ecology, 2022, 98, .	2.7	2
5	Long-Term Monocultures of American Ginseng Change the Rhizosphere Microbiome by Reducing Phenolic Acids in Soil. Agriculture (Switzerland), 2022, 12, 640.	3.1	3
6	Plant growth-promoting rhizobacteria Burkholderia vietnamiensis B418 inhibits root-knot nematode on watermelon by modifying the rhizosphere microbial community. Scientific Reports, 2022, 12, 8381.	3.3	14
7	Strategies to acquire and use phosphorus in phosphorus-impoverished and fire-prone environments. Plant and Soil, 2022, 476, 133-160.	3.7	22
8	Microbial communities along the soil-root continuum are determined by root anatomical boundaries, soil properties, and root exudation. Soil Biology and Biochemistry, 2022, 171, 108721.	8.8	14
9	Managing Sands of the Lower Mekong Basin to Limit Land Degradation: A Review of Properties and Limitations for Crop and Forage Production. Soil Systems, 2022, 6, 58.	2.6	2
10	A highâ€quality genome of taro (Colocasia esculenta (L.) Schott), one of the world's oldest crops. Molecular Ecology Resources, 2021, 21, 68-77.	4.8	28
11	The effect of ploidy number on vigor, productivity, and potential adaptation to climate change in annual Medicago species. Crop Science, 2021, 61, 89-103.	1.8	11
12	Legume-oilseed intercropping in mechanised broadacre agriculture â€“ a review. Field Crops Research, 2021, 260, 107980.	5.1	40
13	Changes in soil-pores and wheat root geometry due to strategic tillage in a no-tillage cropping system. Soil Research, 2021, 59, 83.	1.1	7
14	No evidence of regulation in root-mediated iron reduction in two Strategy I cluster-rooted Banksia species (Proteaceae). Plant and Soil, 2021, 461, 203-218.	3.7	4
15	Dissimilatory nitrate reduction to ammonium increased with rising temperature. Biology and Fertility of Soils, 2021, 57, 363-372.	4.3	13
16	Insufficient potassium and sulfur supply threaten the productivity of perennial forage grasses in smallholder farms on tropical sandy soils. Plant and Soil, 2021, 461, 617-630.	3.7	9
17	Soil metabolomics reveal complex interactions between Arthrobacter ureafaciens and Trichoderma harzianum when co-inoculated on wheat. Pedobiologia, 2021, 85-86, 150723.	1.2	2
18	Is phosphate solubilizing ability in plant growthâ€promoting rhizobacteria isolated from chickpea linked to their ability to produce ACC deaminase?. Journal of Applied Microbiology, 2021, 131, 2416-2432.	3.1	13

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19	Ability to produce indole acetic acid is associated with improved phosphate solubilising activity of rhizobacteria. Archives of Microbiology, 2021, 203, 3825-3837.	2.2	15
20	Large-scale screening of rhizobacteria to enhance the chickpea-Mesorhizobium symbiosis using a plant-based strategy. Rhizosphere, 2021, 18, 100361.	3.0	9
21	Nitrogen enrichment intensifies legume reliance on root phosphatase activity but weakens inter-specific correlations between N2 fixation and mycorrhizal colonization. Plant and Soil, 2021, 465, 503-514.	3.7	3
22	Symbiotic effectiveness, ecological adaptation and phylogenetic diversity of chickpea rhizobia isolated from a large-scale Australian soil collection. Plant and Soil, 2021, 469, 49-71.	3.7	5
23	AusTraits, a curated plant trait database for the Australian flora. Scientific Data, 2021, 8, 254.	5.3	73
24	Genotypic and seasonal variation in root depth development during establishment of C4 perennial grass ecotypes. Crop and Pasture Science, 2021, 72, 913.	1.5	0
25	Quantifying the value of adopting a post-rice legume crop to intensify mixed smallholder farms in Southeast Asia. Agricultural Systems, 2020, 177, 102690.	6.1	11
26	Largeâ€scale Trichoderma diversity was associated with ecosystem, climate and geographic location. Environmental Microbiology, 2020, 22, 1011-1024.	3.8	17
27	Assessing smallholder farmersâ€™ motivation to adopt agroforestry using a multi-group structural equation modeling approach. Agroforestry Systems, 2020, 94, 2199-2211.	2.0	15
28	Trichoderma harzianum Inoculation Reduces the Incidence of Clubroot Disease in Chinese Cabbage by Regulating the Rhizosphere Microbial Community. Microorganisms, 2020, 8, 1325.	3.6	31
29	Root depth development in tropical perennial forage grasses is related to root angle, root diameter and leaf area. Plant and Soil, 2020, 456, 145-158.	3.7	12
30	Nitrifying Microbes in the Rhizosphere of Perennial Grasses Are Modified by Biological Nitrification Inhibition. Microorganisms, 2020, 8, 1687.	3.6	10
31	Psychological Factors Influencing Farmersâ€™ Intention to Adopt Agroforestry: A Structural Equation Modeling Approach. Journal of Sustainable Forestry, 2020, 39, 854-865.	1.4	25
32	Plant Nitrogen and Phosphorus Resorption in Response to Varied Legume Proportions in a Restored Grassland. Plants, 2020, 9, 292.	3.5	1
33	Mechanisms in plant growthâ€promoting rhizobacteria that enhance legumeâ€“rhizobial symbioses. Journal of Applied Microbiology, 2020, 129, 1133-1156.	3.1	43
34	Impact of seedâ€applied pesticides on rhizobial survival and legume nodulation. Journal of Applied Microbiology, 2020, 129, 389-399.	3.1	13
35	Near-Complete Genomes of Two Trichoderma Species: A Resource for Biological Control of Plant Pathogens. Molecular Plant-Microbe Interactions, 2020, 33, 1036-1039.	2.6	10
36	The preceding root system drives the composition and function of the rhizosphere microbiome. Genome Biology, 2020, 21, 89.	8.8	61

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37	Contrasting water use patterns of two important agroforestry tree species in the Mt Elgon region of Uganda. Australian Forestry, 2019, 82, 57-65.	0.9	14
38	Forage options to sustainably intensify smallholder farming systems on tropical sandy soils. A review. Agronomy for Sustainable Development, 2019, 39, 1.	5.3	16
39	Alfalfa monocultures promote soil organic carbon accumulation to a greater extent than perennial grass monocultures or grass-alfalfa mixtures. Ecological Engineering, 2019, 131, 53-62.	3.6	20
40	Patterns of foliar and soil nitrogen isotope composition of Caragana microphylla, a leguminous shrub species in the semi-arid regions of northern China. Biogeochemistry, 2019, 146, 257-269.	3.5	4
41	Do tillage systems influence nitrogen fixation in legumes? A review. Soil and Tillage Research, 2019, 185, 113-121.	5.6	67
42	High soil temperatures alter the rates of nitrification, denitrification and associated N2O emissions. Journal of Soils and Sediments, 2019, 19, 2176-2189.	3.0	30
43	The cropping systems of the Central Dry Zone of Myanmar: Productivity constraints and possible solutions. Agricultural Systems, 2019, 169, 31-40.	6.1	29
44	Nitrogen fertilization modifies maize yield response to tillage and stubble in a sub-humid tropical environment. Field Crops Research, 2018, 223, 113-124.	5.1	23
45	N2O and N2 emissions from denitrification respond differently to temperature and nitrogen supply. Journal of Soils and Sediments, 2018, 18, 1548-1557.	3.0	14
46	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. Journal of Agricultural Education and Extension, 2018, 24, 263-284.	2.2	2
47	Rainfall-related opportunities, risks and constraints to rainfed cropping in the Central Dry Zone of Myanmar as defined by soil water balance modelling. Agricultural Systems, 2018, 164, 47-57.	6.1	8
48	Nitrogen supply and sink demand modulate the patterns of leaf senescence in maize. Field Crops Research, 2018, 225, 92-103.	5.1	43
49	Canopy development and grain yield of dryland wheat is modified by strategic nitrogen supply and stubble management. European Journal of Agronomy, 2018, 99, 195-205.	4.1	5
50	Evaluation of historic Australian wheat varieties reveals increased grain yield and changes in senescence patterns but limited adaptation to tillage systems. Field Crops Research, 2017, 206, 65-73.	5.1	41
51	The potential for rhizobial inoculation to increase soybean grain yields on acid soils in Ethiopia. Soil Science and Plant Nutrition, 2017, 63, 441-451.	1.9	24
52	Long read reference genome-free reconstruction of a full-length transcriptome from Astragalus membranaceus reveals transcript variants involved in bioactive compound biosynthesis. Cell Discovery, 2017, 3, 17031.	6.7	95
53	Legume inoculant application methods: effects on nodulation patterns, nitrogen fixation, crop growth and yield in narrow-leaf lupin and faba bean. Plant and Soil, 2017, 419, 25-39.	3.7	46
54	Soil surface pressure reduces post-emergent shoot growth in wheat. Plant and Soil, 2017, 413, 127-144.	3.7	3

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55	Strategic Nitrogen Supply Alters Canopy Development and Improves Nitrogen Use Efficiency in Dryland Wheat. Agronomy Journal, 2017, 109, 1072-1081.	1.8	5
56	Soil mineral nitrogen benefits derived from legumes and comparisons of the apparent recovery of legume or fertiliser nitrogen by wheat. Soil Research, 2017, 55, 600.	1.1	43
57	A quantitative analysis of root distortion from contrasting wheat cropping systems. Plant and Soil, 2016, 404, 173-192.	3.7	8
58	Nitrogen contributions from faba bean (Vicia faba L.) reliant on soil rhizobia or inoculation. Plant and Soil, 2013, 365, 363-374.	3.7	37
59	Agronomic and environmental drivers of population size and symbiotic performance of Rhizobium leguminosarum bv. viciae in Mediterranean-type environments. Crop and Pasture Science, 2012, 63, 467.	1.5	18
60	Nitrogen fixation in annual Trifolium species in alkaline soils as assessed by the 15N natural abundance method. Crop and Pasture Science, 2011, 62, 712.	1.5	8
61	Soil phosphorus supply affects nodulation and N:P ratio in 11 perennial legume seedlings. Crop and Pasture Science, 2011, 62, 992.	1.5	15
62	Complete genome sequence of Rhizobium leguminosarum bv trifolii strain WSM2304, an effective microsymbiont of the South American clover Trifolium polymorphum.. Standards in Genomic Sciences, 2010, 2, 66-76.	1.5	60
63	Variation in seedling growth of 11 perennial legumes in response to phosphorus supply. Plant and Soil, 2010, 328, 133-143.	3.7	86
64	Variation in morphological and physiological parameters in herbaceous perennial legumes in response to phosphorus supply. Plant and Soil, 2010, 331, 241-255.	3.7	110
65	Complete genome sequence of Rhizobium leguminosarum bv. trifolii strain WSM1325, an effective microsymbiont of annual Mediterranean clovers.. Standards in Genomic Sciences, 2010, 2, 347-356.	1.5	53
66	A multi-site field evaluation of granular inoculants for legume nodulation. Soil Biology and Biochemistry, 2009, 41, 2508-2516.	8.8	36
67	The diversity of arbuscular mycorrhizas of selected AustralianFabaceae. Plant Biosystems, 2008, 142, 420-427.	1.6	16
68	Nodulation of Medicago truncatula and Medicago polymorpha in two pastures of contrasting soil pH and rhizobial populations. Applied Soil Ecology, 2007, 35, 441-448.	4.3	10
69	Banksia species (Proteaceae) from severely phosphorusâ€impoverished soils exhibit extreme efficiency in the use and reâ€mobilization of phosphorus. Plant, Cell and Environment, 2007, 30, 1557-1565.	5.7	144
70	Does phenotypic plasticity in carboxylate exudation differ among rare and widespread Banksia species (Proteaceae)?. New Phytologist, 2007, 173, 592-599.	7.3	29
71	Root distributions of Australian herbaceous perennial legumes in response to phosphorus placement. Functional Plant Biology, 2006, 33, 1091.	2.1	44
72	Transgenic alfalfa secretes a fungal endochitinase protein to the rhizosphere. Plant and Soil, 2005, 269, 233-243.	3.7	24

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73	Competitive abilities of common field isolates and a commercial strain of Rhizobium leguminosarum bv. trifolii for clover nodule occupancy. Soil Biology and Biochemistry, 2003, 35, 1039-1048.	8.8	35
74	Competition between inoculant and naturalised Rhizobium leguminosarum bv. trifolii for nodulation of annual clovers in alkaline soils. Australian Journal of Agricultural Research, 2002, 53, 1019.	1.5	36
75	Distribution, abundance and symbiotic effectiveness of Rhizobium leguminosarum bv. trifolii from alkaline pasture soils in South Australia. Australian Journal of Experimental Agriculture, 2000, 40, 25.	1.0	58
76	Response of juvenile Melaleuca halmaturorum to flooding: Management implications for a seasonal wetland, Bool Lagoon, South Australia. Marine and Freshwater Research, 1994, 45, 1395.	1.3	26