Gupta Vadakattu

List of Publications by Year
in descending order

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62	2,315	230014	252626
papers	citations	27	46
		h-index	g-index

65	65	65	3776
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Contrasting soil microbial abundance and diversity on and between pasture drill rows in the third growing season after sowing. Renewable Agriculture and Food Systems, 2021, 36, 163-172.	0.8	5
2	Early growing season immobilisation affects post-tillering wheat nitrogen uptake from crop stubble and 15N fertiliser in a sandy soil. Soil Research, 2021, 59, 239.	0.6	1
3	Potential for suppression of Rhizoctonia root rot is influenced by nutrient (N and P) and carbon inputs in a highly calcareous coarse-textured topsoil. Soil Research, 2021, 59, 329.	0.6	4
4	Root Microbiome Structure and Microbial Succession in the Rhizosphere. Rhizosphere Biology, 2021, , 109-128.	0.4	8
5	Combined nitrogen input from legume residues and fertilizer improves early nitrogen supply and uptake by wheat. Journal of Plant Nutrition and Soil Science, 2020, 183, 355-366.	1.1	16
6	Biogeography and emerging significance of Actinobacteria in Australia and Northern Antarctica soils. Soil Biology and Biochemistry, 2020, 146, 107805.	4.2	54
7	The preceding root system drives the composition and function of the rhizosphere microbiome. Genome Biology, 2020, 21, 89.	3.8	61
8	Challenges and opportunities for grain farming on sandy soils of semi-arid south and south-eastern Australia. Soil Research, 2020, 58, 323.	0.6	15
9	A Comparative Study of Field Nematode Communities over a Decade of Cotton Production in Australia. Agronomy, 2020, 10, 123.	1.3	1
10	Combined application of nitrogen and phosphorus to enhance nitrogen use efficiency and close the wheat yield gap on varying soils in semiâ€arid conditions. Journal of Agronomy and Crop Science, 2019, 205, 635-646.	1.7	5
11	Vineyard Soil Microbiome Composition Related to Rotundone Concentration in Australian Cool Climate â€˜Pepperyâ€™ Shiraz Grapes. Frontiers in Microbiology, 2019, 10, 1607.	1.5	40
12	Diazotroph Diversity and Nitrogen Fixation in Summer Active Perennial Grasses in a Mediterranean Region Agricultural Soil. Frontiers in Molecular Biosciences, 2019, 6, 115.	1.6	34
13	Evaluation of ACC-deaminase-producing rhizobacteria to alleviate water-stress impacts in wheat (Triticum aestivumL.) plants. Canadian Journal of Microbiology, 2019, 65, 387-403.	0.8	86
14	Technologies for the Selection, Culture and Metabolic Profiling of Unique Rhizosphere Microorganisms for Natural Product Discovery. Molecules, 2019, 24, 1955.	1.7	14
15	Organic matter input influences incidence of root rot caused by Rhizoctonia solani AG8 and microorganisms associated with plant root disease suppression in three Australian agricultural soils. Soil Research, 2019, 57, 321.	0.6	3
16	Field performance of bacterial inoculants to alleviate water stress effects in wheat (Triticum) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 142 T	1.8	38
17	Drying and rewetting effects on organic matter mineralisation of contrasting soils after 36â€˜years of storage. Geoderma, 2019, 342, 12-19.	2.3	24
18	Diversity of Sulfur-Oxidizing and Sulfur-Reducing Microbes in Diverse Ecosystems. Microorganisms for Sustainability, 2018, , 65-89.	0.4	13

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19	Continuous application of inorganic and organic fertilizers over 47 years in paddy soil alters the bacterial community structure and its influence on rice production. Agriculture, Ecosystems and Environment, 2018, 262, 65-75.	2.5	120
20	Comparative Metatranscriptomics of Wheat Rhizosphere Microbiomes in Disease Suppressive and Non-suppressive Soils for Rhizoctonia solani AG8. Frontiers in Microbiology, 2018, 9, 859.	1.5	66
21	Effects of pH and ionic strength on elemental sulphur oxidation in soil. Biology and Fertility of Soils, 2017, 53, 247-256.	2.3	15
22	Sulfur and Zinc Availability from Co-granulated Zn-Enriched Elemental Sulfur Fertilizers. Journal of Agricultural and Food Chemistry, 2017, 65, 1108-1115.	2.4	23
23	Abundance and diversity of sulphur-oxidising bacteria and their role in oxidising elemental sulphur in cropping soils. Biology and Fertility of Soils, 2017, 53, 159-169.	2.3	26
24	Temperature dependency of virus and nanoparticle transport and retention in saturated porous media. Journal of Contaminant Hydrology, 2017, 196, 10-20.	1.6	38
25	Mitigation of carbon using Atriplex nummularia revegetation. Ecological Engineering, 2017, 106, 253-262.	1.6	7
26	Low Effective Surface Area Explains Slow Oxidation of Coâ€Granulated Elemental Sulfur. Soil Science Society of America Journal, 2016, 80, 911-918.	1.2	7
27	Size Matters: Assessing Optimum Soil Sample Size for Fungal and Bacterial Community Structure Analyses Using High Throughput Sequencing of rRNA Gene Amplicons. Frontiers in Microbiology, 2016, 7, 824.	1.5	58
28	Introducing BASE: the Biomes of Australian Soil Environments soil microbial diversity database. GigaScience, 2016, 5, 21.	3.3	204
29	Organisms with potential to assist in the control of Helicoverpa armigera in Australian cotton production systems. Crop and Pasture Science, 2016, 67, 1288.	0.7	1
30	The response of fine root endophyte (Glomus tenue) to waterlogging is dependent on host plant species and soil type. Plant and Soil, 2016, 403, 305-315.	1.8	30
31	Quantifying the Sensitivity of Soil Microbial Communities to Silver Sulfide Nanoparticles Using Metagenome Sequencing. PLoS ONE, 2016, 11, e0161979.	1.1	41
32	Elemental Sulfur Oxidation in Australian Cropping Soils. Soil Science Society of America Journal, 2015, 79, 89-96.	1.2	46
33	Long-term cropping system studies support intensive and responsive cropping systems in the low-rainfall Australian Mallee. Crop and Pasture Science, 2015, 66, 553.	0.7	20
34	Break-crop effects on wheat production across soils and seasons in a semi-arid environment. Crop and Pasture Science, 2015, 66, 566.	0.7	27
35	Soil aggregation: Influence on microbial biomass and implications for biological processes. Soil Biology and Biochemistry, 2015, 80, A3-A9.	4.2	213
36	Field evaluation of the effects of cotton variety and GM status on rhizosphere microbial diversity and function in Australian soils. Soil Research, 2014, 52, 203.	0.6	19

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37	Nitrogen cycling in summer active perennial grass systems in South Australia: non-symbiotic nitrogen fixation. Crop and Pasture Science, 2014, 65, 1044.	0.7	54
38	Biodegradation of Simazine and Diuron Herbicides under Aerobic and Anoxic Conditions Relevant to Managed Aquifer Recharge of Storm Water. Clean - Soil, Air, Water, 2014, 42, 745-752.	0.7	25
39	Rhizosphere microbial communities associated with Rhizoctonia damage at the field and disease patch scale. Applied Soil Ecology, 2014, 78, 37-47.	2.1	42
40	Effects of banded ammonia and urea fertiliser on soil properties and the growth and yield of wheat. Crop and Pasture Science, 2014, 65, 337.	0.7	33
41	Enhancing soil biophysical condition for climate-resilient restoration in mesic woodlands. Ecological Engineering, 2014, 71, 246-255.	1.6	39
42	Towards climate-resilient restoration in mesic eucalypt woodlands: characterizing topsoil biophysical condition in different degradation states. Plant and Soil, 2014, 383, 231-244.	1.8	12
43	Fungal Community Structure in Disease Suppressive Soils Assessed by 28S LSU Gene Sequencing. PLoS ONE, 2014, 9, e93893.	1.1	140
44	Evaluating the contribution of take-all control to the break-crop effect in wheat. Crop and Pasture Science, 2013, 64, 563.	0.7	12
45	Capitalizing on deliberate, accidental, and GM-driven environmental change caused by crop modification. Journal of Experimental Botany, 2012, 63, 543-549.	2.4	4
46	Soil ecology and agroecosystem studies. Advances in Agroecology, 2012, , 1-21.	0.3	1
47	Principles and Management of Soil Biological Factors for Sustainable Rainfed Farming Systems. , 2011, , 149-184.		20
48	Tillage practices altered labile soil organic carbon and microbial function without affecting crop yields. Soil Research, 2010, 48, 274.	0.6	40
49	Protection of free-living nitrogen-fixing bacteria within the soil matrix. Soil and Tillage Research, 2010, 109, 50-54.	2.6	23
50	Regional and local factors affecting diversity, abundance and activity of free-living, N2-fixing bacteria in Australian agricultural soils. Pedobiologia, 2010, 53, 391-399.	0.5	58
51	Evaluating the Economic and Social Impact of Soil Microbes. , 2010, , 399-417.		6
52	Genetically modified cotton has no effect on arbuscular mycorrhizal colonisation of roots. Field Crops Research, 2008, 109, 57-60.	2.3	40
53	The living soil ? an agricultural perspective. Microbiology Australia, 2007, 28, 104.	0.1	2
54	Herbicide use, productivity, and nitrogen fixation in field pea (Pisum sativum). Australian Journal of Agricultural Research, 2007, 58, 1204.	1.5	17

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55	The effect of Penicillium fungi on plant growth and phosphorus mobilization in neutral to alkaline soils from southern Australia. Canadian Journal of Microbiology, 2007, 53, 106-115.	0.8	69
56	Constitutive expression of Cry proteins in roots and border cells of transgenic cotton. Euphytica, 2007, 154, 83-90.	0.6	40
57	Protists in soil ecology and forest nutrient cycling. Canadian Journal of Forest Research, 2006, 36, 1805-1817.	0.8	132
58	Observation ofTylenchorhynchus ewingiin association with cotton soils in Australia. Australasian Plant Disease Notes, 2006, 1, 47.	0.4	8
59	Herbicides and their effects on pulses in Southern Australia. Outlooks on Pest Management, 2006, 17, 166-167.	0.1	1
60	Potential for non-symbiotic N2-fixation in different agroecological zones of southern Australia. Soil Research, 2006, 44, 343.	0.6	55
61	Environmental impact of conventional and Bt insecticidal cotton expressing one and two Cry genes in Australia. Australian Journal of Agricultural Research, 2006, 57, 501.	1.5	44
62	Enumeration of wax-degrading microorganisms in water repellent soils using a miniaturised Most-Probable-Number method. Soil Research, 2005, 43, 171.	0.6	8