Gupta Vadakattu

List of Publications by Year in Descending Order

61 papers	1,547 citations	24 h-index	38 g-index
64 ext. papers	2,023 ext. citations	3.7 avg, IF	4.9 L-index

#	Paper	IF	Citations
61	Root Microbiome Structure and Microbial Succession in the Rhizosphere. *Rhizosphere Biology*, **2021**, 109-138	3.8	1
60	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	1.8	1
59	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	1.8	0
58	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	1.8	1
57	A Comparative Study of Field Nematode Communities over a Decade of Cotton Production in Australia. *Agronomy*, **2020**, 10, 123	3.6	1
56	Challenges and opportunities for grain farming on sandy soils of semi-arid south and south-eastern Australia. *Soil Research*, **2020**, 58, 323	1.8	4
55	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	2.3	4
54	Biogeography and emerging significance of Actinobacteria in Australia and Northern Antarctica soils. *Soil Biology and Biochemistry*, **2020**, 146, 107805	7.5	16
53	The preceding root system drives the composition and function of the rhizosphere microbiome. *Genome Biology*, **2020**, 21, 89	18.3	27
52	Evaluation of ACC-deaminase-producing rhizobacteria to alleviate water-stress impacts in wheat (L.) plants. *Canadian Journal of Microbiology*, **2019**, 65, 387-403	3.2	55
51	Technologies for the Selection, Culture and Metabolic Profiling of Unique Rhizosphere Microorganisms for Natural Product Discovery. *Molecules*, **2019**, 24,	4.8	8
50	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	1.8	2
49	Field performance of bacterial inoculants to alleviate water stress effects in wheat (Triticum aestivum L.). *Plant and Soil*, **2019**, 441, 261-281	4.2	25
48	Combined application of nitrogen and phosphorus to enhance nitrogen use efficiency and close the wheat yield gap on varying soils in semi-arid conditions. *Journal of Agronomy and Crop Science*, **2019** , 205, 635-646	3.9	3
47	Vineyard Soil Microbiome Composition Related to Rotundone Concentration in Australian Cool Climate \Pepper\Shiraz Grapes. *Frontiers in Microbiology*, **2019**, 10, 1607	5.7	19
46	Diazotroph Diversity and Nitrogen Fixation in Summer Active Perennial Grasses in a Mediterranean Region Agricultural Soil. *Frontiers in Molecular Biosciences*, **2019**, 6, 115	5.6	17
45	Drying and rewetting effects on organic matter mineralisation of contrasting soils after 36 years of storage. *Geoderma*, **2019**, 342, 12-19	6.7	16

44	Diversity of Sulfur-Oxidizing and Sulfur-Reducing Microbes in Diverse Ecosystems. *Microorganisms for Sustainability*, **2018**, 65-89	1.1	6
43	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	5.7	62
42	Comparative Metatranscriptomics of Wheat Rhizosphere Microbiomes in Disease Suppressive and Non-suppressive Soils for AG8. *Frontiers in Microbiology*, **2018**, 9, 859	5.7	47
41	Effects of pH and ionic strength on elemental sulphur oxidation in soil. *Biology and Fertility of Soils*, **2017**, 53, 247-256	6.1	9
40	Sulfur and Zinc Availability from Co-granulated Zn-Enriched Elemental Sulfur Fertilizers. *Journal of Agricultural and Food Chemistry*, **2017**, 65, 1108-1115	5.7	13
39	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	6.1	19
38	Temperature dependency of virus and nanoparticle transport and retention in saturated porous media. *Journal of Contaminant Hydrology*, **2017**, 196, 10-20	3.9	29
37	Mitigation of carbon using Atriplex nummularia revegetation. *Ecological Engineering*, **2017**, 106, 253-262	3.9	6
36	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	4.2	21
35	Quantifying the Sensitivity of Soil Microbial Communities to Silver Sulfide Nanoparticles Using Metagenome Sequencing. *PLoS ONE*, **2016**, 11, e0161979	3.7	35
34	Low Effective Surface Area Explains Slow Oxidation of Co-Granulated Elemental Sulfur. *Soil Science Society of America Journal*, **2016**, 80, 911-918	2.5	2
33	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	5.7	42
32	Introducing BASE: the Biomes of Australian Soil Environments soil microbial diversity database. *GigaScience*, **2016**, 5, 21	7.6	131
31	Organisms with potential to assist in the control of Helicoverpa armigera in Australian cotton production systems. *Crop and Pasture Science*, **2016**, 67, 1288	2.2	
30	Soil aggregation: Influence on microbial biomass and implications for biological processes. *Soil Biology and Biochemistry*, **2015**, 80, A3-A9	7.5	129
29	Elemental Sulfur Oxidation in Australian Cropping Soils. *Soil Science Society of America Journal*, **2015**, 79, 89-96	2.5	31
28	Long-term cropping system studies support intensive and responsive cropping systems in the low-rainfall Australian Mallee. *Crop and Pasture Science*, **2015**, 66, 553	2.2	17
27	Break-crop effects on wheat production across soils and seasons in a semi-arid environment. *Crop and Pasture Science*, **2015**, 66, 566	2.2	20

26	Rhizosphere microbial communities associated with Rhizoctonia damage at the field and disease patch scale. *Applied Soil Ecology*, **2014**, 78, 37-47	5	26
25	Effects of banded ammonia and urea fertiliser on soil properties and the growth and yield of wheat. *Crop and Pasture Science*, **2014**, 65, 337	2.2	27
24	Enhancing soil biophysical condition for climate-resilient restoration in mesic woodlands. *Ecological Engineering*, **2014**, 71, 246-255	3.9	35
23	Towards climate-resilient restoration in mesic eucalypt woodlands: characterizing topsoil biophysical condition in different degradation states. *Plant and Soil*, **2014**, 383, 231-244	4.2	10
22	Fungal community structure in disease suppressive soils assessed by 28S LSU gene sequencing. *PLoS ONE*, **2014**, 9, e93893	3.7	90
21	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	1.8	18
20	Nitrogen cycling in summer active perennial grass systems in South Australia: non-symbiotic nitrogen fixation. *Crop and Pasture Science*, **2014**, 65, 1044	2.2	37
19	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	1.6	22
18	Evaluating the contribution of take-all control to the break-crop effect in wheat. *Crop and Pasture Science*, **2013**, 64, 563	2.2	12
17	Capitalizing on deliberate, accidental, and GM-driven environmental change caused by crop modification. *Journal of Experimental Botany*, **2012**, 63, 543-9	7	4
16	Soil ecology and agroecosystem studies. *Advances in Agroecology*, **2012**, 1-21		1
15	Principles and Management of Soil Biological Factors for Sustainable Rainfed Farming Systems **2011**, 149-184		14
14	Regional and local factors affecting diversity, abundance and activity of free-living, N2-fixing bacteria in Australian agricultural soils. *Pedobiologia*, **2010**, 53, 391-399	1.7	39
13	Tillage practices altered labile soil organic carbon and microbial function without affecting crop yields. *Soil Research*, **2010**, 48, 274	1.8	29
12	Protection of free-living nitrogen-fixing bacteria within the soil matrix. *Soil and Tillage Research*, **2010**, 109, 50-54	6.5	18
11	Evaluating the Economic and Social Impact of Soil Microbes **2010**, 399-417		4
10	Genetically modified cotton has no effect on arbuscular mycorrhizal colonisation of roots. *Field Crops Research*, **2008**, 109, 57-60	5.5	35
9	Constitutive expression of Cry proteins in roots and border cells of transgenic cotton. *Euphytica*, **2007**, 154, 83-90	2.1	37

8	The living soil ? an agricultural perspective. *Microbiology Australia*, **2007**, 28, 104	0.8	2
7	Herbicide use, productivity, and nitrogen fixation in field pea (Pisum sativum). *Australian Journal of Agricultural Research*, **2007**, 58, 1204		14
6	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, 106-15	3.2	54
5	Environmental impact of conventional and Bt insecticidal cotton expressing one and two Cry genes in Australia. *Australian Journal of Agricultural Research*, **2006**, 57, 501		40
4	Protists in soil ecology and forest nutrient cycling. *Canadian Journal of Forest Research*, **2006**, 36, 1805-18	1.7	98
3	Observation of Tylenchorhynchus ewingi in association with cotton soils in Australia. *Australasian Plant Disease Notes*, **2006**, 1, 47	0.8	7
2	Potential for non-symbiotic N2-fixation in different agroecological zones of southern Australia. *Soil Research*, **2006**, 44, 343	1.8	44
1	Enumeration of wax-degrading microorganisms in water repellent soils using a miniaturised Most-Probable-Number method. *Soil Research*, **2005**, 43, 171	1.8	6