M Sudhakara Reddy

List of Publications by Year
in descending order

132	5,262	94269 37	98622 67
papers	citations	h-index	g-index

133	133	133	4413
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Biomineralization of calcium carbonates and their engineered applications: a review. Frontiers in Microbiology, 2013, 4, 314.	1.5	446
2	Biogenic treatment improves the durability and remediates the cracks of concrete structures. Construction and Building Materials, 2013, 48, 1-5.	3.2	274
3	Strain improvement of Sporosarcina pasteurii for enhanced urease and calcite production. Journal of Industrial Microbiology and Biotechnology, 2009, 36, 981-988.	1.4	265
4	Microbial Concrete: Way to Enhance the Durability of Building Structures. Journal of Materials in Civil Engineering, 2011, 23, 730-734.	1.3	254
5	Biomineralization of Calcium Carbonate Polymorphs by the Bacterial Strains Isolated from Calcareous Sites. Journal of Microbiology and Biotechnology, 2013, 23, 707-714.	0.9	182
6	Biosolubilization of poorly soluble rock phosphates by Aspergillus tubingensis and Aspergillus niger. Bioresource Technology, 2002, 84, 187-189.	4.8	152
7	Effect of inoculation with phosphate solubilizing fungus on growth and nutrient uptake of wheat and maize plants fertilized with rock phosphate in alkaline soils. European Journal of Soil Biology, 2011, 47, 30-34.	1.4	144
8	Improvement in strength properties of ash bricks by bacterial calcite. Ecological Engineering, 2012, 39, 31-35.	1.6	134
9	Microbial healing of cracks in concrete: a review. Journal of Industrial Microbiology and Biotechnology, 2017, 44, 1511-1525.	1.4	122
10	Effects of Phosphate-Solubilizing Bacteria, Rock Phosphate and Chemical Fertilizers on Maize-Wheat Cropping Cycle and Economics. Pedosphere, 2015, 25, 428-437.	2.1	119
11	Synergistic Role of Bacterial Urease and Carbonic Anhydrase in Carbonate Mineralization. Applied Biochemistry and Biotechnology, 2014, 172, 2552-2561.	1.4	114
12	Application of calcifying bacteria for remediation of stones and cultural heritages. Frontiers in Microbiology, 2014, 5, 304.	1.5	100
13	ORIGINAL RESEARCH: Biocalcification bySporosarcina pasteuriiusing corn steep liquor as the nutrient source. Industrial Biotechnology, 2010, 6, 170-174.	0.5	98
14	Phosphate solubilization by a wild type strain and UV-induced mutants of Aspergillus tubingensis. Soil Biology and Biochemistry, 2007, 39, 695-699.	4.2	94
15	Micrographical, minerological and nano-mechanical characterisation of microbial carbonates from urease and carbonic anhydrase producing bacteria. Ecological Engineering, 2016, 94, 443-454.	1.6	89
16	Taxol Production by an Endophytic Fungus, Fusarium redolens, Isolated from Himalayan Yew. Journal of Microbiology and Biotechnology, 2013, 23, 1372-1380.	0.9	89
17	Bacillus megaterium mediated mineralization of calcium carbonate as biogenic surface treatment of green building materials. World Journal of Microbiology and Biotechnology, 2013, 29, 2397-2406.	1.7	83
18	Significant indicators for biomineralisation in sand of varying grain sizes. Construction and Building Materials, 2016, 104, 198-207.	3.2	77

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19	Dual Inoculation of Arbuscular Mycorrhizal and Phosphate Solubilizing Fungi Contributes in Sustainable Maintenance of Plant Health in Fly Ash Ponds. Water, Air, and Soil Pollution, 2011, 219, 3-10.	1.1	65
20	Molecular Approaches to Screen Bioactive Compounds from Endophytic Fungi. Frontiers in Microbiology, 2016, 7, 1774.	1.5	61
21	ITS-RFLP and ITS sequence analysis of a foliar endophytic Phyllosticta from different tropical trees. Mycological Research, 2003, 107, 439-444.	2.5	58
22	Aspergillus Tubingensis Reduces the pH of the Bauxite Residue (Red Mud) Amended Soils. Water, Air, and Soil Pollution, 2005, 167, 201-209.	1.1	58
23	Influence of nutrient components of media on structural properties of concrete during biocementation. Construction and Building Materials, 2018, 158, 601-613.	3.2	58
24	Effect of Carbon and Nitrogen Sources on Phosphate Solubilization by a Wild-Type Strain and UV-Induced Mutants of Aspergillus tubingensis. Current Microbiology, 2008, 57, 401-406.	1.0	56
25	Utilization of carbon dioxide as an alternative to urea in biocementation. Construction and Building Materials, 2016, 123, 527-533.	3.2	56
26	Differential expression of metallothioneins in response to heavy metals and their involvement in metal tolerance in the symbiotic basidiomycete Laccaria bicolor. Microbiology (United Kingdom), 2014, 160, 2235-2242.	0.7	55
27	Influence of P-solubilizing bacteria on crop yield and soil fertility at multilocational sites. European Journal of Soil Biology, 2014, 61, 35-40.	1.4	52
28	Role of phosphate-solubilizing bacteria in improving the soil fertility and crop productivity in organic farming. Archives of Agronomy and Soil Science, 2014, 60, 549-564.	1.3	51
29	Metal induction of a <scp>P</scp>isolithus albus metallothionein and its potential involvement in heavy metal tolerance during mycorrhizal symbiosis. Environmental Microbiology, 2016, 18, 2446-2454.	1.8	51
30	Pentachlorophenol degradation by Pseudomonas stutzeri CL7 in the secondary sludge of pulp and paper mill. Journal of Environmental Sciences, 2010, 22, 1608-1612.	3.2	47
31	Shoot organogenesis in elite clones of Eucalyptus tereticornis. Plant Cell, Tissue and Organ Culture, 2010, 102, 45-52.	1.2	46
32	Degradation of pentachlorophenol by Kocuria sp. CL2 isolated from secondary sludge of pulp and paper mill. Biodegradation, 2011, 22, 63-69.	1.5	45
33	Biocalcification by halophilic bacteria for remediation of concrete structures in marine environment. Journal of Industrial Microbiology and Biotechnology, 2016, 43, 1497-1505.	1.4	45
34	Protection of concrete structures under sulfate environments by using calcifying bacteria. Construction and Building Materials, 2019, 209, 156-166.	3.2	45
35	Coinoculation efficacy of ectomycorrhizal fungi on Pinus patula seedlings in a nursery. Mycorrhiza, 1997, 7, 133-138.	1.3	42
36	Characterization of pentachlorophenol degrading Bacillus strains from secondary pulp-and-paper-industry sludge. International Biodeterioration and Biodegradation, 2010, 64, 609-613.	1.9	42

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37	Characterization of Trichoderma asperellum RM-28 for its sodic/saline-alkali tolerance and plant growth promoting activities to alleviate toxicity of red mud. Science of the Total Environment, 2019, 662, 462-469.	3.9	41
38	Agrobacterium tumefaciens mediated genetic transformation of selected elite clone(s) of Eucalyptus tereticornis. Acta Physiologiae Plantarum, 2011, 33, 1603-1611.	1.0	40
39	Pestalotiopsis species occur as generalist endophytes in trees of Western Ghats forests of southern India. Fungal Ecology, 2016, 24, 70-75.	0.7	39
40	Endolichenic fungi: A hidden source of bioactive metabolites. South African Journal of Botany, 2020, 134, 163-186.	1.2	38
41	Corn steep liquor as a nutritional source for biocementation and its impact on concrete structural properties. Journal of Industrial Microbiology and Biotechnology, 2018, 45, 657-667.	1.4	37
42	Metagenomics analysis reveals a new metallothionein family: Sequence and metal-binding features of new environmental cysteine-rich proteins. Journal of Inorganic Biochemistry, 2017, 167, 1-11.	1.5	35
43	Characterization of Two Urease-Producing and Calcifying Bacillus spp. Isolated from Cement. Journal of Microbiology and Biotechnology, 2010, 20, 1571-1576.	0.9	35
44	Influence of arbuscular mycorrhizal fungi on the growth and nutrient status of bermudagrass grown in alkaline bauxite processing residue. Environmental Pollution, 2011, 159, 25-29.	3.7	34
45	Influence of Exopolymeric Materials on Bacterially Induced Mineralization of Carbonates. Applied Biochemistry and Biotechnology, 2015, 175, 3531-3541.	1.4	34
46	Mangrove-Associated Fungi: A Novel Source of Potential Anticancer Compounds. Journal of Fungi (Basel, Switzerland), 2018, 4, 101.	1.5	34
47	Degradation of polypropyleneâ€“poly-L-lactide blend by bacteria isolated from compost. Bioremediation Journal, 2018, 22, 73-90.	1.0	32
48	Effect of carbon, nitrogen sources and inducers on ligninolytic enzyme production by Morchella crassipes. World Journal of Microbiology and Biotechnology, 2011, 27, 687-691.	1.7	31
49	Bacterial diversity of extremely alkaline bauxite residue site of alumina industrial plant using culturable bacteria and residue 16S rRNA gene clones. Extremophiles, 2014, 18, 665-676.	0.9	31
50	Metatranscriptomics: an approach for retrieving novel eukaryotic genes from polluted and related environments. 3 Biotech, 2020, 10, 71.	1.1	31
51	Diversity of Arbuscular Mycorrhizal Fungi Associated with Plants Growing in Fly Ash Pond and Their Potential Role in Ecological Restoration. Current Microbiology, 2011, 63, 273-280.	1.0	29
52	Influence of Agrobacterium rhizogenes strains on hairy root induction and â€˜bacoside Aâ€™ production from Bacopa monnieri (L.) Wettst.. Acta Physiologiae Plantarum, 2014, 36, 2793-2801.	1.0	29
53	Molecular Characterization of Morchella Species from the Western Himalayan Region of India. Current Microbiology, 2011, 62, 1245-1252.	1.0	28
54	Enhancement of taxol production from endophytic fungus Fusarium redolens. Biotechnology and Bioprocess Engineering, 2014, 19, 908-915.	1.4	27

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55	Influence of biogenic treatment in improving the durability properties of waste amended concrete: A review. Construction and Building Materials, 2020, 263, 120170.	3.2	27
56	Diversity of cultivable bacteria associated with fruiting bodies of wild Himalayan Cantharellus spp.. Annals of Microbiology, 2013, 63, 845-853.	1.1	26
57	Phosphate solubilizing rhizobacteria from an organic farm and their influence on the growth and yield of maize (Zea mays L.). Journal of General and Applied Microbiology, 2013, 59, 295-303.	0.4	26
58	Viability of calcifying bacterial formulations in fly ash for applications in building materials. Journal of Industrial Microbiology and Biotechnology, 2013, 40, 1403-1413.	1.4	24
59	An alkaliphilic and xylanolytic strain of actinomycetes Kocuria sp. RM1 isolated from extremely alkaline bauxite residue sites. World Journal of Microbiology and Biotechnology, 2008, 24, 3079-3085.	1.7	22
60	Diversity and antimitotic activity of taxol-producing endophytic fungi isolated from Himalayan yew. Annals of Microbiology, 2014, 64, 1413-1422.	1.1	20
61	Efficient, one step and cultivar independent shoot organogenesis of potato. Physiology and Molecular Biology of Plants, 2017, 23, 461-469.	1.4	20
62	Cadmium and arsenic responses in the ectomycorrhizal fungus Laccaria bicolor: glutathione metabolism and its role in metal(loid) homeostasis. Environmental Microbiology Reports, 2019, 11, 53-61.	1.0	20
63	Arsenic toxicity and its mitigation in ectomycorrhizal fungus Hebeloma cylindrosporum through glutathione biosynthesis. Chemosphere, 2020, 240, 124914.	4.2	20
64	Ectomycorrhizal Fungi and Its Role in Metal Homeostasis through Metallothionein and Glutathione Mechanisms. Current Biotechnology, 2018, 7, 231-241.	0.2	20
65	Secondary Metabolites From Endophytic Fungi and Their Biological Activities. , 2019, , 237-258.		19
66	Heavy metal hypertolerant eukaryotic aldehyde dehydrogenase isolated from metal contaminated soil by metatranscriptomics approach. Biochimie, 2019, 160, 183-192.	1.3	19
67	Metal induction of two metallothionein genes in the ectomycorrhizal fungus Suillus himalayensis and their role in metal tolerance. Microbiology (United Kingdom), 2018, 164, 868-876.	0.7	19
68	Improvement of wheat and maize crops by inoculatingAspergillusspp. in alkaline soil fertilized with rock phosphate. Archives of Agronomy and Soil Science, 2012, 58, 535-546.	1.3	18
69	Factors affecting micropropagation and acclimatization of an elite clone of Eucalyptus tereticornis Sm.. In Vitro Cellular and Developmental Biology - Plant, 2012, 48, 521-529.	0.9	18
70	Construction of sized eukaryotic cDNA libraries using low input of total environmental metatranscriptomic RNA. BMC Biotechnology, 2014, 14, 80.	1.7	18
71	Optimization of cell growth and bacoside-A production in suspension cultures of Bacopa monnieri (L.) Wettst. using response surface methodology. In Vitro Cellular and Developmental Biology - Plant, 2017, 53, 527-537.	0.9	18
72	Bio-consolidation of cracks with fly ash amended biogrouting in concrete structures. Construction and Building Materials, 2021, 300, 124044.	3.2	18

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73	The effect of carbon and nitrogen sources on the formation of sclerotia in Morchella spp.. Annals of Microbiology, 2012, 62, 165-168.	1.1	17
74	Hetero-Polysaccharides Secreted from Dunaliella salina Exhibit Immunomodulatory Activity Against Peripheral Blood Mononuclear Cells and RAW 264.7 Macrophages. Indian Journal of Microbiology, 2019, 59, 428-435.	1.5	17
75	Computational screening of potential drug targets for pathogens causing bacterial pneumonia. Microbial Pathogenesis, 2019, 130, 271-282.	1.3	17
76	Anti-infectives from mangrove endophytic fungi. South African Journal of Botany, 2020, 134, 237-263.	1.2	17
77	Diversity among wild accessions of Bacopa monnieri (L.) Wettst. and their morphogenetic potential. Acta Physiologiae Plantarum, 2014, 36, 1177-1186.	1.0	16
78	Role of Ectomycorrhizal Symbiosis Behind the Host Plants Ameliorated Tolerance Against Heavy Metal Stress. Frontiers in Microbiology, 2022, 13, 855473.	1.5	16
79	Biomineralization of cyanobacteria Synechocystis pevalekii improves the durability properties of cement mortar. AMB Express, 2022, 12, 59.	1.4	16
80	Aspergillus tubingensisImproves the Growth and Native Mycorrhizal Colonization of Bermudagrass in Bauxite Residue. Bioremediation Journal, 2011, 15, 157-164.	1.0	15
81	Isolation of multi-metal tolerant ubiquitin fusion protein from metal polluted soil by metatranscriptomic approach. Journal of Microbiological Methods, 2018, 152, 119-125.	0.7	15
82	Endophytic fungi: a potential source of industrial enzyme producers. 3 Biotech, 2022, 12, 86.	1.1	15
83	Factors affecting genetic transformation and shoot organogenesis of Bacopa monnieri (L.) Wettst. Journal of Plant Biochemistry and Biotechnology, 2013, 22, 382-391.	0.9	13
84	New records ofCantharellusspecies from the northwestern Himalayas of India. Mycology, 2013, 4, 205-220.	2.0	13
85	Cadmium induced glutathione bioaccumulation mediated by Î³-glutamylcysteine synthetase in ectomycorrhizal fungus Hebeloma cylindrosporum. BioMetals, 2019, 32, 101-110.	1.8	13
86	Utilization of banana waste as a resource material for biofuels and other value-added products. Biomass Conversion and Biorefinery, 2023, 13, 12717-12736.	2.9	13
87	Inoculation of micropropagated plantlets of Eucalyptus tereticornis with ectomycorrhizal fungi. New Forests, 1998, 16, 273-279.	0.7	12
88	Utilization of Banana Stem Juice as a Feedstock Material for Bioethanol Production. Clean - Soil, Air, Water, 2019, 47, 1900047.	0.7	12
89	Influence of ectomycorrhizal colonization on the growth and mineral nutrition of Populus deltoides under Aluminum toxicity. Journal of Plant Interactions, 2009, 4, 93-99.	1.0	11
90	Direct somatic embryogenesis of potato [Solanum tuberosum (L.)] cultivar â€˜Kufri Chipsona 2â€™. Plant Cell, Tissue and Organ Culture, 2018, 134, 457-466.	1.2	11

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91	Detoxification of toxic heavy metals by serine protease inhibitor isolated from polluted soil. International Biodeterioration and Biodegradation, 2019, 143, 104718.	1.9	11
92	Screening of potent drug inhibitors against SARS-CoV-2 RNA polymerase: an in silico approach. 3 Biotech, 2021, 11, 93.	1.1	11
93	Crack healing in concrete by microbially induced calcium carbonate precipitation as assessed through electromechanical impedance technique. European Journal of Environmental and Civil Engineering, 2023, 27, 1123-1143.	1.0	11
94	Degradation of 2,4,6-trichlorophenol by bacteria isolated from secondary sludge of a pulp and paper mill. Journal of General and Applied Microbiology, 2012, 58, 413-420.	0.4	10
95	Alkalistable xylanase production by alkalitolerant Paenibacillus montaniterrae <scp>RMV</scp>1 isolated from red mud. Journal of Basic Microbiology, 2014, 54, 1023-1029.	1.8	10
96	Role of Phosphate-Solubilizing Fungi in Sustainable Agriculture. , 2017, , 391-412.		10
97	Over-expression of Osmotin (OsmWS) gene of Withania somnifera in potato cultivar â€˜Kufri Chipsona 1â€™ imparts resistance to Alternaria solani. Plant Cell, Tissue and Organ Culture, 2020, 142, 131-142.	1.2	10
98	Utilization of Biomineralized Steel Slag in Cement Mortar to Improve Its Properties. Journal of Materials in Civil Engineering, 2021, 33, .	1.3	10
99	Pisolithus indicus, a new species of ectomycorrhizal fungus associated with Dipetrocarps in India. Mycologia, 2005, 97, 838-843.	0.8	9
100	Craterellus indicus sp. nov., a new species associated with Cedrus deodara from the western Himalayas, India. Mycological Progress, 2012, 11, 769-774.	0.5	9
101	Genetic transformation of endo-1,4-Î²-glucanase (Korrigan) for cellulose enhancement in Eucalyptus tereticornis. Plant Cell, Tissue and Organ Culture, 2015, 122, 363-371.	1.2	9
102	Suillus indicussp. nov. (Boletales, Basidiomycota), a new boletoid fungus from northwestern Himalayas, India. Mycology, 2015, 6, 35-41.	2.0	9
103	Seasonal variations in harvest index and bacoside A contents amongst accessions of Bacopa monnieri (L.) Wettst. collected from wild populations. Physiology and Molecular Biology of Plants, 2016, 22, 407-413.	1.4	9
104	Improvement of crop yield by phosphate-solubilizingAspergillusspecies in organic farming. Archives of Agronomy and Soil Science, 2017, 63, 24-34.	1.3	9
105	Multi-metal tolerance of von Willebrand factor type D domain isolated from metal contaminated site by metatranscriptomics approach. Science of the Total Environment, 2019, 661, 432-440.	3.9	9
106	Role of nanomaterials in protecting building materials from degradation and deterioration. , 2022, , 405-475.		9
107	Role of Selenium-Tolerant Fungi on Plant Growth Promotion and Selenium Accumulation of Maize Plants Grown in Seleniferous Soils. Water, Air, and Soil Pollution, 2022, 233, 1.	1.1	9
108	Bacterial based admixed or spray treatment to improve properties of concrete. Sadhana - Academy Proceedings in Engineering Sciences, 2019, 44, 1.	0.8	8

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109	Biochar augmentation improves ectomycorrhizal colonisation, plant growth and soil fertility. Soil Research, 2020, 58, 673.	0.6	8
110	A robust genetic transformation protocol to obtain transgenic shoots of Solanum tuberosum L. cultivar â€˜Kufri Chipsona 1â€™. Physiology and Molecular Biology of Plants, 2020, 26, 367-377.	1.4	8
111	Degradation of polypropylene-poly-L-lactide blends by Bacillus isolates: a microcosm and field evaluation. Bioremediation Journal, 2022, 26, 64-75.	1.0	8
112	Effects of the fungicide Dithane M-45 on the growth and mycorrhizal formation of Pinus patula seedlings. Soil Biology and Biochemistry, 1995, 27, 1503-1504.	4.2	6
113	Production of bacoside A, a memory enhancer from hairy root cultures of Bacopa monnieri (L.) Wettst. Journal of Applied Research on Medicinal and Aromatic Plants, 2015, 2, 92-101.	0.9	6
114	Influence of carbon, nitrogen sources, inducers, and substrates on lignocellulolytic enzyme activities of Morchella spongiola. Journal of Agriculture and Food Research, 2022, 7, 100271.	1.2	6
115	Influence of sclerotia formation on ligninolytic enzyme production in Morchella crassipes. Journal of Basic Microbiology, 2014, 54, S63-9.	1.8	5
116	Draft Genome Sequence of a Fungus (Fusarium tricinctum) Cultured from a Monoisolate Native to the Himalayas. Genome Announcements, 2018, 6, .	0.8	5
117	In vitro ectomycorrhizal formation of Pinus patula, P. pseudostrobus, P. oocarpa and P. elliotii grown in southern India. New Forests, 1996, 11, 149-153.	0.7	4
118	Removal of 2,4,5â€trichlorophenol by bacterial isolates from the secondary sludge of pulp and paper mill. Journal of Basic Microbiology, 2013, 53, 752-757.	1.8	4
119	Applicability of bacterial biocementation in sustainable construction materials. Asia-Pacific Journal of Chemical Engineering, 2016, 11, 795-802.	0.8	4
120	Protection from metal toxicity by Hsp40-like protein isolated from contaminated soil using functional metagenomic approach. Environmental Science and Pollution Research, 2021, 28, 17132-17145.	2.7	4
121	Pseudomonas sp. CL7 from Sludge Removed 2,3,4,6â€Tetrachlorophenol in Vivo and in Vitro Condition. Water Environment Research, 2016, 88, 303-307.	1.3	3
122	Endolichenic fungal diversity associated with some lichens of the Western Ghats. Planta Medica, 2020, 86, 960-966.	0.7	3
123	In vitro evaluation of bioactive properties of banana sap. , 2022, 77, 2989-3000.		3
124	Ectomycorrhizal Diversity and Tree Sustainability. , 2019, , 145-166.		2
125	Multi-metal tolerance of DHHC palmitoyl transferase-like protein isolated from metal contaminated soil. Ecotoxicology, 2021, 30, 67-79.	1.1	1
126	Computational prediction of the effects of non-synonymous single nucleotide polymorphisms on the GPI-anchor transamidase subunit GPI8p of Plasmodium falciparum. Computational Biology and Chemistry, 2021, 92, 107461.	1.1	1

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127	Recent Developments in Ectomycorrhizal Research. , 2019, , 301-323.		1
128	Heat shock enhanced Agrobacterium tumefaciens mediated T-DNA delivery to potato (Solanum) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 7	0.9	1
129	Effect of a synthetic pyrethroid on the growth of ectomycorrhizal fungi and mycorrhiza formation in Pinus patula. Mycorrhiza, 1994, 5, 115-117.	1.3	1
130	Title is missing!. Water, Air, and Soil Pollution, 2002, 135, 55-64.	1.1	0
131	Biogenic treatment improves the durability of steel slag amended mortar structures. , 2019, , .		0
132	Overexpression of sucrose synthase enhances cellulose content in transgenic Populus deltoides Bartr. ex Marsh. Revista Brasileira De Botanica, 0, , 1.	0.5	0