E K Radhakrishnan

List of Publications by Year
in descending order

110	3,222	159585 30	168389 53
papers	citations	h-index	g-index

113	113	113	3638
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	PhenazineÂ1-carboxylic acidÂProducing Seed Harbored Endophytic Bacteria from CultivatedÂRice Variety of Kerala and Its Broad Range Antagonism to Diverse Plant Pathogens. Probiotics and Antimicrobial Proteins, 2023, 15, 516-523.	3.9	5
2	Activity of Clove Oil and Chitosan Nanoparticles Incorporated PVA Nanocomposite Against Pythium aphanidermatum. Applied Biochemistry and Biotechnology, 2022, 194, 1442-1457.	2.9	3
3	Plant disease management through microbiome modulation. , 2022, , 117-136.		0
4	Induction of plant defense response by endophytic microorganisms. , 2022, , 89-115.		2
5	Soil Burial and Biodegradability of Bionanocomposites. Composites Science and Technology, 2022, , 181-203.	0.6	1
6	Antimicrobial Properties of Bionanocomposites. Composites Science and Technology, 2022, , 87-102.	0.6	1
7	Rapid detection of mobile resistance genes tetA and tetB from metaplasmid isolated from healthy broiler feces. Microbial Pathogenesis, 2022, 166, 105504.	2.9	1
8	Chitosan nanoparticles augmented indoleâ€3â€acetic acid production by rhizospheric Pseudomonas monteilii. Journal of Basic Microbiology, 2022, , .	3.3	3
9	Plant Beneficial Features and Application of Paraburkholderia sp. NhPBG1 Isolated from Pitcher of Nepenthes hamblack. Probiotics and Antimicrobial Proteins, 2021, 13, 32-39.	3.9	11
10	Effect of zinc oxide nanoparticle supplementation on the enhanced production of surfactin and iturin lipopeptides of endophytic Bacillus sp. Fcl1 and its ameliorated antifungal activity. Pest Management Science, 2021, 77, 1035-1041.	3.4	11
11	Impact of Supplements on Enhanced Activity of Bacillus amyloliquefaciens BmB1 Against Pythium aphanidermatum Through Lipopeptide Modulation. Probiotics and Antimicrobial Proteins, 2021, 13, 367-374.	3.9	3
12	Environmental Adaptations of an Extremely Plant Beneficial Bacillus subtilis Dcl1 Identified Through the Genomic and Metabolomic Analysis. Microbial Ecology, 2021, 81, 687-702.	2.8	18
13	Quinalphos Tolerant Endophytic Bacillus sp. Fcl1 and its Toxicity-Alleviating Effect in Vigna unguiculata. Current Microbiology, 2021, 78, 904-910.	2.2	5
14	CLOISITE 10A AS AN EFFECTIVE ANTIBACTERIAL AGENT IN POLYMER MATRICES: ROLE OF NANOSCALE ROUGHNESS AND INTERFACIAL INTERACTIONS. Clays and Clay Minerals, 2021, 69, 289-298.	1.3	4
15	LaponiteÂ® clay/poly(ethylene oxide) gel beads for delivery of plant growth-promoting rhizobacteria. Bulletin of Materials Science, 2021, 44, 1.	1.7	5
16	Rhizospheric Pseudomonas spp. with plant growth promotion and antifungal properties against Sclerotium rolfsii mediated pathogenesis in Vigna unguiculata. Plant Biotechnology Reports, 2021, 15, 483-491.	1.5	7
17	LaponiteÂ® nanoclay gel based microenvironment for plant probiotic rhizobacterial delivery. Rhizosphere, 2021, 18, 100346.	3.0	2
18	Polyvinyl alcohol -nanocomposite films incorporated with clay nanoparticles and lipopeptides as active food wraps against food spoilage microbes. Food Packaging and Shelf Life, 2021, 30, 100727.	7.5	15

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19	Role of Nanocurcumin as a Surface Modifying Agent with Excellent Preventive Effect on Device-Related CoNS Infections. Proceedings of the National Academy of Sciences India Section B - Biological Sciences, 2020, 90, 29-35.	1.0	4
20	Biofilm Changes of Clinically Isolated Coagulase Negative Staphylococci. Proceedings of the National Academy of Sciences India Section B - Biological Sciences, 2020, 90, 199-206.	1.0	3
21	Healthy broilers disseminate antibiotic resistance in response to tetracycline input in feed concentrates. Microbial Pathogenesis, 2020, 149, 104562.	2.9	19
22	Nanoelicitor based enhancement of camptothecin production in fungi isolated from Ophiorrhiza mungos. Biotechnology Progress, 2020, 36, e3039.	2.6	10
23	Modulation of agriculturally useful rhamnolipid profile of Pseudomonas sp. K6 due to the supplementation with chitosan and gold nanoparticles. World Journal of Microbiology and Biotechnology, 2020, 36, 146.	3.6	5
24	Drought tolerant bacterial endophytes with potential plant probiotic effects from Ananas comosus. Biologia (Poland), 2020, 75, 1769-1778.	1.5	24
25	Drought-tolerant and plant growth-promoting endophytic Staphylococcus sp. having synergistic effect with silicate supplementation. Archives of Microbiology, 2020, 202, 1899-1906.	2.2	18
26	Advantage of zinc oxide nanoparticles over silver nanoparticles for the management of Aeromonas veronii infection in Xiphophorus hellerii. Microbial Pathogenesis, 2020, 147, 104348.	2.9	8
27	Combined Effect of Pseudomonas spp. Consortium and Fertilizer with Micronutrients on Enhanced yield of Amaranthus tricolor (L.). Proceedings of the National Academy of Sciences India Section B - Biological Sciences, 2020, 90, 1083-1092.	1.0	0
28	Characterization of biosurfactant produced by the endophyte Burkholderia sp. WYAT7 and evaluation of its antibacterial and antibiofilm potentials. Journal of Biotechnology, 2020, 313, 1-10.	3.8	48
29	Nanotechnological Advances with PGPR Applications. Sustainable Agriculture Reviews, 2020, , 163-180.	1.1	19
30	Benefits of plant-endophyte interaction for sustainable agriculture. , 2020, , 35-55.		1
31	Plant growth-promoting mechanisms of endophytes. , 2020, , 57-74.		0
32	Engineered Phyllosilicate Clay-Based Antimicrobial Surfaces. Materials Horizons, 2020, , 95-108.	0.6	1
33	Advances in Edible Fruit Coating Materials. , 2020, , 391-408.		7
34	The Need for Engineering Antimicrobial Surfaces. Materials Horizons, 2020, , 1-12.	0.6	0
35	Beneficial Changes in Capsicum frutescens Due to Priming by Plant Probiotic Burkholderia spp.. Probiotics and Antimicrobial Proteins, 2019, 11, 519-525.	3.9	5
36	Emerging Insights on Rhizobacterial Functions. , 2019, , 171-189.		0

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37	Polyvinyl alcohol/silver nanocomposite films fabricated under the influence of solar radiation as effective antimicrobial food packaging material. Journal of Polymer Research, 2019, 26, 1.	2.4	37
38	Bacterial endophytes from Artemisia nilagirica (Clarke) Pamp., with antibacterial efficacy against human pathogens. Microbial Pathogenesis, 2019, 135, 103624.	2.9	18
39	One-step synthesis of eco-friendly boiled rice starch blended polyvinyl alcohol bionanocomposite films decorated with in situ generated silver nanoparticles for food packaging purpose. International Journal of Biological Macromolecules, 2019, 139, 475-485.	7.5	68
40	Starch-PVA composite films with zinc-oxide nanoparticles and phytochemicals as intelligent pH sensing wraps for food packaging application. International Journal of Biological Macromolecules, 2019, 136, 395-403.	7.5	216
41	Poly (Îµ-caprolactone) Microsphere Decorated with Nano-ZnO Based Phytoformulation: A Promising Antimicrobial Agent. Journal of Inorganic and Organometallic Polymers and Materials, 2019, 29, 1503-1513.	3.7	7
42	Distribution of antibiotic resistance and virulence factors among the bacteria isolated from diseased Etroplus suratensis. 3 Biotech, 2019, 9, 138.	2.2	5
43	Mechanism of Interaction of Endophytic Microbes with Plants. , 2019, , 237-257.		3
44	Agriculturally Important Biosynthetic Features of Endophytic Microorganisms. , 2019, , 423-447.		2
45	Biogenic Gold Nanoparticle Supplementation to Plant Beneficial Pseudomonas monteilii was Found to Enhance its Plant Probiotic Effect. Current Microbiology, 2019, 76, 503-509.	2.2	39
46	Antibacterial Effectiveness of Rice Water (Starch)â€Capped Silver Nanoparticles Fabricated Rapidly in the Presence of Sunlight. Photochemistry and Photobiology, 2019, 95, 627-634.	2.5	7
47	Biodegradable and active nanocomposite pouches reinforced with silver nanoparticles for improved packaging of chicken sausages. Food Packaging and Shelf Life, 2019, 19, 155-166.	7.5	92
48	Plant Growth Promoting Endophytic Serratia sp. ZoB14 Protecting Ginger from Fungal Pathogens. Proceedings of the National Academy of Sciences India Section B - Biological Sciences, 2019, 89, 213-220.	1.0	15
49	Assessment of Plant-Probiotic Performance of Novel Endophytic Bacillus sp. in Talc-Based Formulation. Probiotics and Antimicrobial Proteins, 2019, 11, 256-263.	3.9	20
50	Epigenetic Modifier Based Enhancement of Piperine Production in Endophytic Diaporthe sp. PF20. Proceedings of the National Academy of Sciences India Section B - Biological Sciences, 2019, 89, 671-677.	1.0	8
51	Plant Growth Enhancement, Disease Resistance, and Elemental Modulatory Effects of Plant Probiotic Endophytic Bacillus sp. Fcl1. Probiotics and Antimicrobial Proteins, 2019, 11, 526-534.	3.9	33
52	Engineering Rhizobacterial Functions for the Improvement of Plant Growth and Disease Resistance. , 2019, , 451-469.		1
53	Nanotechnology in Agriculture. , 2019, , 1-17.		9
54	Methods and Mechanisms Involved in Antimicrobially Useful Nanoparticles with Agricultural Promises. , 2019, , 207-231.		0

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55	Effect of ginger endophyte Rhizopycnis vagum on rhizome bud formation and protection from phytopathogens. Biocatalysis and Agricultural Biotechnology, 2018, 14, 116-119.	3.1	23
56	Rapid degradative effect of microbially synthesized silver nanoparticles on textile dye in presence of sunlight. Biocatalysis and Agricultural Biotechnology, 2018, 14, 410-417.	3.1	19
57	Differential Modulation of Endophytic Microbiome of Ginger in the Presence of Beneficial Organisms, Pathogens and Both as Identified by DGGE Analysis. Current Microbiology, 2018, 75, 1033-1037.	2.2	3
58	Kinetic study of gold nanoparticle mediated photocatalytic degradation of Victoria blue. 3 Biotech, 2018, 8, 97.	2.2	13
59	Multipotent Plant Probiotic Rhizobacteria from Western Ghats and Its Effect on Quantitative Enhancement of Medicinal Natural Product Biosynthesis. Proceedings of the National Academy of Sciences India Section B - Biological Sciences, 2018, 88, 755-768.	1.0	10
60	Sunlight mediated rapid synthesis of small size range silver nanoparticles using Zingiber officinale rhizome extract and its antibacterial activity analysis. Inorganic and Nano-Metal Chemistry, 2018, 48, 139-145.	1.6	38
61	Chemicobiological Insight into Anti-phytopathogenic Properties of Rhizospheric Serratia plymuthica R51. Proceedings of the National Academy of Sciences India Section B - Biological Sciences, 2018, 88, 1629-1635.	1.0	10
62	Culturable Endophytic Bacteria of Ginger RhizomeÂand their Remarkable Multi-trait Plant Growth-Promoting Features. Current Microbiology, 2018, 75, 505-511.	2.2	31
63	Endophytic Paraconiothyrium sp. from Zingiber officinale Rosc. Displays Broad-Spectrum Antimicrobial Activity by Production of Danthron. Current Microbiology, 2018, 75, 343-352.	2.2	22
64	Biofabricated silver nanoparticles incorporated polymethyl methacrylate as a dental adhesive material with antibacterial and antibiofilm activity against Streptococcus mutans. 3 Biotech, 2018, 8, 404.	2.2	23
65	Poly(vinyl alcohol): Montmorillonite: Boiled rice water (starch) blend film reinforced with silver nanoparticles; characterization and antibacterial properties. Applied Clay Science, 2018, 161, 464-473.	5.2	55
66	Differential modulation of phytoelemental composition by selected Pseudomonas spp.. 3 Biotech, 2018, 8, 377.	2.2	3
67	Endophytic Phomopsis sp. colonization in Oryza sativa was found to result in plant growth promotion and piperine production. Physiologia Plantarum, 2017, 160, 437-446.	5.2	26
68	Antifungal properties of prodigiosin producing rhizospheric Serratia sp.. Rhizosphere, 2017, 3, 105-108.	3.0	46
69	Strain-specific variation in plant growth promoting volatile organic compounds production by five different Pseudomonas spp. as confirmed by response of Vigna radiata seedlings. Journal of Applied Microbiology, 2017, 123, 204-216.	3.1	37
70	Microbially and phytofabricated AgNPs with different mode of bactericidal action were identified to have comparable potential for surface fabrication of central venous catheters to combat Staphylococcus aureus biofilm. Journal of Photochemistry and Photobiology B: Biology, 2017, 171, 96-103.	3.8	31
71	Virulence factors associated with Coagulase Negative Staphylococci isolated from human infections. 3 Biotech, 2017, 7, 140.	2.2	33
72	Metabolite analysis of endophytic fungi from cultivars of Zingiber officinale Rosc. identifies myriad of bioactive compounds including tyrosol. 3 Biotech, 2017, 7, 146.	2.2	28

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73	Endophytic Nocardiopsis sp. from Zingiber officinale with both antiphytopathogenic mechanisms and antibiofilm activity against clinical isolates. 3 Biotech, 2017, 7, 115.	2.2	28
74	Comparative analysis of the effect of silver nanoparticle and silver nitrate on morphological and anatomical parameters of banana under in vitro conditions. Inorganic and Nano-Metal Chemistry, 2017, 47, 1530-1536.	1.6	7
75	Pseudomonas fluorescens R68 assisted enhancement in growth and fertilizer utilization of Amaranthus tricolor (L.). 3 Biotech, 2017, 7, 256.	2.2	16
76	Bioengineering of Dioscorea nipponica with rhizospheric Proteus spp. for enhanced tuber size and diosgenin content. 3 Biotech, 2017, 7, 261.	2.2	6
77	Zinc oxideâ€“curcumin nanocomposite loaded collagen membrane as an effective material against methicillin-resistant coagulase-negative Staphylococci. 3 Biotech, 2017, 7, 238.	2.2	17
78	Bacopaside N1 biosynthetic potential of endophytic Aspergillus sp. BmF 16 isolated from Bacopa monnieri. 3 Biotech, 2017, 7, 210.	2.2	7
79	Plant growth and diosgenin enhancement effect of silver nanoparticles in Fenugreek (Trigonella) Tj ETQq1 1 0.784314 rgBT /Overloc	2.7	183
80	Photocatalytic and antibacterial effects of silver nanoparticles fabricated by Bacillus subtilis SJ 15. Inorganic and Nano-Metal Chemistry, 2017, 47, 901-908.	1.6	11
81	Antimicrobial, antibiofilm, and microbial barrier properties of poly (Îµ-caprolactone)/cloisite 30B thin films. 3 Biotech, 2016, 6, 249.	2.2	23
82	Studies on coexistence of mec gene, IS256 and novel sasX gene among human clinical coagulase-negative staphylococci. 3 Biotech, 2016, 6, 233.	2.2	5
83	Surfactin, Iturin, and Fengycin Biosynthesis by Endophytic Bacillus sp. from Bacopa monnieri. Microbial Ecology, 2016, 72, 106-119.	2.8	78
84	Identification of a novel endophytic Bacillus sp. from Capsicum annuum with highly efficient and broad spectrum plant probiotic effect. Journal of Applied Microbiology, 2016, 121, 1079-1094.	3.1	21
85	Identification of endophytic Bacillus mojavensis with highly specialized broad spectrum antibacterial activity. 3 Biotech, 2016, 6, 187.	2.2	34
86	Studies on prevalence of biofilm associated genes and primary observation on sasX gene in clinical isolates of coagulase negative staphylococci (CoNS). Apmis, 2016, 124, 319-326.	2.0	7
87	Exploration of photocatalytic properties of microbially designed silver nanoparticles on Victoria blue B. Bioprocess and Biosystems Engineering, 2016, 39, 1033-1040.	3.4	2
88	Metabolite and Mechanistic Basis of Antifungal Property Exhibited by Endophytic Bacillus amyloliquefaciens BmB 1. Applied Biochemistry and Biotechnology, 2016, 179, 830-845.	2.9	19
89	Nylon 6, 12/Cloisite 30B Electrospun Nanocomposites for Dental Applications. Journal of Siberian Federal University - Biology, 2016, 9, 198-211.	0.4	10
90	Inhibitory effect of silver nanoparticle fabricated urinary catheter on colonization efficiency of Coagulase Negative Staphylococci. Journal of Photochemistry and Photobiology B: Biology, 2015, 149, 68-77.	3.8	53

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91	Effect of endophytic Bacillus sp. from selected medicinal plants on growth promotion and diosgenin production in Trigonella foenum-graecum. Plant Cell, Tissue and Organ Culture, 2015, 122, 565-572.	2.3	41
92	Electrospun Polycaprolactone Membrane Incorporated with Biosynthesized Silver Nanoparticles as Effective Wound Dressing Material. Applied Biochemistry and Biotechnology, 2015, 176, 2213-2224.	2.9	87
93	Studies on Plant Growth Promoting Properties of Fruit-Associated Bacteria from Elettaria cardamomum and Molecular Analysis of ACC Deaminase Gene. Applied Biochemistry and Biotechnology, 2015, 177, 175-189.	2.9	18
94	Gliotoxin-Producing Endophytic Acremonium sp. from Zingiber officinale Found Antagonistic to Soft Rot Pathogen Pythium myriotylum. Applied Biochemistry and Biotechnology, 2015, 175, 3458-3467.	2.9	32
95	Effect of biofabricated gold nanoparticle-based antibiotic conjugates on minimum inhibitory concentration of bacterial isolates of clinical origin. Gold Bulletin, 2015, 48, 63-71.	2.4	65
96	Phytostimulatory and hardening period-reducing effects of plant-associated bacteria on micropropagated Musa acuminata cv. Grand Naine. In Vitro Cellular and Developmental Biology - Plant, 2015, 51, 682-687.	2.1	12
97	[6]-Gingerol Induces Caspase-Dependent Apoptosis and Prevents PMA-Induced Proliferation in Colon Cancer Cells by Inhibiting MAPK/AP-1 Signaling. PLoS ONE, 2014, 9, e104401.	2.5	111
98	Antibacterial properties of silver nanoparticles synthesized by marine Ochrobactrum sp.. Brazilian Journal of Microbiology, 2014, 45, 1221-1227.	2.0	91
99	Phenazine carboxylic acid production and rhizome protective effect of endophytic Pseudomonas aeruginosa isolated from Zingiber officinale. World Journal of Microbiology and Biotechnology, 2014, 30, 1649-1654.	3.6	45
100	Antibacterial Activity and Synergistic Effect of Biosynthesized AgNPs with Antibiotics Against Multidrug-Resistant Biofilm-Forming Coagulase-Negative Staphylococci Isolated from Clinical Samples. Applied Biochemistry and Biotechnology, 2014, 173, 449-460.	2.9	61
101	Piperine production by endophytic fungus Colletotrichum gloeosporioides isolated from Piper nigrum. Phytomedicine, 2014, 21, 534-540.	5.3	120
102	Isolation and characterization of plant growth promoting endophytic bacteria from the rhizome of Zingiber officinale. 3 Biotech, 2014, 4, 197-204.	2.2	132
103	Studies on the factors modulating indole-3-acetic acid production in endophytic bacterial isolates fromPiper nigrumand molecular analysis ofipdcgene. Journal of Applied Microbiology, 2014, 117, 786-799.	3.1	52
104	Extracellular synthesis of silver nanoparticles by the Bacillus strain CS 11 isolated from industrialized area. 3 Biotech, 2014, 4, 121-126.	2.2	241
105	LC-MS/MS Based Identification of Piperine Production by Endophytic Mycosphaerella sp. PF13 from Piper nigrum. Applied Biochemistry and Biotechnology, 2014, 173, 30-35.	2.9	41
106	Isolation of endophytic bacteria from embryogenic suspension culture of banana and assessment of their plant growth promoting properties. Plant Cell, Tissue and Organ Culture, 2014, 118, 57-66.	2.3	44
107	Biosynthesis of silver nanoparticles by a Bacillus sp. of marine origin. Materials Science-Poland, 2013, 31, 173-179.	1.0	9
108	Identification of two strains of Paenibacillus sp. as indole 3 acetic acid-producing rhizome-associated endophytic bacteria from Curcuma longa. 3 Biotech, 2013, 3, 219-224.	2.2	27

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109	Plant growth promoting potential of endophytic bacteria isolated from Piper nigrum. Plant Growth Regulation, 2013, 71, 1-11.	3.4	128
110	Extracellular Synthesis of Silver Nanoparticles by Endophytic Bordetella SP. Isolated from Piper Nigrum and Its Antibacterial Activity Analysis. Nano Biomedicine and Engineering, 2012, 4, .	0.9	28