

Mani Rajkumar

List of Publications by Year in descending order

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43
papers

6,700
citations

109321

35
h-index

254184

43
g-index

44
all docs

44
docs citations

44
times ranked

4954
citing authors

#	ARTICLE	IF	CITATIONS
1	Plant growth promoting bacteria improve growth and phytostabilization potential of Zea mays under chromium and drought stress by altering photosynthetic and antioxidant responses. Environmental Technology and Innovation, 2022, 25, 102154.	6.1	52
2	Synergism of Industrial and Agricultural Waste as a Suitable Carrier Material for Developing Potential Biofertilizer for Sustainable Agricultural Production of Eggplant. Horticulturae, 2022, 8, 444.	2.8	8
3	Bioaugmentation with copper tolerant endophyte Pseudomonas lurida strain EOO26 for improved plant growth and copper phytoremediation by Helianthus annuus. Chemosphere, 2021, 266, 128983.	8.2	42
4	Cellulosimicrobium funkei strain AR6 alleviate Cr(VI) toxicity in Lycopersicon esculentum by regulating the expression of growth responsible, stress tolerant and metal transporter genes. Rhizosphere, 2021, 18, 100351.	3.0	12
5	Enhanced phytoextraction of multi-metal contaminated soils under increased atmospheric temperature by bioaugmentation with plant growth promoting Bacillus cereus. Journal of Environmental Management, 2021, 289, 112553.	7.8	22
6	Valorization of agricultural residues: Different biorefinery routes. Journal of Environmental Chemical Engineering, 2021, 9, 105435.	6.7	50
7	Synergistic effect of ACC deaminase producing Pseudomonas sp. TR15a and siderophore producing Bacillus aerophilus TR15c for enhanced growth and copper accumulation in Helianthus annuus L. Chemosphere, 2021, 276, 130038.	8.2	47
8	Understanding the molecular mechanisms for the enhanced phytoremediation of heavy metals through plant growth promoting rhizobacteria: A review. Journal of Environmental Management, 2020, 254, 109779.	7.8	248
9	Amelioration of chromium and heat stresses in Sorghum bicolor by Cr6+ reducing-thermotolerant plant growth promoting bacteria. Chemosphere, 2020, 244, 125521.	8.2	75
10	Potential of plant beneficial bacteria and arbuscular mycorrhizal fungi in phytoremediation of metal-contaminated saline soils. Journal of Hazardous Materials, 2019, 379, 120813.	12.4	146
11	Synthesis of water-soluble and bio-taggable CdSe@ZnS quantum dots. RSC Advances, 2018, 8, 8516-8527.	3.6	30
12	Alleviation of environmental stress in plants: The role of beneficial <i>Pseudomonas</i> spp.. Critical Reviews in Environmental Science and Technology, 2017, 47, 372-407.	12.8	45
13	Serpentine endophytic bacterium Pseudomonas azotoformans ASS1 accelerates phytoremediation of soil metals under drought stress. Chemosphere, 2017, 185, 75-85.	8.2	93
14	Inoculation of Brassica oxyrrhina with plant growth promoting bacteria for the improvement of heavy metal phytoextraction under drought conditions. Journal of Hazardous Materials, 2016, 320, 36-44.	12.4	205
15	Beneficial role of bacterial endophytes in heavy metal phytoextraction. Journal of Environmental Management, 2016, 174, 14-25.	7.8	490
16	Inoculation with Metal-Mobilizing Plant-Growth-Promoting Rhizobacterium <i>Bacillus</i> sp. SC2b and Its Role in Rhizoremediation. Journal of Toxicology and Environmental Health - Part A: Current Issues, 2015, 78, 931-944.	2.3	67
17	The hyperaccumulator Sedum plumbizincicola harbors metal-resistant endophytic bacteria that improve its phytoextraction capacity in multi-metal contaminated soil. Journal of Environmental Management, 2015, 156, 62-69.	7.8	251
18	Serpentine bacteria influence metal translocation and bioconcentration of Brassica juncea and Ricinus communis grown in multi-metal polluted soils. Frontiers in Plant Science, 2014, 5, 757.	3.6	79

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19	Climate change driven plant-metal-microbe interactions. <i>Environment International</i> , 2013, 53, 74-86.	10.0	188
20	Improvement of Ni phytostabilization by inoculation of Ni resistant <i>Bacillus megaterium</i> SR28C. <i>Journal of Environmental Management</i> , 2013, 128, 973-980.	7.8	96
21	Phytoextraction of heavy metal polluted soils using <i>Sedum plumbizincicola</i> inoculated with metal mobilizing <i>Phyllobacterium myrsinacearum</i> RC6b. <i>Chemosphere</i> , 2013, 93, 1386-1392.	8.2	133
22	Detection of Soil Organic Nitrogen in Xylem Sap Collected from Nonmycorrhizal Plants using an Immunological Technique. <i>Communications in Soil Science and Plant Analysis</i> , 2012, 43, 2669-2678.	1.4	0
23	Perspectives of plant-associated microbes in heavy metal phytoremediation. <i>Biotechnology Advances</i> , 2012, 30, 1562-1574.	11.7	785
24	Assessment of potentially reactive pools of aluminum in Andisols using a five-step sequential extraction procedure. <i>Soil Science and Plant Nutrition</i> , 2011, 57, 500-507.	1.9	18
25	Inoculation of endophytic bacteria on host and non-host plants-Effects on plant growth and Ni uptake. <i>Journal of Hazardous Materials</i> , 2011, 195, 230-237.	12.4	312
26	Potential of siderophore-producing bacteria for improving heavy metal phytoextraction. <i>Trends in Biotechnology</i> , 2010, 28, 142-149.	9.3	927
27	Inoculation of plant growth promoting bacterium <i>Achromobacter xylosoxidans</i> strain Ax10 for the improvement of copper phytoextraction by <i>Brassica juncea</i> . <i>Journal of Environmental Management</i> , 2009, 90, 831-837.	7.8	247
28	Improvement of plant growth and nickel uptake by nickel resistant-plant-growth promoting bacteria. <i>Journal of Hazardous Materials</i> , 2009, 166, 1154-1161.	12.4	194
29	Biotechnological applications of serpentine soil bacteria for phytoremediation of trace metals. <i>Critical Reviews in Biotechnology</i> , 2009, 29, 120-130.	9.0	129
30	Isolation and characterization of Ni mobilizing PGPB from serpentine soils and their potential in promoting plant growth and Ni accumulation by <i>Brassica</i> spp.. <i>Chemosphere</i> , 2009, 75, 719-725.	8.2	127
31	Endophytic bacteria and their potential to enhance heavy metal phytoextraction. <i>Chemosphere</i> , 2009, 77, 153-160.	8.2	351
32	Preparation, characterization, bioactive and metal uptake studies of alginate/phosphorylated chitin blend films. <i>International Journal of Biological Macromolecules</i> , 2009, 44, 107-111.	7.5	67
33	Bioactive and metal uptake studies of carboxymethyl chitosan-graft-d-glucuronic acid membranes for tissue engineering and environmental applications. <i>International Journal of Biological Macromolecules</i> , 2009, 45, 135-139.	7.5	27
34	Characterization of metal-resistant plant-growth promoting <i>Bacillus weihenstephanensis</i> isolated from serpentine soil in Portugal. <i>Journal of Basic Microbiology</i> , 2008, 48, 500-508.	3.3	101
35	Effects of inoculation of plant-growth promoting bacteria on Ni uptake by Indian mustard. <i>Bioresource Technology</i> , 2008, 99, 3491-3498.	9.6	177
36	Effects of chitin and salicylic acid on biological control activity of <i>Pseudomonas</i> spp. against damping off of pepper. <i>South African Journal of Botany</i> , 2008, 74, 268-273.	2.5	44

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37	Influence of metal resistant-plant growth-promoting bacteria on the growth of <i>Ricinus communis</i> in soil contaminated with heavy metals. <i>Chemosphere</i> , 2008, 71, 834-842.	8.2	300
38	Influence of plant growth promoting bacteria and Cr ⁶⁺ on the growth of Indian mustard. <i>Chemosphere</i> , 2006, 62, 741-748.	8.2	234
39	Molecular Analysis of Korean Isolate of Barley Yellow Mosaic Virus. <i>Virus Genes</i> , 2006, 32, 171-176.	1.6	10
40	Screening of bacterial antagonists for biological control of <i>Phytophthora</i> blight of pepper. <i>Journal of Basic Microbiology</i> , 2005, 45, 55-63.	3.3	55
41	Characterization of a Novel Cr ⁶⁺ Reducing <i>Pseudomonas</i> sp. with Plant Growth Promoting Potential. <i>Current Microbiology</i> , 2005, 50, 266-271.	2.2	92
42	Synthesis, characterization, and antibacterial activity of metal-containing polyurethanes. <i>Journal of Applied Polymer Science</i> , 2004, 91, 288-295.	2.6	40
43	Synthesis and characterization of metal-containing polyurethanes with antibacterial activity. <i>Journal of Applied Polymer Science</i> , 2002, 85, 1194-1206.	2.6	62