

# Mani Rajkumar

## List of Publications by Citations

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43  
papers

5,171  
citations

29  
h-index

44  
g-index

44  
ext. papers

5,805  
ext. citations

7.3  
avg, IF

5.99  
L-index

#	Paper	IF	Citations
43	Potential of siderophore-producing bacteria for improving heavy metal phytoextraction. <i>Trends in Biotechnology</i> , <b>2010</b> , 28, 142-9	15.1	737
42	Perspectives of plant-associated microbes in heavy metal phytoremediation. <i>Biotechnology Advances</i> , <b>2012</b> , 30, 1562-74	17.8	649
41	Beneficial role of bacterial endophytes in heavy metal phytoremediation. <i>Journal of Environmental Management</i> , <b>2016</b> , 174, 14-25	7.9	343
40	Endophytic bacteria and their potential to enhance heavy metal phytoextraction. <i>Chemosphere</i> , <b>2009</b> , 77, 153-60	8.4	300
39	Inoculation of endophytic bacteria on host and non-host plants--effects on plant growth and Ni uptake. <i>Journal of Hazardous Materials</i> , <b>2011</b> , 195, 230-7	12.8	265
38	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> , <b>2008</b> , 71, 834-42	8.4	264
37	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> , <b>2009</b> , 90, 831-7	7.9	212
36	Influence of plant growth promoting bacteria and Cr6+ on the growth of Indian mustard. <i>Chemosphere</i> , <b>2006</b> , 62, 741-8	8.4	203
35	The hyperaccumulator <i>Sedum plumbizincicola</i> harbors metal-resistant endophytic bacteria that improve its phytoextraction capacity in multi-metal contaminated soil. <i>Journal of Environmental Management</i> , <b>2015</b> , 156, 62-9	7.9	194
34	Improvement of plant growth and nickel uptake by nickel resistant-plant-growth promoting bacteria. <i>Journal of Hazardous Materials</i> , <b>2009</b> , 166, 1154-61	12.8	176
33	Effects of inoculation of plant-growth promoting bacteria on Ni uptake by Indian mustard. <i>Bioresource Technology</i> , <b>2008</b> , 99, 3491-8	11	151
32	Inoculation of <i>Brassica oxyrrhina</i> with plant growth promoting bacteria for the improvement of heavy metal phytoremediation under drought conditions. <i>Journal of Hazardous Materials</i> , <b>2016</b> , 320, 36-44	12.8	150
31	Climate change driven plant-metal-microbe interactions. <i>Environment International</i> , <b>2013</b> , 53, 74-86	12.9	149
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> , <b>2009</b> , 75, 719-25	8.4	114
29	Phytoextraction of heavy metal polluted soils using <i>Sedum plumbizincicola</i> inoculated with metal mobilizing <i>Phyllobacterium myrsinacearum</i> RC6b. <i>Chemosphere</i> , <b>2013</b> , 93, 1386-92	8.4	112
28	Biotechnological applications of serpentine soil bacteria for phytoremediation of trace metals. <i>Critical Reviews in Biotechnology</i> , <b>2009</b> , 29, 120-30	9.4	111
27	Understanding the molecular mechanisms for the enhanced phytoremediation of heavy metals through plant growth promoting rhizobacteria: A review. <i>Journal of Environmental Management</i> , <b>2020</b> , 254, 109779	7.9	108

26	Characterization of a novel Cr <sup>6+</sup> reducing <i>Pseudomonas</i> sp. with plant growth-promoting potential. <i>Current Microbiology</i> , <b>2005</b> , 50, 266-71	2.4	85
25	Characterization of metal-resistant plant-growth promoting <i>Bacillus weihenstephanensis</i> isolated from serpentine soil in Portugal. <i>Journal of Basic Microbiology</i> , <b>2008</b> , 48, 500-8	2.7	84
24	Potential of plant beneficial bacteria and arbuscular mycorrhizal fungi in phytoremediation of metal-contaminated saline soils. <i>Journal of Hazardous Materials</i> , <b>2019</b> , 379, 120813	12.8	81
23	Improvement of Ni phytostabilization by inoculation of Ni resistant <i>Bacillus megaterium</i> SR28C. <i>Journal of Environmental Management</i> , <b>2013</b> , 128, 973-80	7.9	79
22	Preparation, characterization, bioactive and metal uptake studies of alginate/phosphorylated chitin blend films. <i>International Journal of Biological Macromolecules</i> , <b>2009</b> , 44, 107-11	7.9	61
21	Serpentine endophytic bacterium <i>Pseudomonas azotoformans</i> ASS1 accelerates phytoremediation of soil metals under drought stress. <i>Chemosphere</i> , <b>2017</b> , 185, 75-85	8.4	56
20	Synthesis and characterization of metal-containing polyurethanes with antibacterial activity. <i>Journal of Applied Polymer Science</i> , <b>2002</b> , 85, 1194-1206	2.9	56
19	Inoculation with Metal-Mobilizing Plant-Growth-Promoting Rhizobacterium <i>Bacillus</i> sp. SC2b and Its Role in Rhizoremediation. <i>Journal of Toxicology and Environmental Health - Part A: Current Issues</i> , <b>2015</b> , 78, 931-44	3.2	53
18	Serpentine bacteria influence metal translocation and bioconcentration of <i>Brassica juncea</i> and <i>Ricinus communis</i> grown in multi-metal polluted soils. <i>Frontiers in Plant Science</i> , <b>2014</b> , 5, 757	6.2	53
17	Screening of bacterial antagonists for biological control of Phytophthora blight of pepper. <i>Journal of Basic Microbiology</i> , <b>2005</b> , 45, 55-63	2.7	40
16	Synthesis, characterization, and antibacterial activity of metal-containing polyurethanes. <i>Journal of Applied Polymer Science</i> , <b>2004</b> , 91, 288-295	2.9	38
15	Amelioration of chromium and heat stresses in <i>Sorghum bicolor</i> by Cr reducing-thermotolerant plant growth promoting bacteria. <i>Chemosphere</i> , <b>2020</b> , 244, 125521	8.4	31
14	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> , <b>2008</b> , 74, 268-273	2.9	28
13	Alleviation of environmental stress in plants: The role of beneficial <i>Pseudomonas</i> spp.. <i>Critical Reviews in Environmental Science and Technology</i> , <b>2017</b> , 47, 372-407	11.1	24
12	Synthesis of water-soluble and bio-taggable CdSe@ZnS quantum dots.. <i>RSC Advances</i> , <b>2018</b> , 8, 8516-8523	3.7	24
11	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> , <b>2009</b> , 45, 135-9	7.9	24
10	Valorization of agricultural residues: Different biorefinery routes. <i>Journal of Environmental Chemical Engineering</i> , <b>2021</b> , 9, 105435	6.8	22
9	Assessment of potentially reactive pools of aluminum in Andisols using a five-step sequential extraction procedure. <i>Soil Science and Plant Nutrition</i> , <b>2011</b> , 57, 500-507	1.6	16

8	Bioaugmentation with copper tolerant endophyte <i>Pseudomonas lurida</i> strain EOO26 for improved plant growth and copper phytoremediation by <i>Helianthus annuus</i> . <i>Chemosphere</i> , <b>2021</b> , 266, 128983	8.4	16
7	Synergistic effect of ACC deaminase producing <i>Pseudomonas</i> sp. TR15a and siderophore producing <i>Bacillus aerophilus</i> TR15c for enhanced growth and copper accumulation in <i>Helianthus annuus</i> L. <i>Chemosphere</i> , <b>2021</b> , 276, 130038	8.4	15
6	Molecular analysis of Korean isolate of barley yellow mosaic virus. <i>Virus Genes</i> , <b>2006</b> , 32, 171-6	2.3	10
5	Enhanced phytoextraction of multi-metal contaminated soils under increased atmospheric temperature by bioaugmentation with plant growth promoting <i>Bacillus cereus</i> . <i>Journal of Environmental Management</i> , <b>2021</b> , 289, 112553	7.9	9
4	<i>Cellulosimicrobium funkei</i> strain AR6 alleviate Cr(VI) toxicity in <i>Lycopersicon esculentum</i> by regulating the expression of growth responsible, stress tolerant and metal transporter genes. <i>Rhizosphere</i> , <b>2021</b> , 18, 100351	3.5	5
3	Plant growth promoting bacteria improve growth and phytostabilization potential of <i>Zea mays</i> under chromium and drought stress by altering photosynthetic and antioxidant responses. <i>Environmental Technology and Innovation</i> , <b>2022</b> , 25, 102154	7	3
2	Synergism of Industrial and Agricultural Waste as a Suitable Carrier Material for Developing Potential Biofertilizer for Sustainable Agricultural Production of Eggplant. <i>Horticulturae</i> , <b>2022</b> , 8, 444	2.5	0
1	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> , <b>2012</b> , 43, 2669-2678	1.5	