Piyush Pandey

List of Publications by Year
in descending order

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90	2,371	201674	243625
papers	citations	27	44
		h-index	g-index

93	93	93	2608
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Bioremediation of polyaromatic hydrocarbons (PAHs) using rhizosphere technology. Brazilian Journal of Microbiology, 2015, 46, 7-21.	2.0	181
2	Volatile Organic Compounds from Native Potato-associated Pseudomonas as Potential Anti-oomycete Agents. Frontiers in Microbiology, 2015, 6, 1295.	3.5	134
3	Biological control of root rot fungus Macrophomina phaseolina and growth enhancement of Pinus roxburghii (Sarg.) by rhizosphere competent Bacillus subtilis BN1. World Journal of Microbiology and Biotechnology, 2008, 24, 1669-1679.	3.6	125
4	Shape dependent physical mutilation and lethal effects of silver nanoparticles on bacteria. Scientific Reports, 2018, 8, 201.	3.3	120
5	Reduction in dose of chemical fertilizers and growth enhancement of sesame (Sesamum indicum L.) with application of rhizospheric competent Pseudomonas aeruginosa LES4. European Journal of Soil Biology, 2009, 45, 334-340.	3.2	88
6	The rhizosphere microbiome: Significance in rhizoremediation of polyaromatic hydrocarbon contaminated soil. Journal of Environmental Management, 2018, 217, 858-870.	7.8	86
7	Algaâ€mediated facile green synthesis of silver nanoparticles: Photophysical, catalytic and antibacterial activity. Applied Organometallic Chemistry, 2020, 34, e5597.	3.5	85
8	Utilization of endophytic strain Bacillus sp. SBER3 for biodegradation of polyaromatic hydrocarbons (PAH) in soil model system. European Journal of Soil Biology, 2014, 60, 67-76.	3.2	76
9	Assessment of bacterial indicators and physicochemical parameters to investigate pollution status of Gangetic river system of Uttarakhand (India). Ecological Indicators, 2008, 8, 709-717.	6.3	66
10	The Endophytic Microbiome as a Hotspot of Synergistic Interactions, with Prospects of Plant Growth Promotion. Biology, 2021, 10, 101.	2.8	66
11	Bacteria consortium optimization improves nutrient uptake, nodulation, disease suppression and growth of the common bean (Phaseolus vulgaris) in both pot and field studies. Rhizosphere, 2016, 2, 13-23.	3.0	57
12	Rhizosphere Competent Pseudomonas aeruginosa GRC1 Produces Characteristic Siderophore and Enhances Growth of Indian Mustard (Brassica campestris). Current Microbiology, 2005, 51, 303-309.	2.2	55
13	Plant Growth-Promoting Endophyte Serratia marcescens AL2-16 Enhances the Growth of Achyranthes aspera L., a Medicinal Plant. HAYATI Journal of Biosciences, 2016, 23, 173-180.	0.4	52
14	Bioformulation of Burkholderia sp. MSSP with a multispecies consortium for growth promotion of Cajanus cajan. Canadian Journal of Microbiology, 2007, 53, 213-222.	1.7	50
15	AcrAB-TolC efflux pump system plays a role in carbapenem non-susceptibility in Escherichia coli. BMC Microbiology, 2019, 19, 210.	3.3	50
16	Biodegradation of naphthalene and anthracene by chemo-tactically active rhizobacteria of populus deltoides. Brazilian Journal of Microbiology, 2010, 41, 922-930.	2.0	47
17	Cadmium resistant plant growth promoting rhizobacteria Serratia marcescens S2I7 associated with the growth promotion of rice plant. Environmental Sustainability, 2019, 2, 135-144.	2.8	46
18	The Endophytic Symbiontâ€"Pseudomonas aeruginosa Stimulates the Antioxidant Activity and Growth of Achyranthes aspera L.. Frontiers in Microbiology, 2017, 8, 1897.	3.5	44

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19	Multifarious activity of bioformulated Pseudomonas fluorescens PS1 and biocontrol of Sclerotinia sclerotiorum in Indian rapeseed (Brassica campestris L.). European Journal of Plant Pathology, 2011, 131, 81-93.	1.7	41
20	Emerging Role of Plant Growth Promoting Rhizobacteria in Agrobiology. , 2011, , 1-36.		40
21	Biodegradation of Benzo(a)pyrene by biofilm forming and plant growth promoting Acinetobacter sp. strain<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si45.gif" display="inline" id="mml45" overflow="scroll"><mml:msub><mml:mrow><mml:mi mathvariant="normal">PDB</mml:mi></mml:mrow><mml:mrow><mml:mn>4</mml:mn></mml:mrow></mml:msub></mml:math>.. Environmental Technology and Innovation, 2017, 8, 256-268.	6.1	40
22	Rhizoremediation prospects of Polyaromatic hydrocarbon degrading rhizobacteria, that facilitate glutathione and glutathione-S-transferase mediated stress response, and enhance growth of rice plants in pyrene contaminated soil. Ecotoxicology and Environmental Safety, 2018, 164, 579-588.	6.0	37
23	Rhizosphere assisted bioengineering approaches for the mitigation of petroleum hydrocarbons contamination in soil. Critical Reviews in Biotechnology, 2021, 41, 749-766.	9.0	33
24	Host specific endophytic microbiome diversity and associated functions in three varieties of scented black rice are dependent on growth stage. Scientific Reports, 2021, 11, 12259.	3.3	33
25	Co-inoculation of Urea and DAP Tolerant Sinorhizobium meliloti and Pseudomonas aeruginosa as Integrated Approach for Growth Enhancement of Brassica juncea. Indian Journal of Microbiology, 2010, 50, 425-431.	2.7	32
26	Rhizosphere mediated biodegradation of 1,4-dichlorobenzene by plant growth promoting rhizobacteria of Jatropha curcas. Ecological Engineering, 2016, 94, 50-56.	3.6	31
27	Genomic insights of aromatic hydrocarbon degrading Klebsiella pneumoniae AWD5 with plant growth promoting attributes: a paradigm of soil isolate with elements of biodegradation. 3 Biotech, 2018, 8, 118.	2.2	31
28	Glutathione and glutathione-S-transferase activity in Jatropha curcas in association with pyrene degrader Pseudomonas aeruginosa PDB1 in rhizosphere, for alleviation of stress induced by polyaromatic hydrocarbon for effective rhizoremediation. Ecological Engineering, 2017, 102, 422-432.	3.6	29
29	Difference in the rhizosphere microbiome of Melia azedarach during removal of benzo(a)pyrene from cadmium co-contaminated soil. Chemosphere, 2020, 258, 127175.	8.2	29
30	Bacilli and Agrobiotechnology. , 2016, , .		25
31	Rhizobacterial community of Jatropha curcas associated with pyrene biodegradation by consortium of PAH-degrading bacteria. Applied Soil Ecology, 2020, 155, 103685.	4.3	24
32	Draft Genome Sequence of Alcaligenes faecalis BDB4, a Polyaromatic Hydrocarbon-Degrading Bacterium Isolated from Crude Oil-Contaminated Soil. Genome Announcements, 2017, 5, .	0.8	21
33	Rhizosphere mediated biodegradation of benzo(A)pyrene by surfactin producing soil bacilli applied through Melia azedarach rhizosphere. International Journal of Phytoremediation, 2020, 22, 363-372.	3.1	21
34	Enrichment of antibiotic resistance genes (ARGs) in polyaromatic hydrocarbonâ€“contaminated soils: a major challenge for environmental health. Environmental Science and Pollution Research, 2021, 28, 12178-12189.	5.3	21
35	Linking gut microbiota with human diseases. Bioinformation, 2020, 16, 196-208.	0.5	21
36	Rhizosphere assisted biodegradation of benzo(a)pyrene by cadmium resistant plant-probiotic Serratia marcescens S2I7, and its genomic traits. Scientific Reports, 2020, 10, 5279.	3.3	19

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37	Screening of actinomycetes from earthworm castings for their antimicrobial activity and industrial enzymes. Brazilian Journal of Microbiology, 2012, 43, 205-214.	2.0	18
38	Consortium of Plant-Growth-Promoting Bacteria: Future Perspective in Agriculture. , 2012, , 185-200.		18
39	A multispecies consortium of bacteria having plant growth promotion and antifungal activities, for the management of Fusarium wilt complex disease in potato (Solanum tuberosum L.). Biocatalysis and Agricultural Biotechnology, 2018, 16, 614-624.	3.1	18
40	Comparative Metagenomic Analysis of Two Alkaline Hot Springs of Madhya Pradesh, India and Deciphering the Extremophiles for Industrial Enzymes. Frontiers in Genetics, 2021, 12, 643423.	2.3	18
41	Rhizosphere competent Pseudomonas aeruginosa in the management of Heterodera cajani on sesame. World Journal of Microbiology and Biotechnology, 2009, 25, 277-285.	3.6	17
42	Paradigm shift in antibiotic-resistome of petroleum hydrocarbon contaminated soil. Science of the Total Environment, 2021, 757, 143777.	8.0	17
43	Title is missing!. World Journal of Microbiology and Biotechnology, 2002, 18, 281-283.	3.6	16
44	Development, spread and persistence of antibiotic resistance genes (ARGs) in the soil microbiomes through co-selection. Reviews on Environmental Health, 2020, 35, 371-378.	2.4	16
45	Draft Genome Sequence of Pseudomonas fragi Strain DBC, Which Has the Ability To Degrade High-Molecular-Weight Polyaromatic Hydrocarbons. Genome Announcements, 2017, 5, .	0.8	14
46	Rhizodegradation of Pyrene by a Non-pathogenic Klebsiella pneumoniae Isolate Applied With Tagetes erecta L. and Changes in the Rhizobacterial Community. Frontiers in Microbiology, 2021, 12, 593023.	3.5	14
47	Environmental applications of microbial extremophiles in the degradation of petroleum hydrocarbons in extreme environments. Environmental Sustainability, 2019, 2, 311-328.	2.8	13
48	Hyperaccumulation of arsenic by Pteris vittata, a potential strategy for phytoremediation of arsenic-contaminated soil. Environmental Sustainability, 2020, 3, 169-178.	2.8	13
49	Composting of rice-residues using lignocellulolytic plant-probiotic Stenotrophomonas maltophilia, and its evaluation for growth enhancement of Oryza sativa L.. Environmental Sustainability, 2018, 1, 185-196.	2.8	12
50	Differences in rice rhizosphere bacterial community structure by application of lignocellulolytic plant-probiotic bacteria with rapid composting traits. Ecological Engineering, 2018, 120, 209-221.	3.6	12
51	Optical and antibacterial properties of synthesised silver nanoparticles. Micro and Nano Letters, 2017, 12, 223-226.	1.3	10
52	Draft Genome Sequence of Polyaromatic Hydrocarbon-Degrading Bacterium Bacillus subtilis SR1, Which Has Plant Growth-Promoting Attributes. Genome Announcements, 2017, 5, .	0.8	10
53	Antibacterial properties of synthesized Ag and Ag@SiO₂ coreâ€“shell nanoparticles: a comparative study. Canadian Journal of Physics, 2018, 96, 955-960.	1.1	10
54	The genomic attributes of Cd-resistant, hydrocarbonoclastic Bacillus subtilis SR1 for rhizodegradation of benzo(a)pyrene under co-contaminated conditions.. Genomics, 2021, 113, 613-623.	2.9	9

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55	Application of Bacillus spp. for Sustainable Cultivation of Potato (Solanum tuberosum L.) and the Benefits. , 2016, , 185-211.		8
56	Unusual rotavirus genotypes in humans and animals with acute diarrhoea in Northeast India. Epidemiology and Infection, 2016, 144, 2780-2789.	2.1	8
57	Draft Genome Sequence of Klebsiella pneumoniae AWD5. Genome Announcements, 2017, 5, .	0.8	8
58	Rhizosphere mediated nutrient management inAllium hookeriThwaites by using phosphate solubilizing rhizobacteria and tricalcium phosphate amended soil. Journal of Plant Interactions, 2018, 13, 256-269.	2.1	8
59	A comparative study on the antibacterial activity of different shaped silver nanoparticles. Chemical Papers, 2021, 75, 4907-4915.	2.2	8
60	Biodegradation of naphthalene and anthracene by chemo-tactically active rhizobacteria of populus deltoides. Brazilian Journal of Microbiology, 2010, 41, 922-30.	2.0	8
61	Editorial: Biodegradation of High Molecular Weight Polyaromatic Hydrocarbons in Different Environments. Frontiers in Microbiology, 2021, 12, 704897.	3.5	7
62	ANTHROPOGENIC ACTIVITIES AS A SOURCE OF HIGH PREVALENCE OF ANTIBIOTIC RESISTANT STAPHYLOCOCCUS AUREUS IN THE RIVER GANGA. Applied Ecology and Environmental Research, 2014, 12, 33-48.	0.5	7
63	Plant-microbe Symbiosis as an Instrument for the Mobilization and Removal of Heavy Metals from Contaminated Soils â€“ A Realistic Approach. Current Biotechnology, 2018, 7, 71-79.	0.4	7
64	Remediation of petroleum hydrocarbon contaminated soil using hydrocarbonoclastic rhizobacteria, applied through Azadirachta indica rhizosphere. International Journal of Phytoremediation, 2022, 24, 1444-1454.	3.1	7
65	The structure-function relationship of bacterial transcriptional regulators as a target for enhanced biodegradation of aromatic hydrocarbons. Microbiological Research, 2022, 262, 127087.	5.3	7
66	Ecofriendly Management of Charcoal Rot and Fusarium Wilt Diseases in Sesame (Sesamum indicum L.). , 2011, , 387-405.		6
67	Transformation of pWWO in Rhizobium leguminosarum DPT to Engineer Toluene Degrading Ability for Rhizoremediation. Indian Journal of Microbiology, 2012, 52, 197-202.	2.7	6
68	Draft Genome Sequence of Heavy Metal-Resistant Soil Bacterium Serratia marcescens S2I7, Which Has the Ability To Degrade Polyaromatic Hydrocarbons. Genome Announcements, 2017, 5, .	0.8	6
69	An array of multiplex PCR assays for detection of staphylococcal chromosomal cassette mec (SCCmec) types among staphylococcal isolates. Journal of Microbiological Methods, 2019, 166, 105733.	1.6	6
70	Characterization of Plant Growth Promoting Rhizobia from Root Nodule of Two Legume Species Cultivated in Assam, India. Proceedings of the National Academy of Sciences India Section B - Biological Sciences, 2018, 88, 1007-1016.	1.0	5
71	Role of Serratia sp. as Biocontrol Agent and Plant Growth Stimulator, with Prospects of Biotic Stress Management in Plant. Microorganisms for Sustainability, 2019, , 169-200.	0.7	5
72	Two cationic meso-thiophenium porphyrins and their zinc-complexes as anti-HIV-1 and antibacterial agents under non-photodynamic therapy (PDT) conditions. Bioorganic and Medicinal Chemistry Letters, 2022, 65, 128699.	2.2	5

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73	Transmission of SARS-CoV-2 in South Asian countries: molecular evolutionary model based phylogenetic and mutation analysis. Environmental Sustainability, 2021, 4, 533-541.	2.8	4
74	Solubilization of Inorganic Rock Phosphate by Rhizobacteria of Allium hookeri Thwaites and Influence of Carbon and Nitrogen Sources Amendments. Journal of Pure and Applied Microbiology, 2017, 11, 1899-1908.	0.9	4
75	COVID-19 pandemic: aggressive research, vaccination, testing, and environmental sustainability are the way forward. Environmental Sustainability, 2021, 4, 443-445.	2.8	3
76	Characterization of plant growth promoting rhizobia from root nodule of Mimosa pudica grown in Assam, India. Journal of Environmental Biology, 2017, 38, 441-447.	0.5	3
77	Microbial Fermentation by Traditional Process using Intrinsic Microflora Reduces the Cyanide Content of Bamboo Shoots. Journal of Pure and Applied Microbiology, 2017, 11, 465-473.	0.9	3
78	Sustainable Approaches for Biological Control of Fusarium Wilt in Pigeon Pea (Cajanus cajan L.) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 54	0.6	2
79	Expressional Pattern of psm-mec System in Methicillin-Resistant Staphylococcus aureus Under Oxacillin Stress. Current Microbiology, 2021, 78, 528-533.	2.2	2
80	Interplay of weather variables in triggering the transmission of SARS-CoV-2 infection in Asia. Environmental Sustainability, 2021, 4, 551-558.	2.8	2
81	Distinctive features gleaned from the comparative genomes analysis of clinical and non-clinical isolates of Klebsiella pneumoniae. Bioinformation, 2020, 16, 256-266.	0.5	2
82	Interactions in Rhizosphere for Bioremediation of Heavy Metals. , 2013, , 439-461.		1
83	Draft Genome Sequence of Bacillus subtilis Strain FB6-3, Isolated from Fermented Bamboo Shoot. Microbiology Resource Announcements, 2018, 7, .	0.6	1
84	Pseudomonas aeruginosa SN4 enhances Seedling Growth of Oryza sativa in Cadmium Contaminated Soil. Current World Environment Journal, 2014, 9, 478-484.	0.5	1
85	Synthesis, Characterization and Antibacterial Effects of Ag@SiO2 Coreâ€“Shell Nanoparticles. Journal of Bionanoscience, 2017, 11, 391-396.	0.4	1
86	Genomic Insights and Comparative Genomics of Bacillus Species Having Diverse Mechanisms of Biocontrol Against Fungal Phytopathogens. Bacilli in Climate Resilient Agriculture and Bioprospecting, 2019, , 217-237.	1.2	1
87	RHIZOREMEDIATION OF POLYAROMATIC HYDROCARBONS BY ARTHROBACTER SP., A RHIZOSPHERIC ISOLATE FROM POPULUS DELTOIDS. , 2009, , .		0
88	FORMULATION OF AN EFFECTIVE RHIZOBIUM BIOINOCULANT USING GREEN FLUORESCENT PROTEIN REPORTER SYSTEM. , 2009, , .		0
89	Optical Properties of Synthesized Colloidal Silver Nanoparticles and Their Antibacterial Effects. Journal of Bionanoscience, 2016, 10, 511-515.	0.4	0
90	Fermentation and Process Optimisation of Soibum-A Traditional Food of Manipur India, Using Serratia sp.. Climate Change and Environmental Sustainability, 2018, 6, 127.	0.3	0