Meenu Saraf

List of Publications by Year
in descending order

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82	2,224	257450 24	243625 44
papers	citations	h-index	g-index

82	82	82	2108
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Proposing a fungal metabolite-flaviolin as a potential inhibitor of 3CL^{pro}of novel coronavirus SARS-CoV-2 identified using docking and molecular dynamics. Journal of Biomolecular Structure and Dynamics, 2022, 40, 348-360.	3.5	20
2	Curse of La Corona: unravelling the scientific and psychological conundrums of the 21st century pandemic. Molecular Diversity, 2022, 26, 555-568.	3.9	8
3	Identifying structuralâ€"functional analogue of GRL0617, the only well-established inhibitor for papain-like protease (PLpro) of SARS-CoV2 from the pool of fungal metabolites using docking and molecular dynamics simulation. Molecular Diversity, 2022, 26, 309-329.	3.9	33
4	Meticulous assessment of natural compounds from NPASS database for identifying analogue of GRL0617, the only known inhibitor for SARS-CoV2 papain-like protease (PLpro) using rigorous computational workflow. Molecular Diversity, 2022, 26, 389-407.	3.9	18
5	An Anecdote on Prospective Protein Targets for Developing Novel Plant Growth Regulators. Molecular Biotechnology, 2022, 64, 109-129.	2.4	0
6	Repurposing the antibacterial drugs for inhibition of SARS-CoV2-PLpro using molecular docking, MD simulation and binding energy calculation. Molecular Diversity, 2022, 26, 2189-2209.	3.9	8
7	Host plant rhizo-microbiome interactions: Seasonal variation and microbial community structure analysis associated with Barleria prionitis. Ecological Genetics and Genomics, 2022, 22, 100109.	0.5	1
8	Perceiving SARS-CoV-2 Mpro and PLpro dual inhibitors from pool of recognized antiviral compounds of endophytic microbes: an in silico simulation study. Structural Chemistry, 2022, 33, 1619-1643.	2.0	8
9	Polyhydroxyalkanoates: An Exotic Gleam in the Gloomy Tale of Plastics. Journal of Polymers and the Environment, 2021, 29, 2013-2032.	5.0	14
10	Exemplifying an archetypal thorium-EPS complexation by novel thoriotolerant Providencia thoriotolerans AM3. Scientific Reports, 2021, 11, 3189.	3.3	16
11	Bacterial Indole-3-Acetic Acid Influences Soil Nitrogen Acquisition in Barley and Chickpea. Plants, 2021, 10, 780.	3.5	12
12	Genomic appraisal of Klebsiella PGPB isolated from soil to enhance the growth of barley. Genes and Genomics, 2021, 43, 869-883.	1.4	1
13	Decoding the mojo of plant-growth-promoting microbiomes. Physiological and Molecular Plant Pathology, 2021, 115, 101687.	2.5	18
14	Sterenin M as a potential inhibitor of SARS-CoV-2 main protease identified from MeFSAT database using molecular docking, molecular dynamics simulation and binding free energy calculation. Computers in Biology and Medicine, 2021, 135, 104568.	7.0	22
15	Microbial enzyme, 1-aminocyclopropane-1-carboxylic acid (ACC) deaminase: An elixir for plant under stress. Physiological and Molecular Plant Pathology, 2021, 115, 101664.	2.5	10
16	Breaking bad: Better call gingerol for improving antibiotic susceptibility of Pseudomonas aeruginosa by inhibiting multiple quorum sensing pathways. Microbiological Research, 2021, 252, 126863.	5.3	26
17	Microbial technologies in textile industries: an elixir for the greener environment. , 2021, , 173-189.		2
18	Exemplifying the next generation of antibiotic susceptibility intensifiers of phytochemicals by LasR-mediated quorum sensing inhibition. Scientific Reports, 2021, 11, 22421.	3.3	23

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19	Articulating the exuberant intricacies of bacterial exopolysaccharides to purge environmental pollutants. Heliyon, 2021, 7, e08446.	3.2	13
20	Synergistic effect of endophytic selenobacteria on biofortification and growth of Glycine max under drought stress. South African Journal of Botany, 2020, 134, 27-35.	2.5	28
21	Characterization of novel thorium tolerant Ochrobactrum intermedium AM7 in consort with assessing its EPS-Thorium binding. Journal of Hazardous Materials, 2020, 388, 122047.	12.4	26
22	Role of lipopolysaccaride extracted from Alcaligenes faecalis as elicitor for the induction of plant defense against fusarium wilt. Journal of Plant Pathology, 2020, 102, 351-357.	1.2	2
23	Biosynthesis and purification of indole-3-acetic acid by halotolerant rhizobacteria isolated from Little Runn of Kachchh. Biocatalysis and Agricultural Biotechnology, 2020, 23, 101435.	3.1	12
24	Revisiting the plant growth-promoting rhizobacteria: lessons from the past and objectives for the future. Archives of Microbiology, 2020, 202, 665-676.	2.2	60
25	Walking through the wonder years of artificial DNA: peptide nucleic acid. Molecular Biology Reports, 2020, 47, 8113-8131.	2.3	9
26	Optimization of cadmium and lead biosorption onto marine Vibrio alginolyticus PBR1 employing a Box-Behnken design. Chemical Engineering Journal Advances, 2020, 4, 100043.	5.2	16
27	Enhanced detection of heavy metals using Vibrio alginolyticus PBR1 by optimizing luminescence medium through statistical modeling. Environmental Sustainability, 2020, 3, 437-452.	2.8	0
28	Comprehensive depiction of novel heavy metal tolerant and EPS producing bioluminescent Vibrio alginolyticus PBR1 and V. rotiferianus PBL1 confined from marine organisms. Microbiological Research, 2020, 238, 126526.	5.3	17
29	Microbes as a boon for the bane of heavy metals. Environmental Sustainability, 2020, 3, 233-255.	2.8	12
30	Reckoning a fungal metabolite, Pyranonigrin A as a potential Main protease (Mpro) inhibitor of novel SARS-CoV-2 virus identified using docking and molecular dynamics simulation. Biophysical Chemistry, 2020, 264, 106425.	2.8	54
31	The rise of gingerol as anti-QS molecule: Darkest episode in the LuxR-mediated bioluminescence saga. Bioorganic Chemistry, 2020, 99, 103823.	4.1	23
32	Twin Peaks: Presenting the Antagonistic Molecular Interplay of Curcumin with LasR and LuxR Quorum Sensing Pathways. Current Microbiology, 2020, 77, 1800-1810.	2.2	23
33	Depicting the exemplary knowledge of microbial exopolysaccharides in a nutshell. European Polymer Journal, 2019, 119, 298-310.	5.4	52
34	Isolation and screening of bacteria from radionuclide containing soil for bioremediation of contaminated sites. Environmental Sustainability, 2019, 2, 255-264.	2.8	9
35	Plant Growth-Promoting Rhizobacteria (PGPR) as Protagonists of Ever-Sustained Agriculture: An Introduction. Sustainable Development and Biodiversity, 2019, , 1-10.	1.7	5
36	Rhizospheric Microflora: A Natural Alleviator of Drought Stress in Agricultural Crops. Microorganisms for Sustainability, 2019, , 103-115.	0.7	8

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37	Analysis of indole-3-acetic acid (IAA) production in Klebsiella by LC-MS/MS and the Salkowski method. Bio-protocol, 2019, 9, e3230.	0.4	71
38	Selenorhizobacteria : As biofortification tool in sustainable agriculture. Biocatalysis and Agricultural Biotechnology, 2018, 14, 198-203.	3.1	25
39	Mutualism between Klebsiella SGM 81 and Dianthus caryophyllus in modulating root plasticity and rhizospheric bacterial density. Plant and Soil, 2018, 424, 273-288.	3.7	22
40	Iron biofortification in mungbean using siderophore producing plant growth promoting bacteria. Environmental Sustainability, 2018, 1, 357-365.	2.8	56
41	Interaction of root colonizing biocontrol agents demonstrates the antagonistic effect against Fusarium oxysporum f. sp. lycopersici on tomato. European Journal of Plant Pathology, 2017, 149, 425-433.	1.7	14
42	Biocontrol efficacy ofTrichodermaasperellum MSST against tomato wilting byFusarium oxysporumf. sp.lycopersici. Archives of Phytopathology and Plant Protection, 2017, 50, 228-238.	1.3	38
43	Strategic enhancement of Desertifilum tharense MSAK01 on dairy wastewater: an integrated approach for remediation and biomass production. Applied Water Science, 2017, 7, 2779-2785.	5.6	3
44	Biofortification of Triticum aestivum through the inoculation of zinc solubilizing plant growth promoting rhizobacteria in field experiment. Biocatalysis and Agricultural Biotechnology, 2017, 9, 120-126.	3.1	66
45	Radiation, radionuclides and bacteria: An in-perspective review. Journal of Environmental Radioactivity, 2017, 180, 27-35.	1.7	74
46	Unravelling the Interaction of Plant and Their Phyllosphere Microbiome. , 2017, , 157-172.		3
47	Elicitation of plant defense enzymes against Fusarium oxysporum f. sp. lycopersici in tomato plant using a novel rhizobacteria Providencia rettgeri MSS2. Biocatalysis and Agricultural Biotechnology, 2017, 12, 308-313.	3.1	2
48	Biosynthesis of phytohormones from novel rhizobacterial isolates and their in vitro plant growth-promoting efficacy. Journal of Plant Interactions, 2017, 12, 480-487.	2.1	85
49	Multifarious allelochemicals exhibiting antifungal activity from Bacillus subtilis MBCU5. 3 Biotech, 2017, 7, 175.	2.2	4
50	Bacterial Determinants and Plant Defense Induction: Their Role as Biocontrol Agents in Sustainable Agriculture. , 2016, , 187-204.		7
51	Antifungal Compounds from Pseudomonads and the Study of Their Molecular Features for Disease Suppression Against Soil Borne Pathogens. , 2015, , 179-192.		2
52	Development of microbial consortia as a biocontrol agent for effective management of fungal diseases inGlycine maxL.. Archives of Phytopathology and Plant Protection, 2015, 48, 459-474.	1.3	40
53	Perspectives and Application of Halophilic Enzymes. Sustainable Development and Biodiversity, 2015, , 403-419.	1.7	9
54	Purification and characterization of antifungal chitinase from Bacillus safensis MBCU6 and its application for production of chito-oligosaccharides. Biologia (Poland), 2015, 70, 863-868.	1.5	10

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55	Isolation and identification of allelochemicals produced by B. sonorensis for suppression of charcoal rot of Arachis hypogaea L.. Journal of Basic Microbiology, 2015, 55, 635-644.	3.3	14
56	Emergence of Methylobacterium spp. as Potential Organism in Agroecosystems. Sustainable Development and Biodiversity, 2015, , 53-68.	1.7	1
57	Application of Statistically Based Experimental Designs to Optimize Cellulase Production and Identification of Gene. Natural Products and Bioprospecting, 2014, 4, 341-351.	4.3	20
58	In Vitro Evaluation of PGPR Strains for Their Biocontrol Potential Against Fungal Pathogens. , 2014, , 293-305.		5
59	Role of allelochemicals in plant growth promoting rhizobacteria for biocontrol of phytopathogens. Microbiological Research, 2014, 169, 18-29.	5.3	225
60	Comparative Study of Different Soil Amendments andÂMicrobes for Integrated Nutrient Management andÂGrowth Promotion ofJatropha Curcas. Journal of Plant Nutrition, 2014, 37, 2209-2226.	1.9	5
61	Assessment of ecological diversity of rhizobacterial communities in vermicompost and analysis of their potential to improve plant growth. Biologia (Poland), 2014, 69, 968-976.	1.5	13
62	Influence of soil ameliorants and microflora on induction of antioxidant enzymes and growth promotion of Jatropha curcas L. under saline condition. European Journal of Soil Biology, 2013, 55, 47-54.	3.2	42
63	Integrated Diseases Management in Groundnut for Sustainable Productivity. , 2013, , 351-377.		3
64	Rhizobacteria for Management of Nematode Disease in Plants. , 2013, , 379-404.		6
65	Potential of Rhizobia in Productivity Enhancement of Macrotyloma uniflorum L. and Phaseolus vulgaris L. Cultivated in the Western Himalaya. , 2013, , 127-165.		7
66	Evaluation and biochemical characterization of a distinctive pyoverdin from a pseudomonas isolated from chickpea rhizosphere. Brazilian Journal of Microbiology, 2012, 43, 639-648.	2.0	40
67	Isolation of Rhizobacteria from Jatropha curcas and characterization of produced ACC deaminase. Journal of Basic Microbiology, 2012, 52, 285-295.	3.3	30
68	Evaluation of Multispecies Plant-Growth-Promoting Consortia for the Growth Promotion of Jatropha curcas L.. Journal of Plant Growth Regulation, 2012, 31, 588-598.	5.1	51
69	Growth Enhancement of Chickpea in Saline Soils Using Plant Growth-Promoting Rhizobacteria. Journal of Plant Growth Regulation, 2012, 31, 53-62.	5.1	63
70	Stimulation of the growth of Jatropha curcas by the plant growth promoting bacterium Enterobacter cancerogenus MSA2. World Journal of Microbiology and Biotechnology, 2012, 28, 891-899.	3.6	67
71	Nutrient Availability and Management in the Rhizosphere by Microorganisms. , 2012, , 301-326.		11
72	Hormonal Signaling by PGPR Improves Plant Health Under Stress Conditions. , 2012, , 119-140.		3

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73	Perspectives of PGPR in Agri-Ecosystems. , 2011, , 361-385.		8
74	Combinatorial assessment on dominance and informative diversity of PGPR from rhizosphere of Jatropha curcas L.. Journal of Basic Microbiology, 2010, 50, 211-217.	3.3	35
75	Salinity-resistant plant growth promoting rhizobacteria ameliorates sodium chloride stress on tomato plants. Journal of Plant Interactions, 2010, 5, 51-58.	2.1	293
76	The Role of ACC Deaminase Producing PGPR in Sustainable Agriculture. Microbiology Monographs, 2010, , 365-385.	0.6	27
77	Enhancement of plant growth and decontamination of nickelâ€spiked soil using PGPR. Journal of Basic Microbiology, 2009, 49, 195-204.	3.3	105
78	Effect of 2,4-D on NR, NiR and Leghaemoglobin Synthesis in Root Nodules Formed by Bradyrhizobium japonicum in Glycine max.. Microbes and Environments, 1999, 14, 219-225.	1.6	1
79	Effect of carbaryl and 2,4-D to nitrogenase and uptake hydrogenase in agar cultures and root nodules formed by Rhizobium leguminosarum.. Journal of General and Applied Microbiology, 1994, 40, 569-574.	0.7	5
80	Effects of carbaryl and 2,4-D on growth, nitrogenase and uptake hydrogenase activity in agar culture and root nodules formed by Bradyrhizobium japonicum. Microbiological Research, 1994, 149, 401-406.	5.3	4
81	Evaluation of selenium biofortification strategies in Phaseolus vulgaris through selenocysteine methyltransferase gene expression. Environmental Sustainability, 0, , 1.	2.8	0
82	COMPREHENSIVE EVALUATION OF EXPRESSION PLATFORM: CHERRY PICKING THE â€˜RIGHTâ€™ TO ACCOMPLISH THE â€˜BEST. Towards Excellence, 0, , 143-165.	0.0	0