

Dweipayan Goswami

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55 papers	941 citations	13 h-index	30 g-index
57 ext. papers	1,279 ext. citations	3.7 avg, IF	4.97 L-index

#	Paper	IF	Citations
55	Screening of PGPR from saline desert of Kutch: growth promotion in <i>Arachis hypogea</i> by <i>Bacillus licheniformis</i> A2. <i>Microbiological Research</i> , 2014 , 169, 66-75	5.3	192
54	Portraying mechanics of plant growth promoting rhizobacteria (PGPR): A review. <i>Cogent Food and Agriculture</i> , 2016 , 2,	1.8	191
53	Plant growth promoting potentials of <i>Pseudomonas</i> spp. strain OG isolated from marine water. <i>Journal of Plant Interactions</i> , 2013 , 8, 281-290	3.8	73
52	Delineating <i>Kocuria turfanensis</i> 2M4 as a credible PGPR: a novel IAA-producing bacteria isolated from saline desert. <i>Journal of Plant Interactions</i> , 2014 , 9, 566-576	3.8	61
51	Simultaneous detection and quantification of indole-3-acetic acid (IAA) and indole-3-butyric acid (IBA) produced by rhizobacteria from l-tryptophan (Trp) using HPTLC. <i>Journal of Microbiological Methods</i> , 2015 , 110, 7-14	2.8	50
50	Reckoning a fungal metabolite, Pyranonigrin A as a potential Main protease (M) inhibitor of novel SARS-CoV-2 virus identified using docking and molecular dynamics simulation. <i>Biophysical Chemistry</i> , 2020 , 264, 106425	3.5	41
49	Describing <i>Paenibacillus mucilaginosus</i> strain N3 as an efficient plant growth promoting rhizobacteria (PGPR). <i>Cogent Food and Agriculture</i> , 2015 , 1, 1000714	1.8	41
48	Elucidating multifaceted urease producing marine <i>Pseudomonas aeruginosa</i> BG as a cogent PGPR and bio-control agent. <i>Plant Growth Regulation</i> , 2015 , 75, 253-263	3.2	35
47	Proposing a fungal metabolite-flaviolin as a potential inhibitor of 3CL of novel coronavirus SARS-CoV-2 identified using docking and molecular dynamics. <i>Journal of Biomolecular Structure and Dynamics</i> , 2020 , 1-13	3.6	19
46	Pinpointing the potential hits for hindering interaction of SARS-CoV-2 S-protein with ACE2 from the pool of antiviral phytochemicals utilizing molecular docking and molecular dynamics (MD) simulations. <i>Journal of Molecular Graphics and Modelling</i> , 2021 , 105, 107874	2.8	19
45	The rise of gingerol as anti-QS molecule: Darkest episode in the LuxR-mediated bioluminescence saga. <i>Bioorganic Chemistry</i> , 2020 , 99, 103823	5.1	17
44	Identifying structural-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. <i>Molecular Diversity</i> , 2021 , 1	3.1	17
43	Characterization of novel thorium tolerant <i>Ochrobactrum intermedium</i> AM7 in consort with assessing its EPS-Thorium binding. <i>Journal of Hazardous Materials</i> , 2020 , 388, 122047	12.8	16
42	Twin Peaks: Presenting the Antagonistic Molecular Interplay of Curcumin with LasR and LuxR Quorum Sensing Pathways. <i>Current Microbiology</i> , 2020 , 77, 1800-1810	2.4	13
41	Steren 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. <i>Computers in Biology and Medicine</i> , 2021 , 135, 104568	7	13
40	Soil property apotheosis to corral the finest compressive strength of unbaked adobe bricks. <i>Construction and Building Materials</i> , 2013 , 48, 948-953	6.7	12
39	Edifying the strategy for the finest extraction of succinoglycan from <i>Rhizobium radiobacter</i> strain CAS. <i>Applied Biological Chemistry</i> , 2017 , 60, 339-348	2.9	11

38	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. <i>Molecular Diversity</i> , 2021 , 1	3.1	10
37	Microbes as a boon for the bane of heavy metals. <i>Environmental Sustainability</i> , 2020 , 3, 233-255	2.9	8
36	Techniques to Study Microbial Phytohormones. <i>Sustainable Development and Biodiversity</i> , 2015 , 1-27	2.1	8
35	Polyhydroxyalkanoates: An Exotic Gleam in the Gloomy Tale of Plastics. <i>Journal of Polymers and the Environment</i> , 2021 , 29, 2013-2032	4.5	8
34	Berries anthocyanins as potential SARS-CoV2 inhibitors targeting the viral attachment and replication; molecular docking simulation. <i>Egyptian Journal of Petroleum</i> , 2021 , 30, 33-43	3.4	7
33	Walking through the wonder years of artificial DNA: peptide nucleic acid. <i>Molecular Biology Reports</i> , 2020 , 47, 8113-8131	2.8	6
32	Curse of La Corona: unravelling the scientific and psychological conundrums of the 21st century pandemic. <i>Molecular Diversity</i> , 2021 , 1	3.1	6
31	Exemplifying an archetypal thorium-EPS complexation by novel thoriotolerant <i>Providencia thoriotolerans</i> AM3. <i>Scientific Reports</i> , 2021 , 11, 3189	4.9	6
30	Comprehensive depiction of novel heavy metal tolerant and EPS producing bioluminescent <i>Vibrio alginolyticus</i> PBR1 and <i>V. rotiferianus</i> PBL1 confined from marine organisms. <i>Microbiological Research</i> , 2020 , 238, 126526	5.3	5
29	Reckoning β -Glutamyl-S-allylcysteine as a potential main protease (m) inhibitor of novel SARS-CoV-2 virus identified using docking and molecular dynamics simulation. <i>Drug Development and Industrial Pharmacy</i> , 2021 , 47, 699-710	3.6	5
28	<i>Talaromyces pinophilus</i> strain M13: a portrayal of novel groundbreaking fungal strain for phytointensification. <i>Environmental Science and Pollution Research</i> , 2021 , 28, 8758-8769	5.1	5
27	Breaking bad: Better call gingerol for improving antibiotic susceptibility of <i>Pseudomonas aeruginosa</i> by inhibiting multiple quorum sensing pathways. <i>Microbiological Research</i> , 2021 , 252, 126863	5.3	5
26	Optimization of cadmium and lead biosorption onto marine <i>Vibrio alginolyticus</i> PBR1 employing a Box-Behnken design. <i>Chemical Engineering Journal Advances</i> , 2020 , 4, 100043	3.6	4
25	Repurposing of anticancer phytochemicals for identifying potential fusion inhibitor for SARS-CoV-2 using molecular docking and molecular dynamics (MD) simulations. <i>Journal of Biomolecular Structure and Dynamics</i> , 2021 , 1-18	3.6	4
24	A resourceful methodology to profile indolic auxins produced by rhizo-fungi using spectrophotometry and HPTLC. <i>3 Biotech</i> , 2018 , 8, 413	2.8	4
23	Exemplifying the next generation of antibiotic susceptibility intensifiers of phytochemicals by LasR-mediated quorum sensing inhibition. <i>Scientific Reports</i> , 2021 , 11, 22421	4.9	3
22	Cry toxins of <i>Bacillus thuringiensis</i> : a glimpse into the Pandora's box for the strategic control of vector borne diseases. <i>Environmental Sustainability</i> , 2021 , 4, 23-37	2.9	3
21	Endophytic fungi: A treasure trove of novel anticancer compounds.. <i>Current Research in Pharmacology and Drug Discovery</i> , 2021 , 2, 100050	3	3

20	Comparative assessment of RNA-dependent RNA polymerase (RdRp) inhibitors under clinical trials to control SARS-CoV2 using rigorous computational workflow.. <i>RSC Advances</i> , 2021 , 11, 29015-29028	3.7	3
19	Unravelling the antifungal mode of action of curcumin by potential inhibition of CYP51B: A computational study validated in vitro on mucormycosis agent, <i>Rhizopus oryzae</i> . <i>Archives of Biochemistry and Biophysics</i> , 2021 , 712, 109048	4.1	3
18	Revealing the molecular interplay of curcumin as <i>Culex pipiens</i> Acetylcholine esterase 1 (AChE1) inhibitor. <i>Scientific Reports</i> , 2021 , 11, 17474	4.9	3
17	Repurposing the antibacterial drugs for inhibition of SARS-CoV2-PLpro using molecular docking, MD simulation and binding energy calculation. <i>Molecular Diversity</i> , 2021 , 1	3.1	3
16	Expanding the Horizons for the Use of <i>Paenibacillus</i> Species as PGPR for Sustainable Agriculture 2016 , 281-307		2
15	Decoding the mojo of plant-growth-promoting microbiomes. <i>Physiological and Molecular Plant Pathology</i> , 2021 , 115, 101687	2.6	2
14	Perceiving SARS-CoV-2 Mpro and PLpro dual inhibitors from pool of recognized antiviral compounds of endophytic microbes: an in silico simulation study.. <i>Structural Chemistry</i> , 2022 , 1-25	1.8	2
13	Microbial enzyme, 1-aminocyclopropane-1-carboxylic acid (ACC) deaminase: An elixir for plant under stress. <i>Physiological and Molecular Plant Pathology</i> , 2021 , 115, 101664	2.6	1
12	Excavating phytochemicals from plants possessing antiviral activities for identifying SARS-CoV hemagglutinin-esterase inhibitors by diligent computational workflow.. <i>Journal of Biomolecular Structure and Dynamics</i> , 2022 , 1-16	3.6	0
11	Phosphorus Solubilization and Mobilization: Mechanisms, Current Developments, and Future Challenge. <i>Microorganisms for Sustainability</i> , 2020 , 1-20	1.1	0
10	Microbial technologies in textile industries: an elixir for the greener environment 2021 , 173-189		0
9	Extending the lore of curcumin as dipteran Butyrylcholine esterase (BChE) inhibitor: A holistic molecular interplay assessment. <i>PLoS ONE</i> , 2022 , 17, e0269036	3.7	0
8	Identification of potential therapeutic targets associated with diagnosis and prognosis of colorectal cancer patients based on integrated bioinformatics analysis. <i>Computers in Biology and Medicine</i> , 2022 , 105688	7	0
7	Profiling Indolic Auxins Produced by the Strains of <i>Aspergillus</i> Using Novel HPTLC Technique 2019 , 49-58		
6	Eccentricity in the Behavior of <i>Penicillium</i> spp. as Phytopathogen and Phytoaugmentor 2020 , 115-138		
5	Assessing mycoparasitic activity exhibited by phyto-friendly-fungi (PFF) in combating phytopathogenic fungi by producing various glucanases 2019 , 259-263		
4	Extraction and characterization of siderophores from <i>Pseudomonas</i> sp. and assessing the PGPR activity of <i>Pseudomonas</i> sp. 2019 , 303-308		
3	Production and characterization of xanthan gum by <i>Xanthomonas campestris</i> using sugarcane bagasse as sole carbon source 2019 , 363-367		

2 Isolation and characterization of lipase producing microbial strain from coastal banks of Bhavnagar
2019, 292-296

1 Enhanced detection of heavy metals using *Vibrio alginolyticus* PBR1 by optimizing luminescence medium through statistical modeling. *Environmental Sustainability*, **2020**, 3, 437-452 2.9