

Ajay Kumar

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/3956482/publications.pdf>

Version: 2024-02-01

101
papers

2,263
citations

279701

23
h-index

265120

42
g-index

103
all docs

103
docs citations

103
times ranked

2473
citing authors

#	ARTICLE	IF	CITATIONS
1	Endophytic bacteria: a new source of bioactive compounds. 3 Biotech, 2017, 7, 315.	1.1	199
2	Nanoparticles in practice for molecular-imaging applications: An overview. Acta Biomaterialia, 2016, 41, 1-16.	4.1	175
3	Disease management of tomato through PGPB: current trends and future perspective. 3 Biotech, 2017, 7, 255.	1.1	135
4	Isolation and characterization of bacterial endophytes of Curcuma longa L.. 3 Biotech, 2016, 6, 60.	1.1	107
5	Interaction of plant growth promoting bacteria with tomato under abiotic stress: A review. Agriculture, Ecosystems and Environment, 2018, 267, 129-140.	2.5	104
6	Isolation of plant growth promoting rhizobacteria and their impact on growth and curcumin content in Curcuma longa L.. Biocatalysis and Agricultural Biotechnology, 2016, 8, 1-7.	1.5	91
7	The Potential Application of Endophytes in Management of Stress from Drought and Salinity in Crop Plants. Microorganisms, 2021, 9, 1729.	1.6	70
8	Microbial Biosurfactant: A New Frontier for Sustainable Agriculture and Pharmaceutical Industries. Antioxidants, 2021, 10, 1472.	2.2	68
9	Isolation and characterization of bacterial endophytes from the roots of Cassia tora L. Annals of Microbiology, 2015, 65, 1391-1399.	1.1	67
10	Irradiation enhanced paramagnetism on graphene nanoflakes. Applied Physics Letters, 2011, 99, 102504.	1.5	64
11	Global analysis of the apple fruit microbiome: are all apples the same?. Environmental Microbiology, 2021, 23, 6038-6055.	1.8	64
12	Thermal stability study of nitrogen functionalities in a graphene network. Journal of Physics Condensed Matter, 2012, 24, 235503.	0.7	55
13	Plant Growth Promoting Rhizobacteria. , 2019, , 41-66.		54
14	Compositional shifts in the strawberry fruit microbiome in response to near-harvest application of Metschnikowia fructicola, a yeast biocontrol agent. Postharvest Biology and Technology, 2021, 175, 111469.	2.9	50
15	Nanotherapeutic Applications for Detection and Targeting Neurodegenerative Diseases. Frontiers in Neuroscience, 2020, 14, 305.	1.4	41
16	Iron oxidizing bacteria: insights on diversity, mechanism of iron oxidation and role in management of metal pollution. Environmental Sustainability, 2018, 1, 221-231.	1.4	40
17	Effect of paddy straw burning on soil microbial dynamics in sandy loam soil of Indo-Gangetic plains. Environmental Technology and Innovation, 2019, 16, 100469.	3.0	35
18	Distribution of cyanobacteria and their interactions with pesticides in paddy field: A comprehensive review. Journal of Environmental Management, 2018, 224, 361-375.	3.8	34

#	ARTICLE	IF	CITATIONS
19	Supplementation of Spirulina (<i>Arthrospira platensis</i>) Improves Lifespan and Locomotor Activity in Paraquat-Sensitive <i>Drosophila melanogaster</i> Flies, a Parkinson's Disease Model in <i>Drosophila melanogaster</i> . <i>Journal of Dietary Supplements</i> , 2017, 14, 573-588.	1.4	32
20	Plant Growth-Promoting Rhizobacteria (PGPR): Perspective in Agriculture Under Biotic and Abiotic Stress. , 2018, , 333-342.		32
21	Interaction of turmeric (<i>Curcuma longa</i> L.) with beneficial microbes: a review. <i>3 Biotech</i> , 2017, 7, 357.	1.1	30
22	An Overview on Carbon Fiber-Reinforced Epoxy Composites: Effect of Graphene Oxide Incorporation on Composites Performance. <i>Polymers</i> , 2022, 14, 1548.	2.0	26
23	Biodegradation of the herbicide penoxsulam (triazolopyrimidine sulphonamide) by fungal strains of <i>Aspergillus</i> in soil. <i>Applied Soil Ecology</i> , 2016, 105, 196-206.	2.1	25
24	Agrochemicals influencing nitrogenase, biomass of N ₂ -fixing cyanobacteria and yield of rice in wetland cultivation. <i>Biocatalysis and Agricultural Biotechnology</i> , 2017, 9, 28-34.	1.5	24
25	Entry, colonization, and distribution of endophytic microorganisms in plants. , 2020, , 1-33.		24
26	Yeasts and Bacterial Consortia from Kefir Grains Are Effective Biocontrol Agents of Postharvest Diseases of Fruits. <i>Microorganisms</i> , 2020, 8, 428.	1.6	24
27	Genome-Wide Analysis and Characterization of the Proline-Rich Extensin-like Receptor Kinases (PERKs) Gene Family Reveals Their Role in Different Developmental Stages and Stress Conditions in Wheat (<i>Triticum aestivum</i> L.). <i>Plants</i> , 2022, 11, 496.	1.6	24
28	Cyanobacteria, pesticides and rice interaction. <i>Biodiversity and Conservation</i> , 2015, 24, 995-1005.	1.2	23
29	Cyanobacterial (unicellular and heterocystous) biofertilization to wetland rice influenced by nitrogenous agrochemical. <i>Journal of Applied Phycology</i> , 2016, 28, 3343-3351.	1.5	23
30	Lignin-modifying enzymes: a green and environmental responsive technology for organic compound degradation. <i>Journal of Chemical Technology and Biotechnology</i> , 2022, 97, 327-342.	1.6	23
31	CpGDB : A Comprehensive Database of Chloroplast Genomes. <i>Bioinformatics</i> , 2020, 16, 171-175.	0.2	21
32	Bioremediation. , 2020, , 1-23.		20
33	Role of <i>Pseudomonas</i> sp. in Sustainable Agriculture and Disease Management. , 2017, , 195-215.		18
34	Endophytic bacteria in plant disease management. , 2020, , 61-89.		18
35	Deciphering the Biochemical Pathway and Pharmacokinetic Study of Amyloid β 42 with Superparamagnetic Iron Oxide Nanoparticles (SPIONs) Using Systems Biology Approach. <i>Molecular Neurobiology</i> , 2018, 55, 3224-3236.	1.9	18
36	Isolation and Characterization of Endophytes Bacterial Strains of <i>Momordica charantia</i> L. and Their Possible Approach in Stress Management. <i>Microorganisms</i> , 2022, 10, 290.	1.6	17

#	ARTICLE	IF	CITATIONS
37	Salt Stress Tolerance of Methylophilic Bacteria <i>Methylophilus</i> sp. and <i>Methylobacterium</i> sp. Isolated from Coal Mine Spoils. <i>Polish Journal of Microbiology</i> , 2013, 62, 273-280.	0.6	16
38	Physiological and Biochemical Responses of Bicarbonate Supplementation on Biomass and Lipid Content of Green Algae <i>Scenedesmus</i> sp. BHU1 Isolated From Wastewater for Renewable Biofuel Feedstock. <i>Frontiers in Microbiology</i> , 2022, 13, 839800.	1.5	16
39	Nitrogenous agrochemicals inhibiting native diazotrophic cyanobacterial contribution in wetland rice ecosystem. <i>Journal of Applied Phycology</i> , 2017, 29, 929-939.	1.5	15
40	Field evaluations of agrochemical toxicity to cyanobacteria in rice field ecosystem: a review. <i>Journal of Applied Phycology</i> , 2019, 31, 471-489.	1.5	15
41	Plant growth-promoting rhizobacteria and their functional role in salinity stress management. , 2020, , 151-160.		14
42	Endophytic Microbiome in the Carposphere and Its Importance in Fruit Physiology and Pathology. <i>Plant Pathology in the 21st Century</i> , 2021, , 73-88.	0.6	14
43	Biotechnological aspects of plants metabolites in the treatment of ulcer: A new prospective. <i>Biotechnology Reports (Amsterdam, Netherlands)</i> , 2018, 18, e00256.	2.1	13
44	Biotization of endophytes in micropropagation: A helpful enemy. , 2020, , 357-379.		13
45	Experimental and numerical comparisons between finite element method, element-free Galerkin method, and extended finite element method predicted stress intensity factor and energy release rate of cortical bone considering anisotropic bone modelling. <i>Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine</i> , 2019, 233, 823-838.	1.0	12
46	Changes in the Fungal Community Assembly of Apple Fruit Following Postharvest Application of the Yeast Biocontrol Agent <i>Metschnikowia fructicola</i> . <i>Horticulturae</i> , 2021, 7, 360.	1.2	12
47	Potential Anti- <i>Mycobacterium tuberculosis</i> Activity of Plant Secondary Metabolites: Insight with Molecular Docking Interactions. <i>Antioxidants</i> , 2021, 10, 1990.	2.2	12
48	Toxicity of biocides to native cyanobacteria at different rice crop stages in wetland paddy field. <i>Journal of Applied Phycology</i> , 2018, 30, 483-493.	1.5	11
49	A review on experimental and numerical investigations of cortical bone fracture. <i>Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine</i> , 2022, 236, 297-319.	1.0	11
50	Isolation and characterization of high protein and phycocyanin producing mutants of <i>Arthrospira platensis</i> . <i>Journal of Basic Microbiology</i> , 2018, 58, 162-171.	1.8	10
51	Effects of interfacial crack and implant material on mixed-mode stress intensity factor and prediction of interface failure of cemented acetabular cup. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2020, 108, 1844-1856.	1.6	10
52	Production of peptide antifungal antibiotic and biocontrol activity of <i>Bacillus subtilis</i> . <i>Indian Journal of Experimental Biology</i> , 2009, 47, 57-62.	0.5	10
53	Substrate utilization of stress tolerant methylotrophs isolated from revegetated heavy metal polluted coalmine spoil. <i>World Journal of Microbiology and Biotechnology</i> , 2013, 29, 635-643.	1.7	9
54	Evaluation of anti-EGFR-iRGD recombinant protein with GOLD nanoparticles: synergistic effect on antitumor efficiency using optimized deep neural networks. <i>RSC Advances</i> , 2019, 9, 19261-19270.	1.7	9

#	ARTICLE	IF	CITATIONS
55	Melissopalynological studies on winter honeys from Allahabad, Uttar Pradesh, India. <i>Palynology</i> , 2018, 42, 540-552.	0.7	8
56	Biochemical and molecular identification of <i>Solanum lycopersicum</i> L. temperature tolerant bacterial endophytes. <i>Biocatalysis and Agricultural Biotechnology</i> , 2019, 22, 101409.	1.5	8
57	Endophytic microbe approaches in bioremediation of organic pollutants. , 2020, , 157-174.		8
58	Environmental factors affecting the bioremediation potential of microbes. , 2021, , 47-58.		8
59	Restoration of heavy metalâ€contaminated soil and water through biosorbents: A review of current understanding and future challenges. <i>Physiologia Plantarum</i> , 2021, 173, 394-417.	2.6	8
60	Impact of packhouse treatments on the peel microbiome of mandarin fruit (cv. Orr). <i>Postharvest Biology and Technology</i> , 2021, 176, 111519.	2.9	8
61	Multi-Sensor Surveillance System Based on Integrated Video Analytics. <i>IEEE Sensors Journal</i> , 2022, 22, 10207-10222.	2.4	8
62	<i>Vinca rosea</i> leaf extract supplementation leads to developmental delay and several phenotypic anomalies in <i>Drosophila melanogaster</i> . <i>Toxicological and Environmental Chemistry</i> , 2013, 95, 635-645.	0.6	7
63	Algal Metabolites Can Be an Immune Booster against COVID-19 Pandemic. <i>Antioxidants</i> , 2022, 11, 452.	2.2	7
64	Bioprospects of Endophytic Bacteria in Plant Growth Promotion and Ag-Nanoparticle Biosynthesis. <i>Plants</i> , 2022, 11, 1787.	1.6	7
65	Sustainable Agricultural Practices Using Beneficial Fungi Under Changing Climate Scenario. , 2019, , 25-42.		6
66	Impact of pesticides applications on the growth and function of cyanobacteria. , 2020, , 151-162.		6
67	Fracture Toughness of Acrylic PMMA Bone Cement: A Mini-Review. <i>Indian Journal of Orthopaedics</i> , 2021, 55, 1208-1214.	0.5	6
68	Salt stress tolerance of methylotrophic bacteria <i>Methylophilus</i> sp. and <i>Methylobacterium</i> sp. isolated from coal mine spoils. <i>Polish Journal of Microbiology</i> , 2013, 62, 273-80.	0.6	6
69	Tolerance of wetland rice field's cyanobacteria to agrochemicals in cultural condition. <i>Biocatalysis and Agricultural Biotechnology</i> , 2018, 13, 236-243.	1.5	5
70	Role of omics approaches in microbial bioremediation. , 2021, , 435-445.		5
71	Influence of Varying Temperature on the Bioactive Compounds of <i>Solanum lycopersicum</i> L. after Post-Harvest Storage. <i>International Journal of Current Microbiology and Applied Sciences</i> , 2017, 6, 2997-3007.	0.0	5
72	Isolation and Characterization of Plant Growth Promoting Rhizobacteria From <i>Momordica Charantia</i> L., 2019, , 217-238.		4

#	ARTICLE	IF	CITATIONS
73	Plant growth-promoting bacteria and their role in environmental management. , 2020, , 161-175.		4
74	Analysis of video analytic architectures. , 2015, , .		3
75	Investigations of the Quality of Speech Imitated by Alexandrine Parrot ($\vec{T}j$ ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 667 2292-2314.	1.2	3
76	Molecular diversity of tomato germplasm (<i>Lycopersicon esculentum</i> L.) using lycopene specific markers. Biocatalysis and Agricultural Biotechnology, 2018, 16, 340-346.	1.5	3
77	Plant growth-promoting bacteria: application in bioremediation of salinity and heavy metal-contaminated soils. , 2021, , 73-78.		3
78	Cancer Biology Aspects of Computational Methods & Applications in Drug Discovery. Current Pharmaceutical Design, 2019, 24, 3758-3766.	0.9	3
79	Plant Growth Promoting Rhizobacteria of <i>Curcuma amada</i> (Mango ginger). Journal of Pure and Applied Microbiology, 2017, 11, 513-519.	0.3	3
80	Fungal consortium and nitrogen supplementation stimulates soil microbial communities to accelerate in situ degradation of paddy straw. Environmental Sustainability, 2022, 5, 161-171.	1.4	3
81	Effect of bandwidth modifications on the quality of speech imitated by Alexandrine and Indian Ringneck parrots. International Journal of Speech Technology, 2017, 20, 659-672.	1.4	2
82	Rhizome Endophytes: Roles and Applications in Sustainable Agriculture. , 2019, , 405-421.		2
83	Microbial enzymes and their exploitation in remediation of environmental contaminants. , 2021, , 59-71.		2
84	Microbial consortia: approaches in crop production and yield enhancement. , 2021, , 293-303.		2
85	Endophytes of Medicinal Plants: Diversity and Bioactivity. , 2022, , 117-128.		2
86	Biocontrol Potential of Microbial Consortia: Approaches in Food Security and Disease Management. , 2022, , 187-203.		2
87	Reconfigurable tapered coaxial slot antenna for hepatic microwave ablation. Electromagnetic Biology and Medicine, 2016, 35, 214-221.	0.7	1
88	Heat Shock Protein 70 and Molecular Confession During Neurodegeneration. Heat Shock Proteins, 2018, , 3-35.	0.2	1
89	Cyanobacterial genome editing toolboxes: recent advancement and future projections for basic and synthetic biology researches. , 2020, , 129-149.		1
90	Probiotics in edible coatings: Approaches to food security and fruits disease management. , 2021, , 371-386.		1

#	ARTICLE	IF	CITATIONS
91	Plant growth promoting bacteria as biocontrol agents against diseases of cereal crops. , 2021, , 221-239.		1
92	Sustainable agricultural practices using microbial strains for crop production. , 2021, , 357-370.		1
93	Harnessing the potential of biostimulants and biocontrol agents for sustainable management of agricultural productivity. , 2021, , 257-277.		1
94	An insight into the molecular docking interactions of plant secondary metabolites with virulent factors causing common human diseases. South African Journal of Botany, 2022, 149, 1008-1016.	1.2	1
95	Microbial antagonists in postharvest management of fruit. , 2022, , 333-346.		1
96	Bioremediation potential of methylotrophic bacteria. , 2021, , 199-207.		0
97	Environmental contaminants and their management using microorganisms. , 2021, , 37-45.		0
98	Omics and approaches in plant stress management. , 2021, , 107-117.		0
99	Experimental investigation of the effect of bone surface macro-groove preparation on the strength of bone-cement interface. Materials Today Communications, 2021, 28, 102702.	0.9	0
100	Plant growth promoting bacteria and its role in green remediation. , 2021, , 149-163.		0
101	Cyanobacterial availability for CRISPR-based genome editing: Current and future challenges. , 2022, , 231-252.		0