

Ajay Kumar

List of Publications by Year in descending order

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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	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
2	Cyanobacterial availability for CRISPR-based genome editing: Current and future challenges. , 2022, , 231-252.		0
3	An insight into the molecular docking interactions of plant secondary metabolites with virulent factors causing common human diseases. <i>South African Journal of Botany</i> , 2022, 149, 1008-1016.	1.2	1
4	Multi-Sensor Surveillance System Based on Integrated Video Analytics. <i>IEEE Sensors Journal</i> , 2022, 22, 10207-10222.	2.4	8
5	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
6	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
7	Microbial antagonists in postharvest management of fruit. , 2022, , 333-346.		1
8	Endophytes of Medicinal Plants: Diversity and Bioactivity. , 2022, , 117-128.		2
9	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
10	Algal Metabolites Can Be an Immune Booster against COVID-19 Pandemic. <i>Antioxidants</i> , 2022, 11, 452.	2.2	7
11	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
12	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
13	Biocontrol Potential of Microbial Consortia: Approaches in Food Security and Disease Management. , 2022, , 187-203.		2
14	Fungal consortium and nitrogen supplementation stimulates soil microbial communities to accelerate in situ degradation of paddy straw. <i>Environmental Sustainability</i> , 2022, 5, 161-171.	1.4	3
15	Bioprospects of Endophytic Bacteria in Plant Growth Promotion and Ag-Nanoparticle Biosynthesis. <i>Plants</i> , 2022, 11, 1787.	1.6	7
16	Environmental factors affecting the bioremediation potential of microbes. , 2021, , 47-58.		8
17	Bioremediation potential of methylotrophic bacteria. , 2021, , 199-207.		0
18	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

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19	Role of omics approaches in microbial bioremediation. , 2021, , 435-445.		5
20	Microbial enzymes and their exploitation in remediation of environmental contaminants. , 2021, , 59-71.		2
21	Microbial consortia: approaches in crop production and yield enhancement. , 2021, , 293-303.		2
22	Probiotics in edible coatings: Approaches to food security and fruits disease management. , 2021, , 371-386.		1
23	Plant growth promoting bacteria as biocontrol agents against diseases of cereal crops. , 2021, , 221-239.		1
24	Plant growth-promoting bacteria: application in bioremediation of salinity and heavy metalâ€contaminated soils. , 2021, , 73-78.		3
25	Environmental contaminants and their management using microorganisms. , 2021, , 37-45.		0
26	Sustainable agricultural practices using microbial strains for crop production. , 2021, , 357-370.		1
27	Harnessing the potential of biostimulants and biocontrol agents for sustainable management of agricultural productivity. , 2021, , 257-277.		1
28	Omics and approaches in plant stress management. , 2021, , 107-117.		0
29	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
30	Global analysis of the apple fruit microbiome: are all apples the same?. <i>Environmental Microbiology</i> , 2021, 23, 6038-6055.	1.8	64
31	Compositional shifts in the strawberry fruit microbiome in response to near-harvest application of <i>Metschnikowia fructicola</i> , a yeast biocontrol agent. <i>Postharvest Biology and Technology</i> , 2021, 175, 111469.	2.9	50
32	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
33	Fracture Toughness of Acrylic PMMA Bone Cement: A Mini-Review. <i>Indian Journal of Orthopaedics</i> , 2021, 55, 1208-1214.	0.5	6
34	The Potential Application of Endophytes in Management of Stress from Drought and Salinity in Crop Plants. <i>Microorganisms</i> , 2021, 9, 1729.	1.6	70
35	Experimental investigation of the effect of bone surface macro-groove preparation on the strength of bone-cement interface. <i>Materials Today Communications</i> , 2021, 28, 102702.	0.9	0
36	Microbial Biosurfactant: A New Frontier for Sustainable Agriculture and Pharmaceutical Industries. <i>Antioxidants</i> , 2021, 10, 1472.	2.2	68

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37	Plant growth promoting bacteria and its role in green remediation. , 2021, , 149-163.		0
38	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
39	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
40	Bioremediation. , 2020, , 1-23.		20
41	Plant growthâ€“promoting rhizobacteria and their functional role in salinity stress management. , 2020, , 151-160.		14
42	Plant growthâ€“promoting bacteria and their role in environmental management. , 2020, , 161-175.		4
43	Effects of interfacial crack and implant material on mixedâ€“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
44	Nanotheranostic Applications for Detection and Targeting Neurodegenerative Diseases. <i>Frontiers in Neuroscience</i> , 2020, 14, 305.	1.4	41
45	Biotization of endophytes in micropropagation: A helpful enemy. , 2020, , 357-379.		13
46	Cyanobacterial genome editing toolboxes: recent advancement and future projections for basic and synthetic biology researches. , 2020, , 129-149.		1
47	Impact of pesticides applications on the growth and function of cyanobacteria. , 2020, , 151-162.		6
48	Entry, colonization, and distribution of endophytic microorganisms in plants. , 2020, , 1-33.		24
49	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
50	Endophytic microbe approaches in bioremediation of organic pollutants. , 2020, , 157-174.		8
51	Endophytic bacteria in plant disease management. , 2020, , 61-89.		18
52	CpGDB : A Comprehensive Database of Chloroplast Genomes. <i>Bioinformatics</i> , 2020, 16, 171-175.	0.2	21
53	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
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

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55	Effect of paddy straw burning on soil microbial dynamics in sandy loam soil of Indo-Gangetic plains. <i>Environmental Technology and Innovation</i> , 2019, 16, 100469.	3.0	35
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	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
58	Sustainable Agricultural Practices Using Beneficial Fungi Under Changing Climate Scenario. , 2019, , 25-42.		6
59	Rhizome Endophytes: Roles and Applications in Sustainable Agriculture. , 2019, , 405-421.		2
60	Plant Growth Promoting Rhizobacteria. , 2019, , 41-66.		54
61	Isolation and Characterization of Plant Growth Promoting Rhizobacteria From <i>Momordica Charantia</i> L., 2019, , 217-238.		4
62	Cancer Biology Aspects of Computational Methods & Applications in Drug Discovery. <i>Current Pharmaceutical Design</i> , 2019, 24, 3758-3766.	0.9	3
63	Melissopalynological studies on winter honeys from Allahabad, Uttar Pradesh, India. <i>Palynology</i> , 2018, 42, 540-552.	0.7	8
64	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
65	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
66	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
67	Molecular diversity of tomato germplasm (<i>Lycopersicon esculentum</i> L.) using lycopene specific markers. <i>Biocatalysis and Agricultural Biotechnology</i> , 2018, 16, 340-346.	1.5	3
68	Iron oxidizing bacteria: insights on diversity, mechanism of iron oxidation and role in management of metal pollution. <i>Environmental Sustainability</i> , 2018, 1, 221-231.	1.4	40
69	Interaction of plant growth promoting bacteria with tomato under abiotic stress: A review. <i>Agriculture, Ecosystems and Environment</i> , 2018, 267, 129-140.	2.5	104
70	Distribution of cyanobacteria and their interactions with pesticides in paddy field: A comprehensive review. <i>Journal of Environmental Management</i> , 2018, 224, 361-375.	3.8	34
71	Plant Growth-Promoting Rhizobacteria (PGPR): Perspective in Agriculture Under Biotic and Abiotic Stress. , 2018, , 333-342.		32
72	Heat Shock Protein 70 and Molecular Confession During Neurodegeneration. <i>Heat Shock Proteins</i> , 2018, , 3-35.	0.2	1

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73	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
74	Deciphering the Biochemical Pathway and Pharmacokinetic Study of Amyloid β with Superparamagnetic Iron Oxide Nanoparticles (SPIONs) Using Systems Biology Approach. <i>Molecular Neurobiology</i> , 2018, 55, 3224-3236.	1.9	18
75	Supplementation of <i>Spirulina</i> (<i>Arthrospira platensis</i>) Improves Lifespan and Locomotor Activity in Paraquat-Sensitive $Drosophila$ Flies, a Parkinson's Disease Model in <i>Drosophila melanogaster</i> . <i>Journal of Dietary Supplements</i> , 2017, 14, 573-588.	1.4	32
76	Interaction of turmeric (<i>Curcuma longa</i> L.) with beneficial microbes: a review. <i>3 Biotech</i> , 2017, 7, 357.	1.1	30
77	Endophytic bacteria: a new source of bioactive compounds. <i>3 Biotech</i> , 2017, 7, 315.	1.1	199
78	Role of <i>Pseudomonas</i> sp. in Sustainable Agriculture and Disease Management. , 2017, , 195-215.		18
79	Disease management of tomato through PGPB: current trends and future perspective. <i>3 Biotech</i> , 2017, 7, 255.	1.1	135
80	Effect of bandwidth modifications on the quality of speech imitated by Alexandrine and Indian Ringneck parrots. <i>International Journal of Speech Technology</i> , 2017, 20, 659-672.	1.4	2
81	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
82	Nitrogenous agrochemicals inhibiting native diazotrophic cyanobacterial contribution in wetland rice ecosystem. <i>Journal of Applied Phycology</i> , 2017, 29, 929-939.	1.5	15
83	Investigations of the Quality of Speech Imitated by Alexandrine Parrot ($\vec{Tj} ETQq1 1 0.784314 \text{ rgBT} / \text{Overlock } 10 \text{ Tf } 50 \text{ 347}$ 2292-2314.	1.2	3
84	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
85	Plant Growth Promoting Rhizobacteria of <i>Curcuma amada</i> (Mango ginger). <i>Journal of Pure and Applied Microbiology</i> , 2017, 11, 513-519.	0.3	3
86	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
87	Isolation of plant growth promoting rhizobacteria and their impact on growth and curcumin content in <i>Curcuma longa</i> L.. <i>Biocatalysis and Agricultural Biotechnology</i> , 2016, 8, 1-7.	1.5	91
88	Nanoparticles in practice for molecular-imaging applications: An overview. <i>Acta Biomaterialia</i> , 2016, 41, 1-16.	4.1	175
89	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
90	Isolation and characterization of bacterial endophytes of <i>Curcuma longa</i> L.. <i>3 Biotech</i> , 2016, 6, 60.	1.1	107

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91	Reconfigurable tapered coaxial slot antenna for hepatic microwave ablation. <i>Electromagnetic Biology and Medicine</i> , 2016, 35, 214-221.	0.7	1
92	Analysis of video analytic architectures. , 2015, , .		3
93	Cyanobacteria, pesticides and rice interaction. <i>Biodiversity and Conservation</i> , 2015, 24, 995-1005.	1.2	23
94	Isolation and characterization of bacterial endophytes from the roots of <i>Cassia tora</i> L. <i>Annals of Microbiology</i> , 2015, 65, 1391-1399.	1.1	67
95	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
96	<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
97	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, 273-280.	0.6	16
98	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
99	Thermal stability study of nitrogen functionalities in a graphene network. <i>Journal of Physics Condensed Matter</i> , 2012, 24, 235503.	0.7	55
100	Irradiation enhanced paramagnetism on graphene nanoflakes. <i>Applied Physics Letters</i> , 2011, 99, 102504.	1.5	64
101	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