

Alok Kalra

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/3982474/publications.pdf>

Version: 2024-02-01

99
papers

4,292
citations

109321

35
h-index

118850

62
g-index

99
all docs

99
docs citations

99
times ranked

4195
citing authors

#	ARTICLE	IF	CITATIONS
1	Plant growth promoting rhizobacteria <i>Dietzia natronolimnaea</i> modulates the expression of stress responsive genes providing protection of wheat from salinity stress. <i>Scientific Reports</i> , 2016, 6, 34768.	3.3	391
2	Plant growth-promoting rhizobacteria enhance wheat salt and drought stress tolerance by altering endogenous phytohormone levels and <i>TaCTR1</i> / <i>TaDREB2</i> expression. <i>Physiologia Plantarum</i> , 2017, 161, 502-514.	5.2	275
3	ACC deaminase-containing <i>Arthrobacter protophormiae</i> induces NaCl stress tolerance through reduced ACC oxidase activity and ethylene production resulting in improved nodulation and mycorrhization in <i>Pisum sativum</i> . <i>Journal of Plant Physiology</i> , 2014, 171, 884-894.	3.5	206
4	<i>Exiguobacterium oxidotolerans</i> , a halotolerant plant growth promoting rhizobacteria, improves yield and content of secondary metabolites in <i>Bacopa monnieri</i> (L.) Pennell under primary and secondary salt stress. <i>World Journal of Microbiology and Biotechnology</i> , 2013, 29, 379-387.	3.6	193
5	1-Aminocyclopropane-1-carboxylic acid (ACC) deaminase-containing rhizobacteria protect <i>Ocimum sanctum</i> plants during waterlogging stress via reduced ethylene generation. <i>Plant Physiology and Biochemistry</i> , 2012, 58, 227-235.	5.8	182
6	Humic acid rich vermicompost promotes plant growth by improving microbial community structure of soil as well as root nodulation and mycorrhizal colonization in the roots of <i>Pisum sativum</i> . <i>Applied Soil Ecology</i> , 2017, 110, 97-108.	4.3	130
7	Biodiversity acts as insurance of productivity of bacterial communities under abiotic perturbations. <i>ISME Journal</i> , 2014, 8, 2445-2452.	9.8	117
8	Fungal endophytes of <i>Catharanthus roseus</i> enhance vindoline content by modulating structural and regulatory genes related to terpenoid indole alkaloid biosynthesis. <i>Scientific Reports</i> , 2016, 6, 26583.	3.3	115
9	Synergistic effect of <i>Glomus mosseae</i> and nitrogen fixing <i>Bacillus subtilis</i> strain Daz26 on artemisinin content in <i>Artemisia annua</i> L.. <i>Applied Soil Ecology</i> , 2011, 49, 125-130.	4.3	107
10	Synthesis of hydroxymethylfurfural from cellulose using green processes: A promising biochemical and biofuel feedstock. <i>Chemical Engineering Science</i> , 2016, 142, 318-346.	3.8	107
11	ACC Deaminase-Containing <i>Bacillus subtilis</i> Reduces Stress Ethylene-Induced Damage and Improves Mycorrhizal Colonization and Rhizobial Nodulation in <i>Trigonella foenum-graecum</i> Under Drought Stress. <i>Journal of Plant Growth Regulation</i> , 2013, 32, 809-822.	5.1	106
12	Plant growth promoting rhizobacteria alleviate salinity induced negative effects on growth, oil content and physiological status in <i>Mentha arvensis</i> . <i>Acta Physiologiae Plantarum</i> , 2014, 36, 45-60.	2.1	105
13	Essential Oils as Potent Source of Nematicidal Compounds. <i>Journal of Phytopathology</i> , 2000, 148, 501-502.	1.0	96
14	Synergy between <i>Glomus fasciculatum</i> and a beneficial <i>Pseudomonas</i> in reducing root diseases and improving yield and forskolin content in <i>Coleus forskohlii</i> Briq. under organic field conditions. <i>Mycorrhiza</i> , 2013, 23, 35-44.	2.8	91
15	Endophytes of opium poppy differentially modulate host plant productivity and genes for the biosynthetic pathway of benzyloquinoline alkaloids. <i>Planta</i> , 2016, 243, 1097-1114.	3.2	82
16	Endophytic Bacteria from <i>Ocimum sanctum</i> and Their Yield Enhancing Capabilities. <i>Current Microbiology</i> , 2010, 60, 167-171.	2.2	72
17	In vitro Cr(VI) reduction by cell-free extracts of chromate-reducing bacteria isolated from tannery effluent irrigated soil. <i>Environmental Science and Pollution Research</i> , 2013, 20, 1661-1674.	5.3	70
18	ACC-Deaminase-Producing Endophyte <i>Brachy bacterium paraconglomeratum</i> Strain SMR20 Ameliorates Chlorophytum Salinity Stress via Altering Phytohormone Generation. <i>Journal of Plant Growth Regulation</i> , 2016, 35, 553-564.	5.1	65

#	ARTICLE	IF	CITATIONS
19	Technology for improving essential oil yield of <i>Ocimum basilicum</i> L. (sweet basil) by application of bioinoculant colonized seeds under organic field conditions. <i>Industrial Crops and Products</i> , 2013, 45, 335-342.	5.2	62
20	Vermicompost from biodegraded distillation waste improves soil properties and essential oil yield of <i>Pogostemon cablin</i> (patchouli) Benth. <i>Applied Soil Ecology</i> , 2013, 70, 48-56.	4.3	58
21	Bacterial endophyte-mediated enhancement of in planta content of key terpenoid indole alkaloids and growth parameters of <i>Catharanthus roseus</i> . <i>Industrial Crops and Products</i> , 2013, 43, 306-310.	5.2	54
22	A Cr(VI)-reducing <i>Microbacterium</i> sp. strain SUCR140 enhances growth and yield of <i>Zea mays</i> in Cr(VI) amended soil through reduced chromium toxicity and improves colonization of arbuscular mycorrhizal fungi. <i>Environmental Science and Pollution Research</i> , 2014, 21, 1971-1979.	5.3	54
23	Molecular phylogenetic identification of endophytic fungi isolated from resinous and healthy wood of <i>Aquilaria malaccensis</i> , a red listed and highly exploited medicinal tree. <i>Fungal Ecology</i> , 2013, 6, 205-211.	1.6	52
24	Endophytes of <i>Withania somnifera</i> modulate in planta content and the site of withanolide biosynthesis. <i>Scientific Reports</i> , 2018, 8, 5450.	3.3	51
25	Natural compounds enhancing growth and survival of rhizobial inoculants in vermicompost-based formulations. <i>Biology and Fertility of Soils</i> , 2010, 46, 521-524.	4.3	50
26	Co-inoculation of <i>Dietzia natronolimnaea</i> and <i>Glomus intraradices</i> with vermicompost positively influences <i>Ocimum basilicum</i> growth and resident microbial community structure in salt affected low fertility soils. <i>Applied Soil Ecology</i> , 2016, 100, 211-225.	4.3	50
27	Effect of arbuscular mycorrhizal fungi and <i>Pseudomonas fluorescens</i> on root-rot and wilt, growth and yield of <i>Coleus forskohlii</i> . <i>Biocontrol Science and Technology</i> , 2009, 19, 835-841.	1.3	49
28	Optimization of cellulases production by <i>Trichoderma citrinoviride</i> on marc of <i>Artemisia annua</i> and its application for bioconversion process. <i>Biomass and Bioenergy</i> , 2010, 34, 805-811.	5.7	49
29	Technology for efficient and successful delivery of vermicompost colonized bioinoculants in <i>Pogostemon cablin</i> (patchouli) Benth.. <i>World Journal of Microbiology and Biotechnology</i> , 2012, 28, 323-333.	3.6	47
30	Cellulase production by six <i>Trichoderma</i> spp. fermented on medicinal plant processings. <i>Journal of Industrial Microbiology and Biotechnology</i> , 2009, 36, 605-609.	3.0	42
31	Characterization of Seven Species of Cyanobacteria for High-Quality Biomass Production. <i>Arabian Journal for Science and Engineering</i> , 2018, 43, 109-121.	3.0	42
32	ACC deaminase-containing plant growth-promoting rhizobacteria protect <i>Papaver somniferum</i> from downy mildew. <i>Journal of Applied Microbiology</i> , 2017, 122, 1286-1298.	3.1	40
33	Fungal elicitor-mediated enhancement in growth and asiaticoside content of <i>Centella asiatica</i> L. shoot cultures. <i>Plant Growth Regulation</i> , 2013, 69, 265-273.	3.4	38
34	Halotolerant PGPRs Prevent Major Shifts in Indigenous Microbial Community Structure Under Salinity Stress. <i>Microbial Ecology</i> , 2015, 70, 196-208.	2.8	37
35	Characteristics of menthol mint <i>Mentha arvensis</i> cultivated on industrial scale in the Indo-Gangetic plains. <i>Industrial Crops and Products</i> , 2002, 15, 189-198.	5.2	36
36	Integrated application of <i>Exiguobacterium oxidotolerans</i> , <i>Glomus fasciculatum</i> , and vermicompost improves growth, yield and quality of <i>Mentha arvensis</i> in salt-stressed soils. <i>Industrial Crops and Products</i> , 2016, 83, 717-728.	5.2	34

#	ARTICLE	IF	CITATIONS
37	Evaluating the potential of combined inoculation of <i>Trichoderma harzianum</i> and <i>Brevibacterium halotolerans</i> for increased growth and oil yield in <i>Mentha arvensis</i> under greenhouse and field conditions. <i>Industrial Crops and Products</i> , 2019, 131, 173-181.	5.2	34
38	Bioremediation of arsenic by soil methylating fungi: Role of <i>Humicola</i> sp. strain 2WS1 in amelioration of arsenic phytotoxicity in <i>Bacopa monnieri</i> L. <i>Science of the Total Environment</i> , 2020, 716, 136758.	8.0	34
39	Effect of potential bioinoculants and organic manures on root rot and wilt, growth, yield and quality of organically grown <i>Coleus forskohlii</i> in a semiarid tropical region of Bangalore (India). <i>Plant Pathology</i> , 2012, 61, 700-708.	2.4	33
40	Fungal endophytes enhanced the growth and production kinetics of <i>Vinca minor</i> hairy roots and cell suspensions grown in bioreactor. <i>Plant Cell, Tissue and Organ Culture</i> , 2014, 118, 257-268.	2.3	33
41	Endophytic Consortium With Diverse Gene-Regulating Capabilities of Benzylisoquinoline Alkaloids Biosynthetic Pathway Can Enhance Endogenous Morphine Biosynthesis in <i>Papaver somniferum</i> . <i>Frontiers in Microbiology</i> , 2019, 10, 925.	3.5	33
42	Elicitors TM influenced differential ginsenoside production and exudation into medium with concurrent Rg3/Rh2 panaxadiol induction in <i>Panax quinquefolius</i> cell suspensions. <i>Applied Microbiology and Biotechnology</i> , 2016, 100, 4909-4922.	3.6	32
43	Endophytes enhance the production of root alkaloids ajmalicine and serpentine by modulating the terpenoid indole alkaloid pathway in <i>Catharanthus roseus</i> roots. <i>Journal of Applied Microbiology</i> , 2020, 128, 1128-1142.	3.1	32
44	Improved sanguinarine production via biotic and abiotic elicitations and precursor feeding in cell suspensions of latex-less variety of <i>Papaver somniferum</i> with their gene expression studies and upscaling in bioreactor. <i>Protoplasma</i> , 2014, 251, 1359-1371.	2.1	31
45	Evaluation of vermicompost doses for management of root-rot disease complex in <i>Coleus forskohlii</i> under organic field conditions. <i>Australasian Plant Pathology</i> , 2012, 41, 397-403.	1.0	29
46	Pretreatment of Cr(VI)-Amended Soil With Chromate-Reducing Rhizobacteria Decreases Plant Toxicity and Increases the Yield of <i>Pisum sativum</i> . <i>Archives of Environmental Contamination and Toxicology</i> , 2014, 66, 616-627.	4.1	28
47	Application of essential oils as a natural and alternate method for inhibiting and inducing the sprouting of potato tubers. <i>Food Chemistry</i> , 2019, 284, 171-179.	8.2	28
48	Novel process for isolation of major bio-polymers from <i>Mentha arvensis</i> distilled biomass and saccharification of the isolated cellulose to glucose. <i>Industrial Crops and Products</i> , 2018, 119, 1-8.	5.2	27
49	Vulnerability of Soil Microbiome to Monocropping of Medicinal and Aromatic Plants and Its Restoration Through Intercropping and Organic Amendments. <i>Frontiers in Microbiology</i> , 2019, 10, 2604.	3.5	27
50	Enhancing artemisinin yields through an ecologically functional community of endophytes in <i>Artemisia annua</i> . <i>Industrial Crops and Products</i> , 2020, 150, 112375.	5.2	27
51	Rapid budding EMS mutants of <i>Synechocystis</i> PCC 6803 producing carbohydrate or lipid enriched biomass. <i>Algal Research</i> , 2016, 16, 36-45.	4.6	26
52	Composition and Comparison of Essential Oils of <i>Pogostemon cablin</i> (Blanco) Benth. (Patchouli) and <i>Pogostemon travancoricus</i> Bedd. var. <i>travancoricus</i> . <i>Journal of Essential Oil Research</i> , 2009, 21, 220-222.	2.7	25
53	The greater effectiveness of <i>Glomus mosseae</i> and <i>Glomus intraradices</i> in improving productivity, oil content and tolerance of salt-stressed menthol mint (<i>Mentha arvensis</i>). <i>Journal of the Science of Food and Agriculture</i> , 2013, 93, 2154-2161.	3.5	25
54	Halotolerant <i>Exiguobacterium profundum</i> PHM11 Tolerate Salinity by Accumulating L-Proline and Fine-Tuning Gene Expression Profiles of Related Metabolic Pathways. <i>Frontiers in Microbiology</i> , 2018, 9, 423.	3.5	25

#	ARTICLE	IF	CITATIONS
55	A natural plant growth promoter, calliterpenone, enhances growth and biomass, carbohydrate, and lipid production in cyanobacterium <i>Synechocystis</i> PCC 6803. <i>Journal of Applied Phycology</i> , 2014, 26, 279-286.	2.8	23
56	Diseases in Mint: Causal Organisms, Distribution, and Control Measures. <i>Journal of Herbs, Spices and Medicinal Plants</i> , 2005, 11, 71-91.	1.1	22
57	Medicinal plant <i>Coleus forskohlii</i> Briq.: Disease and management. <i>Medicinal Plants - International Journal of Phytomedicines and Related Industries</i> , 2011, 3, 1.	0.2	22
58	Enhanced tolerance of <i>Mentha arvensis</i> against <i>Meloidogyne incognita</i> (Kofoid and White) Chitwood through mutualistic endophytes and PGPRs. <i>Journal of Plant Interactions</i> , 2011, 6, 247-253.	2.1	21
59	Enhancing productivity of Indian basil (<i>Ocimum basilicum</i> L.) through harvest management under rainfed conditions of subtropical north Indian plains. <i>Industrial Crops and Products</i> , 2010, 32, 601-606.	5.2	18
60	Biochemical and Proteomic Characterization of a Novel Extracellular β -Glucosidase from <i>Trichoderma citrinoviride</i> . <i>Molecular Biotechnology</i> , 2013, 53, 289-299.	2.4	18
61	Fungal endophytes attune withanolide biosynthesis in <i>Withania somnifera</i> , prime to enhanced withanolide A content in leaves and roots. <i>World Journal of Microbiology and Biotechnology</i> , 2019, 35, 20.	3.6	18
62	1-Methyl-4-propan-2-ylbenzene from <i>Thymus vulgaris</i> Attenuates Cholinergic Dysfunction. <i>Molecular Neurobiology</i> , 2017, 54, 5468-5481.	4.0	17
63	Enhanced expression of ginsenoside biosynthetic genes and in vitro ginsenoside production in elicited <i>Panax sikkimensis</i> (Ban) cell suspensions. <i>Protoplasma</i> , 2018, 255, 1147-1160.	2.1	16
64	Compatibility of Inherent Fungal Endophytes of <i>Withania somnifera</i> with <i>Trichoderma viride</i> and its Impact on Plant Growth and Withanolide Content. <i>Journal of Plant Growth Regulation</i> , 2019, 38, 1228-1242.	5.1	14
65	A natural plant growth promoter calliterpenone from a plant <i>Callicarpa macrophylla</i> Vahl improves the plant growth promoting effects of plant growth promoting rhizobacteria (PGPRs). <i>World Journal of Microbiology and Biotechnology</i> , 2013, 29, 833-839.	3.6	13
66	Utilization of Distillation Waste-Based Vermicompost and Other Organic and Inorganic Fertilizers on Improving Production Potential in Geranium and Soil Health. <i>Communications in Soil Science and Plant Analysis</i> , 2014, 45, 141-152.	1.4	13
67	Cold stress alleviation using individual and combined inoculation of ACC deaminase producing microbes in <i>Ocimum sanctum</i> . <i>Environmental Sustainability</i> , 2020, 3, 289-301.	2.8	12
68	Endophytic bacterium CIMAP-A7 mediated amelioration of atrazine induced phyto-toxicity in <i>Andrographis paniculata</i> . <i>Environmental Pollution</i> , 2021, 287, 117635.	7.5	12
69	Chemical Composition of the Essential Oil of <i>Plectranthus melissoides</i> Benth. <i>Journal of Essential Oil Research</i> , 2005, 17, 259-260.	2.7	11
70	Nematode inhibiting organic materials and a strain of <i>Trichoderma harzianum</i> effectively manages <i>Meloidogyne incognita</i> in <i>Withania somnifera</i> fields. <i>Biocontrol Science and Technology</i> , 2011, 21, 1495-1499.	1.3	11
71	Pyrethrin accumulation in elicited hairy root cultures of <i>Chrysanthemum cinerariaefolium</i> . <i>Plant Growth Regulation</i> , 2017, 81, 365-376.	3.4	11
72	Innate endophytic fungus, <i>Aspergillus terreus</i> as biotic elicitor of withanolide A in root cell suspension cultures of <i>Withania somnifera</i> . <i>Molecular Biology Reports</i> , 2019, 46, 1895-1908.	2.3	11

#	ARTICLE	IF	CITATIONS
73	Evaluation of bio-agents and pesticide on root-knot nematode development and oil yield of patchouli. Archives of Phytopathology and Plant Protection, 2009, 42, 419-423.	1.3	10
74	Bioinoculants and AM fungus colonized nursery improved management of complex root disease of Coleus forskohlii Briq. under field conditions. Biological Control, 2018, 122, 11-17.	3.0	10
75	The role of a novel fungal strain <i>Trichoderma atroviride</i> RVF3 in improving humic acid content in mature compost and vermicompost via ligninolytic and celluloxylanolytic activities. Journal of Applied Microbiology, 2015, 119, 1584-1596.	3.1	9
76	Endophytic consortium with growth-promoting and alkaloid enhancing capabilities enhance key terpenoid indole alkaloids of Catharanthus roseus in the winter and summer seasons. Industrial Crops and Products, 2021, 166, 113437.	5.2	9
77	NEW PRACTICES IN THE CULTIVATION OF THE MINT, MENTHA ARVENSIS IN THE INDO-GANGETIC PLAINS. Experimental Agriculture, 2003, 39, 199-207.	0.9	7
78	Biomass Yield, Essential Oil Yield and Oil Quality of Rose-scented Geranium (<i>Pelargonium graveolens</i>) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 382 T	0.9	7
79	Chemical activators: A novel and sustainable management approach for <i>Meloidogyne incognita</i> (Kofoid) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 382 T 38, 107-111.	1.3	6
80	Molecular profiling of fungal assemblages in the healthy and infected roots of <i>Decalepis arayalpathra</i> (J. Joseph & V. Chandras) Venter, an endemic and endangered ethnomedicinal plant from Western Ghats, India. Annals of Microbiology, 2015, 65, 785-797.	2.6	6
81	Exploring Microalgae Consortia for Biomass Production: A Synthetic Ecological Engineering Approach Towards Sustainable Production of Biofuel Feedstock. , 2017, , 109-126.		6
82	Influence of planting date on plant losses and yield responses of geranium (<i>Pelargonium</i>) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 382 T	1.3	5
83	Biomass yield, essential oil yield and resource use efficiency in geranium (<i>Pelargonium</i>) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 382 T 2009, 55, 557-567.	2.6	5
84	A novel method for survival of rose-scented geranium (<i>Pelargonium graveolens</i> L.) mother plants under extreme climatic conditions. Industrial Crops and Products, 2018, 126, 227-237.	5.2	5
85	Molecular insights into enhanced resistance of <i>Papaver somniferum</i> against downy mildew by application of endophyte bacteria <i>Microbacterium</i> sp. <i>SMR1</i> . Physiologia Plantarum, 2021, 173, 1862-1881.	5.2	5
86	Effect of powdery mildew (<i>Erysiphe polygoni</i>) on yields and yield components of early and late maturing coriander (<i>Conundrum sutivum</i>). Journal of Agricultural Science, 1995, 125, 395-398.	1.3	4
87	Integrated Host Plant Resistance and Fungicide Application on Leaf Blight Control in Menthol Mint (<i>Mentha arvensis</i> L.). Journal of Herbs, Spices and Medicinal Plants, 2003, 10, 83-87.	1.1	4
88	The Bioactive Potential of Culturable Fungal Endophytes Isolated From the Leaf of <i>Catharanthus roseus</i> (L.) G. Don. Current Topics in Medicinal Chemistry, 2021, 21, 895-907.	2.1	4
89	Stress responsiveness of vindoline accumulation in <i>Catharanthus roseus</i> leaves is mediated through co-expression of allene oxide cyclase with pathway genes. Protoplasma, 2022, 259, 755-773.	2.1	4
90	Hyperspectral vegetation indices offer insights for determining economically optimal time of harvest in <i>Mentha arvensis</i> . Industrial Crops and Products, 2022, 180, 114753.	5.2	4

#	ARTICLE	IF	CITATIONS
91	Influence of different factors on the reduced susceptibility of potato virus X infected potato leaves to <i>Alternaria solani</i> . Journal of Agricultural Science, 1992, 119, 185-190.	1.3	3
92	dl-2 Aminobutyric acid and calliterpinone are the potential stimulators of Trichoderma cellulase activities. Biomass and Bioenergy, 2014, 62, 212-217.	5.7	3
93	Interaction between <i>Phytophthora infestans</i> and potato viruses X and Y in potato. Journal of Agricultural Science, 1989, 112, 33-37.	1.3	2
94	Rhizoctonia foliar blight of Rosmarinus officinalis. Plant Pathology, 1993, 42, 827-828.	2.4	2
95	Effects of planting date and dinocap applications on the control of powdery mildew and yields of seed and seed oil in coriander. Journal of Agricultural Science, 2000, 135, 193-197.	1.3	2
96	Variable Cultivar Response to Control of Powdery Mildew in Coriander (<i>Coriandrum</i>) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50,542 Td (sa	2.7	1
97	Efficacy of combined applications of antagonist bacteria and chemical resistance inducers for the management of Fusarium solanicausing root rot in Withania somnifera. Biocontrol Science and Technology, 2013, 23, 239-244.	1.3	1
98	Endophytic microbes mitigate biotic-abiotic stresses and modulate secondary metabolite pathway in plants. , 2022, , 87-124.		1
99	Synthetic microbial ecology and nanotechnology for the production of Taxol and its precursors. , 2018, , 563-587.		0