

Sajjad Asaf

List of Publications by Year in descending order

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100
papers

4,493
citations

109321

35
h-index

118850

62
g-index

105
all docs

105
docs citations

105
times ranked

3661
citing authors

#	ARTICLE	IF	CITATIONS
1	<i>Sphingomonas</i> : from diversity and genomics to functional role in environmental remediation and plant growth. <i>Critical Reviews in Biotechnology</i> , 2020, 40, 138-152.	9.0	264
2	Plant Secondary Metabolite Biosynthesis and Transcriptional Regulation in Response to Biotic and Abiotic Stress Conditions. <i>Agronomy</i> , 2021, 11, 968.	3.0	256
3	Seed-borne endophytic <i>Bacillus amyloliquefaciens</i> RWL-1 produces gibberellins and regulates endogenous phytohormones of <i>Oryza sativa</i> . <i>Plant Physiology and Biochemistry</i> , 2016, 106, 236-243.	5.8	219
4	What Is There in Seeds? Vertically Transmitted Endophytic Resources for Sustainable Improvement in Plant Growth. <i>Frontiers in Plant Science</i> , 2018, 9, 24.	3.6	208
5	Plant growth promoting endophytic fungi <i>Asprgillus fumigatus</i> TS1 and <i>Fusarium proliferatum</i> BRL1 produce gibberellins and regulates plant endogenous hormones. <i>Symbiosis</i> , 2018, 76, 117-127.	2.3	165
6	Thermotolerance effect of plant growth-promoting <i>Bacillus cereus</i> SA1 on soybean during heat stress. <i>BMC Microbiology</i> , 2020, 20, 175.	3.3	147
7	Indole-3-acetic-acid and ACC deaminase producing <i>Leclercia adecarboxylata</i> MO1 improves <i>Solanum lycopersicum</i> L. growth and salinity stress tolerance by endogenous secondary metabolites regulation. <i>BMC Microbiology</i> , 2019, 19, 80.	3.3	146
8	Plant growth-promoting endophyte <i>Sphingomonas</i> sp. LK11 alleviates salinity stress in <i>Solanum pimpinellifolium</i> . <i>Environmental and Experimental Botany</i> , 2017, 133, 58-69.	4.2	131
9	Endophytic Fungi from Frankincense Tree Improves Host Growth and Produces Extracellular Enzymes and Indole Acetic Acid. <i>PLoS ONE</i> , 2016, 11, e0158207.	2.5	124
10	Melatonin: Awakening the Defense Mechanisms during Plant Oxidative Stress. <i>Plants</i> , 2020, 9, 407.	3.5	124
11	The Complete Chloroplast Genome of Wild Rice (<i>Oryza minuta</i>) and Its Comparison to Related Species. <i>Frontiers in Plant Science</i> , 2017, 8, 304.	3.6	115
12	Metal Resistant Endophytic Bacteria Reduces Cadmium, Nickel Toxicity, and Enhances Expression of Metal Stress Related Genes with Improved Growth of <i>Oryza Sativa</i> , via Regulating Its Antioxidant Machinery and Endogenous Hormones. <i>Plants</i> , 2019, 8, 363.	3.5	111
13	Complete Chloroplast Genome of <i>Nicotiana glauca</i> and its Comparison with Related Species. <i>Frontiers in Plant Science</i> , 2016, 7, 843.	3.6	108
14	Osmoprotective functions conferred to soybean plants via inoculation with <i>Sphingomonas</i> sp. LK11 and exogenous trehalose. <i>Microbiological Research</i> , 2017, 205, 135-145.	5.3	100
15	Bacterial endophytes from arid land plants regulate endogenous hormone content and promote growth in crop plants: an example of <i>Sphingomonas</i> sp. and <i>Serratia marcescens</i> . <i>Journal of Plant Interactions</i> , 2017, 12, 31-38.	2.1	90
16	Alleviation of salt stress response in soybean plants with the endophytic bacterial isolate <i>Curtobacterium</i> sp. SAK1. <i>Annals of Microbiology</i> , 2019, 69, 797-808.	2.6	88
17	Chloroplast genomes of <i>Arabidopsis halleri</i> ssp. <i>gemma</i> and <i>Arabidopsis lyrata</i> ssp. <i>petraea</i> : Structures and comparative analysis. <i>Scientific Reports</i> , 2017, 7, 7556.	3.3	86
18	Plant growth-promoting endophytic bacteria versus pathogenic infections: an example of <i>Bacillus amyloliquefaciens</i> RWL-1 and <i>Fusarium oxysporum</i> f. sp. <i>lycopersici</i> in tomato. <i>PeerJ</i> , 2017, 5, e3107.	2.0	86

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19	Salt tolerance of <i>Glycine max</i> L induced by endophytic fungus <i>Aspergillus flavus</i> CSH1, via regulating its endogenous hormones and antioxidative system. <i>Plant Physiology and Biochemistry</i> , 2018, 128, 13-23.	5.8	84
20	Integrated phytohormone production by the plant growth-promoting rhizobacterium <i>Bacillus tequilensis</i> SSB07 induced thermotolerance in soybean. <i>Journal of Plant Interactions</i> , 2019, 14, 416-423.	2.1	82
21	Halotolerant bacteria mitigate the effects of salinity stress on soybean growth by regulating secondary metabolites and molecular responses. <i>BMC Plant Biology</i> , 2021, 21, 176.	3.6	76
22	<i>Aspergillus niger</i> CSR3 regulates plant endogenous hormones and secondary metabolites by producing gibberellins and indoleacetic acid. <i>Journal of Plant Interactions</i> , 2018, 13, 100-111.	2.1	75
23	Halotolerant Rhizobacterial Strains Mitigate the Adverse Effects of NaCl Stress in Soybean Seedlings. <i>BioMed Research International</i> , 2019, 2019, 1-15.	1.9	69
24	Endophytic <i>Paecilomyces formosus</i> LHL10 Augments <i>Glycine max</i> L. Adaptation to Ni-Contamination through Affecting Endogenous Phytohormones and Oxidative Stress. <i>Frontiers in Plant Science</i> , 2017, 8, 870.	3.6	59
25	Extending thermotolerance to tomato seedlings by inoculation with SA1 isolate of <i>Bacillus cereus</i> and comparison with exogenous humic acid application. <i>PLoS ONE</i> , 2020, 15, e0232228.	2.5	59
26	Complete genome sequencing and analysis of endophytic <i>Sphingomonas</i> sp. LK11 and its potential in plant growth. <i>3 Biotech</i> , 2018, 8, 389.	2.2	58
27	Silicon-induced thermotolerance in <i>Solanum lycopersicum</i> L. via activation of antioxidant system, heat shock proteins, and endogenous phytohormones. <i>BMC Plant Biology</i> , 2020, 20, 248.	3.6	56
28	Comparative analysis of complete plastid genomes from wild soybean (<i>Glycine soja</i>) and nine other <i>Glycine</i> species. <i>PLoS ONE</i> , 2017, 12, e0182281.	2.5	53
29	Complete genome analysis of <i>Serratia marcescens</i> RSC-14: A plant growth-promoting bacterium that alleviates cadmium stress in host plants. <i>PLoS ONE</i> , 2017, 12, e0171534.	2.5	52
30	Gibberellins and indole-3-acetic acid producing rhizospheric bacterium <i>Leifsonia xyli</i> SE134 mitigates the adverse effects of copper-mediated stress on tomato. <i>Journal of Plant Interactions</i> , 2017, 12, 373-380.	2.1	48
31	Halo-tolerant rhizospheric <i>Arthrobacter woluwensis</i> AK1 mitigates salt stress and induces physio-hormonal changes and expression of GmST1 and GmLAX3 in soybean. <i>Symbiosis</i> , 2019, 77, 9-21.	2.3	47
32	Endophytes from medicinal plants and their potential for producing indole acetic acid, improving seed germination and mitigating oxidative stress. <i>Journal of Zhejiang University: Science B</i> , 2017, 18, 125-137.	2.8	46
33	Complete Genome Sequence of <i>Pseudomonas psychrotolerans</i> CS51, a Plant Growth-Promoting Bacterium, Under Heavy Metal Stress Conditions. <i>Microorganisms</i> , 2020, 8, 382.	3.6	45
34	Complete chloroplast genome sequence and comparative analysis of loblolly pine (<i>Pinus taeda</i> L.) with related species. <i>PLoS ONE</i> , 2018, 13, e0192966.	2.5	44
35	Transcriptome wide identification and characterization of NO-responsive WRKY transcription factors in <i>Arabidopsis thaliana</i> L.. <i>Environmental and Experimental Botany</i> , 2018, 148, 128-143.	4.2	39
36	Rhizospheric <i>Bacillus</i> spp. Rescues Plant Growth Under Salinity Stress via Regulating Gene Expression, Endogenous Hormones, and Antioxidant System of <i>Oryza sativa</i> L. <i>Frontiers in Plant Science</i> , 2021, 12, 665590.	3.6	38

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37	Rhizosphere Microbiome of Arid Land Medicinal Plants and Extra Cellular Enzymes Contribute to Their Abundance. <i>Microorganisms</i> , 2020, 8, 213.	3.6	37
38	Rhizobacteria AK1 remediates the toxic effects of salinity stress via regulation of endogenous phytohormones and gene expression in soybean. <i>Biochemical Journal</i> , 2019, 476, 2393-2409.	3.7	36
39	Endophytic fungus <i>Paecilomyces formosus</i> LHL10 produces sester-terpenoid YW3548 and cyclic peptide that inhibit urease and β -glucosidase enzyme activities. <i>Archives of Microbiology</i> , 2018, 200, 1493-1502.	2.2	35
40	Overexpression of OsF3H modulates WBPH stress by alteration of phenylpropanoid pathway at a transcriptomic and metabolomic level in <i>Oryza sativa</i> . <i>Scientific Reports</i> , 2020, 10, 14685.	3.3	35
41	Enhanced Flavonoid Accumulation Reduces Combined Salt and Heat Stress Through Regulation of Transcriptional and Hormonal Mechanisms. <i>Frontiers in Plant Science</i> , 2021, 12, 796956.	3.6	35
42	Expanded inverted repeat region with large scale inversion in the first complete plastid genome sequence of <i>Plantago ovata</i> . <i>Scientific Reports</i> , 2020, 10, 3881.	3.3	34
43	Biochar amendment changes jasmonic acid levels in two rice varieties and alters their resistance to herbivory. <i>PLoS ONE</i> , 2018, 13, e0191296.	2.5	32
44	Mitochondrial Genome Analysis of Wild Rice (<i>Oryza minuta</i>) and Its Comparison with Other Related Species. <i>PLoS ONE</i> , 2016, 11, e0152937.	2.5	31
45	First complete chloroplast genomics and comparative phylogenetic analysis of <i>Commiphora gileadensis</i> and <i>C. foliacea</i> : Myrrh producing trees. <i>PLoS ONE</i> , 2019, 14, e0208511.	2.5	31
46	Additive effects due to biochar and endophyte application enable soybean to enhance nutrient uptake and modulate nutritional parameters. <i>Journal of Zhejiang University: Science B</i> , 2017, 18, 109-124.	2.8	29
47	Isolation and characterization of a novel silicate-solubilizing bacterial strain <i>Burkholderia eburnea</i> CS4-2 that promotes growth of japonica rice (<i>Oryza sativa</i> L. cv. Dongjin). <i>Soil Science and Plant Nutrition</i> , 0, , 1-9.	1.9	28
48	Metabolic and proteomic alteration in phytohormone-producing endophytic <i>Bacillus amyloliquefaciens</i> RWL-1 during methanol utilization. <i>Metabolomics</i> , 2019, 15, 16.	3.0	28
49	<i>Preussia</i> sp. BSL-10 producing nitric oxide, gibberellins, and indole acetic acid and improving rice plant growth. <i>Journal of Plant Interactions</i> , 2018, 13, 112-118.	2.1	26
50	Flavonone 3-hydroxylase Relieves Bacterial Leaf Blight Stress in Rice via Overaccumulation of Antioxidant Flavonoids and Induction of Defense Genes and Hormones. <i>International Journal of Molecular Sciences</i> , 2021, 22, 6152.	4.1	26
51	Drought and UV Radiation Stress Tolerance in Rice Is Improved by Overaccumulation of Non-Enzymatic Antioxidant Flavonoids. <i>Antioxidants</i> , 2022, 11, 917.	5.1	22
52	Complete genome sequence of plant growth-promoting bacterium <i>Leifsonia xyli</i> SE134, a possible gibberellin and auxin producer. <i>Journal of Biotechnology</i> , 2016, 239, 34-38.	3.8	21
53	Gibberellin application ameliorates the adverse impact of short-term flooding on <i>Glycine max</i> L.. <i>Biochemical Journal</i> , 2018, 475, 2893-2905.	3.7	21
54	Unraveling the Chloroplast Genomes of Two <i>Prosopis</i> Species to Identify Its Genomic Information, Comparative Analyses and Phylogenetic Relationship. <i>International Journal of Molecular Sciences</i> , 2020, 21, 3280.	4.1	21

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55	Exogenous application of nitric oxide donors regulates short-term flooding stress in soybean. PeerJ, 2019, 7, e7741.	2.0	20
56	The First Chloroplast Genome Sequence of <i>Boswellia sacra</i> , a Resin-Producing Plant in Oman. PLoS ONE, 2017, 12, e0169794.	2.5	19
57	First draft genome sequencing of indole acetic acid producing and plant growth promoting fungus <i>Preussia</i> sp. BSL10. Journal of Biotechnology, 2016, 225, 44-45.	3.8	18
58	Overexpression of OsCM alleviates BLB stress via phytohormonal accumulation and transcriptional modulation of defense-related genes in <i>Oryza sativa</i> . Scientific Reports, 2020, 10, 19520.	3.3	17
59	From Traditional Breeding to Genome Editing for Boosting Productivity of the Ancient Grain Tef [<i>Eragrostis tef</i> (Zucc.) Trotter]. Plants, 2021, 10, 628.	3.5	16
60	Molecular epidemiology of COVID-19 in Oman: A molecular and surveillance study for the early transmission of COVID-19 in the country. International Journal of Infectious Diseases, 2021, 104, 139-149.	3.3	16
61	Endophytic fungus <i>Bipolaris</i> sp. CSL-1 induces salt tolerance in <i>Glycine max.</i> L via modulating its endogenous hormones, antioxidative system and gene expression. Journal of Plant Interactions, 2022, 17, 319-332.	2.1	16
62	First chloroplast genomics study of <i>Phoenix dactylifera</i> (var. Naghal and Khanezi): A comparative analysis. PLoS ONE, 2018, 13, e0200104.	2.5	15
63	Growth-promoting bioactivities of <i>Bipolaris</i> sp. CSL-1 isolated from <i>Cannabis sativa</i> suggest a distinctive role in modifying host plant phenotypic plasticity and functions. Acta Physiologiae Plantarum, 2019, 41, 1.	2.1	14
64	Biotransformation of benzoin by <i>Sphingomonas</i> sp. LK11 and ameliorative effects on growth of <i>Cucumis sativus</i> . Archives of Microbiology, 2019, 201, 591-601.	2.2	14
65	Rhizospheric microbial communities associated with wild and cultivated frankincense producing <i>Boswellia sacra</i> tree. PLoS ONE, 2017, 12, e0186939.	2.5	13
66	Complete Chloroplast Genome Characterization of <i>Oxalis Corniculata</i> and Its Comparison with Related Species from Family Oxalidaceae. Plants, 2020, 9, 928.	3.5	12
67	Comparative Chloroplast Genomics of Endangered <i>Euphorbia</i> Species: Insights into Hotspot Divergence, Repetitive Sequence Variation, and Phylogeny. Plants, 2020, 9, 199.	3.5	12
68	Complete chloroplast genomes of medicinally important <i>Teucrium</i> species and comparative analyses with related species from Lamiaceae. PeerJ, 2019, 7, e7260.	2.0	12
69	Complete Chloroplast Genomes of <i>Vachellia nilotica</i> and <i>Senegalia senegal</i> : Comparative Genomics and Phylogenomic Placement in a New Generic System. PLoS ONE, 2019, 14, e0225469.	2.5	11
70	Mangrove tree (<i>Avicennia marina</i>): insight into chloroplast genome evolutionary divergence and its comparison with related species from family Acanthaceae. Scientific Reports, 2021, 11, 3586.	3.3	11
71	Biology of Genus <i>Boswellia</i> . , 2019, , .		10
72	Decoding first complete chloroplast genome of toothbrush tree (<i>Salvadora persica</i> L.): insight into genome evolution, sequence divergence and phylogenetic relationship within Brassicales. BMC Genomics, 2021, 22, 312.	2.8	9

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73	Uncovering the first complete plastome genomics, comparative analyses, and phylogenetic dispositions of endemic medicinal plant <i>Ziziphus hajarensis</i> (Rhamnaceae). <i>BMC Genomics</i> , 2022, 23, 83.	2.8	9
74	Mangrove's rhizospheric engineering with bacterial inoculation improve degradation of diesel contamination. <i>Journal of Hazardous Materials</i> , 2022, 423, 127046.	12.4	8
75	Over-Expression of Chorismate Mutase Enhances the Accumulation of Salicylic Acid, Lignin, and Antioxidants in Response to the White-Backed Planthopper in Rice Plants. <i>Antioxidants</i> , 2021, 10, 1680.	5.1	8
76	First reported chloroplast genome sequence of <i>Punica granatum</i> (cultivar Helow) from Jabal Al-Akhdar, Oman: phylogenetic comparative assortment with <i>Lagerstroemia</i> . <i>Genetica</i> , 2018, 146, 461-474.	1.1	7
77	The dynamic history of gymnosperm plastomes: Insights from structural characterization, comparative analysis, phylogenomics, and time divergence. <i>Plant Genome</i> , 2021, 14, e20130.	2.8	7
78	Unraveling the Genome Sequence of Plant Growth Promoting <i>Aspergillus niger</i> (CSR3) Provides Insight into the Synthesis of Secondary Metabolites and Its Comparative Genomics. <i>Journal of Fungi</i> (Basel, Switzerland), 2022, 8, 107.	3.5	7
79	Silicon- and Boron-Induced Physio-Biochemical Alteration and Organic Acid Regulation Mitigates Aluminum Phytotoxicity in Date Palm Seedlings. <i>Antioxidants</i> , 2022, 11, 1063.	5.1	7
80	Microbial Communities Accompanying Cultivated and Wild <i>Boswellia sacra</i> Trees. , 2019, , 123-132.		6
81	WRKYs, the Jack-of-various-Trades, Modulate Dehydration Stress in <i>Populus davidiana</i> 'A Transcriptomic Approach. <i>International Journal of Molecular Sciences</i> , 2019, 20, 414.	4.1	6
82	Transcriptomic analysis of Dubas bug (<i>Ommatissus lybicus</i> Bergevin) infestation to Date Palm. <i>Scientific Reports</i> , 2020, 10, 11505.	3.3	5
83	Modulation of sugar and nitrogen in callus induction media alter PAL pathway, SA and biomass accumulation in rice callus. <i>Plant Cell, Tissue and Organ Culture</i> , 2020, 143, 517-530.	2.3	5
84	Discovery and Validation of a Novel Step Catalyzed by OsF3H in the Flavonoid Biosynthesis Pathway. <i>Biology</i> , 2021, 10, 32.	2.8	5
85	The Plastome Sequences of <i>Triticum sphaerococcum</i> (ABD) and <i>Triticum turgidum</i> subsp. <i>durum</i> (AB) Exhibit Evolutionary Changes, Structural Characterization, Comparative Analysis, Phylogenomics and Time Divergence. <i>International Journal of Molecular Sciences</i> , 2022, 23, 2783.	4.1	5
86	The first complete mitochondrial genome of wild soybean (<i>Glycine soja</i>). <i>Mitochondrial DNA Part B: Resources</i> , 2018, 3, 527-528.	0.4	4
87	Taxonomy, Distribution and Ecology of <i>Boswellia</i> . , 2019, , 11-34.		4
88	First complete mitochondrial genome of <i>Phoenix dactylifera</i> var. <i>Khanezi</i> . <i>Mitochondrial DNA Part B: Resources</i> , 2018, 3, 778-779.	0.4	3
89	Comparative Analysis of Date Palm (<i>Phoenix dactylifera</i> L.) Mitochondrial Genomics. <i>Compendium of Plant Genomes</i> , 2021, , 211-222.	0.5	3
90	Microbiome Variation Across Populations of Desert Halophyte <i>Zygophyllum qatarensis</i> . <i>Frontiers in Plant Science</i> , 2022, 13, 841217.	3.6	3

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91	Frankincense Tree Physiology and Its Responses to Wounding Stress. , 2019, , 53-70.		2
92	Transcriptomics of tapping and healing process in frankincense tree during resin production. Genomics, 2021, 113, 4337-4351.	2.9	2
93	Complete mitochondrial genome sequence of <i>Aspergillus oryzae</i> RIB 127 and its comparative analysis with related species. Mitochondrial DNA Part B: Resources, 2017, 2, 632-633.	0.4	1
94	Frankincense and Human Civilization: A Historical Review. , 2019, , 1-9.		1
95	Frankincense: Tapping, Harvesting and Production. , 2019, , 35-51.		0
96	<i>Boswellia sacra</i> Plastid Genome Sequencing and Comparative Analysis. , 2019, , 103-121.		0
97	Endophytic Microbial Communities of <i>Boswellia</i> . , 2019, , 133-151.		0
98	Resin Composition and Structural Diversity. , 2019, , 153-162.		0
99	Genetic Diversity and Differentiation Among Species and Populations of <i>Boswellia</i> . , 2019, , 85-101.		0
100	Complete mitochondrial genome of endangered Arabian tahr (<i>Arabitragus jayakari</i>) and phylogenetic placement. Mitochondrial DNA Part B: Resources, 2022, 7, 1189-1190.	0.4	0