

Tariq Aftab

List of Publications by Year in descending order

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Version: 2024-02-01

105
papers

2,456
citations

230014

27
h-index

286692

43
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114
all docs

114
docs citations

114
times ranked

1721
citing authors

#	ARTICLE	IF	CITATIONS
1	Cellular Responses, Osmotic Adjustments, and Role of Osmolytes in Providing Salt Stress Resilience in Higher Plants: Polyamines and Nitric Oxide Crosstalk. <i>Journal of Plant Growth Regulation</i> , 2023, 42, 539-553.	2.8	31
2	Molecular Insights into the Role of Reactive Oxygen, Nitrogen and Sulphur Species in Conferring Salinity Stress Tolerance in Plants. <i>Journal of Plant Growth Regulation</i> , 2023, 42, 554-574.	2.8	53
3	Mechanistic insight on boron-mediated toxicity in plant <i>vis-a-vis</i> its mitigation strategies: a review. <i>International Journal of Phytoremediation</i> , 2023, 25, 9-26.	1.7	29
4	Exogenous Strigolactone (GR24) Positively Regulates Growth, Photosynthesis, and Improves Glandular Trichome Attributes for Enhanced Artemisinin Production in <i>Artemisia annua</i> . <i>Journal of Plant Growth Regulation</i> , 2023, 42, 4606-4615.	2.8	19
5	Exogenous hydrogen sulphide alleviates copper stress impacts in <i>Artemisia annua</i> L.: Growth, antioxidant metabolism, glandular trichome development and artemisinin biosynthesis. <i>Plant Biology</i> , 2022, 24, 642-651.	1.8	15
6	Exogenous Melatonin Enhances Cd Tolerance and Phytoremediation Efficiency by Ameliorating Cd-Induced Stress in Oilseed Crops: A Review. <i>Journal of Plant Growth Regulation</i> , 2022, 41, 922-935.	2.8	16
7	Impact of Zinc Oxide and Iron Oxide Nanoparticles on Uptake, Translocation, and Physiological Effects in <i>Oryza sativa</i> L. <i>Journal of Plant Growth Regulation</i> , 2022, 41, 1445-1461.	2.8	26
8	Fractions of gamma-irradiated sodium alginate enhance the growth, enzymatic activities, and essential oil production of lemongrass [<i>Cymbopogon flexuosus</i> (Steud.) Wats]. , 2022, , 257-272.		0
9	The role of soil microorganisms in plant adaptation to abiotic stresses: Current scenario and future perspectives. , 2022, , 233-278.		2
10	Wild relatives of plants as sources for the development of abiotic stress tolerance in plants. , 2022, , 471-518.		13
11	Chitin, chitosan, and chitooligosaccharides: Recent advances and future perspectives. , 2022, , 339-353.		8
12	Climate change impact on plants: Plant responses and adaptations. , 2022, , 1-24.		4
13	Fractions of radiation-processed chitosan induce growth, photosynthesis and secondary metabolism in Java citronella (<i>Cymbopogon winterianus</i> Jowitt). , 2022, , 273-298.		0
14	Improvement in growth, physiological attributes and essential oil production of <i>Vetiveria zizanioides</i> (L.) Nash mediated by soil-applied gamma-irradiated sodium alginate. , 2022, , 299-319.		0
15	Radiation-processed polysaccharides and the enrichment of medicinally imperative bioactive compounds in plants, a review. , 2022, , 227-256.		0
16	Effect of presowing treatment of Co-60 gamma-irradiated chitosan on seed germination and seedling vigor in <i>Eucalyptus citriodora</i> Hook. , 2022, , 321-337.		0
17	A comprehensive review of impacts of diverse nanoparticles on growth, development and physiological adjustments in plants under changing environment. <i>Chemosphere</i> , 2022, 291, 132672.	4.2	36
18	Hydrogen sulphide infiltration downregulates oxidative metabolism and extends postharvest life of banana. <i>Plant Biology</i> , 2022, 24, 697-703.	1.8	15

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19	Exogenous triacontanol provides tolerance against arsenic-induced toxicity by scavenging ROS and improving morphology and physiological activities of <i>Mentha arvensis</i> L. <i>Environmental Pollution</i> , 2022, 295, 118609.	3.7	10
20	Physiological, biochemical, and molecular mechanisms of plant steroid hormones brassinosteroids under drought-induced oxidative stress in plants. , 2022, , 99-130.		1
21	Emerging roles of plant growth regulators for plants adaptation to abiotic stressâ€“induced oxidative stress. , 2022, , 1-72.		7
22	Salicylic Acid Confers Salt Tolerance in Giant Juncao Through Modulation of Redox Homeostasis, Ionic Flux, and Bioactive Compounds: An Ionomics and Metabolomic Perspective of Induced Tolerance Responses. <i>Journal of Plant Growth Regulation</i> , 2022, 41, 1999-2019.	2.8	10
23	Acquisition of physiological modulations in medicinal plants through degraded natural polysaccharides under dynamic environment. , 2022, , 399-414.		3
24	Characterization of wheat germplasm conserved in the Indian National Genebank and establishment of a composite core collection. <i>Crop Science</i> , 2021, 61, 604-620.	0.8	19
25	Jasmonic acid-mediated enhanced regulation of oxidative, glyoxalase defense system and reduced chromium uptake contributes to alleviation of chromium (VI) toxicity in choysum (<i>Brassica</i>) Tj ETQq1 1 0.784314 rgBT /Overlook 10 TFS		10
26	Triacontanol Protects <i>Mentha arvensis</i> L. from Nickel-Instigated Repercussions by Escalating Antioxidant Machinery, Photosynthetic Efficiency and Maintaining Leaf Ultrastructure and Root Morphology. <i>Journal of Plant Growth Regulation</i> , 2021, 40, 1594-1612.	2.8	17
27	Next-generation genetic engineering tools for abiotic stress tolerance in plants. , 2021, , 153-197.		8
28	Potential Uses of Bioactive Compounds of Medicinal Plants and Their Mode of Action in Several Human Diseases. , 2021, , 143-158.		4
29	Exogenous Application of Nitric Oxide Mitigates Water Stress and Reduces Natural Viral Disease Incidence of Tomato Plants Subjected to Deficit Irrigation. <i>Agronomy</i> , 2021, 11, 87.	1.3	20
30	Jasmonates and Salicylates: Mechanisms, Transport and Signalling During Abiotic Stress in Plants. <i>Signaling and Communication in Plants</i> , 2021, , 1-29.	0.5	7
31	Seedling Priming with Sodium Nitroprusside Rescues <i>Vigna radiata</i> from Salinity Stress-Induced Oxidative Damages. <i>Journal of Plant Growth Regulation</i> , 2021, 40, 2454-2464.	2.8	16
32	Carrageenan oligomers and salicylic acid act in tandem to escalate artemisinin production by suppressing arsenic uptake and oxidative stress in <i>Artemisia annua</i> (sweet wormwood) cultivated in high arsenic soil. <i>Environmental Science and Pollution Research</i> , 2021, 28, 42706-42721.	2.7	10
33	With no lysine kinases: the key regulatory networks and phytohormone cross talk in plant growth, development and stress response. <i>Plant Cell Reports</i> , 2021, 40, 2097-2109.	2.8	8
34	Roles of Nitric Oxide in Conferring Multiple Abiotic Stress Tolerance in Plants and Crosstalk with Other Plant Growth Regulators. <i>Journal of Plant Growth Regulation</i> , 2021, 40, 2303-2328.	2.8	38
35	Phytohormones, plant growth regulators and signaling molecules: cross-talk and stress responses. <i>Plant Cell Reports</i> , 2021, 40, 1301-1303.	2.8	14
36	Enhancing artemisinin content in and delivery from <i>Artemisia annua</i> : a review of alternative, classical, and transgenic approaches. <i>Planta</i> , 2021, 254, 29.	1.6	31

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37	Salicylic acid-mediated alleviation of soil boron toxicity in <i>Mentha arvensis</i> and <i>Cymbopogon flexuosus</i> : Growth, antioxidant responses, essential oil contents and components. <i>Chemosphere</i> , 2021, 276, 130153.	4.2	21
38	Targeting Cd coping mechanisms for stress tolerance in <i>Brassica napus</i> under spiked-substrate system: from physiology to remediation perspective. <i>International Journal of Phytoremediation</i> , 2021, , 1-15.	1.7	1
39	Crosstalk among plant growth regulators and signaling molecules during biotic and abiotic stresses: molecular responses and signaling pathways. <i>Plant Cell Reports</i> , 2021, 40, 2017-2019.	2.8	11
40	The Jacalin-Related Lectin HvHorCH Is Involved in the Physiological Response of Barley Roots to Salt Stress. <i>International Journal of Molecular Sciences</i> , 2021, 22, 10248.	1.8	9
41	Molecular Mechanisms of Nitric Oxide (NO) Signaling and Reactive Oxygen Species (ROS) Homeostasis during Abiotic Stresses in Plants. <i>International Journal of Molecular Sciences</i> , 2021, 22, 9656.	1.8	56
42	A comprehensive review of adaptations in plants under arsenic toxicity: Physiological, metabolic and molecular interventions. <i>Environmental Pollution</i> , 2021, 290, 118029.	3.7	28
43	Biosynthesis of Lemongrass Essential Oil and the Underlying Mechanism for Its Insecticidal Activity. , 2021, , 429-443.		1
44	Strigolactones: A Novel Carotenoid-Derived Phytohormone“ Biosynthesis, Transporters, Signalling, and Mechanisms in Abiotic Stress. , 2021, , 275-303.		4
45	Natural Polysaccharides: Novel Plant Growth Regulators. , 2021, , 335-354.		4
46	Emerging roles of osmoprotectant glycine betaine against salt-induced oxidative stress in plants: a major outlook of maize (<i>Zea mays</i> L.). , 2021, , 567-587.		10
47	Photosynthetic and cellular responses in plants under saline conditions. , 2021, , 293-365.		2
48	Role of nickel in regulation of nitrogen metabolism in legume“rhizobium symbiosis under critical conditions. , 2021, , 495-522.		3
49	Inhibitory Effects of Hydrogen Sulfide on Oxidative Damage and Pericarp Browning in Harvested Litchi. <i>Journal of Plant Growth Regulation</i> , 2021, 40, 2560-2569.	2.8	23
50	An Insight into the Role of Plant Growth Regulators in Stimulating Abiotic Stress Tolerance in Some Medicinally Important Plants. , 2021, , 75-100.		7
51	Various Mitigation Approaches Applied to Confer Abiotic Stress Tolerance in Fenugreek (<i>Trigonella</i>) Tj ETQq1 1 0.784314 rgBJ /Overlo		
52	Precise Role of Strigolactones and Its Crosstalk Mechanisms in Root Development. <i>Signaling and Communication in Plants</i> , 2021, , 253-270.	0.5	2
53	Oligomers of carrageenan regulate functional activities and artemisinin production in <i>Artemisia annua</i> L. exposed to arsenic stress. <i>Protoplasma</i> , 2020, 257, 871-887.	1.0	27
54	Mechanistic Insights into Strigolactone Biosynthesis, Signaling, and Regulation During Plant Growth and Development. <i>Journal of Plant Growth Regulation</i> , 2020, 40, 1836.	2.8	14

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55	Silicon-induced postponement of leaf senescence is accompanied by modulation of antioxidative defense and ion homeostasis in mustard (<i>Brassica juncea</i>) seedlings exposed to salinity and drought stress. <i>Plant Physiology and Biochemistry</i> , 2020, 157, 47-59.	2.8	70
56	Exogenous abscisic acid mediates ROS homeostasis and maintains glandular trichome to enhance artemisinin biosynthesis in <i>Artemisia annua</i> under copper toxicity. <i>Plant Physiology and Biochemistry</i> , 2020, 156, 125-134.	2.8	36
57	Salicylic acid restrains arsenic induced oxidative burst in two varieties of <i>Artemisia annua</i> L. by modulating antioxidant defence system and artemisinin production. <i>Ecotoxicology and Environmental Safety</i> , 2020, 202, 110851.	2.9	30
58	Alterations in photosynthetic pigments, antioxidant machinery, essential oil constituents and growth of menthol mint (<i>Mentha arvensis</i> L.) upon nickel exposure. <i>Revista Brasileira De Botanica</i> , 2020, 43, 721-731.	0.5	16
59	Silicon-mediated cellular resilience mechanisms against copper toxicity and glandular trichomes protection for augmented artemisinin biosynthesis in <i>Artemisia annua</i> . <i>Industrial Crops and Products</i> , 2020, 155, 112843.	2.5	8
60	Hyacinth bean (<i>Lablab purpureus</i> L.) – An underutilised crop with future potential. <i>Scientia Horticulturae</i> , 2020, 272, 109551.	1.7	34
61	Impact of Long-Term Copper Exposure on Growth, Photosynthesis, Antioxidant Defence System and Artemisinin Biosynthesis in Soil-Grown <i>Artemisia annua</i> Genotypes. <i>Bulletin of Environmental Contamination and Toxicology</i> , 2020, 104, 609-618.	1.3	16
62	Intimidating Effects of Heavy Metals on <i>Mentha</i> Species and Their Mitigation Using Scientific Approaches. , 2020, , 305-325.		4
63	Effects of boron toxicity on growth, oxidative damage, antioxidant enzymes and essential oil fingerprinting in <i>Mentha arvensis</i> and <i>Cymbopogon flexuosus</i> . <i>Chemical and Biological Technologies in Agriculture</i> , 2020, 7, .	1.9	32
64	The Role of Micronutrients in Growth and Development: Transport and Signalling Pathways from Crosstalk Perspective. , 2020, , 73-81.		2
65	Arsenic Toxicity Induced Changes in Growth, Photosynthetic Pigments, Antioxidant Machinery, Essential Oil, Menthol and Other Active Constituents of Menthol Mint (<i>Mentha arvensis</i> L.). <i>Journal of Essential Oil-bearing Plants: JEOP</i> , 2019, 22, 1333-1348.	0.7	16
66	Triacontanol Improves Production of Anticancer Alkaloids in <i>Catharanthus roseus</i> L.. <i>Asian Journal of Pharmaceutical Research and Health Care</i> , 2019, 11, 21-27.	0.0	0
67	Plant Efficacy and Alkaloids Production in Sadabahar (<i>Catharanthus roseus</i> L.): Role of Potent PGRs and Mineral Nutrients. , 2017, , 35-57.		5
68	The Accumulation and Degradation of Alkaloids in <i>Catharanthus roseus</i> Supported by Various External Agents Under Different Environmental Conditions. , 2017, , 321-329.		2
69	Regulatory Role of Mineral Nutrients in Nurturing of Medicinal Legumes Under Salt Stress. , 2017, , 309-334.		7
70	Nutrients Requirement of Medicinal Plants of Dhofar Region of Oman. , 2017, , 71-80.		0
71	Strategies for Enhancing Artemisinin Production in <i>Artemisia annua</i> Under Changing Environment. , 2017, , 227-246.		1
72	Modulation of physiological activities, active constituents and essential oil production of <i>Mentha arvensis</i> L. by concomitant application of depolymerised carrageenan, triacontanol and 28-homobrassinolide. <i>Journal of Essential Oil Research</i> , 2017, 29, 179-188.	1.3	25

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73	Simultaneous use of irradiated sodium alginate and nitrogen and phosphorus fertilizers enhance growth, biomass and artemisinin biosynthesis in <i>Artemisia annua</i> L.. <i>Journal of Applied Research on Medicinal and Aromatic Plants</i> , 2016, 3, 186-194.	0.9	14
74	Radiation Processed Carrageenan Improves Plant Growth, Physiological Activities, and Alkaloids Production in <i>Catharanthus roseus</i> L.. <i>Advances in Botany</i> , 2015, 2015, 1-11.	3.4	13
75	Radiolytically degraded sodium alginate enhances plant growth, physiological activities and alkaloids production in <i>Catharanthus roseus</i> L.. <i>Journal of Radiation Research and Applied Sciences</i> , 2015, 8, 606-616.	0.7	22
76	Effects of gamma-irradiated sodium alginate on lemongrass: field trials monitoring production of essential oil. <i>Industrial Crops and Products</i> , 2015, 63, 269-275.	2.5	16
77	<i>Artemisia annua</i> - Pharmacology and Biotechnology. , 2014, , .		14
78	Effect of irradiated sodium alginate and phosphorus on biomass and artemisinin production in <i>Artemisia annua</i> . <i>Carbohydrate Polymers</i> , 2014, 110, 396-404.	5.1	33
79	Employing depolymerised sodium alginate, triacontanol and 28-homobrassinolide in enhancing physiological activities, production of essential oil and active components in <i>Mentha arvensis</i> L. <i>Industrial Crops and Products</i> , 2014, 55, 272-279.	2.5	30
80	Effect of Mineral Nutrition, Growth Regulators and Environmental Stresses on Biomass Production and Artemisinin Concentration of <i>Artemisia annua</i> L. , 2014, , 157-172.		4
81	Cumulative role of irradiated sodium alginate and nitrogen fertilizer on growth, biochemical processes and artemisinin production in <i>Artemisia annua</i> . <i>Industrial Crops and Products</i> , 2013, 50, 874-881.	2.5	29
82	Salicylic acid restrains nickel toxicity, improves antioxidant defence system and enhances the production of anticancer alkaloids in <i>Catharanthus roseus</i> (L.). <i>Journal of Hazardous Materials</i> , 2013, 252-253, 367-374.	6.5	49
83	Exogenous salicylic acid stimulates physiological and biochemical changes to improve growth, yield and active constituents of fennel essential oil. <i>Plant Growth Regulation</i> , 2012, 68, 281-291.	1.8	39
84	Exogenous nitric oxide donor protects <i>Artemisia annua</i> from oxidative stress generated by boron and aluminium toxicity. <i>Ecotoxicology and Environmental Safety</i> , 2012, 80, 60-68.	2.9	60
85	Alleviation of salt stress in lemongrass by salicylic acid. <i>Protoplasma</i> , 2012, 249, 709-720.	1.0	48
86	Depolymerised carrageenan enhances physiological activities and menthol production in <i>Mentha arvensis</i> L.. <i>Carbohydrate Polymers</i> , 2012, 87, 1211-1218.	5.1	55
87	Gamma irradiated sodium alginate induced modulation of phosphoenolpyruvate carboxylase and production of essential oil and citral content of lemongrass. <i>Industrial Crops and Products</i> , 2012, 40, 62-68.	2.5	30
88	Brassinosteroid-mediated enrichment in yield attributes, active constituents and essential oil production in <i>Mentha arvensis</i> L.. <i>Russian Agricultural Sciences</i> , 2012, 38, 106-113.	0.1	21
89	Utilizing the ^{13}C -Irradiated Sodium Alginate as a Plant Growth Promoter for Enhancing the Growth, Physiological Activities, and Alkaloids Production in <i>Catharanthus roseus</i> L.. <i>Agricultural Sciences in China</i> , 2011, 10, 1213-1221.	0.6	39
90	Modulation of defence responses by improving photosynthetic activity, antioxidative metabolism, and vincristine and vinblastine accumulation in <i>Catharanthus roseus</i> (L.) G. Don through salicylic acid under water stress. <i>Russian Agricultural Sciences</i> , 2011, 37, 474-482.	0.1	12

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91	Growth, photosynthetic efficiency and metabolic alterations associated with exogenous hydrogen peroxide in <i>Artemisia annua</i> : Overproduction of artemisinin. <i>Russian Agricultural Sciences</i> , 2011, 37, 212-219.	0.1	1
92	Triacontanol-mediated regulation of growth and other physiological attributes, active constituents and yield of <i>Mentha arvensis</i> L.. <i>Plant Growth Regulation</i> , 2011, 65, 195-206.	1.8	44
93	Methyl jasmonate counteracts boron toxicity by preventing oxidative stress and regulating antioxidant enzyme activities and artemisinin biosynthesis in <i>Artemisia annua</i> L.. <i>Protoplasma</i> , 2011, 248, 601-612.	1.0	79
94	Role of Salicylic Acid in Promoting Salt Stress Tolerance and Enhanced Artemisinin Production in <i>Artemisia annua</i> L.. <i>Journal of Plant Growth Regulation</i> , 2011, 30, 425-435.	2.8	108
95	Enhancing the growth, photosynthetic capacity and artemisinin content in <i>Artemisia annua</i> L. by irradiated sodium alginate. <i>Radiation Physics and Chemistry</i> , 2011, 80, 833-836.	1.4	65
96	Influence of alginate oligosaccharides on growth, yield and alkaloid production of opium poppy (<i>Papaver somniferum</i> L.). <i>Frontiers of Agriculture in China</i> , 2011, 5, 122-127.	0.2	60
97	Optimizing nitrogen levels combined with gibberellic acid for enhanced yield, photosynthetic attributes, enzyme activities, and artemisinin content of <i>Artemisia annua</i> . <i>Frontiers of Agriculture in China</i> , 2011, 5, 51-59.	0.2	10
98	Salicylic acid mitigates salinity stress by improving antioxidant defence system and enhances vincristine and vinblastine alkaloids production in periwinkle [<i>Catharanthus roseus</i> (L.) G. Don]. <i>Acta Physiologiae Plantarum</i> , 2011, 33, 987-999.	1.0	103
99	Salicylic acid acts as potent enhancer of growth, photosynthesis and artemisinin production in <i>Artemisia annua</i> L.. <i>Journal of Crop Science and Biotechnology</i> , 2010, 13, 183-188.	0.7	66
100	Boron Induced Oxidative Stress, Antioxidant Defence Response and Changes in Artemisinin Content in <i>Artemisia annua</i> L.. <i>Journal of Agronomy and Crop Science</i> , 2010, 196, 423-430.	1.7	68
101	Stimulation of crop productivity, photosynthesis and artemisinin production in <i>Artemisia annua</i> L. by triacontanol and gibberellic acid application. <i>Journal of Plant Interactions</i> , 2010, 5, 273-281.	1.0	78
102	Phosphorus ameliorates crop productivity, photosynthetic efficiency, nitrogen-fixation, activities of the enzymes and content of nutraceuticals of <i>Lablab purpureus</i> L.. <i>Scientia Horticulturae</i> , 2010, 126, 205-214.	1.7	24
103	Salicylic acid-induced physiological and biochemical changes in lemongrass varieties under water stress. <i>Journal of Plant Interactions</i> , 2010, 5, 293-303.	1.0	109
104	<i>Artemisia annua</i> . , 0, , .		1
105	Irradiated sodium alginate improves plant growth, physiological activities and active constituents in <i>Mentha arvensis</i> L.. <i>Journal of Applied Pharmaceutical Science</i> , 0, , 28-35.	0.7	26