

Saud Alamri

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

92
papers

1,572
citations

24
h-index

36
g-index

107
ext. papers

2,526
ext. citations

4.7
avg, IF

5.25
L-index

#	Paper	IF	Citations
92	Potential of exogenously sourced kinetin in protecting <i>Solanum lycopersicum</i> from NaCl-induced oxidative stress through up-regulation of the antioxidant system, ascorbate-glutathione cycle and glyoxalase system. <i>PLoS ONE</i> , 2018 , 13, e0202175	3.7	107
91	Melatonin and calcium function synergistically to promote the resilience through ROS metabolism under arsenic-induced stress. <i>Journal of Hazardous Materials</i> , 2020 , 398, 122882	12.8	98
90	<i>Bacillus firmus</i> (SW5) augments salt tolerance in soybean (<i>Glycine max</i> L.) by modulating root system architecture, antioxidant defense systems and stress-responsive genes expression. <i>Plant Physiology and Biochemistry</i> , 2018 , 132, 375-384	5.4	82
89	Jasmonic acid alleviates negative impacts of cadmium stress by modifying osmolytes and antioxidants in faba bean (<i>Vicia faba</i> L.). <i>Archives of Agronomy and Soil Science</i> , 2017 , 63, 1889-1899	2	74
88	Effect of foliar applications of silicon and titanium dioxide nanoparticles on growth, oxidative stress, and cadmium accumulation by rice (<i>Oryza sativa</i>). <i>Acta Physiologiae Plantarum</i> , 2019 , 41, 1	2.6	72
87	Exogenous Melatonin Counteracts NaCl-Induced Damage by Regulating the Antioxidant System, Proline and Carbohydrates Metabolism in Tomato Seedlings. <i>International Journal of Molecular Sciences</i> , 2019 , 20,	6.3	68
86	Fertilizers and Their Contaminants in Soils, Surface and Groundwater 2018 , 225-240		67
85	Ascorbic acid improves the tolerance of wheat plants to lead toxicity. <i>Journal of Plant Interactions</i> , 2018 , 13, 409-419	3.8	47
84	Role of Zinc/Lysine on Growth and Chromium Uptake in Rice Plants under Cr Stress. <i>Journal of Plant Growth Regulation</i> , 2018 , 37, 1413-1422	4.7	41
83	Yield, Phytochemical Constituents, and Antibacterial Activity of Essential Oils from the Leaves/Twigs, Branches, Branch Wood, and Branch Bark of Sour Orange (<i>Citrus aurantium</i> L.). <i>Processes</i> , 2019 , 7, 363	2.9	41
82	Antifungal and Antibacterial Activities of Wood Treated with <i>Musa paradisiaca</i> L. Peel Extract: HPLC Analysis of Phenolic and Flavonoid Contents. <i>Processes</i> , 2019 , 7, 215	2.9	37
81	Nitric oxide-mediated cross-talk of proline and heat shock proteins induce thermotolerance in <i>Vicia faba</i> L.. <i>Environmental and Experimental Botany</i> , 2019 , 161, 290-302	5.9	36
80	Exogenous application of nitric oxide and spermidine reduces the negative effects of salt stress on tomato. <i>Horticulture Environment and Biotechnology</i> , 2017 , 58, 537-547	2	36
79	Crosstalk of hydrogen sulfide and nitric oxide requires calcium to mitigate impaired photosynthesis under cadmium stress by activating defense mechanisms in <i>Vigna radiata</i> . <i>Plant Physiology and Biochemistry</i> , 2020 , 156, 278-290	5.4	35
78	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	5.4	33
77	Exogenously applied growth regulators protect the cotton crop from heat-induced injury by modulating plant defense mechanism. <i>Scientific Reports</i> , 2018 , 8, 17086	4.9	33
76	Sodium nitroprusside and indole acetic acid improve the tolerance of tomato plants to heat stress by protecting against DNA damage. <i>Journal of Plant Interactions</i> , 2017 , 12, 177-186	3.8	30

75	Melatonin-Induced Salinity Tolerance by Ameliorating Osmotic and Oxidative Stress in the Seedlings of Two Tomato (<i>Solanum lycopersicum</i> L.) Cultivars. <i>Journal of Plant Growth Regulation</i> , 2020 , 40, 2236	4.7	29
74	Exogenous nitric oxide alleviates sulfur deficiency-induced oxidative damage in tomato seedlings. <i>Nitric Oxide - Biology and Chemistry</i> , 2020 , 94, 95-107	5	28
73	Role of mineral nutrition in alleviation of heat stress in cotton plants grown in glasshouse and field conditions. <i>Scientific Reports</i> , 2019 , 9, 13022	4.9	27
72	Exogenous nitric oxide requires endogenous hydrogen sulfide to induce the resilience through sulfur assimilation in tomato seedlings under hexavalent chromium toxicity. <i>Plant Physiology and Biochemistry</i> , 2020 , 155, 20-34	5.4	27
71	Alpha-tocopherol fertigation confers growth physio-biochemical and qualitative yield enhancement in field grown water deficit wheat (<i>Triticum aestivum</i> L.). <i>Scientific Reports</i> , 2019 , 9, 12924	4.9	25
70	Potential roles of melatonin and sulfur in alleviation of lanthanum toxicity in tomato seedlings. <i>Ecotoxicology and Environmental Safety</i> , 2019 , 180, 656-667	7	25
69	Alleviative role of exogenously applied mannitol in maize cultivars differing in chromium stress tolerance. <i>Environmental Science and Pollution Research</i> , 2019 , 26, 5111-5121	5.1	24
68	Phosphorus Nutrient Management through Synchronization of Application Methods and Rates in Wheat and Maize Crops. <i>Plants</i> , 2020 , 9,	4.5	23
67	Calcium-hydrogen sulfide crosstalk during K-deficient NaCl stress operates through regulation of Na/H antiport and antioxidative defense system in mung bean roots. <i>Plant Physiology and Biochemistry</i> , 2021 , 159, 211-225	5.4	20
66	Evaluation of Drought Tolerance of Some Wheat (<i>Triticum aestivum</i> L.) Genotypes through Phenology, Growth, and Physiological Indices. <i>Agronomy</i> , 2021 , 11, 1792	3.6	20
65	Mitigation of Nickel Toxicity and Growth Promotion in Sesame through the Application of a Bacterial Endophyte and Zeolite in Nickel Contaminated Soil. <i>International Journal of Environmental Research and Public Health</i> , 2020 , 17,	4.6	18
64	Silver Nanoparticle Regulates Salt Tolerance in Wheat Through Changes in ABA Concentration, Ion Homeostasis, and Defense Systems. <i>Biomolecules</i> , 2020 , 10,	5.9	17
63	Mitigation of adverse effects of heat stress on by exogenous application of magnesium. <i>Saudi Journal of Biological Sciences</i> , 2018 , 25, 1393-1401	4	17
62	Synthesis of silver nanoparticles using <i>Plantago lanceolata</i> extract and assessing their antibacterial and antioxidant activities. <i>Scientific Reports</i> , 2021 , 11, 20754	4.9	16
61	Experimental Investigation of <i>Chlorella vulgaris</i> and <i>Enterobacter</i> sp. MN17 for Decolorization and Removal of Heavy Metals from Textile Wastewater. <i>Water (Switzerland)</i> , 2020 , 12, 3034	3	15
60	Melatonin and Gibberellic Acid Promote Growth and Chlorophyll Biosynthesis by Regulating Antioxidant and Methylglyoxal Detoxification System in Tomato Seedlings Under Salinity. <i>Journal of Plant Growth Regulation</i> , 2020 , 39, 1488-1502	4.7	15
59	Improvement of salt and waterlogging tolerance in wheat: comparative physiology of <i>Hordeum marinum</i> - <i>Triticum aestivum</i> amphiploids with their <i>H. marinum</i> and wheat parents. <i>Functional Plant Biology</i> , 2013 , 40, 1168-1178	2.7	15
58	Foliar application of zinc oxide nanoparticles: An effective strategy to mitigate drought stress in cucumber seedling by modulating antioxidant defense system and osmolytes accumulation. <i>Chemosphere</i> , 2021 , 289, 133202	8.4	14

57	Mitigation of arsenate toxicity by indole-3-acetic acid in brinjal roots: Plausible association with endogenous hydrogen peroxide. <i>Journal of Hazardous Materials</i> , 2021 , 405, 124336	12.8	12
56	Exploring the potential effect of <i>Achnatherum splendens</i> L.-derived biochar treated with phosphoric acid on bioavailability of cadmium and wheat growth in contaminated soil.. <i>Environmental Science and Pollution Research</i> , 2022 , 1	5.1	11
55	Molybdenum and hydrogen sulfide synergistically mitigate arsenic toxicity by modulating defense system, nitrogen and cysteine assimilation in faba bean (<i>Vicia faba</i> L.) seedlings. <i>Environmental Pollution</i> , 2021 , 290, 117953	9.3	11
54	Seed priming with gibberellic acid induces high salinity tolerance in <i>Pisum sativum</i> through antioxidants, secondary metabolites and up-regulation of antiporter genes. <i>Plant Biology</i> , 2021 , 23 Suppl 1, 113-121	3.7	10
53	Dose dependent differential effects of toxic metal cadmium in tomato roots: Role of endogenous hydrogen sulfide. <i>Ecotoxicology and Environmental Safety</i> , 2020 , 203, 110978	7	9
52	Efficiency of Wheat Straw Biochar in Combination with Compost and Biogas Slurry for Enhancing Nutritional Status and Productivity of Soil and Plant. <i>Plants</i> , 2020 , 9,	4.5	8
51	Strigolactone (GR24) Induced Salinity Tolerance in Sunflower (<i>Helianthus annuus</i> L.) by Ameliorating Morpho-Physiological and Biochemical Attributes Under In Vitro Conditions. <i>Journal of Plant Growth Regulation</i> , 2020 , 40, 2079	4.7	8
50	Enhanced Growth of Mungbean and Remediation of Petroleum Hydrocarbons by <i>Enterobacter</i> sp. MN17 and Biochar Addition in Diesel Contaminated Soil. <i>Applied Sciences (Switzerland)</i> , 2020 , 10, 8548	2.6	8
49	Biosynthesized gold nanoparticles maintained nitrogen metabolism, nitric oxide synthesis, ions balance, and stabilizes the defense systems to improve salt stress tolerance in wheat. <i>Chemosphere</i> , 2022 , 287, 132142	8.4	8
48	A mini-review of anti-hepatitis B virus activity of medicinal plants. <i>Biotechnology and Biotechnological Equipment</i> , 2017 , 31, 9-15	1.6	7
47	Impact of Coating of Urea with -Augmented Zinc Oxide on Wheat Grown under Salinity Stress. <i>Plants</i> , 2020 , 9,	4.5	7
46	Soil Fertility, N ₂ Fixation and Yield of Chickpea as Influenced by Long-Term Biochar Application under Mung-Chickpea Cropping System. <i>Sustainability</i> , 2020 , 12, 9008	3.6	7
45	Adsorption of azo and anthraquinone dye by using watermelon peel powder and corn peel powder: equilibrium and kinetic studies. <i>Biointerface Research in Applied Chemistry</i> , 2020 , 10, 4706-4713	2.8	7
44	Effect of Nitric Oxide on Seed Germination and Seedling Development of Tomato Under Chromium Toxicity. <i>Journal of Plant Growth Regulation</i> , 2020 , 1	4.7	7
43	Influence of ecological and edaphic factors on biodiversity of soil nematodes. <i>Saudi Journal of Biological Sciences</i> , 2021 , 28, 3049-3059	4	7
42	Antibacterial and Antifungal Activity of the Extracts of Different Parts of (<i>Forssk.</i>) <i>Vierh.</i> <i>Plants</i> , 2021 , 10,	4.5	7
41	Phosphorus supplementation modulates nitric oxide biosynthesis and stabilizes the defence system to improve arsenic stress tolerance in mustard. <i>Plant Biology</i> , 2021 , 23 Suppl 1, 152-161	3.7	7
40	Effects of ZnO nanoparticles and its bulk form on growth, antioxidant defense system and expression of oxidative stress related genes in <i>Hordeum vulgare</i> L. <i>Chemosphere</i> , 2022 , 287, 132167	8.4	7

39	Effect of zinc nanoparticles seed priming and foliar application on the growth and physio-biochemical indices of spinach (<i>Spinacia oleracea</i> L.) under salt stress.. <i>PLoS ONE</i> , 2022 , 17, e0263194	3.7	7
38	Priming of tomato seedlings with 2-oxoglutarate induces arsenic toxicity alleviatory responses by involving endogenous nitric oxide. <i>Physiologia Plantarum</i> , 2021 , 173, 45-57	4.6	6
37	Application of soil biofertilizers to a clayey soil contaminated with <i>Sclerotium rolfsii</i> can promote production, protection and nutritive status of <i>Phaseolus vulgaris</i> . <i>Chemosphere</i> , 2021 , 271, 129321	8.4	6
36	Antioxidant, Hypoglycemic, and Neurobehavioral Effects of a Leaf Extract of on Autoimmune Diabetic Mice. <i>Evidence-based Complementary and Alternative Medicine</i> , 2019 , 2019, 1263260	2.3	5
35	Synthesis of Pyrazolin-5-one Derivatives Clubbed with Thiazole and/or Thiadiazole and Evaluation of Their Antioxidant and Cytotoxic Activities. <i>ChemistrySelect</i> , 2019 , 4, 11735-11739	1.8	5
34	Molybdenum-induced endogenous nitric oxide (NO) signaling coordinately enhances resilience through chlorophyll metabolism, osmolyte accumulation and antioxidant system in arsenate stressed-wheat (<i>Triticum aestivum</i> L.) seedlings. <i>Environmental Pollution</i> , 2022 , 292, 118268	9.3	5
33	Salicylic Acid Modulates Antioxidant System, Defense Metabolites, and Expression of Salt Transporter Genes in <i>Pisum sativum</i> Under Salinity Stress. <i>Journal of Plant Growth Regulation</i> , 2020 , 1	4.7	5
32	Mitigation of bacterial spot disease induced biotic stress in <i>Capsicum annum</i> L. cultivars via antioxidant enzymes and isoforms. <i>Scientific Reports</i> , 2021 , 11, 9445	4.9	5
31	Hydrogen sulfide (HS) and potassium (K) synergistically induce drought stress tolerance through regulation of H-ATPase activity, sugar metabolism, and antioxidative defense in tomato seedlings. <i>Plant Cell Reports</i> , 2021 , 40, 1543-1564	5.1	5
30	Exploring the potential of moringa leaf extract as bio stimulant for improving yield and quality of black cumin oil.. <i>Scientific Reports</i> , 2021 , 11, 24217	4.9	5
29	Salicylic Acid Improves Nitrogen Fixation, Growth, Yield and Antioxidant Defence Mechanisms in Chickpea Genotypes Under Salt Stress. <i>Journal of Plant Growth Regulation</i> , 1	4.7	4
28	Performance of <i>Zea mays</i> L. cultivars in tannery polluted soils: Management of chromium phytotoxicity through the application of biochar and compost. <i>Physiologia Plantarum</i> , 2021 , 173, 129-147	4.6	4
27	Effect of Plant Spacings on Growth, Physiology, Yield and Fiber Quality Attributes of Cotton Genotypes under Nitrogen Fertilization. <i>Agronomy</i> , 2021 , 11, 2589	3.6	4
26	Effect of Elevated CO on Biomolecules Accumulation in Caraway (<i>L.</i>) Plants at Different Developmental Stages. <i>Plants</i> , 2021 , 10,	4.5	3
25	Integration of high seeding densities and criss cross row planting pattern suppresses weeds and increases grain yield of spring wheat. <i>Journal of Environmental Biology</i> , 2017 , 38, 1139-1145	1.6	3
24	Impact of Metal-Based Nanoparticles on Cambisol Microbial Functionality, Enzyme Activity, and Plant Growth. <i>Plants</i> , 2021 , 10,	4.5	3
23	Ascorbate and glutathione independently alleviate arsenate toxicity in brinjal but both require endogenous nitric oxide. <i>Physiologia Plantarum</i> , 2021 , 173, 276-286	4.6	3
22	Zinc Oxide Nanoparticles Interplay With Physiological and Biochemical Attributes in Terminal Heat Stress Alleviation in Mungbean (<i>L.</i>).. <i>Frontiers in Plant Science</i> , 2022 , 13, 842349	6.2	3

21	Seed germination ecology of <i>Conyza stricta</i> Willd. and implications for management. <i>PLoS ONE</i> , 2020 , 15, e0244059	3.7	2
20	Seed Priming with Mg(NO ₃) ₂ and ZnSO ₄ Salts Triggers the Germination and Growth Attributes Synergistically in Wheat Varieties. <i>Agronomy</i> , 2021 , 11, 2110	3.6	2
19	Boron induces seed germination and seedling growth of <i>Hordeum vulgare</i> L. under NaCl stress. <i>Journal of Advances in Agriculture</i> , 8 , 1224-1234		2
18	Effects of rice straw biochar and nitrogen fertilizer on ramie (<i>Boehmeria nivea</i> L.) morpho-physiological traits, copper uptake and post-harvest soil characteristics, grown in an aged-copper contaminated soil. <i>Journal of Plant Nutrition</i> , 1-14	2.3	2
17	Arsenic Accumulation in Rice Grain as Influenced by Water Management: Human Health Risk Assessment. <i>Agronomy</i> , 2021 , 11, 1741	3.6	2
16	Synthesis of Bis-(2-thiazolyl)amine Analogues and Evaluation of Their Antibacterial, Antioxidant and Cytotoxic Activities. <i>ChemistrySelect</i> , 2019 , 4, 11726-11734	1.8	1
15	Nickel tolerance and phytoremediation potential of quinoa are modulated under salinity: multivariate comparison of physiological and biochemical attributes.. <i>Environmental Geochemistry and Health</i> , 2022 ,	4.7	1
14	Potential Importance of Molybdenum Priming to Metabolism and Nutritive Value of spp. Sprouts. <i>Plants</i> , 2021 , 10,	4.5	1
13	Potential Use of as a Biostimulant for Improving the Growth Performance of (Jacq.) Marechal. <i>Plants</i> , 2021 , 10,	4.5	1
12	Developmental Stages-Specific Response of Anise Plants to Laser-Induced Growth, Nutrients Accumulation, and Essential Oil Metabolism.. <i>Plants</i> , 2021 , 10,	4.5	1
11	Deciphering the Potential of Bioactivated Rock Phosphate and Di-Ammonium Phosphate on Agronomic Performance, Nutritional Quality and Productivity of Wheat (<i>Triticum aestivum</i> L.). <i>Agronomy</i> , 2021 , 11, 684	3.6	1
10	FRET-Based Genetically Encoded Nanosensor for Real-Time Monitoring of the Flux of β -Tocopherol in Living Cells. <i>ACS Omega</i> , 2021 , 6, 9020-9027	3.9	1
9	Iron Oxide and Silicon Nanoparticles Modulate Mineral Nutrient Homeostasis and Metabolism in Cadmium-Stressed .. <i>Frontiers in Plant Science</i> , 2022 , 13, 806781	6.2	1
8	Effects of Different Nitrogen Forms and Competitive Treatments on the Growth and Antioxidant System of and Under High Nitrogen Concentrations.. <i>Frontiers in Plant Science</i> , 2022 , 13, 851099	6.2	1
7	Calcium Nanoparticles Impregnated With Benzenedicarboxylic Acid: A New Approach to Alleviate Combined Stress of DDT and Cadmium in by Modulating Bioaccumulation, Antioxidative Machinery and Osmoregulators.. <i>Frontiers in Plant Science</i> , 2022 , 13, 825829	6.2	1
6	Combined Effect of Animal Manures and Di-Ammonium Phosphate (DAP) on Growth, Physiology, Root Nodulation and Yield of Chickpea. <i>Agronomy</i> , 2022 , 12, 674	3.6	1
5	Designing novel MgFeO coupled VO nanorod for synergetic photodegradation of tetracycline with enhanced visible-light energy harvesting: Photoluminescence, kinetics, intrinsic mechanism and bactericidal effect.. <i>Chemosphere</i> , 2022 , 134012	8.4	1
4	Iron oxide nanoparticles doped biochar ameliorates trace elements induced phytotoxicity in tomato by modulation of physiological and biochemical responses: Implications for human health risk.. <i>Chemosphere</i> , 2021 , 289, 133203	8.4	0

- 3 Cysteine and Hydrogen Sulfide: A Complementary Association for Plant Acclimation to Abiotic Stress. *Plant in Challenging Environments*, **2021**, 187-214 ○
- 2 Nitrogen and potassium application effects on productivity, profitability and nutrient use efficiency of irrigated wheat (*Triticum aestivum* L.). *PLoS ONE*, **2022**, 17, e0264210 3.7 ○
- 1 Full sunlight acclimation mechanisms in *Riccia discolor* thalli: Assessment at morphological, anatomical, and biochemical levels. *Journal of Photochemistry and Photobiology B: Biology*, **2020**, 210, 111983 6.7