

Muhammad Ashraf

List of Publications by Year in Descending Order

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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.

365
papers

13,908
citations

60
h-index

104
g-index

370
ext. papers

17,452
ext. citations

4.1
avg, IF

7.3
L-index

| # | Paper | IF | Citations |
|-----|--|------|-----------|
| 365 | Modulation in Plant Micro-structures Through Soil Physicochemical Properties Determines Survival of <i>Salsola imbricata</i> Forssk. in Hypersaline Environments. <i>Journal of Soil Science and Plant Nutrition</i> , 2022 , 22, 861 | 3.2 | 0 |
| 364 | Clinical efficacy of iodine complex in SARS-CoV-2-infected patients with mild to moderate symptoms: study protocol for a randomized controlled trial.. <i>Trials</i> , 2022 , 23, 58 | 2.8 | 0 |
| 363 | Leaf extract of neem () alleviates adverse effects of drought in quinoa (Willd.) plants through alterations in biochemical attributes and antioxidants.. <i>Saudi Journal of Biological Sciences</i> , 2022 , 29, 1367-1374 | 4 | 3 |
| 362 | Role of Glycine Betaine in the Thermotolerance of Plants. <i>Agronomy</i> , 2022 , 12, 276 | 3.6 | 5 |
| 361 | Contribution of structural and functional modifications to wide distribution of Bermuda grass <i>Cynodon dactylon</i> (L) Pers.. <i>Flora: Morphology, Distribution, Functional Ecology of Plants</i> , 2022 , 286, 151973 | 1.9 | 0 |
| 360 | Alteration in soil arsenic dynamics and toxicity to sunflower (<i>Helianthus annuus</i> L.) in response to phosphorus in different textured soils. <i>Chemosphere</i> , 2022 , 287, 132406 | 8.4 | 1 |
| 359 | Do soil conservation practices exceed their relevance as a countermeasure to greenhouse gases emissions and increase crop productivity in agriculture?. <i>Science of the Total Environment</i> , 2022 , 805, 150337 | 10.2 | 4 |
| 358 | Effects on Photosynthetic Response and Biomass Productivity of ssp. Under Elevated CO and Water-Limited Regimes.. <i>Frontiers in Plant Science</i> , 2022 , 13, 817730 | 6.2 | 1 |
| 357 | Structural and functional responses in widespread distribution of some dominant grasses along climatic elevation gradients. <i>Flora: Morphology, Distribution, Functional Ecology of Plants</i> , 2022 , 289, 152034 | 1.9 | 0 |
| 356 | Tartaric acid soil-amendment increases phytoextraction potential through root to shoot transfer of lead in turnip.. <i>Chemosphere</i> , 2022 , 296, 134055 | 8.4 | 1 |
| 355 | Contribution of structural and functional adaptations of hyper-accumulator <i>Suaeda vera</i> Forssk. ex J.F. Gmel. for adaptability across salinity gradients in hot desert.. <i>Environmental Science and Pollution Research</i> , 2022 , 1 | 5.1 | 0 |
| 354 | Prevalence of antibiotic resistance pattern in shigella isolates procured from pediatric patients at Faisalabad - Pakistan.. <i>Pakistan Journal of Pharmaceutical Sciences</i> , 2022 , 35, 41-48 | 0.4 | 0 |
| 353 | Anatomical and physiological features modulate ion homeostasis and osmoregulation in aquatic halophyte <i>Fimbristylis complanata</i> (Retz.) link. <i>Acta Physiologiae Plantarum</i> , 2022 , 44, 1 | 2.6 | 0 |
| 352 | Survival strategies in two high altitude <i>Sorghum</i> species from western Himalayas. <i>Acta Physiologiae Plantarum</i> , 2022 , 44, 1 | 2.6 | 0 |
| 351 | Ridge-Furrow Mulching Enhances Capture and Utilization of Rainfall for Improved Maize Production under Rain-Fed Conditions. <i>Agronomy</i> , 2022 , 12, 1187 | 3.6 | 0 |
| 350 | Thiamin stimulates growth, yield quality and key biochemical processes of cauliflower (<i>Brassica oleracea</i> L. var. <i>Botrytis</i>) under arid conditions. <i>PLoS ONE</i> , 2022 , 17, e0266372 | 3.7 | 0 |
| 349 | Methionine-induced regulation of growth, secondary metabolites and oxidative defense system in sunflower (<i>Helianthus annuus</i> L.) plants subjected to water deficit stress. <i>PLoS ONE</i> , 2021 , 16, e0259585 | 3.7 | 3 |

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| 348 | Antioxidants as modulators of arsenic-induced oxidative stress tolerance in plants: An overview. <i>Journal of Hazardous Materials</i> , 2021 , 127891 | 12.8 | 5 |
| 347 | Sodium hydrosulfite together with silicon detoxifies arsenic toxicity in tomato plants by modulating the AsA-GSH cycle. <i>Environmental Pollution</i> , 2021 , 294, 118608 | 9.3 | 1 |
| 346 | Sugar beet extract rich in glycine betaine modulates oxidative defense system and key physiological characteristics of maize under water-deficit stress. <i>PLoS ONE</i> , 2021 , 16, e0254906 | 3.7 | 2 |
| 345 | Influence of Glycine Betaine (Natural and Synthetic) on Growth, Metabolism and Yield Production of Drought-Stressed Maize (L.) Plants. <i>Plants</i> , 2021 , 10, | 4.5 | 4 |
| 344 | Structural responses of differentially adapted <i>Cenchrus setigerus</i> Vahl ecotypes to water deficit. <i>Environmental and Experimental Botany</i> , 2021 , 104746 | 5.9 | 1 |
| 343 | The combined supplementation of melatonin and salicylic acid effectively detoxifies arsenic toxicity by modulating phytochelatin and nitrogen metabolism in pepper plants.. <i>Environmental Pollution</i> , 2021 , 118727 | 9.3 | 0 |
| 342 | Structural and Functional Determinants of Physiological Pliability in <i>Kyllinga brevifolia</i> Rottb. for Survival in Hyper-Saline Saltmarshes. <i>Water, Air, and Soil Pollution</i> , 2021 , 232, 1 | 2.6 | 2 |
| 341 | Seed Treatment with Tocopherol Regulates Growth and Key Physio-Biochemical Attributes in Carrot (<i>Daucus carota</i> L.) Plants under Water Limited Regimes. <i>Agronomy</i> , 2021 , 11, 469 | 3.6 | 17 |
| 340 | Nanoparticles potentially mediate salt stress tolerance in plants. <i>Plant Physiology and Biochemistry</i> , 2021 , 160, 257-268 | 5.4 | 33 |
| 339 | Adaptive traits for drought tolerance in red-grained wheat (<i>Triticum aestivum</i> L.) landraces. <i>Arid Land Research and Management</i> , 2021 , 35, 414-445 | 1.8 | 4 |
| 338 | Identification of novel source of salt tolerance in local bread wheat germplasm using morpho-physiological and biochemical attributes. <i>Scientific Reports</i> , 2021 , 11, 10854 | 4.9 | 6 |
| 337 | Silicon attenuates the negative effects of chromium stress in tomato plants by modifying antioxidant enzyme activities, ascorbate-glutathione cycle and glyoxalase system. <i>Acta Physiologiae Plantarum</i> , 2021 , 43, 1 | 2.6 | 6 |
| 336 | Improving growth and photosynthetic performance of drought stressed tomato by application of nano-organic fertilizer involves up-regulation of nitrogen, antioxidant and osmolyte metabolism. <i>Ecotoxicology and Environmental Safety</i> , 2021 , 216, 112195 | 7 | 32 |
| 335 | An in vitro antiviral activity of iodine complexes against SARS-CoV-2. <i>Archives of Microbiology</i> , 2021 , 203, 4743-4749 | 3 | 1 |
| 334 | Nitric Oxide is Required for Aminolevulinic Acid-Induced Salt Tolerance by Lowering Oxidative Stress in Maize (<i>Zea mays</i>). <i>Journal of Plant Growth Regulation</i> , 2021 , 40, 617-627 | 4.7 | 5 |
| 333 | Impact of exogenously applied trehalose on leaf biochemistry, achene yield and oil composition of sunflower under drought stress. <i>Physiologia Plantarum</i> , 2021 , 172, 317-333 | 4.6 | 43 |
| 332 | Advances in Salt Tolerance of Some Major Fiber Crops Through Classical and Advanced Biotechnological Tools: A Review. <i>Journal of Plant Growth Regulation</i> , 2021 , 40, 891-905 | 4.7 | 3 |
| 331 | Bioregulators: unlocking their potential role in regulation of the plant oxidative defense system. <i>Plant Molecular Biology</i> , 2021 , 105, 11-41 | 4.6 | 16 |

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|-----|--|------|----|
| 330 | Effect of animal manure, crop type, climate zone, and soil attributes on greenhouse gas emissions from agricultural soils: A global meta-analysis. <i>Journal of Cleaner Production</i> , 2021 , 278, 124019 | 10.3 | 38 |
| 329 | Immobilization of Pb and Cu by organic and inorganic amendments in contaminated soil. <i>Geoderma</i> , 2021 , 385, 114803 | 6.7 | 20 |
| 328 | Comparative transcriptome analysis reveals the regulatory effects of acetylcholine on salt tolerance of <i>Nicotiana benthamiana</i> . <i>Phytochemistry</i> , 2021 , 181, 112582 | 4 | 12 |
| 327 | Nitric oxide donor, sodium nitroprusside, mitigates mercury toxicity in different cultivars of soybean. <i>Journal of Hazardous Materials</i> , 2021 , 408, 124852 | 12.8 | 13 |
| 326 | Thiamin stimulates growth and secondary metabolites in turnip (<i>Brassica rapa</i> L.) leaf and root under drought stress. <i>Physiologia Plantarum</i> , 2021 , 172, 1399-1411 | 4.6 | 9 |
| 325 | Linking changes in chlorophyll a fluorescence with drought stress susceptibility in mung bean [<i>Vigna radiata</i> (L.) Wilczek]. <i>Physiologia Plantarum</i> , 2021 , 172, 1244-1254 | 4.6 | 9 |
| 324 | Ensuring Food Security of Arid Regions through Sustainable Cultivation of Halophytes 2021 , 2191-2210 | | 1 |
| 323 | Salinity resistance as a function of NH ₄ ⁺ :NO ₃ ⁻ ratio and its impact on yield and quality of tomato (<i>Solanum lycopersicum</i> L.). <i>Journal of Plant Nutrition and Soil Science</i> , 2021 , 184, 246-254 | 2.3 | 2 |
| 322 | Activity of ethanolic extract of <i>Eucalyptus globulus</i> leaves against multi drug resistant poultry pathogens in broiler chicks. <i>Cellular and Molecular Biology</i> , 2021 , 67, 153-158 | 1.1 | |
| 321 | Micro-morphological response of some native dicotyledonous species to particulate pollutants emitted from stone crushing activities. <i>Environmental Science and Pollution Research</i> , 2021 , 28, 25529-25541 | 5.1 | 0 |
| 320 | Phytochemical composition and In-vitro activity of ethanolic extract of <i>Eucalyptus globulus</i> leaves against multidrug resistant poultry pathogens. <i>Cellular and Molecular Biology</i> , 2021 , 67, 159-164 | 1.1 | 1 |
| 319 | Pyramiding of toxins and methanol producing genes to increase insect resistance in cotton. <i>GM Crops and Food</i> , 2021 , 12, 382-395 | 2.7 | 3 |
| 318 | A global meta-analysis of greenhouse gases emission and crop yield under no-tillage as compared to conventional tillage. <i>Science of the Total Environment</i> , 2021 , 750, 142299 | 10.2 | 51 |
| 317 | Structural and functional responses in sun spurge (<i>Euphorbia helioscopia</i> L.) against post-emergence herbicides in wheat (<i>Triticum aestivum</i> L.). <i>Weed Research</i> , 2021 , 61, 126-136 | 1.9 | |
| 316 | A quadruple blinded placebo controlled randomised trial to evaluate the effectiveness of an Iodine complex for patients with mild to moderate COVID-19 in Pakistan (I-COVID-PK): A structured summary of a study protocol for a randomised controlled trial. <i>Trials</i> , 2021 , 22, 127 | 2.8 | 2 |
| 315 | Peroxidase activity and operation of photo-protective component of NPQ play key roles in drought tolerance of mung bean [<i>Vigna radiata</i> (L.) Wilczek]. <i>Physiologia Plantarum</i> , 2021 , 172, 603-614 | 4.6 | 8 |
| 314 | Stomatal State Identification and Classification in Quinoa Microscopic Imprints through Deep Learning. <i>Complexity</i> , 2021 , 2021, 1-9 | 1.6 | |
| 313 | Methyl Jasmonate and Sodium Nitroprusside Jointly Alleviate Cadmium Toxicity in Wheat (L.) Plants by Modifying Nitrogen Metabolism, Cadmium Detoxification, and AsA-GSH Cycle. <i>Frontiers in Plant Science</i> , 2021 , 12, 654780 | 6.2 | 6 |

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| 312 | Transferring of Lactobacillus antibiotic resistant genes to Salmonella. <i>Abasyn Journal of Life Sciences</i> , 2021 , 145-151 | 0 | |
| 311 | Development and Characterization of Efficient K-Solubilizing Rhizobacteria and Mesorhizobial Inoculants for Chickpea. <i>Sustainability</i> , 2021 , 13, 10240 | 3.6 | 0 |
| 310 | Knowledge, attitude, and practice of clinicians about antimicrobial stewardship and resistance among hospitals of Pakistan: a multicenter cross-sectional study. <i>Environmental Science and Pollution Research</i> , 2021 , 1 | 5.1 | 1 |
| 309 | Anti-COVID property of subcutaneous ivermectin in synergy with zinc among midlife moderately symptomatic patients: a structured summary of a study protocol for a randomised controlled trial. <i>Trials</i> , 2021 , 22, 591 | 2.8 | 2 |
| 308 | Endogenous nitric oxide and its potential sources regulate glutathione-induced cadmium stress tolerance in maize plants. <i>Plant Physiology and Biochemistry</i> , 2021 , 167, 723-737 | 5.4 | 0 |
| 307 | Coordinated impact of ion exclusion, antioxidants and photosynthetic potential on salt tolerance of ridge gourd [<i>Luffa acutangula</i> (L.) Roxb.]. <i>Plant Physiology and Biochemistry</i> , 2021 , 167, 517-528 | 5.4 | 3 |
| 306 | Growth, yield and arsenic accumulation by wheat grown in a pressmud amended salt-affected soil irrigated with arsenic contaminated water. <i>Ecotoxicology and Environmental Safety</i> , 2021 , 224, 112692 | 7 | 1 |
| 305 | Does biochar accelerate the mitigation of greenhouse gaseous emissions from agricultural soil? - A global meta-analysis. <i>Environmental Research</i> , 2021 , 202, 111789 | 7.9 | 13 |
| 304 | Assessment of heterosis proteins in maize (<i>Zea mays</i> L.) leaves by two-dimensional gel electrophoresis. <i>Plant Gene</i> , 2021 , 28, 100331 | 3.1 | 0 |
| 303 | Distribution and antibiotic sensitivity pattern of Mycobacterium tuberculosis isolates from children, enrolled in a tertiary care hospital. <i>Pakistan Journal of Pharmaceutical Sciences</i> , 2021 , 34, 761-765 | 0.4 | |
| 302 | Appraisal of anti-mycobacterial potential against MDR-MTB in pediatric patients, cytotoxicity and mutagenicity of Aloe vera and Allium sativum. <i>Pakistan Journal of Pharmaceutical Sciences</i> , 2021 , 34, 257-263 | 0.4 | |
| 301 | Is Photoprotection of PSII One of the Key Mechanisms for Drought Tolerance in Maize?. <i>International Journal of Molecular Sciences</i> , 2021 , 22, | 6.3 | 2 |
| 300 | In-Vitro evaluation of probiotic effect of Lactobacillus species for the inhibition of biofilm formation by Candida albicans. <i>Abasyn Journal of Life Sciences</i> , 2021 , 66-74 | 0 | |
| 299 | Integrative roles of nitric oxide and hydrogen sulfide in melatonin-induced tolerance of pepper (<i>Capsicum annuum</i> L.) plants to iron deficiency and salt stress alone or in combination. <i>Physiologia Plantarum</i> , 2020 , 168, 256-277 | 4.6 | 85 |
| 298 | Genetic Variation Studies of Ionic and within Boll Yield Components in Cotton (<i>Gossypium Hirsutum</i> L.) Under Salt Stress. <i>Journal of Natural Fibers</i> , 2020 , 1-20 | 1.8 | 4 |
| 297 | Silicon is dependent on hydrogen sulphide to improve boron toxicity tolerance in pepper plants by regulating the AsA-GSH cycle and glyoxalase system. <i>Chemosphere</i> , 2020 , 257, 127241 | 8.4 | 21 |
| 296 | Salicylic acid-induced nitric oxide enhances arsenic toxicity tolerance in maize plants by upregulating the ascorbate-glutathione cycle and glyoxalase system. <i>Journal of Hazardous Materials</i> , 2020 , 399, 123020 | 12.8 | 83 |
| 295 | Ridge-furrow plastic film mulching farming for sustainable dryland agriculture on the Chinese loess plateau. <i>Agronomy Journal</i> , 2020 , 112, 3284-3294 | 2.2 | 12 |

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| 294 | 24-Epibrassinolide Alleviates the Injurious Effects of Cr(VI) Toxicity in Tomato Plants: Insights into Growth, Physio-Biochemical Attributes, Antioxidant Activity and Regulation of Ascorbate-Glutathione and Glyoxalase Cycles. <i>Journal of Plant Growth Regulation</i> , 2020 , 39, 1587-1604 | 4.7 | 30 |
| 293 | Exogenous application of L-methionine mitigates the drought-induced oddities in biochemical and anatomical responses of bitter melon (<i>Momordica charantia</i> L.). <i>Scientia Horticulturae</i> , 2020 , 267, 109333 | 4.1 | 7 |
| 292 | Zinc Oxide Nanoparticles Application Alleviates Arsenic (As) Toxicity in Soybean Plants by Restricting the Uptake of as and Modulating Key Biochemical Attributes, Antioxidant Enzymes, Ascorbate-Glutathione Cycle and Glyoxalase System. <i>Plants</i> , 2020 , 9, | 4.5 | 69 |
| 291 | Pyridoxal 5'-phosphate enhances the growth and morpho-physiological characteristics of rice cultivars by mitigating the ethylene accumulation under salinity stress. <i>Plant Physiology and Biochemistry</i> , 2020 , 154, 782-795 | 5.4 | 8 |
| 290 | Exogenously Applied Ascorbic Acid-Mediated Changes in Osmoprotection and Oxidative Defense System Enhanced Water Stress Tolerance in Different Cultivars of Safflower (L.). <i>Plants</i> , 2020 , 9, | 4.5 | 52 |
| 289 | Biodegradation by Co-inoculated Bacteria and Fungi Alleviates Adverse Effects of Red-S3B on Growth and Nitrogen Uptake of Wheat. <i>Clean - Soil, Air, Water</i> , 2020 , 48, 1900305 | 1.6 | 2 |
| 288 | Sodium Exclusion Affects Seed Yield and Physiological Traits of Wheat Genotypes Grown Under Salt Stress. <i>Journal of Soil Science and Plant Nutrition</i> , 2020 , 20, 1442-1456 | 3.2 | 5 |
| 287 | The role of nitrate reductase in brassinosteroid-induced endogenous nitric oxide generation to improve cadmium stress tolerance of pepper plants by upregulating the ascorbate-glutathione cycle. <i>Ecotoxicology and Environmental Safety</i> , 2020 , 196, 110483 | 7 | 43 |
| 286 | Progresses on bacterial secretomes enlighten research on Mycoplasma secretome. <i>Microbial Pathogenesis</i> , 2020 , 144, 104160 | 3.8 | 3 |
| 285 | Nitrate reductase rather than nitric oxide synthase activity is involved in 24-epibrassinolide-induced nitric oxide synthesis to improve tolerance to iron deficiency in strawberry (<i>Fragaria × ananassa</i>) by up-regulating the ascorbate-glutathione cycle. <i>Plant Physiology and Biochemistry</i> , 2020 , 151, 486-499 | 5.4 | 20 |
| 284 | Responses of nitric oxide and hydrogen sulfide in regulating oxidative defence system in wheat plants grown under cadmium stress. <i>Physiologia Plantarum</i> , 2020 , 168, 345-360 | 4.6 | 61 |
| 283 | Thiamine-induced nitric oxide improves tolerance to boron toxicity in pepper plants by enhancing antioxidants. <i>Turk Tarim Ve Ormancilik Dergisi/Turkish Journal of Agriculture and Forestry</i> , 2020 , 44, 379-390 | 3.2 | 4 |
| 282 | Ensuring Food Security of Arid Regions through Sustainable Cultivation of Halophytes 2020 , 1-21 | | |
| 281 | Gibberellic acid-induced generation of hydrogen sulfide alleviates boron toxicity in tomato (<i>Solanum lycopersicum</i> L.) plants. <i>Plant Physiology and Biochemistry</i> , 2020 , 153, 53-63 | 5.4 | 24 |
| 280 | Antibacterial and antioxidant activity of exopolysaccharide mediated silver nanoparticle synthesized by <i>Lactobacillus brevis</i> isolated from Chinese koumiss. <i>Colloids and Surfaces B: Biointerfaces</i> , 2020 , 186, 110734 | 6 | 51 |
| 279 | The role of endogenous nitric oxide in salicylic acid-induced up-regulation of ascorbate-glutathione cycle involved in salinity tolerance of pepper (<i>Capsicum annuum</i> L.) plants. <i>Plant Physiology and Biochemistry</i> , 2020 , 147, 10-20 | 5.4 | 52 |
| 278 | Mitigation of Arsenic Toxicity in Wheat by the Exogenously Applied Salicylic Acid, 24-Epi-Brassinolide and Silicon. <i>Journal of Soil Science and Plant Nutrition</i> , 2020 , 20, 577-588 | 3.2 | 24 |
| 277 | Response of growth, antioxidant enzymes and root exudates production towards As stress in <i>Pteris vittata</i> and in <i>Astragalus sinicus</i> colonized by arbuscular mycorrhizal fungi. <i>Environmental Science and Pollution Research</i> , 2020 , 27, 2340-2352 | 5.1 | 21 |

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| 276 | Sodium nitroprusside (SNP) improves tolerance to arsenic (As) toxicity in <i>Vicia faba</i> through the modifications of biochemical attributes, antioxidants, ascorbate-glutathione cycle and glyoxalase cycle. <i>Chemosphere</i> , 2020 , 244, 125480 | 8.4 | 52 |
| 275 | Salt stress induces physiochemical alterations in rice grain composition and quality. <i>Journal of Food Science</i> , 2020 , 85, 14-20 | 3.4 | 24 |
| 274 | Foliage application and seed priming with nitric oxide causes mitigation of salinity-induced metabolic adversaries in broccoli (<i>Brassica oleracea</i> L.) plants. <i>Acta Physiologiae Plantarum</i> , 2020 , 42, 1 | 2.6 | 18 |
| 273 | Involvement of -Cysteine Desulphydrase and Hydrogen Sulfide in Glutathione-Induced Tolerance to Salinity by Accelerating Ascorbate-Glutathione Cycle and Glyoxalase System in. <i>Antioxidants</i> , 2020 , 9, | 7.1 | 8 |
| 272 | Hydrogen Sulfide (H ₂ S) Mitigates Arsenic (As)-Induced Toxicity in Pea (<i>Pisum sativum</i> L.) Plants by Regulating Osmoregulation, Antioxidant Defense System, Ascorbate Glutathione Cycle and Glyoxalase System. <i>Journal of Plant Growth Regulation</i> , 2020 , 1 | 4.7 | 15 |
| 271 | Foliar Application of 24-Epibrassinolide Improves Growth, Ascorbate-Glutathione Cycle, and Glyoxalase System in Brown Mustard (L.) Czern.) under Cadmium Toxicity. <i>Plants</i> , 2020 , 9, | 4.5 | 9 |
| 270 | Genetic basis of ion exclusion in salinity stressed wheat: implications in improving crop yield. <i>Plant Growth Regulation</i> , 2020 , 92, 479-496 | 3.2 | 14 |
| 269 | The endogenous L-cysteine desulphydrase and hydrogen sulfide participate in supplemented phosphorus-induced tolerance to salinity stress in maize (<i>Zeamays</i>) plants. <i>Turkish Journal of Botany</i> , 2020 , 44, 36-46 | 1.3 | 14 |
| 268 | Glycinebetaine-Induced Alteration in Gaseous Exchange Capacity and Osmoprotective Phenomena in Safflower (<i>Carthamus tinctorius</i> L.) under Water Deficit Conditions. <i>Sustainability</i> , 2020 , 12, 10649 | 3.6 | 14 |
| 267 | Implication of Physiological and Biochemical Variables of Prognostic Importance in Lead Exposed Subjects. <i>Archives of Environmental Contamination and Toxicology</i> , 2020 , 78, 329-336 | 3.2 | 5 |
| 266 | Integrated Effect of Algal Biochar and Plant Growth Promoting Rhizobacteria on Physiology and Growth of Maize Under Deficit Irrigations. <i>Journal of Soil Science and Plant Nutrition</i> , 2020 , 20, 346-356 | 3.2 | 30 |
| 265 | Exogenously supplied silicon (Si) improves cadmium tolerance in pepper (<i>Capsicum annum</i> L.) by up-regulating the synthesis of nitric oxide and hydrogen sulfide. <i>Journal of Biotechnology</i> , 2020 , 316, 35-45 | 3.7 | 46 |
| 264 | The putative role of endogenous nitric oxide in brassinosteroid-induced antioxidant defence system in pepper (<i>Capsicum annum</i> L.) plants under water stress. <i>Plant Physiology and Biochemistry</i> , 2019 , 143, 119-128 | 5.4 | 50 |
| 263 | Role of Arbuscular Mycorrhizal Fungi in Plant Growth Regulation: Implications in Abiotic Stress Tolerance. <i>Frontiers in Plant Science</i> , 2019 , 10, 1068 | 6.2 | 333 |
| 262 | Nanofertilizer use for sustainable agriculture: Advantages and limitations. <i>Plant Science</i> , 2019 , 289, 1102-1107 | 3.9 | 167 |
| 261 | Arsenic fractionation and its impact on physiological behavior of sunflower (<i>Helianthus annuus</i> L.) in three texturally different soils under alkaline calcareous conditions. <i>Environmental Science and Pollution Research</i> , 2019 , 26, 17438-17449 | 5.1 | 7 |
| 260 | Alleviating effect of nitric oxide on oxidative stress and antioxidant defence system in pepper (<i>Capsicum annum</i> L.) plants exposed to cadmium and lead toxicity applied separately or in combination. <i>Scientia Horticulturae</i> , 2019 , 255, 52-60 | 4.1 | 32 |
| 259 | Microbial Proteases Applications. <i>Frontiers in Bioengineering and Biotechnology</i> , 2019 , 7, 110 | 5.8 | 150 |

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| 258 | Exogenously applied glycinebetaine induced alteration in some key physio-biochemical attributes and plant anatomical features in water stressed oat (<i>Avena sativa</i> L.) plants. <i>Journal of Arid Land</i> , 2019 , 11, 292-305 | 2.2 | 4 |
| 257 | Isolation, characterization, and effect of phosphate-zinc-solubilizing bacterial strains on chickpea (<i>C. L.</i>) growth. <i>Saudi Journal of Biological Sciences</i> , 2019 , 26, 1061-1067 | 4 | 42 |
| 256 | Nitric oxide regulates oxidative defense system, key metabolites and growth of broccoli (<i>Brassica oleracea</i> L.) plants under water limited conditions. <i>Scientia Horticulturae</i> , 2019 , 254, 7-13 | 4.1 | 21 |
| 255 | Effect of Methyl Jasmonate and Salicylic Acid on In Vitro Growth, Stevioside Production, and Oxidative Defense System in <i>Stevia rebaudiana</i> . <i>Sugar Tech</i> , 2019 , 21, 1031-1038 | 1.9 | 14 |
| 254 | Melatonin-mediated nitric oxide improves tolerance to cadmium toxicity by reducing oxidative stress in wheat plants. <i>Chemosphere</i> , 2019 , 225, 627-638 | 8.4 | 134 |
| 253 | Alpha-Tocopherol-Induced Regulation of Growth and Metabolism in Plants Under Non-stress and Stress Conditions. <i>Journal of Plant Growth Regulation</i> , 2019 , 38, 1325-1340 | 4.7 | 33 |
| 252 | Breeding strategies for structuring salinity tolerance in wheat. <i>Advances in Agronomy</i> , 2019 , 155, 121-187 | 7.7 | 32 |
| 251 | Physiological and biochemical responses of two spring wheat genotypes to non-hydraulic root-to-shoot signalling of partial and full root-zone drought stress. <i>Plant Physiology and Biochemistry</i> , 2019 , 139, 11-20 | 5.4 | 18 |
| 250 | Alleviation of field water stress in wheat cultivars by using silicon and salicylic acid applied separately or in combination. <i>Crop and Pasture Science</i> , 2019 , 70, 36 | 2.2 | 33 |
| 249 | Influence of exogenously applied nitric oxide on strawberry (<i>Fragaria × ananassa</i>) plants grown under iron deficiency and/or saline stress. <i>Physiologia Plantarum</i> , 2019 , 165, 247-263 | 4.6 | 26 |
| 248 | Silicon application positively alters pollen grain area, osmoregulation and antioxidant enzyme activities in wheat plants under water deficit conditions. <i>Journal of Plant Nutrition</i> , 2019 , 42, 2121-2132 | 2.3 | 8 |
| 247 | Partial and full root-zone drought stresses account for differentiate root-sourced signal and yield formation in primitive wheat. <i>Plant Methods</i> , 2019 , 15, 75 | 5.8 | 13 |
| 246 | Exogenously applied proline induced changes in key anatomical features and physio-biochemical attributes in water stressed oat (<i>C. L.</i>) plants. <i>Physiology and Molecular Biology of Plants</i> , 2019 , 25, 1121-1135 | 2.8 | 6 |
| 245 | Structural modifications for drought tolerance in stem and leaves of <i>Cenchrus ciliaris</i> L. ecotypes from the Cholistan Desert. <i>Flora: Morphology, Distribution, Functional Ecology of Plants</i> , 2019 , 261, 151485 | 1.9 | 8 |
| 244 | 24-Epibrassinolide (EBR) Confers Tolerance against NaCl Stress in Soybean Plants by Up-Regulating Antioxidant System, Ascorbate-Glutathione Cycle, and Glyoxalase System. <i>Biomolecules</i> , 2019 , 9, | 5.9 | 67 |
| 243 | Response of maize to field drought stress: oxidative defense system, osmolytes accumulation and photosynthetic pigments. <i>Pakistan Journal of Botany</i> , 2019 , 51, | 2 | 8 |
| 242 | Assessment of physio-biochemical indicators for drought tolerance in different cultivars of maize (<i>Zea mays</i> L.). <i>Pakistan Journal of Botany</i> , 2019 , 51, | 2 | 11 |
| 241 | Thiamin-induced variations in oxidative defense processes in white clover (<i>Trifolium repens</i> L.) under water deficit stress. <i>Turkish Journal of Botany</i> , 2019 , 43, 58-66 | 1.3 | 5 |

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