Reactive oxygen species and antioxidant machinery in abiotic stress tolerance in crop plants

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663	Homeostatic influence of calcium and kinetin: Regulation of defense strategies against NaCl stress in cyanobacterium Nostoc muscorum ATCC 27893. **2022**, 150, 851-860	0
662	Efficient green photocatalyst of silver-based palladium nanoparticles for methyle orange photodegradation, investigation of lipid peroxidation inhibition, antimicrobial, and antioxidant activity. **2022**, 169, 113406	0
661	Recent insights into cell responses to cold stress in plants: Signaling, defence, and potential functions of phosphatidic acid. **2022**, 203, 105068	1
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657	Evaluating drought stress tolerance in different Camellia sinensis L. cultivars and effect of melatonin on strengthening antioxidant system. **2023**, 307, 111517	1
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636	Recent Trends in Urban Agriculture to Improve Bioactive Content of Plant Foods. **2022**, 8, 767	0
635	Transcriptome Analysis Provides Insights into Potentilla bifurca Adaptation to High Altitude. **2022**, 12, 1337	1
634	Improvement in fruit yield and tolerance to salinity of tomato plants fertigated with micronutrient amounts of iodine. **2022**, 12,	0
633	Effects of melatonin on growth and antioxidant capacity of naked oat (Avena nuda L) seedlings under lead stress. 10, e13978	0
632	Effects of Different Drought Degrees on Physiological Characteristics and Endogenous Hormones of Soybean. **2022**, 11, 2282	2
631	Dynamic Changes in the Antioxidative Defense System in the Tea Plant Reveal the Photoprotection-Mediated Temporal Accumulation of Flavonoids Under Full Sunlight Exposure.	0
630	Primary root response to combined drought and heat stress is regulated via salicylic acid metabolism in maize. **2022**, 22,	0
629	Genome-wide identification of wheat ABC1K gene family and functional dissection of TaABC1K3 and TaABC1K6 involved in drought tolerance. 13,	0
628	Complementary Effects of Dark Septate Endophytes and Trichoderma Strains on Growth and Active Ingredient Accumulation of Astragalus mongholicus under Drought Stress. **2022**, 8, 920	0
627	Advances in the Genetic Basis and Molecular Mechanism of Lesion Mimic Formation in Rice. **2022**, 11, 2169	1
626	Mung Bean Genotypes Demonstrate a ́Correlative Response at Biochemical and Molecular Level Under Salinity Stress.	0
625	Overexpression of PagERF072 from Poplar Improves Salt Tolerance. **2022**, 23, 10707	0
624	The distribution of submerged macrophytes in response to intense solar radiation and salinity reveals hydrogen peroxide as an abiotic stress indicator.	0
623	Comparative physiological and coexpression network analyses reveal the potential drought tolerance mechanism of peanut. **2022**, 22,	0

622	Recent advancement in OMICS approaches to enhance abiotic stress tolerance in legumes. 13,	2
621	Induction of the Prenylated Stilbenoids Arachidin-1 and Arachidin-3 and Their Semi-Preparative Separation and Purification from Hairy Root Cultures of Peanut (Arachis hypogaea L.). **2022**, 27, 6118	0
620	Chitooligosaccharide Maintained Cell Membrane Integrity by Regulating Reactive Oxygen Species Homeostasis at Wounds of Potato Tubers during Healing. **2022**, 11, 1791	0
619	Metabolism and Signaling of Plant Mitochondria in Adaptation to Environmental Stresses. **2022**, 23, 11176	1
618	A Hormetic Spatiotemporal Photosystem II Response Mechanism of Salvia to Excess Zinc Exposure. **2022**, 23, 11232	1
617	A comprehensive insight on the main physiological biochemical and related genes expression changes during the development of superficial scald in â□Valiâ□bear. 13,	0
616	Antifungal Peptide P852 Controls Fusarium Wilt in Faba Bean (Viciafaba L.) by Promoting Antioxidant Defense and Isoquinoline Alkaloid, Betaine, and Arginine Biosyntheses. **2022**, 11, 1767	0
615	Insight into Recent Progress and Perspectives in Improvement of Antioxidant Machinery upon PGPR Augmentation in Plants under Drought Stress: A Review. **2022**, 11, 1763	2
614	Single and Associated Effects of Drought and Heat Stresses on Physiological, Biochemical and Antioxidant Machinery of Four Eggplant Cultivars. **2022**, 11, 2404	1
613	Fluorescent carbon dot as an optical amplifier in modern agriculture. **2022**, e00493	1
612	Comparative transcriptome analysis of Saposhnikovia divaricata to reveal drought and rehydration adaption strategies.	0
611	Salt stress resilience in plants mediated through osmolyte accumulation and its crosstalk mechanism with phytohormones. 13,	2
610	The growth, biochemical composition, and antioxidant response of Microcystis and Chlorella are influenced by Ibuprofen.	0
609	PePYL4 enhances drought tolerance by modulating water use efficiency and ROS scavenging in Populus.	0
608	Potential Microbial Consortium Mitigates Drought Stress in Tomato (Solanum lycopersicum L.) Plant by Up-regulating Stress-Responsive Genes and Improving Fruit Yield and Soil Properties.	0
607	Multiple forms of vitamin B6 regulate salt tolerance by balancing ROS and abscisic acid levels in maize root. **2022**, 2,	0
606	Effect of a Biostimulant Based on Polyphenols and Glycine Betaine on Tomato Plantsâ□Responses to Salt Stress. **2022**, 12, 2142	2
605	Physiological and Transcriptomic Analyses Reveal the Mechanisms of Compensatory Growth Ability for Early Rice after Low Temperature and Weak Light Stress. **2022**, 11, 2523	0

604	Effects of fungal seed endophyte FXZ2 on Dysphania ambrosioides Zn/Cd tolerance and accumulation. 13,	1
603	Arbuscular Mycorrhizal Fungi Mediated Alleviation of Drought Stress via Non-Enzymatic Antioxidants: A Meta-Analysis. **2022**, 11, 2448	0
602	Effects of tocilizumab and dexamethasone on the downregulation of proinflammatory cytokines and upregulation of antioxidants in the lungs in oleic acid-induced ARDS. **2022**, 23,	0
601	The RPN12a proteasome subunit is essential for the multiple hormonal homeostasis controlling the progression of leaf senescence. **2022**, 5,	0
600	Impact of Biochar Application at Water Shortage on Biochemical and Physiological Processes in Medicago ciliaris. **2022**, 11, 2411	0
599	Genetic manipulation for abiotic stress resistance traits in crops. 13,	1
598	Endophytes: The Immune System Modulators of Rice Plants Under Abiotic Stresses. **2022**, 484-491	0
597	Metal Complexation of Bis-Chalcone Derivatives Enhances Their Efficacy against Fusarium Wilt Disease, Caused by Fusarium equiseti, via Induction of Antioxidant Defense Machinery. **2022**, 11, 2418	1
596	Genome-Wide Identification and Characterization of Chinese Cabbage S1fa Transcription Factors and Their Roles in Response to Salt Stress. **2022**, 11, 1782	1
595	Effect of Exogenous Glycine Betaine on the Germination of Tomato Seeds under Cold Stress. **2022**, 23, 10474	1
594	Comparative physiological analyses and the genetic basis reveal heat stress responses mechanism among different Betula luminifera populations. 13,	0
593	Detection of urban trees sensitivity to air pollution using physiological and biochemical leaf traits in Tehran, Iran. **2022**, 12,	2
592	MdZAT5 regulates drought tolerance via mediating accumulation of drought-responsive miRNAs and mRNAs in apple.	0
591	Differences in detoxification mechanism and gene expression changes of sulfur metabolism in coping with the air pollutant SO2 between the resistant and ordinary poplar variety. **2022**, 44,	0
590	Whole plant response of Pongamia pinnata to drought stress tolerance revealed by morpho-physiological, biochemical and transcriptome analysis. **2022**, 49, 9453-9463	0
589	Sublethal and Transgenerational Toxicities of Chlorfenapyr on Biological Traits and Enzyme Activities of Paracoccus marginatus (Hemiptera: Pseudococcidae). **2022**, 13, 874	0
588	Morphology and Nitrogen Uptake and Distribution of Wheat Plants as Influenced by Applying Remedial Urea Prior to or Post Low-Temperature Stress at Seedling Stage. **2022**, 12, 2338	0
587	Evaluation of the oxidative stress alleviation in Lupinus albus var. orden Dorado by the inoculation of four plant growth-promoting bacteria and their mixtures in mercury-polluted soils. 13,	0

586	Genome-wide identification of AOX family genes in Moso bamboo and functional analysis of PeAOX1b_2 in drought and salinity stress tolerance.	0
585	Antioxidant Protection System and Photosynthetic Pigment Composition in Secale cereale Subjected to Short-Term Temperature Stresses. **2022**, 16,	0
584	Chelator Iminodisuccinic Acid Regulates Reactive Oxygen Species Accumulation and Improves Maize (Zea mays L.) Seed Germination under Pb Stress. **2022**, 11, 2487	0
583	Crude oil induces plant growth and antioxidant production in Leersia hexandra Sw. A hydrophytic grass that rhizodegrades oil in Tabasco, Mexico..	0
582	Pharmacotherapeutic potential of pomegranate in age-related neurological disorders. 14,	0
581	Lilium pumilum stress-responsive NAC transcription factor LpNAC17 enhances salt stress tolerance in tobacco. 13,	1
580	Effective antioxidant defense prevents nitro-oxidative stress under arsenic toxicity: A study in rice genotypes of eastern Indo-Gangetic plains. **2022**, 105084	0
579	Arsenic-Induced Responses in Plants. **2022**, 112-128	0
578	Evaluation of Trigonella foenum-graecum L. Plant Food Safety after Lead Exposure: Phytochemical Processes. **2022**, 11, 2526	0
577	Manipulation of Senescence of Plants to Improve Biotic Stress Resistance. **2022**, 12, 1496	1
576	Recent developments in multi-omics and breeding strategies for abiotic stress tolerance in maize (Zea mays L.). 13,	1
575	Climate Change and Abiotic Stresses in Plants.	0
574	NitrateâNitriteâNitric Oxide Pathway: A Mechanism of Hypoxia and Anoxia Tolerance in Plants. **2022**, 23, 11522	0
573	A view of transcriptome during cold stress in sugarcane using Saccharum spontaneum genome. **2022**, 50, 12765	0
572	Physiological and Metabolic Responses of Gac Leaf (Momordica cochinchinensis (Lour.) Spreng.) to Salinity Stress. **2022**, 11, 2447	1
571	Insight into the Mechanism of Salt-Induced Oxidative Stress Tolerance in Soybean by the Application of Bacillus subtilis: Coordinated Actions of Osmoregulation, Ion Homeostasis, Antioxidant Defense, and Methylglyoxal Detoxification. **2022**, 11, 1856	0
570	Foliarly Applied 24-Epibrassinolide Modulates the Electrical Conductivity of the Saturated Rhizospheric Soil Extracts of Soybean under Salinity Stress. **2022**, 11, 2330	0
569	The role of zinc to mitigate heavy metals toxicity in crops. 10,	0

568	Sustainable Approaches to Boost Yield and Chemical Constituents of Aromatic and Medicinal Plants by Application of Biostimulants. **2022**, 13,	2
567	Bacillus velezensis HN-2 crude extract inhibits Erysiphe quercicola infection of rubber tree leaves. **2022**, 101920	0
566	Bacillus H47 triggers Olea europaea metabolism activating DOXP and shikimate pathways simultaneously and modifying leaf extractsâantihypertensive activity. 13,	0
565	Exploiting the drought tolerance of wild Elymus species for bread wheat improvement. 13,	0
564	Under cadmium stress, silicon has a defensive effect on the morphology, physiology, and anatomy of pea (Pisum sativum L.) plants. 13,	0
563	Effects of the Protein Hydrolysate Pretreatment on Cucumber Plants Exposed to Chilling Stress. 75,	0
562	Proteomic analysis reveals that the heat shock proteins 70-17 and BiP5 enhance cotton male fertility under high-temperature stress by reducing the accumulation of ROS in anthers. **2022**, 188, 115693	0
561	The inhibitory effects of simulated light sources on the activity of algae cannot be ignored in photocatalytic inhibition. **2022**, 309, 136611	0
560	The influence of phosphorus on leaf function, cadmium accumulation and stress tolerance of poplar leaves under cadmium exposure. **2022**, 204, 105087	0
559	GhALKBH10 negatively regulates salt tolerance in cotton. **2022**, 192, 87-100	0
558	Cold stress-induced changes in metabolism of carbonyl compounds and membrane fatty acid composition in chickpea. **2022**, 192, 10-19	0
557	Chlororespiration as a Protective Stress-inducible Electron Transport Pathway in Chloroplasts. **2022**, 16,	0
556	The antioxidant response of Hedera helix leaves to seasonal temperature variations. **2022**, 46, 295-309	0
555	Genomic Designing for Abiotic Stress Resistance in Mulberry´(Morus spp.). **2022**, 157-244	0
554	Biological Indicators of Oxidative Stress [Malondialdehyde, Catalase, Glutathione Peroxidase, and Superoxide Dismutase] and Their Application in Nutrition. **2022**, 833-856	0
553	Transgenics and Crop Improvement. **2022**, 131-347	0
552	Genomic Designing for Biotic Stress Resistance in Mulberry. **2022**, 285-336	0
551	Integrated metabolomic and transcriptomic profiling revealed coping mechanisms of the edible and medicinal homologous plant Plantago asiatica L. cadmium resistance. **2022**, 17, 1347-1359	0

550	Anatomical, Histochemical, and Physiological Analysis of Abutilon Indicum (L.) Sweet, Cassia Auriculata L. and Morinda Tinctoria Roxb. Collected from Polluted and Non-Polluted Habitat. **2022**, 9, 19-24	0
549	Effect of Silicon Nanoparticles on Tomato Plants Exposed to Two Forms of Inorganic Arsenic. **2022**, 12, 2366	1
548	Emerging Technological Frameworks for the Sustainable Agriculture and Environmental Management. **2022**, 3, 100026	1
547	Activities of H2O2-Converting Enzymes in Apple Leaf Buds during Dormancy Release in Consideration of the Ratio Change between Bud Scales and Physiologically Active Tissues. **2022**, 8, 982	0
546	Salicylic Acid-Mediated Physiological and Antioxidant Enzyme Activity Mechanisms in Plants Under Chilling Stress. **2022**, 183-194	0
545	Effect of exogenous melatonin in fruit postharvest, crosstalk with hormones, and defense mechanism for oxidative stress management.	0
544	A mixotrophic preculture strategy enhances biomass and astaxanthin productivity of Chromochloris zofingiensis.	0
543	Ameliorating Drought Effects in Wheat Using an Exclusive or Co-Applied Rhizobacteria and ZnO Nanoparticles. **2022**, 11, 1564	1
542	Identification of SNPs and Candidate Genes Associated with Salt Stress in Two Korean Sorghum Cultivars and Understanding Selection Pressures in the Breeding Process. **2022**, 12, 2511	0
541	Setaria italica SiWRKY89 enhances drought tolerance in Arabidopsis.	0
540	Genetic variations in antioxidant content and chlorophyll fluorescence of chickpea (Cicer arietinum L.) genotypes exposed to freezing temperatures. **2022**, 44,	1
539	Effect of Melatonin on Fruit Quality via Decay Inhibition and Enhancement of Antioxidative Enzyme Activities and Genes Expression of Two Mango Cultivars during Cold Storage. **2022**, 11, 3209	1
538	Genome-wide identification of the rubber tree superoxide dismutase (SOD) gene family and analysis of its expression under abiotic stress. 10, e14251	2
537	Structural Maintenance of Chromosome 3 interacts with the Topoisomerase VI complex and contributes to the oxidative stress response inArabidopsis thaliana.	0
536	Biocontrol Ability and Action Mechanism of Meyerozyma guilliermondii 37 on Soft Rot Control of Postharvest Kiwifruit. **2022**, 10, 2143	0
535	Acetic acid application timing on strawberry: an alleviator for salinity adverse effect. **2022**, 44,	0
534	Urban dust pollution tolerance indices of selected plant species for development of urban greenery in Delhi. **2023**, 195,	1
533	Rhizosphere inoculation of Nicotiana benthamiana with Trichoderma harzianum TRA1-16 in controlled environment agriculture: Effects of varying light intensities on the mutualism-parasitism interaction. 13,	0

532	Protective Responses at the Biochemical and Molecular Level Differ between a Coffea arabica L. Hybrid and Its Parental Genotypes to Supra-Optimal Temperatures and Elevated Air [CO2]. **2022**, 11, 2702	1
531	Integrative Transcriptomic and Phytohormonal Analyses Provide Insights into the Cold Injury Recovery Mechanisms of Tea Leaves. **2022**, 11, 2751	0
530	Morpho-physiological and biochemical changes during seed development in cucumber (Cucumis sativus). **2021**, 91,	0
529	Screening of Heat-Tolerant Indica Rice Varieties in the Middle and Lower Yangtze River. **2022**, 12, 2462	0
528	A novel small open reading frame gene, IbEGF, enhances drought tolerance in transgenic sweet potato. 13,	0
527	Understanding the Physiological Mechanism of Heme Oxygenase for Enhanced Tolerance and Phytoremediation of Cd2+ in Eruca sativa: Co-ordinated Function of Antioxidant Defense System.	0
526	Application of Rhizobacteria, Paraburkholderia fungorum and Delftia sp. Confer Cadmium Tolerance in Rapeseed (Brassica campestris) through Modulating Antioxidant Defense and Glyoxalase Systems. **2022**, 11, 2738	0
525	Interaction between zinc and selenium bio-fortification and toxic metals (loid) accumulation in food crops. 13,	0
524	Effect of nano-silicon on the regulation of ascorbate-glutathione contents, antioxidant defense system and growth of copper stressed wheat (Triticum aestivum L.) seedlings. 13,	0
523	Wild Vicia Species Possess a Drought Tolerance System for Faba Bean Improvement. **2022**, 13, 1877	0
522	Salt Stress Induces Changes in Physiological Characteristics, Bioactive Constituents, and Antioxidants in Kenaf (Hibiscus cannabinus L.). **2022**, 11, 2005	2
521	Review of the Mechanisms by Which Transcription Factors and Exogenous Substances Regulate ROS Metabolism under Abiotic Stress. **2022**, 11, 2106	2
520	Improving the antioxidant defense system in different species of Citrus fruits under cold stress using osmolytes.	0
519	Exogenous aspartic acid alleviates salt stress-induced decline in growth by enhancing antioxidants and compatible solutes while reducing reactive oxygen species in wheat. 13,	1
518	Accumulation of Galactinol and ABA Is Involved in Exogenous EBR-Induced Drought Tolerance in Tea Plants. **2022**, 70, 13391-13403	0
517	Effects of High Temperature-Triggered Transcriptomics on the Physiological Adaptability of Cenococcum geophilum, an Ectomycorrhizal Fungus. **2022**, 10, 2039	0
516	Revisiting the Critical Role of ROS and RNS in Plant Defense.	1
515	Conventional and Omics Approaches for Understanding the Abiotic Stress Response in Cereal Cropsâ An Updated Overview. **2022**, 11, 2852	0

514	Role of reactive oxygen species and antioxidative enzymes in the loss and re-establishment of desiccation tolerance in germinated pea seeds.	0
513	Salt Tolerant Bacillus Strains Improve Plant Growth Traits and Regulation of Phytohormones in Wheat under Salinity Stress. **2022**, 11, 2769	0
512	The Enzymatic Antioxidants Activities Changes in Water Plants Tissues Exposed to Chlorpyrifos Stress. **2022**, 11, 2104	0
511	Transcriptomic analysis of ncRNA and mRNA interactions during leaf senescence in tomato. **2022**,	0
510	Comparative Analysis of Antioxidant Accumulation under Cold Acclimation, Deacclimation and Reacclimation in Winter Wheat. **2022**, 11, 2818	0
509	Identification of ANS from Malus halliana reveal flavonoid metabolic pathway involved in response to salineâ□lkali stress.	0
508	High Salinity Stimulates the Adaptive Response to Potassium Deficiency Through the Antioxidant and the NADPH-Generating Systems in the Roots and Leaves of the Halophyte Cakile maritima.	0
507	Combined Effect of Biochar and Salicylic Acid in Alleviating Heavy Metal Stress, Antioxidant Enhancement, and Chinese Mustard Growth in a Contaminated Soil.	0
506	The Poplar (Populus trichocarpa) Dehydrin Gene PtrDHN-3 Enhances Tolerance to Salt Stress in Arabidopsis. **2022**, 11, 2700	0
505	Use of images for early identification of water stress. 16,	0
504	Intercropping of wheat alleviates the adverse effects of phenolic acids on faba bean. 13,	1
503	Application of peanut shell biochar increases rice yield in saline-alkali paddy fields by regulating leaf ion concentrations and photosynthesis rate.	0
502	Integrated physiological and transcriptional dissection reveals the core genes involving nutrient transport and osmoregulatory substance biosynthesis in allohexaploid wheat seedlings under salt stress. **2022**, 22,	0
501	Redox imbalance disrupts spikelet fertility in rice: A study under stage-specific and multi-stage drought in eastern Indo-Gangetic plain. **2022**, 105121	0
500	Evaluation of Ambient Ozone Effect in Bean and Petunia at Two Different Sites under Natural Conditions: Impact on Antioxidant Enzymes and Stress Injury. **2022**, 14, 13760	0
499	Genome-wide characterization of DcHsp90 gene family in carnation (Dianthus caryophyllus L.) and functional analysis of DcHsp90-6 in heat tolerance.	0
498	Changes in □Farnesene and Phenolic Metabolism and the Expression of Associated Genes during the Development of Superficial Scald in Two Distinct Pear Cultivars. **2022**, 23, 12088	0
497	Multivariate characterization of biochemical and physiological attributes of quinoa (Chenopodium quinoa Willd.) genotypes exposed to nickel stress: implications for phytoremediation.	0

496	The high pH value of alkaline salt destroys the root membrane permeability of Reaumuria trigyna and leads to its serious physiological decline.	0
495	Cadmium toxicity impacts plant growth and plant remediation strategies.	0
494	A Multi-Level Approach as a Powerful Tool to Identify and Characterize Some Italian Autochthonous Common Bean (Phaseolus vulgaris L.) Landraces under a Changing Environment. **2022**, 11, 2790	0
493	Exogenous Melatonin Counteracts Salinity and Cadmium Stress via Photosynthetic Machinery and Antioxidant Modulation in Solanum lycopersicum L.	0
492	Long-term drought effects on the thermal sensitivity of Amazon forest trees.	0
491	Polyamine pathways interconnect with GABA metabolic processes to mediate the low-temperature response in plants. 13,	0
490	Glycine Betaine is a Phytohormone-Like Plant Growth and Development Regulator Under Stress Conditions.	0
489	Loss-of-function mutations of OsbHLH044 transcription factor lead to salinity sensitivity and a greater chalkiness in rice (Oryza sativa L.). **2022**,	1
488	Postharvest treatments with MnCl2 and ZnCl2 reduce enzymatic browning and enhance antioxidant accumulation in soya bean sprout. **2022**, 12,	0
487	Genome mining reveals abiotic stress resistance genes in plant genomes acquired from microbes via HGT. 13,	0
486	Effect of free ammonia shock on Chlorella sp. in wastewater: Concentration-dependent activity response and enhanced settleability. **2022**, 226, 119305	0
485	Ultraviolet-B radiation stress triggers reactive oxygen species and regulates the antioxidant defense and photosynthesis systems of intertidal red algae Neoporphyra haitanensis. 9,	0
484	Toxicity of boron nitride nanoparticles influencing bio-physicochemical responses in freshwater green algae.	0
483	Analysis of the enzyme activity of the Rubus chamaemorus L. antioxidant system. **2022**, 67, 398-405	0
482	Physiological, Biochemical, and Gene Expression Responses of Sugarcane Under Cold, Drought and Salt Stresses.	0
481	Inhibition of UV-B stress in lettuce through enzyme-like Scutellaria baicalensis carbon dots. **2022**, 246, 114177	0
480	Metsulfuron-methyl induced physiological, behavioural and biochemical changes in exotic (Eisenia fetida) and indigenous (Metaphire posthuma) earthworm species: Toxicity and molecular docking studies. **2022**, 105276	0
479	Overexpression of a Malus baccata CBF transcription factor gene, MbCBF1, Increases cold and salinity tolerance in Arabidopsis thaliana. **2022**, 192, 230-242	2

478	Wood vinegar induces salinity tolerance by alleviating oxidative damages and protecting photosystem II in rapeseed cultivars. **2022**, 189, 115763	2
477	Physiological responses of chickpea (Cicer arietinum) against chromium toxicity. **2022**, 24, 100600	0
476	Integrated transcriptome and physiological analysis of rice seedlings reveals different cadmium response mechanisms between indica and japonica varieties. **2022**, 204, 105097	0
475	Overexpression of CsPP2-A1 in cucumber enhanced salt tolerance by participating ABA-JA signaling pathway and antioxidant system. **2022**, 204, 105095	0
474	Salicylic acid induced signaling against nickel-induced toxicity: Responses of growth, exopolysaccharides, photosystem II photochemistry, nitrogen metabolism status and antioxidant system of Anabaena sp. PCC 7120. **2022**, 151, 185-199	0
473	Evidence of brassinosteroid signalling and alternate carbon metabolism pathway in the particulate matter and volatile organic compound stress response of Sansevieria trifasciata. **2023**, 205, 105116	0
472	Transcriptomics in agricultural sciences: capturing changes in gene regulation during abiotic or biotic stress. **2023**, 257-283	0
471	MusaNAC29-like transcription factor improves stress tolerance through modulation of phytohormone content and expression of stress responsive genes. **2023**, 326, 111507	1
470	New insights into cadmium tolerance and accumulation in tomato: Dissecting root and shoot responses using cross-genotype grafting. **2023**, 216, 114577	0
469	Nondestructive detection of kiwifruit infected with Penicillium expansum based on electrical properties. **2023**, 195, 112150	0
468	Exogenous glutathione modulates redox homeostasis in okra (Abelmoschus esculentus) during storage. **2023**, 195, 112145	1
467	Forward-looking on new microbial consortia: Combination of rot fungi and rhizobacteria on plant growth-promoting abilities. **2023**, 182, 104689	2
466	ROS in seed germination. **2022**,	0
465	Recent Trends in Targeting Genome Editing of Tomato for Abiotic and Biotic Stress Tolerance. **2022**, 273-285	0
464	Plant transcription factors and osmotic stress. **2023**, 301-311	0
463	Surface functionalization and size of polystyrene microplastics concomitantly regulate growth, photosynthesis and anti-oxidant status of Cicer arietinum L.. **2023**, 194, 41-51	0
462	Ultrastructural changes in developmental stages of anther and pollen grains as affected by short-term exposure to low temperatures in strawberry. **2023**, 205, 105135	0
461	Plant transcription factors: important factors controlling oxidative stress in plants. **2023**, 383-417	0

460	Preharvest debagging alleviates external CO2 injury of âFujiâapple during storage by improving antioxidant capacity and energy status. **2023**, 196, 112180	0
459	Metabolomics and proteomics reveal the toxicological mechanisms of florfenicol stress on wheat (Triticum aestivum L.) seedlings. **2023**, 443, 130264	0
458	Controlling effect and mechanism of burdock fructooligosaccharide against Alternaria fruit rot in blueberry during postharvest. **2023**, 196, 112175	0
457	Application of Azoxystrobin Fungicide Improves Drought Tolerance in Tomato, via Enhancing Physio-Biochemical and Anatomical Feature. 76, 34-49	0
456	A Medicago truncatula calcineurin B-like protein, MtCBL13 confers drought sensitivity in Arabidopsis through ABA-dependent pathway. **2022**, 105141	0
455	Morphophysiological responses of sweet basil (Ocimum basilicum L.) to the nickel stress and inoculation with Pseudomonas strains. **2023**, 45,	0
454	Differential expression of nickel toxicity on Allium cepa L. seeds and seedlings.	0
453	PRODUCTION OF REACTIVE OXYGEN SPECIES UNDER THE ACTION OF UV-B RADIATION ON YEAST CELLS. **2022**, 7, 199-203	0
452	Mechanisms involved in drought stress tolerance triggered by rhizobia strains in wheat. 13,	0
451	Salicylic acid-related ribosomal protein CaSLP improves drought andPst. DC3000tolerance in pepper.	0
450	The potent antioxidant effect of Neutrase-assisted hydrolysate from heat-resistant Pyropia yezoensis by molecular weight change. **2022**, 102894	0
449	Mitigation of low temperature stress and plant growth promotion in barley (Hordeum vulgare L.) by inoculation of psychrotrophic P-solubilizing Serratia nematodiphila EU-PW75.	0
448	Total phenolics, quercetin glycosides and antioxidant activity in organic and conventional orchards in three apple cultivars during fruit growth. **2022**, 20, e0805	0
447	Molecular Breeding and Drought Tolerance in Chickpea. **2022**, 12, 1846	1
446	Effect of Exogenous Plant Debris and Microbial Agents on Phytoremediation of Copper-Contaminated Soil in Shanghai. **2022**, 11, 3056	0
445	Morpho-physiological reactions of mosses to the action of abiotic factors on post-technogenic areas of sulphur deposite. **2022**, 76-89	0
444	Genetic Diversity of Irradiated Galleria mellonella with Sub Sterile and Sterile Doses Assessed by Scot. **2022**, 130,	0
443	Salix gordejevii females exhibit more resistance against wind erosion than males under aeolian environment. 13,	0

442	Physiological Adaptation Mechanisms to Drought and Rewatering in Water-Saving and Drought-Resistant Rice. **2022**, 23, 14043	0
441	Co-expression of stress-responsive regulatory genes, MuNAC4, MuWRKY3 and MuMYB96 associated with resistant-traits improves drought adaptation in transgenic groundnut (Arachis hypogaea l.) plants. 13,	0
440	StICE1 enhances plant cold tolerance by directly upregulating StLTI6A expression.	0
439	Effect of Metal-resistant PGPB on the Metal Uptake, Antioxidative Defense, Physiology, and Growth of Atriplex lentiformis (Torr.) S.Wats. in Soil Contaminated with Cadmium and Nickel.	0
438	Phosphorous Supplementation Alleviates Drought-Induced Physio-Biochemical Damages in Calligonum mongolicum. **2022**, 11, 3054	0
437	Methyl Jasmonate Triggers Cadmium Detoxification in Tomato Plants via Depressing Cd2+ Influx, Altering the Subcellular Distribution, and Chemical Forms of Cadmium. **2022**, 233,	0
436	Negative impacts of nanoplastics on the purification function of submerged plants in constructed wetlands: Responses of oxidative stress and metabolic processes. **2022**, 227, 119339	0
435	Metabolomic and regular analysis reveal phytotoxic mechanisms of sterigmatocystin in Amaranthus retro□xus L.. **2022**, 247, 114273	0
434	Pichia caribbica combined with oligochitosan controlling black spot of tomatoes and the regulation on ROS metabolism of the fruits. **2022**, 176, 105109	0
433	Does the type of substrate influence growth and antioxidant systems? Case study of Myracrodruon urundeuva under water deficit. **2022**, 151, 841-851	0
432	Melatonin alleviates arsenite toxicity by decreasing the arsenic accumulation in cell protoplasts and increasing the antioxidant capacity in the rice. **2022**, 137292	1
431	Coexpression modules constructed identifies regulation pathways of winter jujube (Ziziphus jujuba Mill. 'Dongzao') following postharvest treatment with ozone. **2023**, 197, 112183	1
430	Silicon and Nitric Oxide-Mediated Regulation of Growth Attributes, Metabolites and Antioxidant Defense System of Radish (L.) under Arsenic Stress. **2023**, 92, 763-782	1
429	Relationship between fertilization and planting depths on antioxidant activity in saffron (Crocus sativus L.). **2023**, 191, 116004	0
428	Does shading mitigate water restriction in Ormosia arborea seedlings?. 73,	0
427	Tolerance mechanism and management concepts of iron toxicity in rice: A critical review. **2022**,	1
426	Could nitrogen compounds be indicators of tolerance to high doses of Cu and Fe in the cultivation of Leucaena leucocephala?. **2023**, 194, 489-498	0
425	The synergistic effect of EDTA-Fe and 1-naphthaleneacetic acid on the growth and carbohydrate content of Scenedesmus obliquus. **2023**, 69, 102921	0

424	Salt Stress Affects the Growth and Yield of Wheat (L.) by Altering the Antioxidant Machinery and Expression of Hormones and Stress-Specific Genes. **2023**, 92, 861-881	0
423	Toxicological effects and transcriptome mechanisms of rice (Oryza sativa L.) under stress of quinclorac and polystyrene nanoplastics. **2023**, 249, 114380	2
422	Organic copper promoted copper accumulation and transport, enhanced low temperature tolerance and physiological health of white shrimp (Litopenaeus vannamei Boone, 1931). **2023**, 132, 108459	0
421	Biochemical and Physiological Responses of Arabidopsis thaliana Leaves to Moderate Mechanical Stimulation. **2023**, 92, 901-920	0
420	Mycorrhization changes the antioxidant response and chemical profile of Lippia alba (Verbenaceae) essential oil under salinity conditions. **2023**, 152, 264-277	0
419	Genome-wide, evolutionary, and functional analyses of ascorbate peroxidase (APX) family in Poaceae species. **2023**, 46,	0
418	Adjustments in photosynthetic pigments, PS II photochemistry and photoprotection in a tropical C4 forage plant exposed to warming and elevated [CO2]. **2023**, 194, 345-360	0
417	Different nanobubbles mitigate cadmium toxicity and accumulation of rice (Oryza sativa L.) seedlings in hydroponic cultures. **2023**, 312, 137250	0
416	Characterization of cell death in harmful Karenia mikimotoi under algicidal activity of Marinobacter sp. O-7. **2023**, 191, 102326	0
415	Physiological, biochemical, and molecular responses of fruit trees to root zone hypoxia. **2023**, 206, 105179	0
414	Phenolic peroxidases: Dull generalists or purposeful specialists in stress responses?. **2023**, 280, 153884	0
413	Sunscreen exposure interferes with physiological processes while inducing oxidative stress in seagrass Posidonia oceanica (L.) Delile. **2023**, 187, 114507	0
412	Genome-wide identification, characterization, and expression profile ofNBS-LRRgene family in sweet orange (Citrussinensis). **2023**, 854, 147117	1
411	Melatonin treatment delays senescence and alleviates chilling injury in spaghetti squash during low-temperature storage. **2023**, 310, 111778	0
410	Decipher the molecular evolution and expression patterns of Cupin family genes in oilseed rape. **2023**, 227, 437-452	0
409	Enzymatic and non-enzymatic response of grafted and ungrafted young European pear (Pyrus communis L.) trees to drought stress. **2023**, 310, 111745	0
408	Antimony oxidation and whole genome sequencing of Phytobacter sp. X4 isolated from contaminated soil near a flotation site. **2023**, 445, 130462	0
407	Use of halotolerant Bacillus amyloliquefaciens RHF6 as a bio-based strategy for alleviating salinity stress in Lotus japonicus cv Gifu. **2023**, 268, 127274	0

406	S-nitrosylation of superoxide dismutase and catalase involved in promotion of fruit resistance to chilling stress: A case study on Ziziphus jujube Mill.. **2023**, 197, 112210	0
405	Enhanced fruit yield and quality of tomato by photosynthetic bacteria and CO2 enrichment under reduced irrigation. **2023**, 277, 108106	0
404	Low temperature stress modulates the biochemical, metabolic, and molecular behavior of the Trans-Himalayan medicinal herb Rheum spiciforme Royle (spiked rhubarb). **2023**, 193, 116154	0
403	Foliar application of nanoceria attenuated cadmium stress in okra (Abelmoschus esculentus L.). **2023**, 445, 130567	0
402	Triticale (X Triticosecale Wittmack): Role and Responses Under Abiotic Stress. **2022**, 209-228	0
401	Protein l-isoAspartyl Methyltransferase (PIMT) and antioxidants in plants. **2022**,	0
400	Oxidative Stress and Antioxidant Enzymes in Cereals Under Abiotic Stress. **2022**, 51-82	0
399	Evaluation of <I>Plectranthus amboinicus</i> Leaf Extract for Free Radical Scavenging Activity â An <i>In Vitro</i> Approach. 84-95	0
398	Bioaccumulation and physiological changes in the fruiting body of Agaricus bisporus (Large) sing in response to cadmium. **2022**, 12,	0
397	Early Drought Stress Warning in Plants: Color Pictures of Photosystem II Photochemistry. **2022**, 10, 179	4
396	A Mechanocomposite Based on Biogenic Silica and Green Tea Flavonoids Modulates Adaptability of Strawberry Microclones to In Vitro and Ex Vitro Conditions.	1
395	Evaluation of Toxicity of Tropospheric Ozone on Tomato (Solanum lycopersicum L.) Cultivars: ROS Production, Defense Strategies and Intraspecific Sensitivity.	2
394	The sweet potato B-box transcription factor gene IbBBX28 negatively regulates drought tolerance in transgenic Arabidopsis. 13,	0
393	A Novel bHLH Transcription Factor PtrbHLH66 from Trifoliate Orange Positively Regulates Plant Drought Tolerance by Mediating Root Growth and ROS Scavenging. **2022**, 23, 15053	0
392	Trichoderma longibrachiatum TG1 increases endogenous salicylic acid content and antioxidants activity in wheat seedlings under salinity stress. 10, e12923	0
391	H2S Enhanced the Tolerance of Malus hupehensis to Alkaline Salt Stress through the Expression of Genes Related to Sulfur-Containing Compounds and the Cell Wall in Roots. **2022**, 23, 14848	0
390	Effect of water content and biochemical cell state on the germination rate of cryopreserved Butia eriospatha embryos (Arecaceae).	0
389	Transcriptome analysis reveals key drought-stress-responsive genes in soybean. 13,	0

388	Can Chlorophyll a Fluorescence and Photobleaching Be a Stress Signal under Abiotic Stress in Vigna unguiculata L.?. **2022**, 14, 15503	1
387	Activity of low-molecular weight components of Larix sibirica antioxidant system under exposure to technogenic pollution. **2022**, 31, 1492-1505	0
386	Embryo growth alteration and oxidative stress responses in germinating Cucurbita pepo seeds exposed to cadmium and copper toxicity.	0
385	Ascorbate synthesis as an alternative electron source for mitochondrial respiration: Possible implications for the plant performance. 13,	0
384	Physiological and transcriptomic analysis of antioxidant mechanisms in sweet sorghum seedling leaves in response to single and combined drought and salinity stress. **2022**, 17, 1006-1016	0
383	Comparative analysis of cold-responsive genes under short-term cold stimulation and cold-adaptive genes under long-term heterogeneous environments reveals a cold adaptation mechanism in weeping forsythia.	0
382	Application and potential of multifrequency ultrasound in juice industry: Comprehensive analysis of inactivation and germination of Alicyclobacillus acidoterrestris spores. 1-26	0
381	Understanding the Role of Free Radicals and Antioxidant Enzymes in Human Diseases. **2022**, 24,	1
380	Determination and Quantification of Phytochemicals from the Leaf Extract of Parthenium hysterophorus L. and Their Physio-Biochemical Responses to Several Crop and Weed Species. **2022**, 11, 3209	0
379	Widely targeted metabolomics analysis reveals the mechanism of quality improvement of flue-cured tobacco. 13,	0
378	Morphological and Physiological Responses of In Vitro-Grown Cucurbita sp. Landraces Seedlings under Osmotic Stress by Mannitol and PEG. **2022**, 8, 1117	0
377	Involvement of ethylene in melatonin-modified photosynthetic-N use efficiency and antioxidant activity to improve photosynthesis of salt grown wheat. **2022**, 174,	1
376	Zinc fertilizers for Citrus production: assessing nutrient supply via fertigation or foliar application.	0
375	Mitigating the Toxic Effects of Chromium on Wheat (Triticum aestivum L.) Seed Germination and Seedling Growth by Using Biochar and Polymer-Modified Biochar in Contaminated Soil. **2022**, 14, 16093	0
374	Designing Climate-Resilient Crops for Sustainable Agriculture: A Silent Approach.	0
373	Candidate Genes Associated with Abiotic Stress Response in Plants as Tools to Engineer Tolerance to Drought, Salinity and Extreme Temperatures in Wheat: An Overview. **2022**, 11, 3358	1
372	Seed Priming Improves Biochemical and Physiological Performance of Wheat Seedlings under Low-Temperature Conditions. **2023**, 13, 2	0
371	Physiological and Biochemical Changes in Vegetable and Field Crops under Drought, Salinity and Weeds Stresses: Control Strategies and Management. **2022**, 12, 2084	1

370	Transcriptomic Analysis Provides Insight into the ROS Scavenging System and Regulatory Mechanisms in Atriplex canescens Response to Salinity. **2023**, 24, 242	1
369	Jasmonate Positively Regulates Cold Tolerance by Promoting ABA Biosynthesis in Tomato. **2023**, 12, 60	1
368	Foliar Application of Gibberellin Alleviates Adverse Impacts of Drought Stress and Improves Growth, Physiological and Biochemical Attributes of Canola (Brassica napus L.). **2023**, 15, 78	0
367	Effect of Zinc Deficiency on Gene Expression and Antioxidant Enzyme Activity in Barley Plants at Optimal and Low Temperatures. **2022**, 49, 636-644	0
366	Are Foliar Nutrition Status and Indicators of Oxidative Stress Associated with Tree Defoliation of Four Mediterranean Forest Species?. **2022**, 11, 3484	1
365	Roles of salicylic acid in selenium-enhanced salt tolerance in tomato plants.	0
364	POTENTIAL EFFECT OF BED-FURROW PLANTING IMPROVED THE WHEAT GRAINS PRODUCTIVITY UNDER DROUGHT STRESS.	0
363	Combined Physio-Biochemical and Transcriptome Analyses Illuminate the Resistance Response of Rice Priming with Decoyinine against Nilaparvata lugens. **2022**, 12, 3098	1
362	Assessment of Cyanobacteria and Tryptophan role in the Alleviation of the Toxic Action of Brominal Herbicide on Wheat Plants.	1
361	Overexpression of DoBAM1 from Yam (Dioscorea opposita Thunb.) Enhances Cold Tolerance in Transgenic Tobacco. **2022**, 13, 2296	0
360	Antioxidant processes involving epicatechin decreased symptoms of pine wilt disease. 13,	0
359	Role of Endogenous Salicylic Acid as a Hormonal Intermediate in the Bacterial Endophyte Bacillus subtilis-Induced Protection of Wheat Genotypes Contrasting in Drought Susceptibility under Dehydration. **2022**, 11, 3365	0
358	Acetone O-(4-chlorophenylsulfonyl)Oxime as an Agent Alleviating the Adverse Effects of Drought Stress in Maize. 2014-2026	0
357	Identification of Transcriptional Networks Involved in De Novo Organ Formation in Tomato Hypocotyl Explants. **2022**, 23, 16112	0
356	Oxidative stress protection and growth promotion activity of Pseudomonas mercuritolerans sp. nov., in forage plants under mercury abiotic stress conditions. 13,	0
355	Salicylic Acid Pre-Treatment Reduces the Physiological Damage Caused by the Herbicide Mesosulfuron-methyl + Iodosulfuron-methyl in Wheat (Triticum aestivum). **2022**, 12, 3053	0
354	Growth, physiological, and temperature characteristics in chinese cabbage pakchoi as affected by Cd- stressed conditions and identifying its main controlling factors using PLS model. **2022**, 22,	1
353	Revisiting the Role of Polyamines in Plant Growth and Abiotic Stress Resilience: Mechanisms, Crosstalk, and Future Perspectives.	1

352	Genetic profile of gamma irradiated Locusta migratoria migratorioides: A futuristic eco-friendly control approach.	0
351	9-cis-epoxycarotenoid dioxygenase 1 confers heat stress tolerance in rice seedling plants. 13,	1
350	Metabolomic Analysis Reveals the Effect of Insecticide Chlorpyrifos on Rice Plant Metabolism. **2022**, 12, 1289	1
349	Enzymatic antioxidant activity and physiological responses of local swamp rice cultivars from Kalimantan-Indonesia under iron toxicity during vegetative stage.	0
348	Effects of light intensity and photoperiod on the cultivation of the soft coral Sarcophyton trocheliophorum. **2022**, 105856	0
347	Biological function research of the long non-coding RNA Malnc2310 in bananas induced by Fusarium oxysporum f. sp. cubense.	0
346	Stress-induced defense in sorghum in response to attack by the spotted stem borer, Chilo partellus (Swinhoe).	0
345	Elevated CO 2 mitigates the impact of drought stress by upregulating glucosinolate metabolism in Arabidopsis thaliana.	0
344	Heterologous Expression of Human Metallothionein Gene HsMT1L Can Enhance the Tolerance of Tobacco (Nicotiana nudicaulis Watson) to Zinc and Cadmium. **2022**, 13, 2413	1
343	Genome-wide identification of WOX family members in nine Rosaceae species and a functional analysis of MdWOX13-1 in drought resistance. **2022**, 111564	1
342	Spermidine exogenous application mollifies reproductive stage heat stress ramifications in rice. 13,	0
341	Endophytic fungi Aspergillus spp. reduce fusarial wilt disease´severity, enhance growth, metabolism and stimulate the plant defense system in pepper plants.	0
340	Citric acid assisted phytoextraction of nickle from soil helps to tolerate oxidative stress and expression profile of NRAMP genes in sunflower at different growth stages. 13,	0
339	The simultaneous activity of cytosolic and mitochondrial antioxidant mechanisms in neutralizing the effect of drought stress in soybean.	0
338	The Regulatory Mechanisms and Control Technologies of Chilling Injury and Fungal Diseases of Postharvest Loquat Fruit. **2022**, 11, 3472	1
337	Salt Eustress Induction in Red Amaranth (Amaranthus gangeticus) Augments Nutritional, Phenolic Acids and Antiradical Potential of Leaves. **2022**, 11, 2434	0
336	Salinity tolerance determination in four sunflower (Helianthus annuus L.) hybrids using yield parameters and principal components analysis model. **2022**, 67, 211-219	0
335	ACC Deaminase Produced by PGPR Mitigates the Adverse Effect of Osmotic and Salinity Stresses in Pisum sativum through Modulating the Antioxidants Activities. **2022**, 11, 3419	0

334	The overexpression of ATPS1 gene, a homodimeric enzyme involved in sulfur assimilation, confers Fe-deficient tolerance in Malus halliana.	0
333	Ionic homeostasis and redox metabolism upregulated by 24-epibrassinolide are crucial for mitigating nickel excess in soybean plants, enhancing photosystem II efficiency and biomass.	0
332	Analysis of the response regulatory network of pepper genes under hydrogen peroxide stress. 13,	0
331	Biochar Amendment Improves Growth and the Essential Oil Quality and Quantity of Peppermint (Mentha ×piperita L.) Grown Under Waste Water and Reduce Environmental Contamination of Waste Water Disposal. **2022**, 130674	1
330	Carotenoid biosynthesis is associated with low-temperature adaptation in Rhodosporidium kratochvilovae. **2022**, 22,	1
329	Evaluation on near infrared-reflective diffuse coating for muskmelon production in simple plastic greenhouse during summer season. **2022**, 279-292	0
328	Physio-Biochemical Responses of Sweet Cherry Leaf to Natural Cold Conditions. **2022**, 11, 3507	1
327	Salt Tolerance Potential in Onion: Confirmation through Physiological and Biochemical Traits. **2022**, 11, 3325	0
326	Physiological and biochemical contrasting responses associated with growth performances in sunflower seedlings after a cold stress.	0
325	Exogenous Gallic Acid Confers Salt Tolerance in Rice Seedlings: Modulation of Ion Homeostasis, Osmoregulation, Antioxidant Defense, and Methylglyoxal Detoxification Systems. **2023**, 13, 16	1
324	Fucoidan treatment alleviates chilling injury in cucumber by regulating ROS homeostasis and energy metabolism. 13,	0
323	Leucine Contributes to Copper Stress Tolerance in Peach (Prunus persica) Seedlings by Enhancing Photosynthesis and the Antioxidant Defense System. **2022**, 11, 2455	1
322	Transcriptomics-based analysis of genes related to lead stress and their expression in the roots of Pogonatherum crinitum. 13,	0
321	The regulation of glutathione s-transferases by gibberellic acid application in salt treated maize leaves.	0
320	Early Antioxidative Response to Desiccant-Stimulated Drought Stress in Field-Grown Traditional Wheat Varieties. **2023**, 12, 249	0
319	Investigating the role of silicon in reducing the risk of arsenic, cadmium, drought and salinity stresses in wheat (Triticum aestivum L.).	0
318	Plant salt response: Perception, signaling, and tolerance. 13,	1
317	Pre-emergent bioherbicide potential of Schinus terebinthifolia Raddi essential oil nanoemulsion for Urochloa brizantha. **2023**, 102598	0

316	Drought, salt, and combined stresses in plants: Effects, tolerance mechanisms, and strategies. **2022** ,	0
315	Phytoremediation potential of Solanum viarum Dunal and functional aspects of their capitate glandular trichomes in lead, cadmium, and zinc detoxification.	0
314	VaBAM1 weakens cold tolerance by interacting with the negative regulator VaSR1 to suppress -amylase expression. **2023**, 225, 1394-1404	0
313	Overcoming Challenges for Shoot Tip Cryopreservation of Root and Tuber Crops. **2023**, 13, 219	1
312	Role of Plant Phenolics Against Reactive Oxygen Species (ROS) Induced Oxidative Stress and Biochemical Alterations. **2023**, 125-147	0
311	Anthropogenic Stress and Phenolic Compounds: An Environmental Robustness Diagnostics Compound Family in Stress Ameliorations. **2023**, 391-413	0
310	Comparative Transcriptome Analysis Reveals Complex Physiological Response and Gene Regulation in Peanut Roots and Leaves under Manganese Toxicity Stress. **2023**, 24, 1161	0
309	Transcriptome changes induced by Arbuscular mycorrhizal´symbiosis´in leaves of durum wheat (Triticum durum Desf.) promote higher salt tolerance. **2023**, 13,	0
308	Assessment of Drought Stress Tolerance of Mangifera indica L. Autotetraploids. **2023**, 13, 277	0
307	Comparative Analysis of the Response to Polyethylene Glycol-Simulated Drought Stress in Roots from Seedlings of âModernâ and âAncientâ Wheat Varieties. **2023**, 12, 428	0
306	Antioxidant Capacity and Shelf Life of Radish Microgreens Affected by Growth Light and Cultivars. **2023**, 9, 76	1
305	Exogenous -Tocopherol Regulates the Growth and Metabolism of Eggplant (Solanum melongena L.) under Drought Stress. **2023**, 12, 237	0
304	The Role of Plant Hormones in Fruit Response to Photooxidative and Heat Stress. **2023**, 125-144	0
303	How Different Na+ Concentrations Affect Anatomical, Nutritional Physiological, Biochemical, and Morphological Aspects in Soybean Plants: A Multidisciplinary and Comparative Approach. **2023**, 13, 232	1
302	Morpho-Physiological and Biochemical Responses of Field Pea Genotypes under Terminal Heat Stress. **2023**, 12, 256	0
301	Free Radicals Mediated Redox Signaling in Plant Stress Tolerance. **2023**, 13, 204	0
300	Effect of potassium on yield and some qualitative and physiological traits of safflower (Carthamus tinctorius L.) under drought stress conditions. 1-13	0
299	Moderate Nitrogen Deposition Alleviates Drought Stress of Bretschneidera sinensis. **2023**, 14, 137	0

298	Transcriptome-Wide Identification and Functional Characterization of CIPK Gene Family Members in Actinidia valvata under Salt Stress. **2023**, 24, 805	1
297	The intertwining of Zn-finger motifs and abiotic stress tolerance in plants: Current status and future prospects. 13,	0
296	Chitosan nano-biopolymer/Citrus paradisi peel oil delivery system enhanced shelf-life and postharvest quality of cherry tomato. **2023**, 225, 1212-1223	1
295	Physiological Interventions of Antioxidants in Crop Plants Under Multiple Abiotic Stresses. **2023**, 431-471	0
294	Influence of Nanomaterials on Non-enzymatic Antioxidant Defense Activities in Plants. **2023**, 273-298	0
293	Transcriptomic and physiological analysis of Spirodela polyrrhiza responses to sodium nitroprusside.	0
292	Interchangeable cross-tolerance induced by waterlogging and herbicides in soybean plants. **2023**, 45,	0
291	Salinity Stress Ameliorates Pigments, Minerals, Polyphenolic Profiles, and Antiradical Capacity in Lalshak. **2023**, 12, 173	0
290	Aluminum in plant: Benefits, toxicity and tolerance mechanisms. 13,	0
289	Influence of growth conditions on an antioxidative system in two bell pepper genotypes differing in susceptibility to phytopathogen bacteria Xanthomonas euvesicatoria.	0
288	Induced defense responses in cultivated and wild chickpea genotypes against Helicoverpa armigera infestation.	0
287	Developmental, Phytochemical and Enzymatic Changes in Pot Marigold (Calendula officinalis L.) cvs. Hybrid and French with Salicylic Acid (SA) and Polyamine Spermidine (SP) Foliar Spray. **2023**, 13, 191	0
286	Exogenous SA Applications Alleviate Salinity Stress via Physiological and Biochemical changes in St Johnâ Wort Plants. **2023**, 12, 310	0
285	Ecotoxicological and biochemical effects of di(2-ethylhexyl)phthalate on wheat (Jimai 22, Triticum aestivum L.). **2023**, 130816	0
284	Morpho-Physiological and Hormonal Response of Winter Wheat Varieties to Drought Stress at Stem Elongation and Anthesis Stages. **2023**, 12, 418	1
283	Pyrroline-5-carboxylate dehydrogenase is an essential enzyme for proline dehydrogenase function during dark-induced senescence in Arabidopsis thaliana.	0
282	Triticum aestivum: antioxidant gene profiling and morpho-physiological studies under salt stress.	0
281	UV Light Stress Induces Phenolic Compounds in Plants. **2023**, 415-440	0

280	Deciphering salt tolerance in tetraploid honeysuckle (Lonicera japonica Thunb.) from ion homeostasis, water balance and antioxidant defense. **2023**, 195, 266-274	0
279	Effects of global environmental change on microalgal photosynthesis, growth and their distribution. **2023**, 184, 105877	0
278	Starch granules of the sugar-pathway were eliminated under the stress of PEG-drought compared with Soil-drought. **2023**, 193, 116158	0
277	Unveiling of interactions between foliar-applied Cu nanoparticles and barley suffering from Cu deficiency. **2023**, 320, 121044	0
276	Altering autotrophic carbon metabolism of Nitzschia closterium to mixotrophic mode for high-value product improvement. **2023**, 371, 128596	0
275	Physiological and phosphoproteomic analyses revealed that the NtPOD63 L knockout mutant enhances drought tolerance in tobacco. **2023**, 193, 116218	0
274	Arsenic-induced galactinol synthase1 gene, AtGolS1, provides arsenic stress tolerance in Arabidopsis thaliana. **2023**, 207, 105217	2
273	Drought hardening effect on improving transplant stress tolerance in Pinus densiflora. **2023**, 207, 105222	0
272	Oxidative response of rice (Oryza sativa L.) seedlings to quinolone antibiotics and its correlation with phyllosphere microbes and antibiotic resistance genes. **2023**, 867, 161544	0
271	Effects of exogenous salicylic acid on alleviation of arsenic-induced oxidative damages in rice. 1-16	0
270	Responses of the tree peony (Paeonia suffruticosa, Paeoniaceae) cultivar âYu Hongâ to heat stress revealed by iTRAQ-based quantitative proteomics. **2022**, 20,	0
269	Antioxidant response of Impatiens walleriana L. to drought. **2022**, 118, 1	0
268	Chitosan Induces Sorghum Tolerance to Water Deficits by Positively Regulating Photosynthesis and the Production of Primary Metabolites, Osmoregulators, and Antioxidants.	0
267	Characterization of the Mechanism of Action of Serratia rubidaea Mar61-01 against Botrytis cinerea in Strawberries. **2023**, 12, 154	0
266	Oxidative Stress of Cadmium and Lead at Environmentally Relevant Concentrations on Hepatopancreas of Macrobrachium nipponensis and Their Mixture Interactivity: Implications for Water Quality Criteria Amendment. **2023**, 20, 360	0
265	Wheat Crop under Waterlogging: Potential Soil and Plant Effects. **2023**, 12, 149	2
264	Excess boron stress and alleviation of its toxicity in plants: mechanisms and strategies. 1-23	0
263	Relevance of the Exocyst in Arabidopsis exo70e2 Mutant for Cellular Homeostasis under Stress. **2023**, 24, 424	0

262	Prominent Effects of Zinc Oxide Nanoparticles on Roots of Rice (Oryza sativa L.) Grown under Salinity Stress. **2023**, 3, 33-46	0
261	Integrated Transcriptomics and Functional Characterization Reveals that the Class Iii Peroxidase Gene Taprx-2a Regulates Drought Stress Tolerance in Transgenic Wheat.	0
260	Mangrove species as a potential source of bioactive compounds for diverse therapeutic applications. **2023**, 249-263	0
259	Effect of elevated O3 on plants growth, active constituents, and production. **2023**, 79-97	0
258	Vineyard light manipulation and silicon enhance ethylene-induced anthocyanin accumulation in red table grapes. 14,	0
257	Role of Phytohormones in Plant Responses to Acid Rain. **2023**, 95-124	0
256	The role of the antioxidant system and the photosynthetic behavior of paraquat-resistant Conyza sumatrensis in Brazil. 1-10	0
255	A prophage-encoded effector from â□Candidatus Liberibacter asiaticusâ□targets ASCORBATE PEROXIDASE6 in citrus to facilitate bacterial infection.	0
254	Bacterial derived biopolymer to alleviate nutrient stress and yield enhancement in turmeric (Curcuma longa L.) by mediating physiology and rhizosphere microbes on poor soils of semi-arid tropics. 1-18	0
253	Advancement in mitigating the effects of drought stress in wheat. **2023**, 297-311	0
252	Approaches in stress mitigation of plants. **2023**, 1-25	0
251	Soil microbial inocula: an eco-friendly and sustainable solution for mitigating salinity stress in plants. **2023**, 341-357	0
250	How does silicon help alleviate biotic and abiotic stresses in plants? Mechanisms and future prospects. **2023**, 359-402	0
249	Multiomics strategies for alleviation of abiotic stresses in plants. **2023**, 1-35	0
248	Aquatic macrophytes and trace elements: Deleterious effects, biomarkers, adaptation mechanisms, and potential new wave of phytoremediation processes. **2023**, 333-377	0
247	Ethylene and cellular redox management in plants. **2023**, 141-170	0
246	Rhizobacterial-mediated tolerance to plants upon abiotic stresses. **2023**, 305-323	0
245	Biostimulants Promote the Sedimentation of Salts to Restore Tomato Plant Growth Under Salt Stress.	0

244	Changes in plant secondary metabolite profiles in response to environmental stresses. **2023**, 325-339	0
243	Abiotic stress-induced ROS production in wheat: Consequences, survival mechanisms, and mitigation strategies. **2023**, 131-140	0
242	Single and composite damage mechanisms of soil polyethylene/polyvinyl chloride microplastics to the photosynthetic performance of soybean (Glycine max [L.] merr.). 13,	0
241	Oxidative stress in plants and the biochemical response mechanisms. **2023**, 455-468	0
240	Role of beneficial microbes in biotic and abiotic stress. **2023**, 243-259	0
239	The gene expression fluctuations of glyceraldehyde-3-phosphate dehydrogenase in drought-stressed-basil cultivars.	0
238	Hydrogen sulfide upregulates the alternative respiratory pathway in mangrove plant Avicennia marina to attenuate waterlogging-induced oxidative stress and mitochondrial damage in a calcium-dependent manner.	0
237	Marine antioxidants from microalgae. **2023**, 141-160	0
236	Sodium Nitroprusside Improves Bamboo Resistance under Mn and Cr Toxicity with Stimulation of Antioxidants Activity, Relative Water Content, and Metal Translocation and Accumulation. **2023**, 24, 1942	0
235	Plant responses to water pollution. **2023**, 253-264	0
234	Radioisotopes and their impact on plants. **2023**, 283-298	0
233	Effect of zinc oxide nanoparticles synthesized from Carya illinoinensis leaf extract on growth and antioxidant properties of mustard (Brassica juncea). 14,	0
232	Morphological and antioxidant responses of Nopalea cochenillifera cv. Maya (edible Opuntia sp. âKasugai Sabotenâ) to chilling acclimatization.	0
231	Blue LED light promoting the growth, accumulation of high-value isoflavonoids and astragalosides, antioxidant response, and biosynthesis gene expression in Astragalus membranaceus (Fisch.) Bunge hairy root cultures.	0
230	Mechanisms of photodynamic therapy for cancer treatment. **2023**, 55-79	0
229	Mycorrhizal symbiosis alleviate salinity stress in pistachio plants by altering gene expression and antioxidant pathways.	0
228	The Key Roles of ROS and RNS as a Signaling Molecule in Plantâ Microbe Interactions. **2023**, 12, 268	8
227	Mechanistic Insights on Salicylic Acid Mediated Enhancement of Photosystem II Function in Oregano Seedlings Subjected to Moderate Drought Stress. **2023**, 12, 518	0

226	Modulation of NaCl-induced osmotic, cytogenetic, oxidative and anatomic damages by coronatine treatment in onion (Allium cepa L.). **2023**, 13,	0
225	Morphophysiological and Molecular Diversity in Mung Bean (Vigna radiata L.). **2023**, 115-147	0
224	Eight-week supplementation of Aronia berry extract promoted the glutathione defense system against acute aerobic exercise-induced oxidative load immediately and 30 minutes post-exercise in healthy adults: a double-blind, randomized controlled trial.	0
223	Evaluation of Proline Amount, Yield and Expression of Genes Involved in Drought Stress in Maize Cultivars. **2022**, 14, 56-64	0
222	Plant and microbial nanotoxicology. **2023**, 341-367	0
221	Harnessing Beneficial Rhizospheric Microorganisms for Biotic Stress Management in Medicinal and Aromatic Plants. **2023**, 283-308	0
220	Microbial services for mitigation of biotic and abiotic stresses in plants. **2023**, 67-81	0
219	Reactive Oxygen Species (ROS): An Introduction. **2023**, 1-22	0
218	Modification of Sugar Profile and Ripening in Atemoya (Annona atemoya Mabb.) Fruits through Copper Hydroxide Application. **2023**, 12, 768	0
217	Wider Use of Honey Plants in Farming: Allelopathic Potential of Phacelia tanacetifolia Benth.. **2023**, 15, 3061	0
216	Adaptive mechanisms in quinoa for coping in stressful environments: an update. 11, e14832	0
215	Foliar Spray of Stigmasterol Regulates Physiological Processes and Antioxidant Mechanisms to Improve Yield and Quality of Sunflower Under Drought Stress.	0
214	Oxidative and Glycation Damage to Mitochondrial DNA and Plastid DNA during Plant Development. **2023**, 12, 891	0
213	Influence of Thermotolerant Rhizobacteria Bacillus spp. on Biochemical Attributes and Antioxidant Status of Mustard Under High Temperature Stress. **2023**, 80,	0
212	An R2R3 MYB gene GhMYB3 functions in drought stress by negatively regulating stomata movement and ROS accumulation. **2023**, 197, 107648	0
211	Zn Supplementation Mitigates Drought Effects on Cotton by Improving Photosynthetic Performance and Antioxidant Defense Mechanisms. **2023**, 12, 854	0
210	In vivo and In vitro evaluation of the antifungal activity of the PGPR Bacillus amyloliquefaciens RaSh1 (MZ945930) against Alternaria alternata with growth promotion influences on Capsicum annuum L. plants. **2023**, 22,	0
209	Differentially-expressed genes related to glutathione metabolism and heavy metal transport reveals an adaptive, genotype-specific mechanism to Hg2+ exposure in rice (Oryza sativa L.). **2023**, 324, 121340	0

208	Maleic hydrazide prompting growth and delaying senescence of mother frond in S. Polyrriza 7498. **2023**, 284, 153966	0
207	UV-C irradiation maintains cell membrane integrity at wounds of potato tubers during healing by regulating ROS homeostasis and increasing antioxidant activity. **2023**, 199, 112308	0
206	Speciation of macro- and nanoparticles of Cr2O3 in Hordeum vulgare L. and subsequent toxicity: A comparative study. **2023**, 223, 115485	0
205	DNA demethylase gene OsDML4 controls salt tolerance by regulating the ROS homeostasis and the JA signaling in rice. **2023**, 209, 105276	0
204	Uptake, tolerance, and detoxification mechanisms of antimonite and antimonate in Boehmeria nivea L. **2023**, 334, 117504	0
203	Arbuscular mycorrhizal symbiosis enhances perennial ryegrass growth during temperature stress through the modulation of antioxidant defense and hormone levels. **2023**, 195, 116412	0
202	Cocktail effect and synergistic mechanism of two components of Perilla frutescens essential oil, perillaldehyde and carvone, against Tribolium castaneum. **2023**, 195, 116433	0
201	Effect of polyethylene, polyamide, and polylactic acid microplastics on Cr accumulation and toxicity to cucumber (Cucumis sativus L.) in hydroponics. **2023**, 450, 131022	0
200	Overexpression of NtGCN2 improves drought tolerance in tobacco by regulating proline accumulation, ROS scavenging ability, and stomatal closure. **2023**, 198, 107665	0
199	Effects of different tillage on morpho-physiological traits of dryland chickpea (Cicer arietinum L.). **2023**, 229, 105660	0
198	Colored shade nets and different harvest times alter the growth, antioxidant status, and quantitative attributes of glandular trichomes and essential oil of Thymus vulgaris L.. **2023**, 35, 100474	0
197	The growth, adventitious bud formation, bioactive flavonoid production, antioxidant response, and cryptochrome-mediated light signal transduction in Isatis tinctoria L. hairy root cultures exposed to LED lights. **2023**, 195, 116496	0
196	Fluorescent sensor based on PtS2-PEG nanosheets with peroxidase-like activity for intracellular hydrogen peroxide detection and imaging. **2023**, 1259, 341179	0
195	Overexpression of the VyP5CR gene increases drought tolerance in transgenic grapevine (V. vinifera L.). **2023**, 316, 112019	0
194	Mitigating the toxicity of reactive oxygen species induced by cadmium via restoring citrate valve and improving the stability of enzyme structure in rice. **2023**, 327, 138511	0
193	A turn-on NIR fluorescent probe for risk-assessing oxidative stress in cabbage roots under abiotic stress. **2023**, 258, 124402	0
192	Randomly-shaped nanoplastics induced stronger biotoxicity targeted to earthworm Eisenia fetida species: Differential effects and the underlying mechanisms of realistic and commercial polystyrene nanoplastics. **2023**, 877, 162854	0
191	White clover from the exclusion zone of the Chernobyl NPP: Morphological, biochemical, and genetic characteristics. **2023**, 262, 107152	0

190	Exogenous application of glutathione and gamma amino-butyric acid alleviates salt stress through improvement in antioxidative defense system and modulation of CaXTHs stress-related genes. **2023**, 157, 266-273	0
189	The I1NF-YC6 transcription factor of Iris lactea var. chinensis (Fisch.) activates the llCDT1 gene and enhances tolerance to cadmium stress in Arabidopsis thaliana. **2023**, 197, 116558	0
188	G-Protein □-Subunit Gene TaGB1-B Enhances Drought and Salt Resistance in Wheat. **2023**, 24, 7337	0
187	Morpho-Physiological, Biochemical, and Ultrastructural Modifications on Sugarcane to Prolonged Water Deficit. **2022**, 139-158	0
186	Iron oxide (Fe2O3) nanoparticles alleviate PEG-simulated drought stress in grape (Vitis vinifera L.) plants by regulating leaf antioxidants. **2023**, 312, 111847	0
185	The phylogenomics and evolutionary dynamics of the organellar genomes in carnivorous Utricularia and Genlisea species (Lentibulariaceae). **2023**, 181, 107711	0
184	Ozone exposure response on physiological and biochemical parameters vis-a-vis secondary metabolites in a traditional medicinal plant Sida cordifolia L.. **2023**, 194, 116267	0
183	Antioxidative response of Stevia leaves to night chilling temperature. **2023**, 154, 232-238	0
182	Identification and characterization of aldehyde dehydrogenase (ALDH) gene superfamily in garlic and expression profiling in response to drought, salinity, and ABA. **2023**, 860, 147215	0
181	PtrbZIP3 transcription factor regulates drought tolerance of Populus trichocarpa. **2023**, 208, 105231	0
180	Physiological and Ultrastructural Changes in Dendranthema morifolium Cultivars Exposed to Different Cadmium Stress Conditions. **2023**, 13, 317	1
179	Systemic enantioselectivity study of penthiopyrad: enantioselective bioactivity, acute toxicity, degradation and influence on tomato.	0
178	Phytotoxicity of microplastics to the floating plant Spirodela polyrhiza (L.): Plant functional traits and metabolomics. **2023**, 322, 121199	1
177	Foliar salicylic acid application to mitigate the effect of water deficiency on potato (Solanum tuberosum L.). **2023**, 7, 100135	0
176	Antioxidant and growth responses to nickel-induced stress and its amelioration studies using [S, S] ethylenediamine-N□N□disuccinic acid in Solanum lycopersicum. **2023**, 59, 14-28	0
175	The Response of Chromosomally Engineered Durum Wheat-Thinopyrum ponticum Recombinant Lines to the Application of Heat and Water-Deficit Stresses: Effects on Physiological, Biochemical and Yield-Related Traits. **2023**, 12, 704	0
174	Alleviation of cold stress in wheat with psychrotrophic phosphorus solubilizing Acinetobacter rhizosphaerae EU-KL44. **2023**, 54, 371-383	0
173	Biochemical and anatomical aspects of copper deficiency induced by high nitrogen supply in Citrus.	0

172	A delay in the senescence during a rehydration following soil drought is a precondition for limiting yield loss in triticale. **2023**, 37, 69-78	0
171	BrCYP71A15 Negatively Regulates Hg Stress Tolerance by Modulating Cell Wall Biosynthesis in Yeast. **2023**, 12, 723	0
170	Metabolomic signatures of corals thriving across extreme reef habitats reveal strategies of heat stress tolerance. **2023**, 290,	1
169	Assessment of antioxidant activities of Epidendrum secundum Jacq., a terrestrial orchid from southern Ecuadorian highlands. **2023**, 154, 380-386	0
168	FLS2-RBOHD module regulates changes in the metabolome of Arabidopsis in response to abiotic stress. **2023**, 4, 36-54	0
167	Programmed Cell Death is Responsible for Ovule Abortion in Castanea Mollissima.	0
166	LC-ESI-MS/MS Analysis of Sulfolipids and Galactolipids in Green and Red Lettuce (Lactuca sativa L.) as Influenced by Sulfur Nutrition. **2023**, 24, 3728	0
165	Salicylic Acid: A Phenolic Molecule with Multiple Roles in Salt-Stressed Plants.	0
164	Effect of grains soaking with ascorbic acid on the growth and yield of wheat (Triticum aestivum L.) exposed to salinity stress. **2023**,	0
163	Comparative transcriptome analysis of Saposhnikovia divaricata to reveal drought and rehydration adaption strategies. **2023**, 50, 3493-3502	0
162	Effects of antibiotics stress on root development, seedling growth, antioxidant status and abscisic acid level in wheat (Triticum aestivum L.). **2023**, 252, 114621	0
161	Chitosan Reduces Damages of Strawberry Seedlings under High-Temperature and High-Light Stress. **2023**, 13, 517	0
160	Overexpression of PGPR responsive chickpea miRNA166 targeting ATHB15 for drought stress mitigation.	0
159	Oxidative stress and gene expression induced by biodegradable microplastics and imidacloprid in earthworms (Eisenia fetida) at environmentally relevant concentrations. **2023**, 323, 121285	0
158	Cytogenetic and Biochemical Responses of Wheat Seeds to Proton Irradiation at the Bragg Peak. **2023**, 12, 842	0
157	L-Arginine Alleviates the Reduction in Photosynthesis and Antioxidant Activity Induced by Drought Stress in Maize Seedlings. **2023**, 12, 482	0
156	Comparative transcriptomic analysis and functional characterization reveals that the class III peroxidase gene TaPRX-2A regulates drought stress tolerance in transgenic wheat. 14,	0
155	Physiological, biochemical and molecular responses of finger millet (Eleusine coracana) genotypes exposed to short-term drought stress induced by PEG-6000. **2023**, 155, 45-59	0

154	Polyethylene Glycol and Sorbitol-Mediated In Vitro Screening for Drought Stress as an Efficient and Rapid Tool to Reach the Tolerant Cucumis melo L. Genotypes. **2023**, 12, 870	0
153	Regulation of Reactive Oxygen Species during Salt Stress in Plants and Their Crosstalk with Other Signaling Moleculesâ€Current Perspectives and Future Directions. **2023**, 12, 864	1
152	Arsenic and Cadmium Toxicity in Plants: Mitigation and Remediation Strategies. **2023**, 249-285	0
151	Contamination of Sewage Water with Active Pharmaceutical Ingredients: An Emerging Threat to Food Products and Human Health. **2023**, 193-231	0
150	Alpha-Tocopherol from People to Plants Is an Essential Cog in the Metabolic Machinery. **2023**, 38, 775-791	0
149	Redox-mediated responses to high temperature in plants. **2023**, 74, 2489-2507	0
148	Effect of gibberellic acid on photosynthesis and oxidative stress response in maize under weak light conditions. 14,	0
147	As(III)-oxidizing bacteria alleviate arsenite toxicity via reducing As accumulation, elevating antioxidative activities and modulating ionome in rice (Oryza sativa L.).	0
146	Potential Toxic Effects of Metal or Metallic Nanoparticles in Plants and Their Detoxification Mechanisms. **2023**, 67-85	0
145	Polyamines Mediated In Vitro Morphogenesis in Cotyledonary Node Explants of Mucuna pruriens (L.) DC.: A Natural Source of L-Dopa.	0
144	The Effects of 1,4-Naphthoquinone (NQ) and Naphthazarin (5,8-Dihydroxy-1,4-naphthoquinone, DHNQ) Individually and in Combination on Growth and Oxidative Stress in Maize (Zea mays L.) Seedlings. **2023**, 12, 900	0
143	Supplemental light and silicon improved strawberry fruit size and sugars concentration under both full and deficit irrigation. **2023**, 313, 111912	0
142	Exogenous melatonin (MT) enhances salt tolerance of okra (Abelmoschus esculentus L.) plants by regulating proline, photosynthesis, ion homeostasis and ROS pathways.	0
141	Cocultivation of pigeon pea hairy root cultures and Aspergillus for the enhanced production of cajaninstilbene acid. **2023**, 107, 1931-1946	0
140	Peel to Flesh Bioactive Compounds Ratio Affect Apple Antioxidant Potential and Cultivar Functional Properties. **2023**, 13, 478	0
139	Understanding the Interaction and Potential of Halophytes and Associated Microbiome for Bio-saline Agriculture.	0
138	Comparative metagenomic analysis reveals rhizosphere microbial community composition and functions help protect grapevines against salt stress. 14,	0
137	Chromatin Remodeling Complex SWR1 Regulates Root Development by Affecting the Accumulation of Reactive Oxygen Species (ROS). **2023**, 12, 940	0

136	The Effects of Exogenous Salicylic Acid and Strigolactone Applications on Seedling Growth and Antioxidant Activity in Tomato Seedlings Under Short-Term Drought Stress. 89-101	0
135	A bHLH transcription factor, CsSPT, regulates high-temperature resistance in cucumber. **2023**,	0
134	Physiological and Transcriptome Analysis Reveals the Differences in Genes of Antioxidative Defense Components and Cold-Related Proteins in Winter and Spring Wheat during Cold Acclimation. **2023**, 13, 605	0
133	GmSTK12 Participates in Salt Stress Resistance in Soybean. **2023**, 13, 613	0
132	Integration of transcriptome and metabolome analyses reveals sorghum roots responding to cadmium stress through regulation of the flavonoid biosynthesis pathway. 14,	0
131	Exogenous proline activated an integrated response of NER and HR pathways to reduce DNA damage in rice seedlings under chromium stress. **2023**, 30, 51792-51803	0
130	Harnessing the role of mitogen-activated protein kinases against abiotic stresses in plants. 14,	0
129	Exploration the homeostasis of signaling molecules in monocotyledonous crops with different CuO nanoparticle tolerance. **2023**, 7, 100145	0
128	Beneficial microbes for sustainable agroecosystem. **2023**, 1-19	0
127	Multimechanism Collaborative Superior Antioxidant CDzymes To Alleviate Salt Stress-Induced Oxidative Damage in Plant Growth. **2023**, 11, 4237-4247	0
126	The UDP-glucuronic acid decarboxylase OsUXS3 regulates Na+ ion toxicity tolerance under salt stress by interacting with OsCATs in rice. **2023**, 196, 850-858	0
125	Nitrogen supply alleviates cold stress by increasing photosynthesis and nitrogen assimilation in maize seedlings.	0
124	The Promotive Effect of Putrescine on Growth, Biochemical Constituents, and Yield of Wheat (Triticum´aestivum L.) Plants under Water Stress. **2023**, 13, 587	0
123	Dynamic responses of root vigor, lipid peroxidation and antioxidant enzymes in Artemisia selengensis to long-term drought and re-watering.	0
122	Exogenous Hemin alleviates NaCl stress by promoting photosynthesis and carbon metabolism in rice seedlings. **2023**, 13,	0
121	Abiotic Stress Mitigation: A Case Study from 21 Trials Using a Natural Organic Matter Based Biostimulant across Multiple Geographies. **2023**, 13, 728	0
120	Universal Stress Proteins: From Gene to Function. **2023**, 24, 4725	0
119	An insight into the role of carbon dots in the agriculture system: a review. **2023**, 10, 959-995	0

118 Effect mechanism of freezeâthaw cycles on browning of âNanguoâpears peel. 0

117 Role of Plant Growth-Promoting Bacteria in Rainfed and Irrigated Crops. **2023**, 45-69 0

116 Metabolic flexibility during a trophic transition reveals the phenotypic plasticity of greater duckweed (Spirodela polyrhiza 7498). **2023**, 238, 1386-1402 0

115 An in Vitro Approach to Investigate the Role of Abscisic Acid in Alleviating the Negative Effects of Chilling Stress on Banana Shoots. **2023**, 92, 1695-1711 0

114 Exogenous Melatonin Enhances the Yield and Secondary Metabolite Contents of Prunella vulgaris by Modulating Antioxidant System, Root Architecture and Photosynthetic Capacity. **2023**, 12, 1129 0

113 Phytomitigation potential and adaptive responses of helophyte Typha latifolia L. to copper smelter-influenced heavily multi-metal contamination. 0

112 In vitro simulation of´drought stress in´some Iranian Damask rose landraces. **2023**, 50, 45-60 0

111 Effect of genotypes and foliar spray of methyl jasmonate and salicylic acid on andrographolide yield in Andrographis paniculata (Burm. f.) Wall. ex Nees. under semi-arid climate. **2023**, 47, 0

110 Inoculation with Azorhizobium caulinodans ORS571 enhances plant growth and salt tolerance of switchgrass (Panicum virgatum L.) seedlings. **2023**, 16, 0

109 Use of a Biostimulant to Mitigate the Effects of Excess Salinity in Soil and Irrigation Water in Tomato Plants. **2023**, 12, 1190 0

108 Physiological and Growth Characteristics of Tomato Seedlings in Response to Low Root-zone Temperature. **2023**, 58, 442-448 0

107 Genome-wide transcriptome and physiological analyses provide new insights into cadmium tolerance of tomato seedlings. 0

106 Effects of polystyrene nanoplastics exposure on in vitro-grown Stevia rebaudiana plants. **2023**, 197, 107634 0

105 Antioxidant Defensive Mechanisms to Regulate Cellular Redox Homeostatic Balance. **2023**, 143-172 0

104 Sterile line Dexiang074A enhances drought tolerance in hybrid rice. 14, 0

103 Isolation and characterization of soil cyanobacteria and microalgae and evaluation of their potential as plant biostimulants. 0

102 Generation and Fate of ROS in Mitochondria. **2023**, 93-106 0

101 ZmG6PDH1 in glucose-6-phosphate dehydrogenase family enhances cold stress tolerance in maize. 14, 0

100	Molecular Mechanisms Underpinning Signaling Function of ROS. **2023**, 223-240	0
99	Nutrients Regulation and Abiotic Stress Tolerance in Plants. **2023**, 209-223	0
98	Cellular Mechanisms of the Formation of Plant Adaptive Responses to High Temperatures. **2023**, 57, 55-75	0
97	Toxic effects of cadmium on the physiological and biochemical attributes of plants, and phytoremediation strategies: A review. **2023**, 325, 121433	0
96	Modeling DNA Methylation Profiles and Epigenetic Analysis of Safflower (Carthamus tinctorius L.) Seedlings Exposed to Copper Heavy Metal. **2023**, 11, 255	0
95	Effect of Thallium(I) on Growth, Nutrient Absorption, Photosynthetic Pigments, and Antioxidant Response of Dittrichia Plants. **2023**, 12, 678	0
94	Zinc fertilizers for Citrus production: assessing nutrient supply via fertigation or foliar application.	0
93	Root-derived long-range signals activate ABA synthesis infrd3leaves to enhance drought resistance.	0
92	OsNF-YA3 regulates plant growth and osmotic stress tolerance by interacting with SLR1 and SAPK9 in rice.	0
91	A comprehensive and conceptual overview of omics-based approaches for enhancing the resilience of vegetable crops against abiotic stresses. **2023**, 257,	0
90	Morphological and Transcriptome Analysis of Flooding Mitigation of the Damage Induced by Low-Temperature Stress on Direct-Seeded Early Indica Rice at the Seedling Stage. **2023**, 13, 834	0
89	Cloning and comparative modeling identifies a highly stress tolerant Cu/Zn cytosolic super oxide dismutase 2 from a drought tolerant maize inbred line. 11, e14845	0
88	Nanobiochar and Copper Oxide Nanoparticles Mixture Synergistically Increases Soil Nutrient Availability and Improves Wheat Production. **2023**, 12, 1312	0
87	Exogenous □aminobutyric acid (GABA) improves salt-inhibited nitrogen metabolism and the anaplerotic reaction of the tricarboxylic acid cycle by regulating GABA-shunt metabolism in maize seedlings. **2023**, 254, 114756	0
86	Probiotics, Proline and Calcium Induced Protective Responses of Triticum aestivum under Drought Stress. **2023**, 12, 1301	0
85	Influence of dwarfing interstock on the tolerance and nutrient utilization efficiency of apple trees under drought stress. **2023**, 315, 111984	0
84	Galactoglucomannan oligosaccharides alleviate cadmium toxicity by improving physiological processes in maize. **2023**, 255, 114777	0
83	Response of Maize Hybrids Seedlings to Salinity Stress with Oxidative Defense System on Polyacrylamide Gel. **2021**, 13, 107-115	0

82	Synergistic effect of extra potassium application and AM fungi on drought tolerance of Lycium barbarum.	0
81	Microbial Mitigation of Drought Stress in Plants: Adaptations to Climate Change.	0
80	Investigation of some Biochemical Traits of Tolerant and Sensitive Wheat Cultivars (Triticum Bioticum) under Salinity Stress. **2020**, 12, 216-234	0
79	Banding Patterns Activity of Antioxidant Enzymes and Physiological Indices in the Maize (Zea mays L.) Genotypes under Water Deficit Stress. **2022**, 14, 64-75	0
78	Response of Some Physiological Traits in Maize Cultivars to Salinity Stress. **2021**, 13, 173-180	0
77	Differential Expression of StFtsH5, StFtsH6, and StFtsH10 Genes in Potatoinduced by Cold, Heat, and High Light Stress. **2022**, 14, 148-155	0
76	Study of Biochemical and Molecular Changes of Iranian Rice Cultivars in Interaction with Bacterial Pathogen Xanthomonas oryzae pv. oryzae Causes Leaf Blight Disease. **2020**, 12, 77-89	0
75	Growth, physiological, and molecular responses of three phaeophyte extracts on salt-stressed pea (Pisum sativum L.) seedlings. **2023**, 21,	0
74	Genome-Wide Identification of Superoxide Dismutase and Expression in Response to Fruit Development and Biological Stress in Akebia trifoliata: A Bioinformatics Study. **2023**, 12, 726	0
73	Physiological and Molecular Effects of Calcium and Salicylic Acid on Fusarium graminearum-Infected Wheat Seedlings.	0
72	Alterations in metabolic profiling of crop plants under abiotic stress. **2023**, 197-233	0
71	Current status and future prospect of managing lead (Pb) stress through microbes for sustainable agriculture. **2023**, 195,	0
70	The Changes of Tolerance, Accumulation and Oxidative Stress Response to Cadmium in Tobacco Caused by Introducing Datura stramonium L. Genes. **2023**, 13, 882	0
69	Mechanisms Underlying the C3â€“CAM Photosynthetic Shift in Facultative CAM Plants. **2023**, 9, 398	0
68	A Single Nucleotide Variation of CRS2 Affected the Establishment of Photosynthetic System in Rice. **2023**, 24, 5796	0
67	Comprehensive Analysis of Calcium Sensor Families, CBL and CIPK, in Aeluropus littoralis and Their Expression Profile in Response to Salinity. **2023**, 14, 753	0
66	Improving basil (Ocimum basilicum L.) essential oil yield following down-regulation of photosynthetic functionality by short-term application of abiotic elicitors. **2023**, 50, 102675	0
65	Content of phenol and stilbene compounds and gene expression related to fruit development during ripening in Ampelopsis.	0

64	Phosphorus application interferes expression of Fe uptake-associated genes to feedback regulate Cd accumulation in rice (Oryza sativa L.) and relieves Cd toxicity via antioxidant defense.	0
63	Fungal Endophytes Enhance Wheat and Tomato Drought Tolerance in Terms of Plant Growth and Biochemical Parameters. **2023**, 9, 384	0
62	Exogenous Application of Salicylic Acid Improves Growth and Yield of Black Gram Vigna mungo L. by Improving Antioxidant Defense Mechanism under Saline Conditions. **2022**, 69,	0
61	Supplementation with Ascophyllum nodosum extracts mitigates arsenic toxicity by modulating reactive oxygen species metabolism and reducing oxidative stress in rice. **2023**, 255, 114819	0
60	Antioxidative and Structural Responses of Melissa officinalis to Salt Stress. **2022**, 69,	0
59	Seed Priming with Fullerol Improves Seed Germination, Seedling Growth and Antioxidant Enzyme System of Two Winter Wheat Cultivars under Drought Stress. **2023**, 12, 1417	0
58	Physiological and biochemical determinants of drought tolerance in tetraploid vs diploid sour orange citrus rootstock. 1-14	0
57	In vitro koullarda farkl dozlarda bor uygulamalarnn mersin (Myrtus communis L.) bitkisinin biyokimyasal zellikleri zerine etkileri. **2023**, 28, 46-58	0
56	Effects of suspended particles in the Jinjiang River Estuary on the physiological and biochemical characteristics of Microcystis flos-aquae. **2023**, 30, 56687-56699	0
55	Salicylic acid-related ribosomal protein CaSLP improves drought and Pst.DC3000 tolerance in pepper. **2023**, 3,	0
54	The distribution of submerged macrophytes in response to intense solar radiation and salinity reveals hydrogen peroxide as an abiotic stress indicator. **2023**, 13,	0
53	Tobacco plants expressing the defensin NaD1 enhances drought tolerance characteristics in transgenic lines.	0
52	Nutrient deficiency lowers photochemical and carboxylation efficiency in tobacco.	1
51	Effect of Fertigation on the Physicochemical Quality and Antioxidant System of âFinoâLemons during Postharvest Storage. **2023**, 13, 766	1
50	Oxylipins and Reactive Carbonyls as Regulators of the Plant Redox and Reactive Oxygen Species Network under Stress. **2023**, 12, 814	0
49	Heterologous overexpression of Apocynum venetum flavonoids synthetase genes improves Arabidopsis thaliana salt tolerance by activating the IAA and JA biosynthesis pathways. 14,	0
48	Tuz Stresi Altndaki Budayda Bacillus thuringiensis LU3 ile Biyoprimingâin Fizyolojik ve Biyokimyasal Etkileri.	0
47	The Beneficial Roles of Elevated [CO2] on Exogenous ABA-Enhanced Drought Tolerance of Cucumber Seedlings. **2023**, 9, 421	0

46	Study on bioactive compounds of microalgae as antioxidants in a bibliometric analysis and visualization perspective. 14,	0
45	Combined Effect of Salt Stress and Nitrogen Level on the Primary Metabolism of Two Contrasting Hydroponically Grown Cichorium spinosum L. Ecotypes. **2023**, 13, 607	0
44	Blue LED light promoting the growth, accumulation of high-value isoflavonoids and astragalosides, antioxidant response, and biosynthesis gene expression in Astragalus membranaceus (Fisch.) Bunge hairy root cultures.	0
43	Seed biopriming with potential bioagents influences physiological processes and plant defense enzymes to ameliorate sheath blight induced yield loss in rice (Oryza sativa L.). **2023**, 39,	0
42	Morphological, physiological, and biochemical responses of Pistacia atlantica seedlings to elevated CO2 concentration and drought stress.	0
41	The Effect of Cadmium Tolerant Plant Growth Promoting Rhizobacteria on Plant Growth Promotion and Phytoremediation: A Review. **2023**, 80,	0
40	Transcriptome analysis reveals insight into the protective effect of N-acetylcysteine against cadmium toxicity in Ganoderma lucidum (Polyporales: Polyporaceae).	0
39	Comparative Analysis of Antioxidant System and Salt-Stress Tolerance in Two Hibiscus Cultivars Exposed to NaCl Toxicity. **2023**, 12, 1525	0
38	Comparing the salinity tolerance of twenty different wheat genotypes on the basis of their physiological and biochemical parameters under NaCl stress. **2023**, 18, e0282606	0
37	Insight into the biochemical and physiological mechanisms of nanoparticles-induced arsenic tolerance in bamboo. 14,	0
36	Waterlogging resistance and evaluation of physiological mechanism of three peach (Prunus persica) rootstocks.	0
35	The effects of exogenously applied antioxidants on plant growth and resilience.	0
34	Exogenous Calcium Reinforces Photosynthetic Pigment Content and Osmolyte, Enzymatic, and Non-Enzymatic Antioxidants Abundance and Alleviates Salt Stress in Bread Wheat. **2023**, 12, 1532	0
33	Foliar Application of Silicon to Boost Biochemical and Physiological Response in Oat Under Water Stress.	0
32	The Role and Mechanism of Hydrogen-Rich Water in the Cucumis sativus Response to Chilling Stress. **2023**, 24, 6702	0
31	Effect of Low-Temperature Stress on Plant Performance and Adaptation to Temperature Change.	0
30	Use of microalga Asterarcys quadricellulare in common bean: a sustainable alternative to mitigate water stress.	0
29	Response network and regulatory measures of plant-soil-rhizosphere environment to drought stress. **2023**,	0

28	A Brachypodium distachyon calcineurin B-like protein-interacting protein kinase, BdCIPK26, enhances plant adaption to drought and high salinity stress. **2023**, 47, 1145-1158	0
27	Application of Silicon and Selenium in Rice for Reducing Cadmium Stress. **2023**, 92, 1873-1886	0
26	5-Aminolevulinic acid mitigates the chromium-induced changes in Helianthus annuus L. as revealed by plant defense system enhancement. **2023**, 107701	0
25	Antioxidant response and quality of sunburn Beurr'D'Anjou pears (Pyrus communis L.). **2023**, 198, 107703	0
24	Dephosphorylation of Nitrate Reductase Protein Regulates Growth of Rice and Adaptability to Low Temperature.	0
23	Integrated physiological, metabolite and proteomic analysis reveal the glyphosate stress response mechanism in tea plant (Camellia sinensis). **2023**, 131419	0
22	Interplay of silymarin and clove fruit extract effectively enhances cadmium stress tolerance in wheat (Triticum aestivum). 14,	0
21	Potential Impacts of Clove Essential Oil Nanoemulsion as Bio Fungicides against Neoscytalidium Blight Disease of Carum carvi L.. **2023**, 13, 1114	0
20	The strategy role of natural products on growth, primary and secondary metabolites of two wheat cultivars under drought stress.	0
19	Modifications in Ultrastructural Characteristics and Redox Status of Plants under Environmental Stress: A Review. **2023**, 12, 1666	0
18	Exogenous application of melatonin to mitigate drought stress-induced oxidative damage in Phoebe sheareri seedlings. 11, e15159	0
17	Exogenous Application of Salicylic Acid Improve Growth and Some Physio-Biochemical Parameters in Herbicide Stressed Phaseolus vulgaris L..	0
16	Low-Arsenic Accumulating Cabbage Possesses Higher Root Activities against Oxidative Stress of Arsenic. **2023**, 12, 1699	0
15	Changes in fatty acids in Brassica juncea L. oil grown under two simulated conditions of fluoride contamination. 1-8	0
14	Long-term high temperature stress decreases the photosynthetic capacity and induces irreversible damage in chrysanthemum seedlings.	0
13	Strategies to Develop Heat and Droughtâ□tolerant Wheat Varieties Following Physiological Breeding. **2023**, 19-52	0
12	Growth and Yield of Black Rice M4 Induced by Gamma-Rays 200 Gy Under Drought Stress. **2023**, 1165, 012021	0
11	Use of organic acids in micropropagation helps the production of salinity tolerant strawberry.	0

10	Aspergillus welwitschiae BK Isolate Ameliorates the Physicochemical Characteristics and Mineral Profile of Maize under Salt Stress. **2023**, 12, 1703	0
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