Parvaiz Ahmad

List of Publications by Year in Descending Order

381 papers	10,940 citations	57 h-index	90 g-index
412 ext. papers	15,097 ext. citations	5.2 avg, IF	7.2 L-index

#	Paper	IF	Citations
381	Agroecotoxicological Aspect of Cd in Soil-Plant System: Uptake, Translocation and Amelioration Strategies.. *Environmental Science and Pollution Research*, **2022**, 1	5.1	1
380	Co application of biofertilizer and zinc oxide nanoparticles upregulate protective mechanism culminating improved arsenic resistance in maize.. *Chemosphere*, **2022**, 294, 133796	8.4	1
379	Reactive Oxygen Species in Plants: From Source to Sink.. *Antioxidants*, **2022**, 11,	7.1	16
378	Melatonin Improves Drought Stress Tolerance of Tomato by Modulating Plant Growth, Root Architecture, Photosynthesis, and Antioxidant Defense System.. *Antioxidants*, **2022**, 11,	7.1	14
377	Elevation in wildfire frequencies with respect to the climate change. *Journal of Environmental Management*, **2022**, 301, 113769	7.9	4
376	Characterization of and Gene Families in the Soybeans in Response to Drought and Salinity Stresses.. *Antioxidants*, **2022**, 11,	7.1	3
375	Reproductive Biology of Royle, a Vulnerable Medicinal Herb From Alpines of North-Western Himalaya.. *Frontiers in Plant Science*, **2022**, 13, 699645	6.2	0
374	Combining Biocontrol Agent With Plant Nutrients for Integrated Control of Tomato Early Blight Through the Modulation of Physio-Chemical Attributes and Key Antioxidants.. *Frontiers in Microbiology*, **2022**, 13, 807699	5.7	0
373	Accumulation of chromium in plants and its repercussion in animals and humans.. *Environmental Pollution*, **2022**, 119044	9.3	4
372	Attenuation mechanisms of arsenic induced toxicity and its accumulation in plants by engineered nanoparticles: A review.. *Environmental Pollution*, **2022**, 119038	9.3	2
371	Chromium toxicity induced oxidative damage in two rice cultivars and its mitigation through external supplementation of brassinosteroids and spermine.. *Chemosphere*, **2022**, 134423	8.4	1
370	Aquaporin-Mediated Transport: Insights into Metalloid Trafficking.. *Physiologia Plantarum*, **2022**, e13687	4.6	0
369	Arsenic as hazardous pollutant: Perspectives on engineering remediation tools.. *Science of the Total Environment*, **2022**, 155870	10.2	3
368	Regulation of Plant Growth by Microbe-Assisted Nitric Oxide Production **2022**, 95-117		0
367	Polyamines and Nitric Oxide Interaction in Abiotic Stress Regulation in Plants **2022**, 217-229		
366	Ascorbate□lutathione Cycle **2022**, 148-178		
365	Molecular Approaches for Designing NO -mediated Stress Tolerance Pathways **2022**, 59-77		

364	Role of Nitric Oxide in Abiotic Stress **2022**, 42-58		
363	Regulation of NO Biosynthesis Under Abiotic Stresses and Modulation Due to Osmolytes **2022**, 26-41		0
362	Nitric Oxide and Reactive Oxygen Species Interaction for Stress Signaling **2022**, 118-147		
361	Role of biochar and compost in cadmium immobilization and on the growth of Spinacia oleracea. *PLoS ONE*, **2022**, 17, e0263289	3.7	0
360	Nitric oxide, salicylic acid and oxidative stress: Is it a perfect equilateral triangle?. *Plant Physiology and Biochemistry*, **2022**, 184, 56-64	5.4	2
359	Thiamin stimulates growth, yield quality and key biochemical processes of cauliflower (Brassica oleracea L. var. Botrytis) under arid conditions. *PLoS ONE*, **2022**, 17, e0266372	3.7	0
358	Silicon-mediated metabolic upregulation of ascorbate glutathione (AsA-GSH) and glyoxalase reduces the toxic effects of vanadium in rice. *Journal of Hazardous Materials*, **2022**, 436, 129145	12.8	0
357	Methionine-induced regulation of growth, secondary metabolites and oxidative defense system in sunflower (Helianthus annuus L.) plants subjected to water deficit stress. *PLoS ONE*, **2021**, 16, e0259585	3.7	3
356	Plant growth promoters mediated quality and yield attributes of milk thistle (Silybum marianum L.) ecotypes under salinity stress. *Scientific Reports*, **2021**, 11, 23200	4.9	2
355	Newly-synthesized iron-oxide nanoparticles showed synergetic effect with citric acid for alleviating arsenic phytotoxicity in soybean.. *Environmental Pollution*, **2021**, 295, 118693	9.3	1
354	Efficacy of citric acid chelate and Bacillus sp. in amelioration of cadmium and chromium toxicity in wheat.. *Chemosphere*, **2021**, 290, 133342	8.4	3
353	The combined supplementation of melatonin and salicylic acid effectively detoxifies arsenic toxicity by modulating phytochelatins and nitrogen metabolism in pepper plants.. *Environmental Pollution*, **2021**, 118727	9.3	0
352	Induced systemic tolerance mediated by plant-microbe interaction in maize (Zea mays L.) plants under hydrocarbon contamination.. *Chemosphere*, **2021**, 290, 133327	8.4	0
351	Comparative analysis of iron oxide nanoparticles synthesized from ginger (Zingiber officinale) and cumin seeds (Cuminum cyminum) to induce resistance in wheat against drought stress.. *Chemosphere*, **2021**, 133201	8.4	5
350	Jasmonic acid (JA) and gibberellic acid (GA) mitigated Cd-toxicity in chickpea plants through restricted cd uptake and oxidative stress management. *Scientific Reports*, **2021**, 11, 19768	4.9	5
349	Green synthesis of zinc oxide nanoparticles using Elaeagnus angustifolia L. leaf extracts and their multiple in vitro biological applications. *Scientific Reports*, **2021**, 11, 20988	4.9	12
348	Defense interplay of the zinc-oxide nanoparticles and melatonin in alleviating the arsenic stress in soybean (Glycine max L.). *Chemosphere*, **2021**, 132471	8.4	6
347	Sustainable nanotechnology based wastewater treatment strategies: achievements, challenges and future perspectives. *Chemosphere*, **2021**, 132606	8.4	3

346	Bacterial bioaugmentation enhances hydrocarbon degradation, plant colonization and gene expression in diesel-contaminated soil. *Physiologia Plantarum*, **2021**, 173, 58-66	4.6	3
345	Identification of differentially expressed genes and pathways in isonuclear kenaf genotypes under salt stress. *Physiologia Plantarum*, **2021**, 173, 1295-1308	4.6	2
344	Combined gas exchange characteristics, chlorophyll fluorescence and response curves as selection traits for temperature tolerance in maize genotypes. *Photosynthesis Research*, **2021**, 150, 213-225	3.7	4
343	Zinc oxide nanoparticles (ZnO-NPs) induce salt tolerance by improving the antioxidant system and photosynthetic machinery in tomato. *Plant Physiology and Biochemistry*, **2021**, 161, 122-130	5.4	54
342	Exogenously applied spermidine confers protection against cinnamic acid-mediated oxidative stress in. *Saudi Journal of Biological Sciences*, **2021**, 28, 2619-2625	4	3
341	Foliar application of fungicide-opera alleviates negative impact of water stress in soybean plants. *Saudi Journal of Biological Sciences*, **2021**, 28, 2626-2633	4	1
340	Biochar as a tool for effective management of drought and heavy metal toxicity. *Chemosphere*, **2021**, 271, 129458	8.4	41
339	Silicon attenuates the negative effects of chromium stress in tomato plants by modifying antioxidant enzyme activities, ascorbate□glutathione cycle and glyoxalase system. *Acta Physiologiae Plantarum*, **2021**, 43, 1	2.6	6
338	Combined application of zinc oxide nanoparticles and biofertilizer to induce salt resistance in safflower by regulating ion homeostasis and antioxidant defence responses. *Ecotoxicology and Environmental Safety*, **2021**, 218, 112262	7	12
337	Exogenous 24-Epibrassinolide stimulates root protection, and leaf antioxidant enzymes in lead stressed rice plants: Central roles to minimize Pb content and oxidative stress. *Environmental Pollution*, **2021**, 280, 116992	9.3	11
336	Zinc oxide nanoparticles and 24-epibrassinolide alleviates Cu toxicity in tomato by regulating ROS scavenging, stomatal movement and photosynthesis. *Ecotoxicology and Environmental Safety*, **2021**, 218, 112293	7	16
335	Drought-tolerant Pseudomonas sp. showed differential expression of stress-responsive genes and induced drought tolerance in Arabidopsis thaliana. *Physiologia Plantarum*, **2021**,	4.6	14
334	Methyl Jasmonate Protects the PS II System by Maintaining the Stability of Chloroplast D1 Protein and Accelerating Enzymatic Antioxidants in Heat-Stressed Wheat Plants. *Antioxidants*, **2021**, 10,	7.1	13
333	Stress Protective Effect of Rhododendron arboreum Leaves (MEL) on Chromium-Treated Vigna radiata Plants. *Journal of Plant Growth Regulation*, **2021**, 40, 423-435	4.7	5
332	Impact of exogenously applied trehalose on leaf biochemistry, achene yield and oil composition of sunflower under drought stress. *Physiologia Plantarum*, **2021**, 172, 317-333	4.6	43
331	Advances in Salt Tolerance of Some Major Fiber Crops Through Classical and Advanced Biotechnological Tools: A Review. *Journal of Plant Growth Regulation*, **2021**, 40, 891-905	4.7	3
330	Silicon and Plants: Current Knowledge and Future Prospects. *Journal of Plant Growth Regulation*, **2021**, 40, 906-925	4.7	30
329	Zingerone prevents lead-induced toxicity in liver and kidney tissues by regulating the oxidative damage in Wistar rats. *Journal of Food Biochemistry*, **2021**, 45, e13241	3.3	8

328	Ion homeostasis for salinity tolerance in plants: a molecular approach. *Physiologia Plantarum*, **2021**, 171, 578-594	4.6	18
327	Herbal immune-boosters: Substantial warriors of pandemic Covid-19 battle. *Phytomedicine*, **2021**, 85, 153361	6.5	46
326	Impact of bovine serum albumin - A protein corona on toxicity of ZnO NPs in environmental model systems of plant, bacteria, algae and crustaceans. *Chemosphere*, **2021**, 270, 128629	8.4	14
325	Main nitric oxide (NO) hallmarks to relieve arsenic stress in higher plants. *Journal of Hazardous Materials*, **2021**, 406, 124289	12.8	22
324	Seed priming with titanium dioxide nanoparticles enhances seed vigor, leaf water status, and antioxidant enzyme activities in maize (Zea mays L.) under salinity stress. *Journal of King Saud University - Science*, **2021**, 33, 101207	3.6	60
323	Melatonin improves the seed filling rate and endogenous hormonal mechanism in grains of summer maize. *Physiologia Plantarum*, **2021**, 172, 1059-1072	4.6	14
322	Foliar fertigation of ascorbic acid and zinc improves growth, antioxidant enzyme activity and harvest index in barley (Hordeum vulgare L.) grown under salt stress. *Plant Physiology and Biochemistry*, **2021**, 158, 244-254	5.4	24
321	Nitric oxide donor, sodium nitroprusside, mitigates mercury toxicity in different cultivars of soybean. *Journal of Hazardous Materials*, **2021**, 408, 124852	12.8	13
320	Silicon distribution in leaves and roots of rice and maize in response to cadmium and zinc toxicity and the associated histological variations. *Physiologia Plantarum*, **2021**, 173, 460-471	4.6	2
319	Arbuscular mycorrhiza in combating abiotic stresses in vegetables: An eco-friendly approach. *Saudi Journal of Biological Sciences*, **2021**, 28, 1465-1476	4	21
318	Influence of salinity stress on PSII in barley (Hordeum vulgare L.) genotypes, probed by chlorophyll-a fluorescence. *Journal of King Saud University - Science*, **2021**, 33, 101239	3.6	17
317	Deciphering genetic diversity analysis of saffron (L.) using RAPD and ISSR markers. *Saudi Journal of Biological Sciences*, **2021**, 28, 1308-1317	4	10
316	Foliar Concentrations of Selected Elements, Assessment of Oxidative Stress Markers and Role of Antioxidant Defense System is Associated with Fly Ash Stress Tolerance in Withania somnifera. *Journal of Plant Growth Regulation*, **2021**, 40, 1450-1465	4.7	3
315	Thiamin stimulates growth and secondary metabolites in turnip (Brassica rapa L.) leaf and root under drought stress. *Physiologia Plantarum*, **2021**, 172, 1399-1411	4.6	9
314	The effect of NADPH oxidase inhibitor diphenyleneiodonium (DPI) and glutathione (GSH) on , under Arsenic (As) toxicity. *International Journal of Phytoremediation*, **2021**, 23, 945-957	3.9	4
313	Drought-tolerant Bacillus megaterium isolated from semi-arid conditions induces systemic tolerance of wheat under drought conditions. *Plant Cell Reports*, **2021**, 1	5.1	12
312	Heavy metal bioaccumulation by selected plants from fly ash□contaminated soils in suburban area. *Arabian Journal of Geosciences*, **2021**, 14, 1	1.8	1
311	Exogenous hemin improves Cd tolerance and remediation potential in□Vigna radiata□by intensifying the HO-1 mediated antioxidant defence system. *Scientific Reports*, **2021**, 11, 2811	4.9	1

310	Scanning electron microscopy of Sophora alopecuroides L. seeds and their cytotoxic, antimicrobial, antioxidant, and enzyme inhibition potentials. *Microscopy Research and Technique*, **2021**, 84, 1809-1820	2.8	8
309	Methyl Jasmonate and Sodium Nitroprusside Jointly Alleviate Cadmium Toxicity in Wheat (L.) Plants by Modifying Nitrogen Metabolism, Cadmium Detoxification, and AsA-GSH Cycle. *Frontiers in Plant Science*, **2021**, 12, 654780	6.2	6
308	Elucidating the role of silicon in drought stress tolerance in plants. *Plant Physiology and Biochemistry*, **2021**, 165, 187-195	5.4	10
307	Effect of green and chemically synthesized titanium dioxide nanoparticles on cadmium accumulation in wheat grains and potential dietary health risk: A field investigation. *Journal of Hazardous Materials*, **2021**, 415, 125585	12.8	11
306	Synergistic effects of plant growth promoting rhizobacteria and silicon dioxide nano-particles for amelioration of drought stress in wheat. *Plant Physiology and Biochemistry*, **2021**, 166, 160-176	5.4	12
305	Uptake, accumulation and elimination of cadmium in a soil - Faba bean (Vicia faba) - Aphid (Aphis fabae) - Ladybird (Coccinella transversalis) food chain. *Chemosphere*, **2021**, 279, 130522	8.4	3
304	Biotransfer, bioaccumulation and detoxification of nickel along the soil - faba bean - aphid - ladybird food chain. *Science of the Total Environment*, **2021**, 785, 147226	10.2	3
303	Zinc oxide nanoparticles alleviates the adverse effects of cadmium stress on Oryza sativa via modulation of the photosynthesis and antioxidant defense system. *Ecotoxicology and Environmental Safety*, **2021**, 220, 112401	7	16
302	Fate of arsenic in living systems: Implications for sustainable and safe food chains. *Journal of Hazardous Materials*, **2021**, 417, 126050	12.8	15
301	Enthralling the impact of engineered nanoparticles on soil microbiome: A concentric approach towards environmental risks and cogitation. *Ecotoxicology and Environmental Safety*, **2021**, 222, 112459	7	8
300	Biosynthesis and characterization of titanium dioxide nanoparticles and its effects along with calcium phosphate on physicochemical attributes of wheat under drought stress. *Ecotoxicology and Environmental Safety*, **2021**, 223, 112519	7	12
299	Endogenous nitric oxide and its potential sources regulate glutathione-induced cadmium stress tolerance in maize plants. *Plant Physiology and Biochemistry*, **2021**, 167, 723-737	5.4	0
298	A comprehensive review of adaptations in plants under arsenic toxicity: Physiological, metabolic and molecular interventions. *Environmental Pollution*, **2021**, 290, 118029	9.3	7
297	Antimicrobial, cytotoxic, antioxidants, enzyme inhibition activities, and scanning electron microscopy of Lactuca orientalis (Boiss.) Boiss. seeds. *Microscopy Research and Technique*, **2021**, 84, 1284-1295	2.8	8
296	Ascorbate-Glutathione Oxidant Scavengers, Metabolome Analysis and Adaptation Mechanisms of Ion Exclusion in Sorghum under Salt Stress.. *International Journal of Molecular Sciences*, **2021**, 22,	6.3	4
295	Hydrogen sulfide alleviates chromium stress on cauliflower by restricting its uptake and enhancing antioxidative system. *Physiologia Plantarum*, **2020**, 168, 289-300	4.6	48
294	Integrative roles of nitric oxide and hydrogen sulfide in melatonin-induced tolerance of pepper (Capsicum annuum L.) plants to iron deficiency and salt stress alone or in combination. *Physiologia Plantarum*, **2020**, 168, 256-277	4.6	85
293	Mechanisms Underlying Graft Union Formation and Rootstock Scion Interaction in Horticultural Plants. *Frontiers in Plant Science*, **2020**, 11, 590847	6.2	17

292	Influence of Nitrogen Management Regimes on Milling Recovery and Grain Quality of Aromatic Rice in Different Rice Production Systems. *Agronomy*, **2020**, 10, 1841	3.6	5
291	Zinc-Induced Effects on Productivity, Zinc Use Efficiency, and Grain Biofortification of Bread Wheat under Different Tillage Permutations. *Agronomy*, **2020**, 10, 1566	3.6	21
290	Ecotoxicological Effects of Ibuprofen on Plant Growth of L. *Plants*, **2020**, 9,	4.5	6
289	Zingerone [4-(3-Methoxy-4-hydroxyphenyl)-butan-2] Attenuates Lipopolysaccharide-Induced Inflammation and Protects Rats from Sepsis Associated Multi Organ Damage. *Molecules*, **2020**, 25,	4.8	4
288	Covid-19 Pandemic and Current Medical Interventions. *Archives of Medical Research*, **2020**, 51, 473-481	6.6	9
287	Cyperus laevigatus L. Enhances Diesel Oil Remediation in Synergism with Bacterial Inoculation in Floating Treatment Wetlands. *Sustainability*, **2020**, 12, 2353	3.6	8
286	Silicon is dependent on hydrogen sulphide to improve boron toxicity tolerance in pepper plants by regulating the AsA-GSH cycle and glyoxalase system. *Chemosphere*, **2020**, 257, 127241	8.4	21
285	Melatonin and calcium function synergistically to promote the resilience through ROS metabolism under arsenic-induced stress. *Journal of Hazardous Materials*, **2020**, 398, 122882	12.8	98
284	Salicylic acid-induced nitric oxide enhances arsenic toxicity tolerance in maize plants by upregulating the ascorbate-glutathione cycle and glyoxalase system. *Journal of Hazardous Materials*, **2020**, 399, 123020	12.8	83
283	Jasmonic acid and methyl jasmonate modulate growth, photosynthetic activity and expression of photosystem II subunit genes in Brassica oleracea L. *Scientific Reports*, **2020**, 10, 9322	4.9	25
282	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. *Journal of Plant Growth Regulation*, **2020**, 39, 1587-1604	4.7	30
281	Design of expert guided investigation of native L-asparaginase encapsulated long-acting cross-linker-free poly (lactic-co-glycolic) acid nanoformulation in an Ehrlich ascites tumor model. *Saudi Pharmaceutical Journal*, **2020**, 28, 719-728	4.4	2
280	Micropropagation and Production of Health Promoting Lignans in. *Plants*, **2020**, 9,	4.5	8
279	Rapid colorimetric and spectroscopy based sensing of mercury by surface functionalized silver nanoparticles in the presence of tyrosine. *Optics Communications*, **2020**, 464, 125512	2	16
278	Extraction and purification of an antimicrobial bioactive element from lichen associated Streptomyces olivaceus LEP7 against wound inhabiting microbial pathogens. *Journal of King Saud University - Science*, **2020**, 32, 2009-2015	3.6	5
277	Enhanced production antibiotics using green gram husk medium by Streptomyces sp. SD1 using response surface methodology. *Journal of King Saud University - Science*, **2020**, 32, 2134-2141	3.6	15
276	Citric Acid Assisted Phytoremediation of Chromium through Sunflower Plants Irrigated with Tannery Wastewater. *Plants*, **2020**, 9,	4.5	9
275	Neuroprotective Effects of Dried Tubers of. *Plants*, **2020**, 9,	4.5	2

274	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. *Plants*, **2020**, 9,	4.5	69
273	Integration of silicon and secondary metabolites in plants: a significant association in stress tolerance. *Journal of Experimental Botany*, **2020**, 71, 6758-6774	7	41
272	Covid-19 and thymoquinone: Connecting the dots. *Phytotherapy Research*, **2020**, 34, 2786-2789	6.7	21
271	Exogenously Applied Ascorbic Acid-Mediated Changes in Osmoprotection and Oxidative Defense System Enhanced Water Stress Tolerance in Different Cultivars of Safflower (L.). *Plants*, **2020**, 9,	4.5	52
270	Photocatalytic degradation of an organic dye using Ag doped ZrO2 nanoparticles: Milk powder facilitated eco-friendly synthesis. *Journal of King Saud University - Science*, **2020**, 32, 1872-1878	3.6	27
269	Antioxidant, Antimicrobial, Antidiabetic and Cytotoxic Activity of Crocus sativus L. Petals. *Applied Sciences (Switzerland)*, **2020**, 10, 1519	2.6	8
268	Impact of ethanolic extract of (EA1) on pancreatic carcinoma AsPC-1 cells. *Saudi Journal of Biological Sciences*, **2020**, 27, 1260-1264	4	4
267	Physiological, Biochemical and Reproductive Studies on a Critically Endangered Medicinal Plant of the Himalayan Region Grown under In-Situ and Ex-Situ Conditions. *Plants*, **2020**, 9,	4.5	3
266	L. Extract Containing Polyphenols Modulates Oxidative Stress and Inflammatory Response against Anti-Tuberculosis Drugs-Induced Liver Injury. *Plants*, **2020**, 9,	4.5	10
265	antioxidant, antimutagenic and cancer cell growth inhibition activities of leaves and flowers. *Saudi Journal of Biological Sciences*, **2020**, 27, 1788-1796	4	9
264	Combined Kinetin and Spermidine Treatments Ameliorate Growth and Photosynthetic Inhibition in by Up-Regulating Antioxidant and Nitrogen Metabolism under Cadmium Stress. *Biomolecules*, **2020**, 10,	5.9	40
263	Effect of Leaf Extract on the Antioxidant Defense System against Chromium (VI) Stress in Plants. *Plants*, **2020**, 9,	4.5	9
262	Genetic transformation of gene in a high yielding susceptible cultivar of commercial wheat (L.). *3 Biotech*, **2020**, 10, 197	2.8	1
261	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. *Ecotoxicology and Environmental Safety*, **2020**, 196, 110483	7	43
260	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 (Fragaria ananassa) by up-regulating the ascorbate-glutathione cycle. *Plant Physiology and Biochemistry*, **2020**, 151, 486-499	5.4	20
259	Biological Efficacy of Essential Oils and Plant Extracts of Cultivated and Wild Ecotypes of L. *BioMed Research International*, **2020**, 2020, 8751718	3	13
258	Sulfur-enriched leonardite and humic acid soil amendments enhance tolerance to drought and phosphorus deficiency stress in maize (Zea mays L.). *Scientific Reports*, **2020**, 10, 6432	4.9	44
257	Impact of drought and heat stress individually and in combination on physio-biochemical parameters, antioxidant responses, and gene expression in. *3 Biotech*, **2020**, 10, 208	2.8	65

256	Responses of nitric oxide and hydrogen sulfide in regulating oxidative defence system in wheat plants grown under cadmium stress. *Physiologia Plantarum*, **2020**, 168, 345-360	4.6	61
255	Promoting the accumulation of scopolamine and hyoscyamine in Hyoscyamus niger L. through EMS based mutagenesis. *PLoS ONE*, **2020**, 15, e0231355	3.7	3
254	Impact of different cadmium concentrations on two Pisum sativum L. genotypes. *Pakistan Journal of Botany*, **2020**, 52,	2	5
253	LYSOSOMOTROPIC PROPERTIES OF SODIUM BICARBONATE AND COVID-19. *Farmacia*, **2020**, 68, 771-778	1.7	2
252	Bacterial Augmented Floating Treatment Wetlands for Efficient Treatment of Synthetic Textile Dye Wastewater. *Sustainability*, **2020**, 12, 3731	3.6	21
251	Plant-growth-promoting Bacillus and Paenibacillus species improve the nutritional status of Triticum aestivum L. *PLoS ONE*, **2020**, 15, e0241130	3.7	7
250	Gibberellic acid-induced generation of hydrogen sulfide alleviates boron toxicity in tomato (Solanum lycopersicum L.) plants. *Plant Physiology and Biochemistry*, **2020**, 153, 53-63	5.4	24
249	Seed Priming with Jasmonic Acid Counteracts Root Knot Nematode Infection in Tomato by Modulating the Activity and Expression of Antioxidative Enzymes. *Biomolecules*, **2020**, 10,	5.9	8
248	The role of endogenous nitric oxide in salicylic acid-induced up-regulation of ascorbate-glutathione cycle involved in salinity tolerance of pepper (Capsicum annuum L.) plants. *Plant Physiology and Biochemistry*, **2020**, 147, 10-20	5.4	52
247	Combined effects of brassinosteroid and kinetin mitigates salinity stress in tomato through the modulation of antioxidant and osmolyte metabolism. *Plant Physiology and Biochemistry*, **2020**, 147, 31-42	5.4	61
246	Histochemical and physicochemical studies reveal improved defense in tomato under Cd stress with rhizobacterial supplementation. *Plant and Soil*, **2020**, 446, 393-411	4.2	6
245	Sodium nitroprusside (SNP) improves tolerance to arsenic (As) toxicity in Vicia faba through the modifications of biochemical attributes, antioxidants, ascorbate-glutathione cycle and glyoxalase cycle. *Chemosphere*, **2020**, 244, 125480	8.4	52
244	Extraction, Quantification, and Cytokine Inhibitory Response of Bakuchiol in Psoralea coryfolia Linn.. *Separations*, **2020**, 7, 48	3.1	2
243	Plant growth regulators: a sustainable approach to combat pesticide toxicity. *3 Biotech*, **2020**, 10, 466	2.8	7
242	Interaction of ZnO nanoparticle and AM fungi mitigates Pb toxicity in wheat by upregulating antioxidants and restricted uptake of Pb. *Journal of Biotechnology*, **2020**, 323, 254-263	3.7	15
241	Isolation, purification and characterization of naturally derived Crocetin beta-d-glucosyl ester from L. against breast cancer and its binding chemistry with ER-alpha/HDAC2. *Saudi Journal of Biological Sciences*, **2020**, 27, 975-984	4	17
240	Hydrogen Sulfide (H2S) Mitigates Arsenic (As)-Induced Toxicity in Pea (Pisum sativum L.) Plants by Regulating Osmoregulation, Antioxidant Defense System, Ascorbate Glutathione Cycle and Glyoxalase System. *Journal of Plant Growth Regulation*, **2020**, 1	4.7	15
239	Foliar Application of 24-Epibrassinolide Improves Growth, Ascorbate-Glutathione Cycle, and Glyoxalase System in Brown Mustard ((L.) Czern.) under Cadmium Toxicity. *Plants*, **2020**, 9,	4.5	9

238	Ameliorating the Drought Stress for Wheat Growth through Application of ACC-Deaminase Containing Rhizobacteria along with Biogas Slurry. *Sustainability*, **2020**, 12, 6022	3.6	23
237	Low Doses of Extract Act as Natural Biostimulants to Improve the Germination Vigor, Growth, and Grain Yield of Wheat Grown under Water Stress: Photosynthetic Pigments, Antioxidative Defense Mechanisms, and Nutrient Acquisition. *Biomolecules*, **2020**, 10,	5.9	7
236	Insights into the Role of as the Plant Growth Promoter, Photosynthetic Pigment Enhancer and Biocontrol Agent against in Seedlings. *Plants*, **2020**, 9,	4.5	9
235	Multivariate Statistical Approach to Study Spatiotemporal Variations in Water Quality of aHimalayan Urban Fresh Water Lake. *Water (Switzerland)*, **2020**, 12, 2365	3	6
234	Box-Behnken Response Surface Design of Polysaccharide Extraction from and the Evaluation of Its Antioxidant Potential. *Molecules*, **2020**, 25,	4.8	14
233	Exogenously supplied silicon (Si) improves cadmium tolerance in pepper (Capsicum annuum L.) by up-regulating the synthesis of nitric oxide and hydrogen sulfide. *Journal of Biotechnology*, **2020**, 316, 35-45	3.7	46
232	Fertilizer adaptive bacteria Acidovorax valerianellae and Sinorhizobium fredii in integrated nutrient management of pigeon pea (Cajanus cajan L.). *South African Journal of Botany*, **2020**, 134, 84-90	2.9	2
231	Copper Uptake and Accumulation, Ultra-Structural Alteration, and Bast Fibre Yield and Quality of Fibrous Jute (L.) Plants Grown Under Two Different Soils of China. *Plants*, **2020**, 9,	4.5	34
230	Role of plant growth promoting Bacteria (PGPRs) as biocontrol agents of Meloidogyne incognita through improved plant defense of Lycopersicon esculentum. *Plant and Soil*, **2019**, 436, 325-345	4.2	32
229	The putative role of endogenous nitric oxide in brassinosteroid-induced antioxidant defence system in pepper (Capsicum annuum L.) plants under water stress. *Plant Physiology and Biochemistry*, **2019**, 143, 119-128	5.4	50
228	Alpha-tocopherol fertigation confers growth physio-biochemical and qualitative yield enhancement in field grown water deficit wheat (Triticum aestivum L.). *Scientific Reports*, **2019**, 9, 12924	4.9	25
227	Role of mineral nutrition in alleviation of heat stress in cotton plants grown in glasshouse and field conditions. *Scientific Reports*, **2019**, 9, 13022	4.9	27
226	Spermine application alleviates salinity induced growth and photosynthetic inhibition in Solanum lycopersicum by modulating osmolyte and secondary metabolite accumulation and differentially regulating antioxidant metabolism. *Plant Physiology and Biochemistry*, **2019**, 144, 1-13	5.4	45
225	Jasmonic acid application triggers detoxification of lead (Pb) toxicity in tomato through the modifications of secondary metabolites and gene expression. *Chemosphere*, **2019**, 235, 734-748	8.4	48
224	Supplementation with plant growth promoting rhizobacteria (PGPR) alleviates cadmium toxicity in Solanum lycopersicum by modulating the expression of secondary metabolites. *Chemosphere*, **2019**, 230, 628-639	8.4	59
223	Silicon nanoparticles enhanced the growth and reduced the cadmium accumulation in grains of wheat (Triticum aestivum L.). *Plant Physiology and Biochemistry*, **2019**, 140, 1-8	5.4	95
222	Climatic Change and Metabolome Fluxes **2019**, 179-237		
221	Melatonin-mediated nitric oxide improves tolerance to cadmium toxicity by reducing oxidative stress in wheat plants. *Chemosphere*, **2019**, 225, 627-638	8.4	134

220	Role of P-type ATPase metal transporters and plant immunity induced by jasmonic acid against Lead (Pb) toxicity in tomato. *Ecotoxicology and Environmental Safety*, **2019**, 174, 283-294	7	35
219	Analysis of genetic control and QTL mapping of essential wheat grain quality traits in a recombinant inbred population. *PLoS ONE*, **2019**, 14, e0200669	3.7	34
218	Alpha-Tocopherol-Induced Regulation of Growth and Metabolism in Plants Under Non-stress and Stress Conditions. *Journal of Plant Growth Regulation*, **2019**, 38, 1325-1340	4.7	33
217	Silicon Alleviates Nickel-Induced Oxidative Stress by Regulating Antioxidant Defense and Glyoxalase Systems in Mustard Plants. *Journal of Plant Growth Regulation*, **2019**, 38, 1260-1273	4.7	32
216	Variability in Catechin and Rutin Contents and Their Antioxidant Potential in Diverse Apple Genotypes. *Molecules*, **2019**, 24,	4.8	9
215	In-situ localization and biochemical analysis of bio-molecules reveals Pb-stress amelioration in Brassica juncea L. by co-application of 24-Epibrassinolide and Salicylic Acid. *Scientific Reports*, **2019**, 9, 3524	4.9	23
214	Metabolomics Studies of Stress in Plants **2019**, 127-178		1
213	Role of Mineral Nutrients in Abiotic Stress Tolerance **2019**, 269-285		6
212	Combined use of biochar and zinc oxide nanoparticle foliar spray improved the plant growth and decreased the cadmium accumulation in rice (Oryza sativa L.) plant. *Environmental Science and Pollution Research*, **2019**, 26, 11288-11299	5.1	92
211	Revisiting the role of ROS and RNS in plants under changing environment. *Environmental and Experimental Botany*, **2019**, 161, 1-3	5.9	73
210	Zinc-lysine prevents chromium-induced morphological, photosynthetic, and oxidative alterations in spinach irrigated with tannery wastewater. *Environmental Science and Pollution Research*, **2019**, 26, 28951-28961	5.1	20
209	Oxidative stress mitigation and initiation of antioxidant and osmoprotectant responses mediated by ascorbic acid in Brassica juncea L. subjected to copper (II) stress. *Ecotoxicology and Environmental Safety*, **2019**, 182, 109436	7	21
208	Cold Stress and Photosynthesis **2019**, 27-37		12
207	High-Temperature Stress and Photosynthesis Under Pathological Impact **2019**, 39-64		
206	Regulation of Photosynthesis Under Metal Stress **2019**, 95-105		4
205	Heavy Metals and Photosynthesis: Recent Developments **2019**, 107-134		12
204	Toward Understanding the Regulation of Photosynthesis under Abiotic Stresses: Recent Developments **2019**, 135-162		1
203	Current Understanding of the Regulatory Roles of miRNAs for Enhancing Photosynthesis in Plants Under Environmental Stresses **2019**, 163-195		

202	Microbial Fortification Improved Photosynthetic Efficiency and Secondary Metabolism in Plants Under Cd Stress. *Biomolecules*, **2019**, 9,	5.9	13
201	Impact of Plant Growth Promoting Rhizobacteria in the Orchestration of Mill. Resistance to Plant Parasitic Nematodes: A Metabolomic Approach to Evaluate Defense Responses Under Field Conditions. *Biomolecules*, **2019**, 9,	5.9	24
200	Evaluation of the role of Rhizobacteria in controlling root knot nematode (RKN) infection in Lycopersicon esculentum plants by modulation in the secondary metabolite profiles. *AoB PLANTS*, **2019**,	2.9	8
199	24-Epibrassinolide (EBR) Confers Tolerance against NaCl Stress in Soybean Plants by Up-Regulating Antioxidant System, Ascorbate-Glutathione Cycle, and Glyoxalase System. *Biomolecules*, **2019**, 9,	5.9	67
198	Physiological, biochemical, and antioxidant properties of two genotypes of Vicia faba grown under salinity stress. *Pakistan Journal of Botany*, **2019**, 51,	2	18
197	Influence of Exogenous Salicylic Acid and Nitric Oxide on Growth, Photosynthesis, and Ascorbate-Glutathione Cycle in Salt Stressed. *Biomolecules*, **2019**, 10,	5.9	100
196	Effect of foliar applications of silicon and titanium dioxide nanoparticles on growth, oxidative stress, and cadmium accumulation by rice (Oryza sativa). *Acta Physiologiae Plantarum*, **2019**, 41, 1	2.6	72
195	Assessment of Subcellular ROS and NO Metabolism in Higher Plants: Multifunctional Signaling Molecules. *Antioxidants*, **2019**, 8,	7.1	164
194	Citric Acid Enhances Plant Growth, Photosynthesis, and Phytoextraction of Lead by Alleviating the Oxidative Stress in Castor Beans. *Plants*, **2019**, 8,	4.5	32
193	Fly-Ash Pollution Modulates Growth, Biochemical Attributes, Antioxidant Activity and Gene Expression in (Roxb) Benth. *Plants*, **2019**, 8,	4.5	8
192	Improved Drought Tolerance by AMF Inoculation in Maize () Involves Physiological and Biochemical Implications. *Plants*, **2019**, 8,	4.5	79
191	Seed Pretreatment and Foliar Application of Proline Regulate Morphological, Physio-Biochemical Processes and Activity of Antioxidant Enzymes in Plants of Two Cultivars of Quinoa (Willd.). *Plants*, **2019**, 8,	4.5	8
190	Alleviative role of exogenously applied mannitol in maize cultivars differing in chromium stress tolerance. *Environmental Science and Pollution Research*, **2019**, 26, 5111-5121	5.1	24
189	Selenium modulates dynamics of antioxidative defence expression, photosynthetic attributes and secondary metabolites to mitigate chromium toxicity in Brassica juncea L. plants. *Environmental and Experimental Botany*, **2019**, 161, 180-192	5.9	91
188	Cd induced generation of free radical species in Brassica juncea is regulated by supplementation of earthworms in the drilosphere. *Science of the Total Environment*, **2019**, 655, 663-675	10.2	17
187	Plant growth promoting rhizobacteria induced Cd tolerance in Lycopersicon esculentum through altered antioxidative defense expression. *Chemosphere*, **2019**, 217, 463-474	8.4	55
186	Roles of potential plant hormones and transcription factors in controlling leaf senescence and drought tolerance. *Protoplasma*, **2019**, 256, 313-329	3.4	57
185	Silicon (Si) Supplementation Alleviates NaCl Toxicity in Mung Bean [Vigna radiata (L.) Wilczek] Through the Modifications of Physio-biochemical Attributes and Key Antioxidant Enzymes. *Journal of Plant Growth Regulation*, **2019**, 38, 70-82	4.7	114

184	Salicylic Acid (SA) Induced Alterations in Growth, Biochemical Attributes and Antioxidant Enzyme Activity in Faba Bean (Vicia faba L.) Seedlings under NaCl Toxicity. *Russian Journal of Plant Physiology*, **2018**, 65, 104-114	1.6	43
183	Upregulation of antioxidant and glyoxalase systems mitigates NaCl stress in Brassica juncea by supplementation of zinc and calcium. *Journal of Plant Interactions*, **2018**, 13, 151-162	3.8	26
182	Predisposition of Crop Plants to Stress Is Directly Related to Their DNA Health. *Microorganisms for Sustainability*, **2018**, 233-254	1.1	3
181	Jasmonic acid ameliorates alkaline stress by improving growth performance, ascorbate glutathione cycle and glyoxylase system in maize seedlings. *Scientific Reports*, **2018**, 8, 2831	4.9	56
180	Protective role of selenium against chromium stress involving metabolites and essential elements in L. seedlings. *3 Biotech*, **2018**, 8, 66	2.8	34
179	Mitigation of sodium chloride toxicity in Solanum lycopersicum L. by supplementation of jasmonic acid and nitric oxide. *Journal of Plant Interactions*, **2018**, 13, 64-72	3.8	86
178	Interaction of 24-epibrassinolide and salicylic acid regulates pigment contents, antioxidative defense responses, and gene expression in Brassica juncea L. seedlings under Pb stress. *Environmental Science and Pollution Research*, **2018**, 25, 15159-15173	5.1	66
177	An analysis of climatic and human induced determinants of agricultural land use changes in Shupiyan area of Jammu and Kashmir state, India. *Geo Journal*, **2018**, 83, 49-60	2.2	13
176	Exogenous application of nitric oxide modulates osmolyte metabolism, antioxidants, enzymes of ascorbate-glutathione cycle and promotes growth under cadmium stress in tomato. *Protoplasma*, **2018**, 255, 79-93	3.4	118
175	Ameliorative Role of Castasterone on Copper Metal Toxicity by Improving Redox Homeostasis in Brassica juncea L.. *Journal of Plant Growth Regulation*, **2018**, 37, 575-590	4.7	12
174	Jasmonic acid-induced tolerance to root-knot nematodes in tomato plants through altered photosynthetic and antioxidative defense mechanisms. *Protoplasma*, **2018**, 255, 471-484	3.4	25
173	Selenium mitigates cadmium-induced oxidative stress in tomato (Solanum lycopersicum L.) plants by modulating chlorophyll fluorescence, osmolyte accumulation, and antioxidant system. *Protoplasma*, **2018**, 255, 459-469	3.4	100
172	Divergence in tissue-specific expression patterns of genes associated with the terpeniod biosynthesis in two oregano species Origanum vulgare L., and Origanum majorana. *Industrial Crops and Products*, **2018**, 123, 546-555	5.9	6
171	Jasmonic acid induced changes in physio-biochemical attributes and ascorbate-glutathione pathway in Lycopersicon esculentum under lead stress at different growth stages. *Science of the Total Environment*, **2018**, 645, 1344-1360	10.2	41
170	Interactive Effects of Nutrients and on the Growth and Root Architecture of Soybean (L.). *Frontiers in Microbiology*, **2018**, 9, 1000	5.7	38
169	Melatonin Alleviates High Temperature-Induced Pollen Abortion in Solanum lycopersicum. *Molecules*, **2018**, 23,	4.8	46
168	Interactive effect of 24-epibrassinolide and silicon alleviates cadmium stress via the modulation of antioxidant defense and glyoxalase systems and macronutrient content in Pisum sativum L. seedlings. *BMC Plant Biology*, **2018**, 18, 146	5.3	100
167	Selenium ameliorates chromium toxicity through modifications in pigment system, antioxidative capacity, osmotic system, and metal chelators in Brassica juncea seedlings. *South African Journal of Botany*, **2018**, 119, 1-10	2.9	40

166	28-homobrassinolide regulates antioxidant enzyme activities and gene expression in response to salt- and temperature-induced oxidative stress in Brassica juncea. *Scientific Reports*, **2018**, 8, 8735	4.9	74
165	Environmental Stresses and Metabolomics—Deciphering the Role of Stress Responsive Metabolites **2018**, 53-67		9
164	Silicon-Mediated Alleviation of Stresses in Plants **2018**, 377-387		5
163	Combined effect of 24-epibrassinolide and salicylic acid mitigates lead (Pb) toxicity by modulating various metabolites in Brassica juncea L. seedlings. *Protoplasma*, **2018**, 255, 11-24	3.4	74
162	Modification of Osmolytes and Antioxidant Enzymes by 24-Epibrassinolide in Chickpea Seedlings Under Mercury (Hg) Toxicity. *Journal of Plant Growth Regulation*, **2018**, 37, 309-322	4.7	52
161	Castasterone and Citric Acid Supplementation Alleviates Cadmium Toxicity by Modifying Antioxidants and Organic Acids in Brassica juncea. *Journal of Plant Growth Regulation*, **2018**, 37, 286-299	4.7	32
160	Exogenously applied growth regulators protect the cotton crop from heat-induced injury by modulating plant defense mechanism. *Scientific Reports*, **2018**, 8, 17086	4.9	33
159	Brassinosteroids Regulate Growth in Plants Under Stressful Environments and Crosstalk with Other Potential Phytohormones. *Journal of Plant Growth Regulation*, **2018**, 37, 1007-1024	4.7	65
158	Exogenous application of calcium to 24-epibrassinosteroid pre-treated tomato seedlings mitigates NaCl toxicity by modifying ascorbate-glutathione cycle and secondary metabolites. *Scientific Reports*, **2018**, 8, 13515	4.9	70
157	Effect of environmental variables on phytonutrients of Origanum vulgare L. in the sub-humid region of the northwestern Himalayas. *Environmental Monitoring and Assessment*, **2018**, 190, 571	3.1	3
156	Potential of exogenously sourced kinetin in protecting Solanum lycopersicum from NaCl-induced oxidative stress through up-regulation of the antioxidant system, ascorbate-glutathione cycle and glyoxalase system. *PLoS ONE*, **2018**, 13, e0202175	3.7	107
155	Antioxidant and Antimutagenic Activities of Different Fractions from the Leaves of Sm. and Their GC-MS Profiling. *Molecules*, **2018**, 23,	4.8	9
154	Jasmonic Acid Improves Growth Performance of Soybean Under Nickel Toxicity By Regulating Nickel Uptake, Redox Balance, and Oxidative Stress Metabolism. *Journal of Plant Growth Regulation* , **2018**, 37, 1195-1209	4.7	30
153	Soybean **2017**, 102-122		
152	Oilseed crops **2017**, 1-18		2
151	Brassicaceae plants **2017**, 207-223		2
150	Seed composition in oil crops **2017**, 34-51		1
149	Role of organic and inorganic amendments in alleviating heavy metal stress in oilseed crops **2017**, 224-235		24

148	Biochemical and molecular responses of oilseed crops to heavy metal stress **2017**, 236-248		5
147	Sunflower resistance to the vampire weed broomrape **2017**, 123-151		
146	Role of phytohormones in improving the yield of oilseed crops **2017**, 165-183		4
145	Jasmonic acid alleviates negative impacts of cadmium stress by modifying osmolytes and antioxidants in faba bean (Vicia faba L.). *Archives of Agronomy and Soil Science*, **2017**, 63, 1889-1899	2	74
144	Plant□icrobe interaction in oilseed crops **2017**, 184-206		1
143	Appraisal of biophysical parameters in Indian mustard (Brassica juncea) using thermal indices **2017**, 264-285		
142	Oilseed crops and biodiesel production **2017**, 52-79		1
141	Biochemical and molecular studies on the commercial oil-yielding desert shrub Simmondsia chinensis (jojoba, a desert gold) **2017**, 152-164		3
140	Efficient regeneration and improved sonication-assisted Agrobacterium transformation (SAAT) method for Catharanthus roseus. *3 Biotech*, **2017**, 7, 26	2.8	8
139	Signal transduction and biotechnology in response to environmental stresses. *Biologia Plantarum*, **2017**, 61, 401-416	2.1	13
138	Castor bean (Ricinus communis L.) **2017**, 19-33		3
137	The role of oilseed crops in human diet and industrial use **2017**, 249-263		6
136	Vegetable oil yield and composition influenced by environmental stress factors **2017**, 80-101		1
135	Differential distribution of amino acids in plants. *Amino Acids*, **2017**, 49, 821-869	3.5	45
134	Sino-Pakistan Friendship, Changing South Asian Geopolitics and India□ Post-Obama Options. *South Asia Research*, **2017**, 37, 133-146	0.4	5
133	Plant responses to environmental stresses-from gene to biotechnology. *AoB PLANTS*, **2017**, 9, plx025	2.9	83
132	Zinc application mitigates the adverse effects of NaCl stress on mustard [Brassica juncea (L.) Czern & Coss] through modulating compatible organic solutes, antioxidant enzymes, and flavonoid content. *Journal of Plant Interactions*, **2017**, 12, 429-437	3.8	32
131	Antimicrobial Activity of Medicinal Plants Correlates with the Proportion of Antagonistic Endophytes. *Frontiers in Microbiology*, **2017**, 8, 199	5.7	76

130	Plant aquaporin biotechnology **2016**, 150-164	1
129	Stomatal responses to drought stress **2016**, 24-40	54
128	Salinity and drought stress **2016**, 86-101	10
127	Water stress and vegetable crops **2016**, 393-411	4
126	Silicon as a beneficial element to combat the adverse effect of drought in agricultural crops **2016**, 682-694	21
125	Water stress and higher plants **2016**, 422-451	2
124	Foliar application of trace elements in alleviating drought stress **2016**, 669-681	3
123	Brassinosteroids and drought tolerance in plants **2016**, 600-607	3
122	Water stress **2016**, 343-355	2
121	Analysis of novel haplotype variation at TaDREB-D1 and TaCwi-D1 genes influencing drought tolerance in bread/synthetic wheat derivatives **2016**, 206-226	2
120	Recurrent droughts **2016**, 41-57	1
119	MYB transcription factors for enhanced drought tolerance in plants **2016**, 194-205	1
118	The role of crassulacean acid metabolism induction in plant adaptation to water deficit **2016**, 12-23	2
117	Sugar signalling in plants **2016**, 287-302	9
116	Global explicit profiling of water deficit-induced diminutions in agricultural crop sustainability **2016** , 58-74	1
115	Sustainable agricultural practices for water quality protection **2016**, 75-85	4
114	Water stress in plants **2016**, 142-149	1
113	Hormonal regulation of drought stress in plants **2016**, 582-599	6

112	Drought stress and photosynthesis in plants **2016**, 1-11		8
111	Role of proteins in alleviating drought stress in plants **2016**, 165-176		3
110	Avenues for improving drought tolerance in crops by ABA regulation **2016**, 177-193		2
109	miRNA/siRNA-based approaches to enhance drought tolerance of barley and wheat under drought stress **2016**, 248-260		2
108	MicroRNAs and their role in drought stress response in plants **2016**, 261-286		
107	Water stress tolerance in maize **2016**, 468-483		
106	Wheat **2016**, 506-542		
105	Breeding crop plants for drought tolerance **2016**, 543-557		2
104	The interaction of drought and nutrient stress in wheat **2016**, 695-710		2
103	Oxidative stress and plant responses to pathogens under drought conditions **2016**, 102-123		9
102	Potential usage of antioxidants, hormones and plant extracts **2016**, 124-141		1
101	Polyamines and brassinosteroids in drought stress responses and tolerance in plants **2016**, 608-627		7
100	Microclimatic variation in UV perception and related disparity in tropane and quinolizidine alkaloid composition of Atropa acuminata, Lupinus polyphyllus and Hyoscyamus niger. *Journal of Photochemistry and Photobiology B: Biology*, **2016**, 161, 230-5	6.7	8
99	Heavy Metal Stress: Plant Responses and Signaling **2016**, 557-583		11
98	Exogenous Application of Selenium Mitigates Cadmium Toxicity in Brassica juncea L. (Czern & Cross) by Up-Regulating Antioxidative System and Secondary Metabolites. *Journal of Plant Growth Regulation*, **2016**, 35, 936-950	4.7	100
97	Current Perspectives on Plant Growth-Promoting Rhizobacteria. *Journal of Plant Growth Regulation* , **2016**, 35, 877-902	4.7	101
96	Phytoextraction **2016**, 385-409		24
95	Effect of Lead on Plant and Human DNA Damages and Its Impact on the Environment **2016**, 41-67		10

94	Microbially derived phytohormones in plant adaptation against abiotic stress **2016**, 234-249		
93	Aluminum Toxicity in Plants **2016**, 1-20		9
92	Phytoremediation of Saline Soils for Sustainable Agricultural Productivity **2016**, 455-468		12
91	Influence of High and Low Levels of Plant-Beneficial Heavy Metal Ions on Plant Growth and Development. *Frontiers in Environmental Science*, **2016**, 4,	4.8	105
90	Enhancing Nutritional Contents of Using Residual Biogas Slurry Waste of Detoxified Mahua Cake Mixed with Wheat Straw. *Frontiers in Microbiology*, **2016**, 7, 1529	5.7	9
89	Genetic Strategies for Advancing Phytoremediation Potential in Plants: A Recent Update **2016**, 431-454		9
88	Nitric Oxide Mitigates Salt Stress by Regulating Levels of Osmolytes and Antioxidant Enzymes in Chickpea. *Frontiers in Plant Science*, **2016**, 7, 347	6.2	304
87	Calcium and Potassium Supplementation Enhanced Growth, Osmolyte Secondary Metabolite Production, and Enzymatic Antioxidant Machinery in Cadmium-Exposed Chickpea (Cicer arietinum L.). *Frontiers in Plant Science*, **2016**, 7, 513	6.2	128
86	Jasmonic Acid Modulates the Physio-Biochemical Attributes, Antioxidant Enzyme Activity, and Gene Expression in Glycine max under Nickel Toxicity. *Frontiers in Plant Science*, **2016**, 7, 591	6.2	119
85	Jasmonates: Multifunctional Roles in Stress Tolerance. *Frontiers in Plant Science*, **2016**, 7, 813	6.2	214
84	Mitigation of NaCl Stress by Arbuscular Mycorrhizal Fungi through the Modulation of Osmolytes, Antioxidants and Secondary Metabolites in Mustard (Brassica juncea L.) Plants. *Frontiers in Plant Science*, **2016**, 7, 869	6.2	34
83	Role of Proteomics in Crop Stress Tolerance. *Frontiers in Plant Science*, **2016**, 7, 1336	6.2	40
82	Pre-sowing Seed Treatment with 24-Epibrassinolide Ameliorates Pesticide Stress in L. through the Modulation of Stress Markers. *Frontiers in Plant Science*, **2016**, 7, 1569	6.2	75
81	Flooding stress and O2 -shortage in plants **2016**, 711-731		2
80	Arbuscular mycorrhizal symbiosis and abiotic stress in plants: A review **2016**, 59, 407-426		123
79	Drought stress effect on woody tree yield **2016**, 356-374		4
78	Drought stress effects on crop quality **2016**, 375-392		15
77	Water stress in grapevine (Vitis vinifera L.) **2016**, 412-421		

76	Drought stress and morphophysiological responses in plants **2016**, 452-467		3
75	Methods used for the improvement of crop productivity under water stress **2016**, 484-505		3
74	Plant growth under drought stress **2016**, 649-668		43
73	Toward integration of a systems-based approach for understanding drought stress in plants **2016**, 227-247		4
72	Mycorrhizal symbiosis **2016**, 558-581		
71	Agricultural, socioeconomic, and cultural relevance of crop wild relatives, in particular, food legume landraces, in Northern Africa **2016**, 303-342		
70	Synergistic interactions among root-associated bacteria, rhizobia and chickpea under stress conditions **2016**, 250-262		6
69	Plant transcriptomics and responses to environmental stress: an overview. *Journal of Genetics*, **2015**, 94, 525-37	1.2	28
68	Achieving crop stress tolerance and improvement--an overview of genomic techniques. *Applied Biochemistry and Biotechnology*, **2015**, 177, 1395-408	3.2	5
67	Current developments in arbuscular mycorrhizal fungi research and its role in salinity stress alleviation: a biotechnological perspective. *Critical Reviews in Biotechnology*, **2015**, 35, 461-74	9.4	64
66	Feasibility of radiation technology for wastewater treatment. *Desalination and Water Treatment*, **2015**, 55, 2053-2068		11
65	Salt stress and leguminous crops **2015**, 21-51		
64	Biotechnological applications to improve salinity stress in wheat **2015**, 1-27		
63	Soybean under abiotic stress **2015**, 28-42		5
62	Physiological mechanisms of salt stress tolerance in plants **2015**, 141-160		13
61	Omics approaches and abiotic stress tolerance in legumes **2015**, 215-230		1
60	Legume-rhizobia symbiotic performance under abiotic stresses **2015**, 125-131		5
59	Exogenous application of phytoprotectants in legumes against environmental stress **2015**, 161-197		4

58	Legumes and breeding under abiotic stress **2015**, 1-20		2
57	Genetic and molecular responses of legumes in a changing environment **2015**, 199-214		
56	Nutrient deficiencies under stress in legumes **2015**, 53-65		3
55	Chickpea **2015**, 67-79		7
54	Role of Trichoderma harzianum in mitigating NaCl stress in Indian mustard (Brassica juncea L) through antioxidative defense system. *Frontiers in Plant Science*, **2015**, 6, 868	6.2	199
53	Medicinal plants under abiotic stress **2015**, 300-310		1
52	Alleviation of cadmium toxicity in Brassica juncea L. (Czern. & Coss.) by calcium application involves various physiological and biochemical strategies. *PLoS ONE*, **2015**, 10, e0114571	3.7	175
51	Analysis of physiobiochemical attributes, some key antioxidants and esculin content through HPLC in in vitro grown Cichorium intybus L. treated with ethylmethane sulfonate. *Plant Growth Regulation*, **2015**, 76, 233-241	3.2	7
50	Plant exomics: concepts, applications and methodologies in crop improvement. *Plant Signaling and Behavior*, **2015**, 10, e976152	2.5	11
49	Plant Resistance under Cold Stress **2014**, 79-98		1
48	Drought Tolerance: Role of Organic Osmolytes, Growth Regulators, and Mineral Nutrients **2014**, 25-55		60
47	Drought Stress Induced Oxidative Damage and Antioxidants in Plants **2014**, 345-367		21
46	Potassium starvation-induced oxidative stress and antioxidant defense responses in Brassica juncea. *Journal of Plant Interactions*, **2014**, 9, 1-9	3.8	46
45	Arbuscular Mycorrhiza in Crop Improvement under Environmental Stress **2014**, 69-95		34
44	Brassicas: Responses and Tolerance to Heavy Metal Stress **2014**, 1-36		1
43	The Use of Chlorophyll Fluorescence Kinetics Analysis to Study the Performance of Photosynthetic Machinery in Plants **2014**, 347-384		20
42	Effect of sodium carbonate-induced salinity–alkalinity on some key osmoprotectants, protein profile, antioxidant enzymes, and lipid peroxidation in two mulberry (Morus alba L.) cultivars. *Journal of Plant Interactions*, **2014**, 9, 460-467	3.8	58
41	Plant secretomics: identification, isolation, and biological significance under environmental stress. *Plant Signaling and Behavior*, **2014**, 9, e29426	2.5	21

40	Catalase **2014**, 131-148		28
39	Glutathione Metabolism in Plants under Environmental Stress **2014**, 183-200		11
38	Salinity Stress and Arbuscular Mycorrhizal Symbiosis in Plants **2014**, 139-159		51
37	Role of AM Fungi in Alleviating Drought Stress in Plants **2014**, 55-75		10
36	Modulation of plant growth and metabolism in cadmium-enriched environments. *Reviews of Environmental Contamination and Toxicology*, **2014**, 229, 51-88	3.5	27
35	Biochemical and Molecular Approaches for Drought Tolerance in Plants **2014**, 1-29		4
34	Changes in growth, lipid peroxidation and some key antioxidant enzymes in chickpea genotypes under salt stress. *Acta Physiologiae Plantarum*, **2013**, 35, 1039-1050	2.6	203
33	Phytohormones and microRNAs as sensors and regulators of leaf senescence: assigning macro roles to small molecules. *Biotechnology Advances*, **2013**, 31, 1153-71	17.8	69
32	Genetic Approaches to Improve Salinity Tolerance in Plants **2013**, 63-78		1
31	Enhancing Plant Productivity Under Salt Stress: Relevance of Poly-omics **2013**, 113-156		44
30	Plant Tissue Culture: A Useful Measure for the Screening of Salt Tolerance in Plants **2013**, 465-495		1
29	Salt Stress: Causes, Types and Responses of Plants **2013**, 1-24		40
28	Salt Tolerance in Rice: Present Scenario and Future Prospects **2013**, 203-211		0
27	Ca(2+) signals: the versatile decoders of environmental cues. *Critical Reviews in Biotechnology*, **2013** , 33, 97-109	9.4	52
26	Recent Advances of Metabolomics to Reveal Plant Response During Salt Stress **2013**, 1-14		12
25	Crop Improvement Through Plant Tissue Culture **2013**, 123-148		2
24	Role of transgenic plants in agriculture and biopharming. *Biotechnology Advances*, **2012**, 30, 524-40	17.8	168
23	Polyamines: Role in Plants Under Abiotic Stress **2012**, 491-512		19

22	Abiotic Stress Responses in Plants: An Overview **2012**, 1-28		50
21	Role of Glutathione Reductase in Plant Abiotic Stress **2012**, 149-158		46
20	Relevance of proteomic investigations in plant abiotic stress physiology. *OMICS A Journal of Integrative Biology*, **2012**, 16, 621-35	3.8	43
19	Proteomic Markers for Oxidative Stress: New Tools for Reactive Oxygen Species and Photosynthesis Research **2012**, 181-196		4
18	Plant Signaling Under Abiotic Stress Environment **2012**, 297-323		24
17	Salt-induced changes in photosynthetic activity and oxidative defense system of three cultivars of mustard (Brassica juncea L.). *African Journal of Biotechnology*, **2012**, 11,	0.6	15
16	Biochemical Modifications and Enhancement of Psoralen Content in Salt-Stressed Seedlings ofPsoralea corylifoliaLinn.. *Journal of Functional and Environmental Botany*, **2012**, 2, 65	0	18
15	Biotechnology as an Aid for Crop Improvement to Overcome Food Shortage **2012**, 239-261		4
14	Deciphering the protective role of nitric oxide against salt stress at the physiological and proteomic levels in maize. *Journal of Proteome Research*, **2011**, 10, 4349-64	5.6	84
13	Proteomic profiling and redox status alteration of recalcitrant tea (Camellia sinensis) seed in response to desiccation. *Planta*, **2011**, 233, 583-92	4.7	48
12	Roles of enzymatic and nonenzymatic antioxidants in plants during abiotic stress. *Critical Reviews in Biotechnology*, **2010**, 30, 161-75	9.4	665
11	Growth and antioxidant responses in mustard (Brassica juncea L.) plants subjected to combined effect of gibberellic acid and salinity. *Archives of Agronomy and Soil Science*, **2010**, 56, 575-588	2	108
10	Mechanism of Free Radical Scavenging and Role of Phytohormones in Plants Under Abiotic Stresses **2010**, 99-118		33
9	Cadmium and lead-induced changes in lipid peroxidation, antioxidative enzymes and metal accumulation in Brassica juncea L. at three different growth stages. *Archives of Agronomy and Soil Science*, **2009**, 55, 395-405	2	31
8	Genotoxic stress in plants: shedding light on DNA damage, repair and DNA repair helicases. *Mutation Research - Reviews in Mutation Research*, **2009**, 681, 134-149	7	148
7	Reactive oxygen species, antioxidants and signaling in plants **2008**, 51, 167-173		326
6	Antioxidative response of Lemna polyrrhiza L. to cadmium stress. *Journal of Environmental Biology*, **2007**, 28, 583-9	1.6	19
5	Effect of salt stress on growth and biochemical parameters of Pisum sativum L.. *Archives of Agronomy and Soil Science*, **2005**, 51, 665-672	2	58

4	Proteomic analysis of food crops under abiotic stresses in the context of climate change43-69		
3	Salicylic Acid-Mediated Regulation of Morpho-Physiological and Yield Attributes of Wheat and Barley Plants in Deferring Salinity Stress. *Journal of Plant Growth Regulation*,1	4.7	2
2	Unsnarling Plausible Role of Plant Growth-Promoting Rhizobacteria for Mitigating Cd-Toxicity from Plants: An Environmental Safety Aspect. *Journal of Plant Growth Regulation*,1	4.7	1
1	Pretreatment with 24-Epibrassinolide Synergistically Protects Root Structures and Chloroplastic Pigments and Upregulates Antioxidant Enzymes and Biomass in Na+-Stressed Tomato Plants. *Journal of Plant Growth Regulation*,1	4.7	3