

Parvaiz Ahmad

List of Publications by Citations

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

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	Roles of enzymatic and nonenzymatic antioxidants in plants during abiotic stress. <i>Critical Reviews in Biotechnology</i> , 2010 , 30, 161-75	9.4	665
380	Reactive oxygen species, antioxidants and signaling in plants 2008 , 51, 167-173		326
379	Nitric Oxide Mitigates Salt Stress by Regulating Levels of Osmolytes and Antioxidant Enzymes in Chickpea. <i>Frontiers in Plant Science</i> , 2016 , 7, 347	6.2	304
378	Jasmonates: Multifunctional Roles in Stress Tolerance. <i>Frontiers in Plant Science</i> , 2016 , 7, 813	6.2	214
377	Changes in growth, lipid peroxidation and some key antioxidant enzymes in chickpea genotypes under salt stress. <i>Acta Physiologiae Plantarum</i> , 2013 , 35, 1039-1050	2.6	203
376	Role of <i>Trichoderma harzianum</i> in mitigating NaCl stress in Indian mustard (<i>Brassica juncea</i> L) through antioxidative defense system. <i>Frontiers in Plant Science</i> , 2015 , 6, 868	6.2	199
375	Alleviation of cadmium toxicity in <i>Brassica juncea</i> L. (Czern. & Coss.) by calcium application involves various physiological and biochemical strategies. <i>PLoS ONE</i> , 2015 , 10, e0114571	3.7	175
374	Role of transgenic plants in agriculture and biopharming. <i>Biotechnology Advances</i> , 2012 , 30, 524-40	17.8	168
373	Assessment of Subcellular ROS and NO Metabolism in Higher Plants: Multifunctional Signaling Molecules. <i>Antioxidants</i> , 2019 , 8,	7.1	164
372	Genotoxic stress in plants: shedding light on DNA damage, repair and DNA repair helicases. <i>Mutation Research - Reviews in Mutation Research</i> , 2009 , 681, 134-149	7	148
371	Melatonin-mediated nitric oxide improves tolerance to cadmium toxicity by reducing oxidative stress in wheat plants. <i>Chemosphere</i> , 2019 , 225, 627-638	8.4	134
370	Calcium and Potassium Supplementation Enhanced Growth, Osmolyte Secondary Metabolite Production, and Enzymatic Antioxidant Machinery in Cadmium-Exposed Chickpea (<i>Cicer arietinum</i> L.). <i>Frontiers in Plant Science</i> , 2016 , 7, 513	6.2	128
369	Arbuscular mycorrhizal symbiosis and abiotic stress in plants: A review 2016 , 59, 407-426		123
368	Jasmonic Acid Modulates the Physio-Biochemical Attributes, Antioxidant Enzyme Activity, and Gene Expression in <i>Glycine max</i> under Nickel Toxicity. <i>Frontiers in Plant Science</i> , 2016 , 7, 591	6.2	119
367	Exogenous application of nitric oxide modulates osmolyte metabolism, antioxidants, enzymes of ascorbate-glutathione cycle and promotes growth under cadmium stress in tomato. <i>Protoplasma</i> , 2018 , 255, 79-93	3.4	118
366	Silicon (Si) Supplementation Alleviates NaCl Toxicity in Mung Bean [<i>Vigna radiata</i> (L.) Wilczek] Through the Modifications of Physio-biochemical Attributes and Key Antioxidant Enzymes. <i>Journal of Plant Growth Regulation</i> , 2019 , 38, 70-82	4.7	114
365	Growth and antioxidant responses in mustard (<i>Brassica juncea</i> L.) plants subjected to combined effect of gibberellic acid and salinity. <i>Archives of Agronomy and Soil Science</i> , 2010 , 56, 575-588	2	108

364	Potential of exogenously sourced kinetin in protecting <i>Solanum lycopersicum</i> from NaCl-induced oxidative stress through up-regulation of the antioxidant system, ascorbate-glutathione cycle and glyoxalase system. <i>PLoS ONE</i> , 2018 , 13, e0202175	3.7	107
363	Influence of High and Low Levels of Plant-Beneficial Heavy Metal Ions on Plant Growth and Development. <i>Frontiers in Environmental Science</i> , 2016 , 4,	4.8	105
362	Current Perspectives on Plant Growth-Promoting Rhizobacteria. <i>Journal of Plant Growth Regulation</i> , 2016 , 35, 877-902	4.7	101
361	Selenium mitigates cadmium-induced oxidative stress in tomato (<i>Solanum lycopersicum</i> L.) plants by modulating chlorophyll fluorescence, osmolyte accumulation, and antioxidant system. <i>Protoplasma</i> , 2018 , 255, 459-469	3.4	100
360	Exogenous Application of Selenium Mitigates Cadmium Toxicity in <i>Brassica juncea</i> L. (Czern & Cross) by Up-Regulating Antioxidative System and Secondary Metabolites. <i>Journal of Plant Growth Regulation</i> , 2016 , 35, 936-950	4.7	100
359	Interactive effect of 24-epibrassinolide and silicon alleviates cadmium stress via the modulation of antioxidant defense and glyoxalase systems and macronutrient content in <i>Pisum sativum</i> L. seedlings. <i>BMC Plant Biology</i> , 2018 , 18, 146	5.3	100
358	Influence of Exogenous Salicylic Acid and Nitric Oxide on Growth, Photosynthesis, and Ascorbate-Glutathione Cycle in Salt Stressed. <i>Biomolecules</i> , 2019 , 10,	5.9	100
357	Melatonin and calcium function synergistically to promote the resilience through ROS metabolism under arsenic-induced stress. <i>Journal of Hazardous Materials</i> , 2020 , 398, 122882	12.8	98
356	Silicon nanoparticles enhanced the growth and reduced the cadmium accumulation in grains of wheat (<i>Triticum aestivum</i> L.). <i>Plant Physiology and Biochemistry</i> , 2019 , 140, 1-8	5.4	95
355	Combined use of biochar and zinc oxide nanoparticle foliar spray improved the plant growth and decreased the cadmium accumulation in rice (<i>Oryza sativa</i> L.) plant. <i>Environmental Science and Pollution Research</i> , 2019 , 26, 11288-11299	5.1	92
354	Selenium modulates dynamics of antioxidative defence expression, photosynthetic attributes and secondary metabolites to mitigate chromium toxicity in <i>Brassica juncea</i> L. plants. <i>Environmental and Experimental Botany</i> , 2019 , 161, 180-192	5.9	91
353	Mitigation of sodium chloride toxicity in <i>Solanum lycopersicum</i> L. by supplementation of jasmonic acid and nitric oxide. <i>Journal of Plant Interactions</i> , 2018 , 13, 64-72	3.8	86
352	Integrative roles of nitric oxide and hydrogen sulfide in melatonin-induced tolerance of pepper (<i>Capsicum annuum</i> L.) plants to iron deficiency and salt stress alone or in combination. <i>Physiologia Plantarum</i> , 2020 , 168, 256-277	4.6	85
351	Deciphering the protective role of nitric oxide against salt stress at the physiological and proteomic levels in maize. <i>Journal of Proteome Research</i> , 2011 , 10, 4349-64	5.6	84
350	Salicylic acid-induced nitric oxide enhances arsenic toxicity tolerance in maize plants by upregulating the ascorbate-glutathione cycle and glyoxalase system. <i>Journal of Hazardous Materials</i> , 2020 , 399, 123020	12.8	83
349	Plant responses to environmental stresses-from gene to biotechnology. <i>AoB PLANTS</i> , 2017 , 9, plx025	2.9	83
348	Improved Drought Tolerance by AMF Inoculation in Maize () Involves Physiological and Biochemical Implications. <i>Plants</i> , 2019 , 8,	4.5	79
347	Antimicrobial Activity of Medicinal Plants Correlates with the Proportion of Antagonistic Endophytes. <i>Frontiers in Microbiology</i> , 2017 , 8, 199	5.7	76

346	Pre-sowing Seed Treatment with 24-Epibrassinolide Ameliorates Pesticide Stress in L. through the Modulation of Stress Markers. <i>Frontiers in Plant Science</i> , 2016 , 7, 1569	6.2	75
345	Jasmonic acid alleviates negative impacts of cadmium stress by modifying osmolytes and antioxidants in faba bean (<i>Vicia faba</i> L.). <i>Archives of Agronomy and Soil Science</i> , 2017 , 63, 1889-1899	2	74
344	28-homobrassinolide regulates antioxidant enzyme activities and gene expression in response to salt- and temperature-induced oxidative stress in <i>Brassica juncea</i> . <i>Scientific Reports</i> , 2018 , 8, 8735	4.9	74
343	Combined effect of 24-epibrassinolide and salicylic acid mitigates lead (Pb) toxicity by modulating various metabolites in <i>Brassica juncea</i> L. seedlings. <i>Protoplasma</i> , 2018 , 255, 11-24	3.4	74
342	Revisiting the role of ROS and RNS in plants under changing environment. <i>Environmental and Experimental Botany</i> , 2019 , 161, 1-3	5.9	73
341	Effect of foliar applications of silicon and titanium dioxide nanoparticles on growth, oxidative stress, and cadmium accumulation by rice (<i>Oryza sativa</i>). <i>Acta Physiologiae Plantarum</i> , 2019 , 41, 1	2.6	72
340	Exogenous application of calcium to 24-epibrassinosteroid pre-treated tomato seedlings mitigates NaCl toxicity by modifying ascorbate-glutathione cycle and secondary metabolites. <i>Scientific Reports</i> , 2018 , 8, 13515	4.9	70
339	Zinc Oxide Nanoparticles Application Alleviates Arsenic (As) Toxicity in Soybean Plants by Restricting the Uptake of as and Modulating Key Biochemical Attributes, Antioxidant Enzymes, Ascorbate-Glutathione Cycle and Glyoxalase System. <i>Plants</i> , 2020 , 9,	4.5	69
338	Phytohormones and microRNAs as sensors and regulators of leaf senescence: assigning macro roles to small molecules. <i>Biotechnology Advances</i> , 2013 , 31, 1153-71	17.8	69
337	24-Epibrassinolide (EBR) Confers Tolerance against NaCl Stress in Soybean Plants by Up-Regulating Antioxidant System, Ascorbate-Glutathione Cycle, and Glyoxalase System. <i>Biomolecules</i> , 2019 , 9,	5.9	67
336	Interaction of 24-epibrassinolide and salicylic acid regulates pigment contents, antioxidative defense responses, and gene expression in <i>Brassica juncea</i> L. seedlings under Pb stress. <i>Environmental Science and Pollution Research</i> , 2018 , 25, 15159-15173	5.1	66
335	Impact of drought and heat stress individually and in combination on physio-biochemical parameters, antioxidant responses, and gene expression in. <i>3 Biotech</i> , 2020 , 10, 208	2.8	65
334	Brassinosteroids Regulate Growth in Plants Under Stressful Environments and Crosstalk with Other Potential Phytohormones. <i>Journal of Plant Growth Regulation</i> , 2018 , 37, 1007-1024	4.7	65
333	Current developments in arbuscular mycorrhizal fungi research and its role in salinity stress alleviation: a biotechnological perspective. <i>Critical Reviews in Biotechnology</i> , 2015 , 35, 461-74	9.4	64
332	Responses of nitric oxide and hydrogen sulfide in regulating oxidative defence system in wheat plants grown under cadmium stress. <i>Physiologia Plantarum</i> , 2020 , 168, 345-360	4.6	61
331	Combined effects of brassinosteroid and kinetin mitigates salinity stress in tomato through the modulation of antioxidant and osmolyte metabolism. <i>Plant Physiology and Biochemistry</i> , 2020 , 147, 31-42	5.4	61
330	Drought Tolerance: Role of Organic Osmolytes, Growth Regulators, and Mineral Nutrients 2014 , 25-55		60
329	Seed priming with titanium dioxide nanoparticles enhances seed vigor, leaf water status, and antioxidant enzyme activities in maize (<i>Zea mays</i> L.) under salinity stress. <i>Journal of King Saud University - Science</i> , 2021 , 33, 101207	3.6	60

328	Supplementation with plant growth promoting rhizobacteria (PGPR) alleviates cadmium toxicity in <i>Solanum lycopersicum</i> by modulating the expression of secondary metabolites. <i>Chemosphere</i> , 2019 , 230, 628-639	8.4	59
327	Effect of sodium carbonate-induced salinity/alkalinity on some key osmoprotectants, protein profile, antioxidant enzymes, and lipid peroxidation in two mulberry (<i>Morus alba</i> L.) cultivars. <i>Journal of Plant Interactions</i> , 2014 , 9, 460-467	3.8	58
326	Effect of salt stress on growth and biochemical parameters of <i>Pisum sativum</i> L.. <i>Archives of Agronomy and Soil Science</i> , 2005 , 51, 665-672	2	58
325	Roles of potential plant hormones and transcription factors in controlling leaf senescence and drought tolerance. <i>Protoplasma</i> , 2019 , 256, 313-329	3.4	57
324	Jasmonic acid ameliorates alkaline stress by improving growth performance, ascorbate glutathione cycle and glyoxylase system in maize seedlings. <i>Scientific Reports</i> , 2018 , 8, 2831	4.9	56
323	Plant growth promoting rhizobacteria induced Cd tolerance in <i>Lycopersicon esculentum</i> through altered antioxidative defense expression. <i>Chemosphere</i> , 2019 , 217, 463-474	8.4	55
322	Stomatal responses to drought stress 2016 , 24-40		54
321	Zinc oxide nanoparticles (ZnO-NPs) induce salt tolerance by improving the antioxidant system and photosynthetic machinery in tomato. <i>Plant Physiology and Biochemistry</i> , 2021 , 161, 122-130	5.4	54
320	Exogenously Applied Ascorbic Acid-Mediated Changes in Osmoprotection and Oxidative Defense System Enhanced Water Stress Tolerance in Different Cultivars of Safflower (L.). <i>Plants</i> , 2020 , 9,	4.5	52
319	Ca(2+) signals: the versatile decoders of environmental cues. <i>Critical Reviews in Biotechnology</i> , 2013 , 33, 97-109	9.4	52
318	The role of endogenous nitric oxide in salicylic acid-induced up-regulation of ascorbate-glutathione cycle involved in salinity tolerance of pepper (<i>Capsicum annuum</i> L.) plants. <i>Plant Physiology and Biochemistry</i> , 2020 , 147, 10-20	5.4	52
317	Sodium nitroprusside (SNP) improves tolerance to arsenic (As) toxicity in <i>Vicia faba</i> through the modifications of biochemical attributes, antioxidants, ascorbate-glutathione cycle and glyoxalase cycle. <i>Chemosphere</i> , 2020 , 244, 125480	8.4	52
316	Modification of Osmolytes and Antioxidant Enzymes by 24-Epibrassinolide in Chickpea Seedlings Under Mercury (Hg) Toxicity. <i>Journal of Plant Growth Regulation</i> , 2018 , 37, 309-322	4.7	52
315	Salinity Stress and Arbuscular Mycorrhizal Symbiosis in Plants 2014 , 139-159		51
314	The putative role of endogenous nitric oxide in brassinosteroid-induced antioxidant defence system in pepper (<i>Capsicum annuum</i> L.) plants under water stress. <i>Plant Physiology and Biochemistry</i> , 2019 , 143, 119-128	5.4	50
313	Abiotic Stress Responses in Plants: An Overview 2012 , 1-28		50
312	Hydrogen sulfide alleviates chromium stress on cauliflower by restricting its uptake and enhancing antioxidative system. <i>Physiologia Plantarum</i> , 2020 , 168, 289-300	4.6	48
311	Jasmonic acid application triggers detoxification of lead (Pb) toxicity in tomato through the modifications of secondary metabolites and gene expression. <i>Chemosphere</i> , 2019 , 235, 734-748	8.4	48

310	Proteomic profiling and redox status alteration of recalcitrant tea (<i>Camellia sinensis</i>) seed in response to desiccation. <i>Planta</i> , 2011 , 233, 583-92	4.7	48
309	Melatonin Alleviates High Temperature-Induced Pollen Abortion in <i>Solanum lycopersicum</i> . <i>Molecules</i> , 2018 , 23,	4.8	46
308	Potassium starvation-induced oxidative stress and antioxidant defense responses in <i>Brassica juncea</i> . <i>Journal of Plant Interactions</i> , 2014 , 9, 1-9	3.8	46
307	Role of Glutathione Reductase in Plant Abiotic Stress 2012 , 149-158		46
306	Exogenously supplied silicon (Si) improves cadmium tolerance in pepper (<i>Capsicum annum</i> L.) by up-regulating the synthesis of nitric oxide and hydrogen sulfide. <i>Journal of Biotechnology</i> , 2020 , 316, 35-45	3.7	46
305	Herbal immune-boosters: Substantial warriors of pandemic Covid-19 battle. <i>Phytomedicine</i> , 2021 , 85, 153361	6.5	46
304	Differential distribution of amino acids in plants. <i>Amino Acids</i> , 2017 , 49, 821-869	3.5	45
303	Spermine application alleviates salinity induced growth and photosynthetic inhibition in <i>Solanum lycopersicum</i> by modulating osmolyte and secondary metabolite accumulation and differentially regulating antioxidant metabolism. <i>Plant Physiology and Biochemistry</i> , 2019 , 144, 1-13	5.4	45
302	Sulfur-enriched leonardite and humic acid soil amendments enhance tolerance to drought and phosphorus deficiency stress in maize (<i>Zea mays</i> L.). <i>Scientific Reports</i> , 2020 , 10, 6432	4.9	44
301	Enhancing Plant Productivity Under Salt Stress: Relevance of Poly-omics 2013 , 113-156		44
300	The role of nitrate reductase in brassinosteroid-induced endogenous nitric oxide generation to improve cadmium stress tolerance of pepper plants by upregulating the ascorbate-glutathione cycle. <i>Ecotoxicology and Environmental Safety</i> , 2020 , 196, 110483	7	43
299	Salicylic Acid (SA) Induced Alterations in Growth, Biochemical Attributes and Antioxidant Enzyme Activity in Faba Bean (<i>Vicia faba</i> L.) Seedlings under NaCl Toxicity. <i>Russian Journal of Plant Physiology</i> , 2018 , 65, 104-114	1.6	43
298	Relevance of proteomic investigations in plant abiotic stress physiology. <i>OMICS A Journal of Integrative Biology</i> , 2012 , 16, 621-35	3.8	43
297	Plant growth under drought stress 2016 , 649-668		43
296	Impact of exogenously applied trehalose on leaf biochemistry, achene yield and oil composition of sunflower under drought stress. <i>Physiologia Plantarum</i> , 2021 , 172, 317-333	4.6	43
295	Integration of silicon and secondary metabolites in plants: a significant association in stress tolerance. <i>Journal of Experimental Botany</i> , 2020 , 71, 6758-6774	7	41
294	Jasmonic acid induced changes in physio-biochemical attributes and ascorbate-glutathione pathway in <i>Lycopersicon esculentum</i> under lead stress at different growth stages. <i>Science of the Total Environment</i> , 2018 , 645, 1344-1360	10.2	41
293	Biochar as a tool for effective management of drought and heavy metal toxicity. <i>Chemosphere</i> , 2021 , 271, 129458	8.4	41

292	Combined Kinetin and Spermidine Treatments Ameliorate Growth and Photosynthetic Inhibition in by Up-Regulating Antioxidant and Nitrogen Metabolism under Cadmium Stress. <i>Biomolecules</i> , 2020 , 10,	5.9	40
291	Selenium ameliorates chromium toxicity through modifications in pigment system, antioxidative capacity, osmotic system, and metal chelators in Brassica juncea seedlings. <i>South African Journal of Botany</i> , 2018 , 119, 1-10	2.9	40
290	Salt Stress: Causes, Types and Responses of Plants 2013 , 1-24		40
289	Role of Proteomics in Crop Stress Tolerance. <i>Frontiers in Plant Science</i> , 2016 , 7, 1336	6.2	40
288	Interactive Effects of Nutrients and on the Growth and Root Architecture of Soybean (L.). <i>Frontiers in Microbiology</i> , 2018 , 9, 1000	5.7	38
287	Role of P-type ATPase metal transporters and plant immunity induced by jasmonic acid against Lead (Pb) toxicity in tomato. <i>Ecotoxicology and Environmental Safety</i> , 2019 , 174, 283-294	7	35
286	Analysis of genetic control and QTL mapping of essential wheat grain quality traits in a recombinant inbred population. <i>PLoS ONE</i> , 2019 , 14, e0200669	3.7	34
285	Protective role of selenium against chromium stress involving metabolites and essential elements in L. seedlings. <i>3 Biotech</i> , 2018 , 8, 66	2.8	34
284	Arbuscular Mycorrhiza in Crop Improvement under Environmental Stress 2014 , 69-95		34
283	Mitigation of NaCl Stress by Arbuscular Mycorrhizal Fungi through the Modulation of Osmolytes, Antioxidants and Secondary Metabolites in Mustard (Brassica juncea L.) Plants. <i>Frontiers in Plant Science</i> , 2016 , 7, 869	6.2	34
282	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. <i>Plants</i> , 2020 , 9,	4.5	34
281	Alpha-Tocopherol-Induced Regulation of Growth and Metabolism in Plants Under Non-stress and Stress Conditions. <i>Journal of Plant Growth Regulation</i> , 2019 , 38, 1325-1340	4.7	33
280	Mechanism of Free Radical Scavenging and Role of Phytohormones in Plants Under Abiotic Stresses 2010 , 99-118		33
279	Exogenously applied growth regulators protect the cotton crop from heat-induced injury by modulating plant defense mechanism. <i>Scientific Reports</i> , 2018 , 8, 17086	4.9	33
278	Role of plant growth promoting Bacteria (PGPRs) as biocontrol agents of Meloidogyne incognita through improved plant defense of Lycopersicon esculentum. <i>Plant and Soil</i> , 2019 , 436, 325-345	4.2	32
277	Silicon Alleviates Nickel-Induced Oxidative Stress by Regulating Antioxidant Defense and Glyoxalase Systems in Mustard Plants. <i>Journal of Plant Growth Regulation</i> , 2019 , 38, 1260-1273	4.7	32
276	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. <i>Journal of Plant Interactions</i> , 2017 , 12, 429-437	3.8	32
275	Citric Acid Enhances Plant Growth, Photosynthesis, and Phytoextraction of Lead by Alleviating the Oxidative Stress in Castor Beans. <i>Plants</i> , 2019 , 8,	4.5	32

274	Castasterone and Citric Acid Supplementation Alleviates Cadmium Toxicity by Modifying Antioxidants and Organic Acids in Brassica juncea. <i>Journal of Plant Growth Regulation</i> , 2018 , 37, 286-299	4.7	32
273	Cadmium and lead-induced changes in lipid peroxidation, antioxidative enzymes and metal accumulation in Brassica juncea L. at three different growth stages. <i>Archives of Agronomy and Soil Science</i> , 2009 , 55, 395-405	2	31
272	24-Epibrassinolide Alleviates the Injurious Effects of Cr(VI) Toxicity in Tomato Plants: Insights into Growth, Physio-Biochemical Attributes, Antioxidant Activity and Regulation of Ascorbate-Glutathione and Glyoxalase Cycles. <i>Journal of Plant Growth Regulation</i> , 2020 , 39, 1587-1604	4.7	30
271	Silicon and Plants: Current Knowledge and Future Prospects. <i>Journal of Plant Growth Regulation</i> , 2021 , 40, 906-925	4.7	30
270	Jasmonic Acid Improves Growth Performance of Soybean Under Nickel Toxicity By Regulating Nickel Uptake, Redox Balance, and Oxidative Stress Metabolism. <i>Journal of Plant Growth Regulation</i> , 2018 , 37, 1195-1209	4.7	30
269	Plant transcriptomics and responses to environmental stress: an overview. <i>Journal of Genetics</i> , 2015 , 94, 525-37	1.2	28
268	Catalase 2014 , 131-148		28
267	Role of mineral nutrition in alleviation of heat stress in cotton plants grown in glasshouse and field conditions. <i>Scientific Reports</i> , 2019 , 9, 13022	4.9	27
266	Photocatalytic degradation of an organic dye using Ag doped ZrO ₂ nanoparticles: Milk powder facilitated eco-friendly synthesis. <i>Journal of King Saud University - Science</i> , 2020 , 32, 1872-1878	3.6	27
265	Modulation of plant growth and metabolism in cadmium-enriched environments. <i>Reviews of Environmental Contamination and Toxicology</i> , 2014 , 229, 51-88	3.5	27
264	Upregulation of antioxidant and glyoxalase systems mitigates NaCl stress in Brassica juncea by supplementation of zinc and calcium. <i>Journal of Plant Interactions</i> , 2018 , 13, 151-162	3.8	26
263	Alpha-tocopherol fertigation confers growth physio-biochemical and qualitative yield enhancement in field grown water deficit wheat (<i>Triticum aestivum</i> L.). <i>Scientific Reports</i> , 2019 , 9, 12924	4.9	25
262	Jasmonic acid and methyl jasmonate modulate growth, photosynthetic activity and expression of photosystem II subunit genes in Brassica oleracea L. <i>Scientific Reports</i> , 2020 , 10, 9322	4.9	25
261	Jasmonic acid-induced tolerance to root-knot nematodes in tomato plants through altered photosynthetic and antioxidative defense mechanisms. <i>Protoplasma</i> , 2018 , 255, 471-484	3.4	25
260	Role of organic and inorganic amendments in alleviating heavy metal stress in oilseed crops 2017 , 224-235		24
259	Phytoextraction 2016 , 385-409		24
258	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. <i>Biomolecules</i> , 2019 , 9,	5.9	24
257	Plant Signaling Under Abiotic Stress Environment 2012 , 297-323		24

256	Gibberellic acid-induced generation of hydrogen sulfide alleviates boron toxicity in tomato (<i>Solanum lycopersicum</i> L.) plants. <i>Plant Physiology and Biochemistry</i> , 2020 , 153, 53-63	5.4	24
255	Alleviative role of exogenously applied mannitol in maize cultivars differing in chromium stress tolerance. <i>Environmental Science and Pollution Research</i> , 2019 , 26, 5111-5121	5.1	24
254	Foliar fertigation of ascorbic acid and zinc improves growth, antioxidant enzyme activity and harvest index in barley (<i>Hordeum vulgare</i> L.) grown under salt stress. <i>Plant Physiology and Biochemistry</i> , 2021 , 158, 244-254	5.4	24
253	In-situ localization and biochemical analysis of bio-molecules reveals Pb-stress amelioration in <i>Brassica juncea</i> L. by co-application of 24-Epibrassinolide and Salicylic Acid. <i>Scientific Reports</i> , 2019 , 9, 3524	4.9	23
252	Ameliorating the Drought Stress for Wheat Growth through Application of ACC-Deaminase Containing Rhizobacteria along with Biogas Slurry. <i>Sustainability</i> , 2020 , 12, 6022	3.6	23
251	Main nitric oxide (NO) hallmarks to relieve arsenic stress in higher plants. <i>Journal of Hazardous Materials</i> , 2021 , 406, 124289	12.8	22
250	Zinc-Induced Effects on Productivity, Zinc Use Efficiency, and Grain Biofortification of Bread Wheat under Different Tillage Permutations. <i>Agronomy</i> , 2020 , 10, 1566	3.6	21
249	Silicon is dependent on hydrogen sulphide to improve boron toxicity tolerance in pepper plants by regulating the AsA-GSH cycle and glyoxalase system. <i>Chemosphere</i> , 2020 , 257, 127241	8.4	21
248	Covid-19 and thymoquinone: Connecting the dots. <i>Phytotherapy Research</i> , 2020 , 34, 2786-2789	6.7	21
247	Silicon as a beneficial element to combat the adverse effect of drought in agricultural crops 2016 , 682-694		21
246	Oxidative stress mitigation and initiation of antioxidant and osmoprotectant responses mediated by ascorbic acid in <i>Brassica juncea</i> L. subjected to copper (II) stress. <i>Ecotoxicology and Environmental Safety</i> , 2019 , 182, 109436	7	21
245	Drought Stress Induced Oxidative Damage and Antioxidants in Plants 2014 , 345-367		21
244	Plant secretomics: identification, isolation, and biological significance under environmental stress. <i>Plant Signaling and Behavior</i> , 2014 , 9, e29426	2.5	21
243	Bacterial Augmented Floating Treatment Wetlands for Efficient Treatment of Synthetic Textile Dye Wastewater. <i>Sustainability</i> , 2020 , 12, 3731	3.6	21
242	Arbuscular mycorrhiza in combating abiotic stresses in vegetables: An eco-friendly approach. <i>Saudi Journal of Biological Sciences</i> , 2021 , 28, 1465-1476	4	21
241	Nitrate reductase rather than nitric oxide synthase activity is involved in 24-epibrassinolide-induced nitric oxide synthesis to improve tolerance to iron deficiency in strawberry (<i>Fragaria × ananassa</i>) by up-regulating the ascorbate-glutathione cycle. <i>Plant Physiology and Biochemistry</i> , 2020 , 151, 486-499	5.4	20
240	Zinc-lysine prevents chromium-induced morphological, photosynthetic, and oxidative alterations in spinach irrigated with tannery wastewater. <i>Environmental Science and Pollution Research</i> , 2019 , 26, 28951-28961	5.1	20
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205	Heavy Metals and Photosynthesis: Recent Developments 2019 , 107-134		12
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202	Phytoremediation of Saline Soils for Sustainable Agricultural Productivity 2016 , 455-468		12
201	Drought-tolerant <i>Bacillus megaterium</i> isolated from semi-arid conditions induces systemic tolerance of wheat under drought conditions. <i>Plant Cell Reports</i> , 2021 , 1	5.1	12
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179	Oxidative stress and plant responses to pathogens under drought conditions 2016 , 102-123		9
178	Environmental Stresses and MetabolomicsDeciphering the Role of Stress Responsive Metabolites 2018 , 53-67		9
177	Foliar Application of 24-Epibrassinolide Improves Growth, Ascorbate-Glutathione Cycle, and Glyoxalase System in Brown Mustard (<i>L.</i> Czern.) under Cadmium Toxicity. <i>Plants</i> , 2020 , 9,	4.5	9
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158	Enthralling the impact of engineered nanoparticles on soil microbiome: A concentric approach towards environmental risks and cogitation. <i>Ecotoxicology and Environmental Safety</i> , 2021 , 222, 112459	7	8
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156	Polyamines and brassinosteroids in drought stress responses and tolerance in plants 2016 , 608-627		7
155	Chickpea 2015 , 67-79		7
154	Analysis of physiobiochemical attributes, some key antioxidants and esculin content through HPLC in in vitro grown <i>Cichorium intybus</i> L. treated with ethylmethane sulfonate. <i>Plant Growth Regulation</i> , 2015 , 76, 233-241	3.2	7
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149	The role of oilseed crops in human diet and industrial use 2017 , 249-263		6

148	Role of Mineral Nutrients in Abiotic Stress Tolerance 2019 , 269-285		6
147	Ecotoxicological Effects of Ibuprofen on Plant Growth of <i>L. Plants</i> , 2020 , 9,	4.5	6
146	Hormonal regulation of drought stress in plants 2016 , 582-599		6
145	Divergence in tissue-specific expression patterns of genes associated with the terpenoid biosynthesis in two oregano species <i>Origanum vulgare</i> L., and <i>Origanum majorana</i> . <i>Industrial Crops and Products</i> , 2018 , 123, 546-555	5.9	6
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139	Synergistic interactions among root-associated bacteria, rhizobia and chickpea under stress conditions 2016 , 250-262		6
138	Biochemical and molecular responses of oilseed crops to heavy metal stress 2017 , 236-248		5
137	Achieving crop stress tolerance and improvement--an overview of genomic techniques. <i>Applied Biochemistry and Biotechnology</i> , 2015 , 177, 1395-408	3.2	5
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135	Extraction and purification of an antimicrobial bioactive element from lichen associated <i>Streptomyces olivaceus</i> LEP7 against wound inhabiting microbial pathogens. <i>Journal of King Saud University - Science</i> , 2020 , 32, 2009-2015	3.6	5
134	Silicon-Mediated Alleviation of Stresses in Plants 2018 , 377-387		5
133	Sino-Pakistan Friendship, Changing South Asian Geopolitics and India's Post-Obama Options. <i>South Asia Research</i> , 2017 , 37, 133-146	0.4	5
132	Soybean under abiotic stress 2015 , 28-42		5
131	Legume-rhizobia symbiotic performance under abiotic stresses 2015 , 125-131		5

130	Comparative analysis of iron oxide nanoparticles synthesized from ginger (<i>Zingiber officinale</i>) and cumin seeds (<i>Cuminum cyminum</i>) to induce resistance in wheat against drought stress.. <i>Chemosphere</i> , 2021 , 133201	8.4	5
129	Impact of different cadmium concentrations on two <i>Pisum sativum</i> L. genotypes. <i>Pakistan Journal of Botany</i> , 2020 , 52,	2	5
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127	Stress Protective Effect of <i>Rhododendron arboreum</i> Leaves (MEL) on Chromium-Treated <i>Vigna radiata</i> Plants. <i>Journal of Plant Growth Regulation</i> , 2021 , 40, 423-435	4.7	5
126	Role of phytohormones in improving the yield of oilseed crops 2017 , 165-183		4
125	Zingerone [4-(3-Methoxy-4-hydroxyphenyl)-butan-2] Attenuates Lipopolysaccharide-Induced Inflammation and Protects Rats from Sepsis Associated Multi Organ Damage. <i>Molecules</i> , 2020 , 25,	4.8	4
124	Impact of ethanolic extract of (EA1) on pancreatic carcinoma AsPC-1 cells. <i>Saudi Journal of Biological Sciences</i> , 2020 , 27, 1260-1264	4	4
123	Water stress and vegetable crops 2016 , 393-411		4
122	Sustainable agricultural practices for water quality protection 2016 , 75-85		4
121	Regulation of Photosynthesis Under Metal Stress 2019 , 95-105		4
120	Exogenous application of phytoprotectants in legumes against environmental stress 2015 , 161-197		4
119	Proteomic Markers for Oxidative Stress: New Tools for Reactive Oxygen Species and Photosynthesis Research 2012 , 181-196		4
118	Biotechnology as an Aid for Crop Improvement to Overcome Food Shortage 2012 , 239-261		4
117	Combined gas exchange characteristics, chlorophyll fluorescence and response curves as selection traits for temperature tolerance in maize genotypes. <i>Photosynthesis Research</i> , 2021 , 150, 213-225	3.7	4
116	Drought stress effect on woody tree yield 2016 , 356-374		4
115	Toward integration of a systems-based approach for understanding drought stress in plants 2016 , 227-247		4
114	The effect of NADPH oxidase inhibitor diphenyleneiodonium (DPI) and glutathione (GSH) on , under Arsenic (As) toxicity. <i>International Journal of Phytoremediation</i> , 2021 , 23, 945-957	3.9	4
113	Elevation in wildfire frequencies with respect to the climate change. <i>Journal of Environmental Management</i> , 2022 , 301, 113769	7.9	4

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111	Accumulation of chromium in plants and its repercussion in animals and humans.. <i>Environmental Pollution</i> , 2022 , 119044	9.3	4
110	Ascorbate-Glutathione Oxidant Scavengers, Metabolome Analysis and Adaptation Mechanisms of Ion Exclusion in Sorghum under Salt Stress.. <i>International Journal of Molecular Sciences</i> , 2021 , 22,	6.3	4
109	Biochemical and molecular studies on the commercial oil-yielding desert shrub <i>Simmondsia chinensis</i> (jojoba, a desert gold) 2017 , 152-164		3
108	Castor bean (<i>Ricinus communis</i> L.) 2017 , 19-33		3
107	Physiological, Biochemical and Reproductive Studies on a Critically Endangered Medicinal Plant of the Himalayan Region Grown under In-Situ and Ex-Situ Conditions. <i>Plants</i> , 2020 , 9,	4.5	3
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105	Foliar application of trace elements in alleviating drought stress 2016 , 669-681		3
104	Brassinosteroids and drought tolerance in plants 2016 , 600-607		3
103	Role of proteins in alleviating drought stress in plants 2016 , 165-176		3
102	Nutrient deficiencies under stress in legumes 2015 , 53-65		3
101	Methionine-induced regulation of growth, secondary metabolites and oxidative defense system in sunflower (<i>Helianthus annuus</i> L.) plants subjected to water deficit stress. <i>PLoS ONE</i> , 2021 , 16, e0259585 ³⁻⁷		3
100	Promoting the accumulation of scopolamine and hyoscyamine in <i>Hyoscyamus niger</i> L. through EMS based mutagenesis. <i>PLoS ONE</i> , 2020 , 15, e0231355	3.7	3
99	Efficacy of citric acid chelate and <i>Bacillus</i> sp. in amelioration of cadmium and chromium toxicity in wheat.. <i>Chemosphere</i> , 2021 , 290, 133342	8.4	3
98	Sustainable nanotechnology based wastewater treatment strategies: achievements, challenges and future perspectives. <i>Chemosphere</i> , 2021 , 132606	8.4	3
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96	Exogenously applied spermidine confers protection against cinnamic acid-mediated oxidative stress in. <i>Saudi Journal of Biological Sciences</i> , 2021 , 28, 2619-2625	4	3
95	Drought stress and morphophysiological responses in plants 2016 , 452-467		3

94	Methods used for the improvement of crop productivity under water stress 2016 , 484-505		3
93	Advances in Salt Tolerance of Some Major Fiber Crops Through Classical and Advanced Biotechnological Tools: A Review. <i>Journal of Plant Growth Regulation</i> , 2021 , 40, 891-905	4-7	3
92	Foliar Concentrations of Selected Elements, Assessment of Oxidative Stress Markers and Role of Antioxidant Defense System is Associated with Fly Ash Stress Tolerance in <i>Withania somnifera</i> . <i>Journal of Plant Growth Regulation</i> , 2021 , 40, 1450-1465	4-7	3
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90	Uptake, accumulation and elimination of cadmium in a soil - Faba bean (<i>Vicia faba</i>) - Aphid (<i>Aphis fabae</i>) - Ladybird (<i>Coccinella transversalis</i>) food chain. <i>Chemosphere</i> , 2021 , 279, 130522	8.4	3
89	Pretreatment with 24-Epibrassinolide Synergistically Protects Root Structures and Chloroplastic Pigments and Upregulates Antioxidant Enzymes and Biomass in Na ⁺ -Stressed Tomato Plants. <i>Journal of Plant Growth Regulation</i> , 1	4-7	3
88	Biotransfer, bioaccumulation and detoxification of nickel along the soil - faba bean - aphid - ladybird food chain. <i>Science of the Total Environment</i> , 2021 , 785, 147226	10.2	3
87	Characterization of and Gene Families in the Soybeans in Response to Drought and Salinity Stresses.. <i>Antioxidants</i> , 2022 , 11,	7-1	3
86	Arsenic as hazardous pollutant: Perspectives on engineering remediation tools.. <i>Science of the Total Environment</i> , 2022 , 155870	10.2	3
85	Oilseed crops 2017 , 1-18		2
84	Brassicaceae plants 2017 , 207-223		2
83	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. <i>Saudi Pharmaceutical Journal</i> , 2020 , 28, 719-728	4-4	2
82	Neuroprotective Effects of Dried Tubers of. <i>Plants</i> , 2020 , 9,	4-5	2
81	Water stress and higher plants 2016 , 422-451		2
80	Water stress 2016 , 343-355		2
79	Analysis of novel haplotype variation at TaDREB-D1 and TaCwi-D1 genes influencing drought tolerance in bread/synthetic wheat derivatives 2016 , 206-226		2
78	The role of crassulacean acid metabolism induction in plant adaptation to water deficit 2016 , 12-23		2
77	Avenues for improving drought tolerance in crops by ABA regulation 2016 , 177-193		2

76	miRNA/siRNA-based approaches to enhance drought tolerance of barley and wheat under drought stress 2016 , 248-260		2
75	Breeding crop plants for drought tolerance 2016 , 543-557		2
74	The interaction of drought and nutrient stress in wheat 2016 , 695-710		2
73	Legumes and breeding under abiotic stress 2015 , 1-20		2
72	Plant growth promoters mediated quality and yield attributes of milk thistle (<i>Silybum marianum</i> L.) ecotypes under salinity stress. <i>Scientific Reports</i> , 2021 , 11, 23200	4.9	2
71	LYSOSOMOTROPIC PROPERTIES OF SODIUM BICARBONATE AND COVID-19. <i>Farmacia</i> , 2020 , 68, 771-778	4.7	2
70	Extraction, Quantification, and Cytokine Inhibitory Response of Bakuchiol in <i>Psoralea coryfolia</i> Linn.. <i>Separations</i> , 2020 , 7, 48	3.1	2
69	Identification of differentially expressed genes and pathways in isonuclear kenaf genotypes under salt stress. <i>Physiologia Plantarum</i> , 2021 , 173, 1295-1308	4.6	2
68	Salicylic Acid-Mediated Regulation of Morpho-Physiological and Yield Attributes of Wheat and Barley Plants in Deferring Salinity Stress. <i>Journal of Plant Growth Regulation</i> , 1	4.7	2
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