

# Muhammad Ashraf

## List of Publications by Citations

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365  
papers

13,908  
citations

60  
h-index

104  
g-index

370  
ext. papers

17,452  
ext. citations

4.1  
avg, IF

7.3  
L-index

#	Paper	IF	Citations
365	Moringa oleifera: a food plant with multiple medicinal uses. <i>Phytotherapy Research</i> , <b>2007</b> , 21, 17-25	6.7	843
364	The role of mycorrhizae and plant growth promoting rhizobacteria (PGPR) in improving crop productivity under stressful environments. <i>Biotechnology Advances</i> , <b>2014</b> , 32, 429-48	17.8	548
363	Some important physiological selection criteria for salt tolerance in plants. <i>Flora: Morphology, Distribution, Functional Ecology of Plants</i> , <b>2004</b> , 199, 361-376	1.9	439
362	Recent developments in biodegradation of industrial pollutants by white rot fungi and their enzyme system. <i>Biodegradation</i> , <b>2008</b> , 19, 771-83	4.1	344
361	Role of Arbuscular Mycorrhizal Fungi in Plant Growth Regulation: Implications in Abiotic Stress Tolerance. <i>Frontiers in Plant Science</i> , <b>2019</b> , 10, 1068	6.2	333
360	Ascorbic Acid-A Potential Oxidant Scavenger and Its Role in Plant Development and Abiotic Stress Tolerance. <i>Frontiers in Plant Science</i> , <b>2017</b> , 8, 613	6.2	325
359	Inoculating wheat seedlings with exopolysaccharide-producing bacteria restricts sodium uptake and stimulates plant growth under salt stress. <i>Biology and Fertility of Soils</i> , <b>2004</b> , 40, 157	6.1	266
358	Does exogenous application of salicylic acid through the rooting medium modulate growth and photosynthetic capacity in two differently adapted spring wheat cultivars under salt stress?. <i>Journal of Plant Physiology</i> , <b>2007</b> , 164, 685-94	3.6	249
357	Vanadium, recent advancements and research prospects: A review. <i>Environment International</i> , <b>2015</b> , 80, 79-88	12.9	230
356	Exogenously applied ascorbic acid alleviates salt-induced oxidative stress in wheat. <i>Environmental and Experimental Botany</i> , <b>2008</b> , 63, 224-231	5.9	221
355	Improving salinity tolerance of plants through conventional breeding and genetic engineering: An analytical comparison. <i>Biotechnology Advances</i> , <b>2009</b> , 27, 744-752	17.8	215
354	Jasmonates: Multifunctional Roles in Stress Tolerance. <i>Frontiers in Plant Science</i> , <b>2016</b> , 7, 813	6.2	214
353	The effects of calcium sulphate on growth, membrane stability and nutrient uptake of tomato plants grown under salt stress. <i>Environmental and Experimental Botany</i> , <b>2007</b> , 59, 173-178	5.9	197
352	Gibberellic acid mediated induction of salt tolerance in wheat plants: Growth, ionic partitioning, photosynthesis, yield and hormonal homeostasis. <i>Environmental and Experimental Botany</i> , <b>2013</b> , 86, 76-85	5.9	178
351	Role of transgenic plants in agriculture and biopharming. <i>Biotechnology Advances</i> , <b>2012</b> , 30, 524-40	17.8	168
350	Nanofertilizer use for sustainable agriculture: Advantages and limitations. <i>Plant Science</i> , <b>2019</b> , 289, 110279	7.0	167
349	Microbial Proteases Applications. <i>Frontiers in Bioengineering and Biotechnology</i> , <b>2019</b> , 7, 110	5.8	150

348	Melatonin-mediated nitric oxide improves tolerance to cadmium toxicity by reducing oxidative stress in wheat plants. <i>Chemosphere</i> , <b>2019</b> , 225, 627-638	8.4	134
347	Improved salt tolerance of melon ( <i>Cucumis melo</i> L.) by the addition of proline and potassium nitrate. <i>Environmental and Experimental Botany</i> , <b>2007</b> , 60, 397-403	5.9	129
346	Glycinebetaine-induced modulation of antioxidant enzymes activities and ion accumulation in two wheat cultivars differing in salt tolerance. <i>Environmental and Experimental Botany</i> , <b>2007</b> , 60, 368-376	5.9	127
345	Cultivated Ancient Wheats ( <i>Triticum</i> spp.): A Potential Source of Health-Beneficial Food Products. <i>Comprehensive Reviews in Food Science and Food Safety</i> , <b>2017</b> , 16, 477-488	16.4	126
344	Does exogenous application of 24-epibrassinolide ameliorate salt induced growth inhibition in wheat ( <i>Triticum aestivum</i> L.)?. <i>Plant Growth Regulation</i> , <b>2008</b> , 55, 51-64	3.2	126
343	Crop breeding for salt tolerance in the era of molecular markers and marker-assisted selection. <i>Plant Breeding</i> , <b>2013</b> , 132, 10-20	2.4	119
342	Okra ( <i>Hibiscus esculentus</i> ) seed oil for biodiesel production. <i>Applied Energy</i> , <b>2010</b> , 87, 779-785	10.7	118
341	Interprovenance variation in the composition of <i>Moringa oleifera</i> oilseeds from Pakistan. <i>JAOCS, Journal of the American Oil ChemistshSociety</i> , <b>2005</b> , 82, 45-51	1.8	116
340	Application of response surface methodology for optimizing transesterification of <i>Moringa oleifera</i> oil: Biodiesel production. <i>Energy Conversion and Management</i> , <b>2011</b> , 52, 3034-3042	10.6	114
339	Regulation in Plant Stress Tolerance by a Potential Plant Growth Regulator, 5-Aminolevulinic Acid. <i>Journal of Plant Growth Regulation</i> , <b>2013</b> , 32, 663-679	4.7	111
338	Assessment of variation in antioxidative defense system in salt-treated pea ( <i>Pisum sativum</i> ) cultivars and its putative use as salinity tolerance markers. <i>Journal of Plant Physiology</i> , <b>2009</b> , 166, 1764-74 <sup>6</sup>	2.6	109
337	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> , <b>2018</b> , 13, e0202175	3.7	107
336	Silicon occurrence, uptake, transport and mechanisms of heavy metals, minerals and salinity enhanced tolerance in plants with future prospects: A review. <i>Journal of Environmental Management</i> , <b>2016</b> , 183, 521-529	7.9	100
335	Microbial ACC-Deaminase: Prospects and Applications for Inducing Salt Tolerance in Plants. <i>Critical Reviews in Plant Sciences</i> , <b>2010</b> , 29, 360-393	5.6	94
334	Does Seed Priming Induce Changes in the Levels of Some Endogenous Plant Hormones in Hexaploid Wheat Plants Under Salt Stress??. <i>Journal of Integrative Plant Biology</i> , <b>2006</b> , 48, 181-189	8.3	94
333	Anthelmintic activity of <i>Artemisia brevifolia</i> in sheep. <i>Journal of Ethnopharmacology</i> , <b>2004</b> , 93, 265-8	5	93
332	Analytical characterization of hemp ( <i>Cannabis sativa</i> ) seed oil from different agro-ecological zones of Pakistan. <i>JAOCS, Journal of the American Oil ChemistshSociety</i> , <b>2006</b> , 83, 323-329	1.8	89
331	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> , <b>2020</b> , 168, 256-277	4.6	85

330	Drought stress induced changes in some organic substances in nodules and other plant parts of two potential legumes differing in salt tolerance. <i>Flora: Morphology, Distribution, Functional Ecology of Plants</i> , <b>2005</b> , 200, 535-546	1.9	85
329	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> , <b>2020</b> , 399, 123020	12.8	83
328	Plant responses to environmental stresses-from gene to biotechnology. <i>AoB PLANTS</i> , <b>2017</b> , 9, plx025	2.9	83
327	Alleviation of salt-induced adverse effects in eggplant ( <i>Solanum melongena</i> L.) by glycinebetaine and sugarbeet extracts. <i>Scientia Horticulturae</i> , <b>2010</b> , 125, 188-195	4.1	83
326	Essential roles and hazardous effects of nickel in plants. <i>Reviews of Environmental Contamination and Toxicology</i> , <b>2011</b> , 214, 125-67	3.5	81
325	Osmoprotection in plants under abiotic stresses: new insights into a classical phenomenon. <i>Planta</i> , <b>2019</b> , 251, 3	4.7	79
324	Changes in antioxidant enzymes and some key metabolites in some genetically diverse cultivars of radish ( <i>Raphanus sativus</i> L.). <i>Environmental and Experimental Botany</i> , <b>2009</b> , 67, 395-402	5.9	77
323	Alleviation of waterlogging stress in upland cotton ( <i>Gossypium hirsutum</i> L.) by exogenous application of potassium in soil and as a foliar spray. <i>Crop and Pasture Science</i> , <b>2011</b> , 62, 25	2.2	76
322	Seed enhancement with cytokinins: changes in growth and grain yield in salt stressed wheat plants. <i>Plant Growth Regulation</i> , <b>2006</b> , 50, 29-39	3.2	75
321	Aminolevulinic acid and nitric oxide regulate oxidative defense and secondary metabolisms in canola ( <i>Brassica napus</i> L.) under drought stress. <i>Protoplasma</i> , <b>2018</b> , 255, 163-174	3.4	74
320	Seed Treatment with Auxins Modulates Growth and Ion Partitioning in Salt-stressed Wheat Plants. <i>Journal of Integrative Plant Biology</i> , <b>2007</b> , 49, 1003-1015	8.3	72
319	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> , <b>2020</b> , 9,	4.5	69
318	Phytohormones and microRNAs as sensors and regulators of leaf senescence: assigning macro roles to small molecules. <i>Biotechnology Advances</i> , <b>2013</b> , 31, 1153-71	17.8	69
317	Chemical Composition, and Antioxidant and Antimicrobial Activities of Essential Oil of Spearmint ( <i>Mentha spicata</i> L.) From Pakistan. <i>Journal of Essential Oil Research</i> , <b>2010</b> , 22, 78-84	2.3	68
316	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> , <b>2019</b> , 9,	5.9	67
315	Aminolevulinic acid-induced changes in some key physiological attributes and activities of antioxidant enzymes in sunflower ( <i>Helianthus annuus</i> L.) plants under saline regimes. <i>Scientia Horticulturae</i> , <b>2012</b> , 142, 143-148	4.1	65
314	Ameliorating effects of exogenously applied proline on seed composition, seed oil quality and oil antioxidant activity of maize ( <i>Zea mays</i> L.) under drought stress. <i>International Journal of Molecular Sciences</i> , <b>2013</b> , 14, 818-35	6.3	65
313	Brassinosteroids Regulate Growth in Plants Under Stressful Environments and Crosstalk with Other Potential Phytohormones. <i>Journal of Plant Growth Regulation</i> , <b>2018</b> , 37, 1007-1024	4.7	65

312	Exogenous application of mannitol and thiourea regulates plant growth and oxidative stress responses in salt-stressed maize ( <i>Zea mays</i> L.). <i>Journal of Plant Interactions</i> , <b>2013</b> , 8, 234-241	3.8	64
311	Salt stress affects water relations, photosynthesis, and oxidative defense mechanisms in <i>Solanum melongena</i> L.. <i>Journal of Plant Interactions</i> , <b>2013</b> , 8, 85-96	3.8	64
310	Exogenously applied glycinebetaine enhances seed and seed oil quality of maize ( <i>Zea mays</i> L.) under water deficit conditions. <i>Environmental and Experimental Botany</i> , <b>2011</b> , 71, 249-259	5.9	63
309	Seed Composition and Seed Oil Antioxidant Activity of Maize Under Water Stress. <i>JAOCS, Journal of the American Oil ChemistshSociety</i> , <b>2010</b> , 87, 1179-1187	1.8	63
308	Physiological and biochemical adaptations of <i>Cynodon dactylon</i> (L.) Pers. from the Salt Range (Pakistan) to salinity stress. <i>Flora: Morphology, Distribution, Functional Ecology of Plants</i> , <b>2008</b> , 203, 683-694	1.9	62
307	Responses of nitric oxide and hydrogen sulfide in regulating oxidative defence system in wheat plants grown under cadmium stress. <i>Physiologia Plantarum</i> , <b>2020</b> , 168, 345-360	4.6	61
306	Salt-induced modulation in growth, photosynthetic capacity, proline content and ion accumulation in sunflower ( <i>Helianthus annuus</i> L.). <i>Acta Physiologiae Plantarum</i> , <b>2011</b> , 33, 1113-1122	2.6	61
305	Trehalose: A Key Organic Osmolyte Effectively Involved in Plant Abiotic Stress Tolerance. <i>Journal of Plant Growth Regulation</i> , <b>2019</b> , 38, 606-618	4.7	57
304	Roles of potential plant hormones and transcription factors in controlling leaf senescence and drought tolerance. <i>Protoplasma</i> , <b>2019</b> , 256, 313-329	3.4	57
303	Hydrogen sulfide regulates the levels of key metabolites and antioxidant defense system to counteract oxidative stress in pepper ( <i>Capsicum annum</i> L.) plants exposed to high zinc regime. <i>Environmental Science and Pollution Research</i> , <b>2018</b> , 25, 12612-12618	5.1	55
302	Synergistic effects of drought and ascorbic acid on growth, mineral nutrients and oxidative defense system in canola ( <i>Brassica napus</i> L.) plants. <i>Acta Physiologiae Plantarum</i> , <b>2014</b> , 36, 1539-1553	2.6	55
301	Anatomical adaptations to salinity in cogon grass [ <i>Imperata cylindrica</i> (L.) Raeuschel] from the Salt Range, Pakistan. <i>Plant and Soil</i> , <b>2009</b> , 322, 229-238	4.2	55
300	Iso-osmotic effect of NaCl and PEG on growth, cations and free proline accumulation in callus tissue of two indica rice ( <i>Oryza sativa</i> L.) genotypes. <i>Plant Growth Regulation</i> , <b>2007</b> , 53, 53-63	3.2	53
299	Alhagi: a plant genus rich in bioactives for pharmaceuticals. <i>Phytotherapy Research</i> , <b>2015</b> , 29, 1-13	6.7	52
298	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> , <b>2020</b> , 9,	4.5	52
297	Salt stress induced changes in some organic metabolites and ionic relations in nodules and other plant parts of two crop legumes differing in salt tolerance. <i>Flora: Morphology, Distribution, Functional Ecology of Plants</i> , <b>2003</b> , 198, 486-498	1.9	52
296	The role of endogenous nitric oxide in salicylic acid-induced up-regulation of ascorbate-glutathione cycle involved in salinity tolerance of pepper ( <i>Capsicum annum</i> L.) plants. <i>Plant Physiology and Biochemistry</i> , <b>2020</b> , 147, 10-20	5.4	52
295	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> , <b>2020</b> , 244, 125480	8.4	52

294	Modification of Osmolytes and Antioxidant Enzymes by 24-Epibrassinolide in Chickpea Seedlings Under Mercury (Hg) Toxicity. <i>Journal of Plant Growth Regulation</i> , <b>2018</b> , 37, 309-322	4.7	52
293	Effectiveness of potassium sulfate in mitigating salt-induced adverse effects on different physio-biochemical attributes in sunflower ( <i>Helianthus annuus</i> L.). <i>Flora: Morphology, Distribution, Functional Ecology of Plants</i> , <b>2009</b> , 204, 471-483	1.9	51
292	Antibacterial and antioxidant activity of exopolysaccharide mediated silver nanoparticle synthesized by <i>Lactobacillus brevis</i> isolated from Chinese koumiss. <i>Colloids and Surfaces B: Biointerfaces</i> , <b>2020</b> , 186, 110734	6	51
291	A global meta-analysis of greenhouse gases emission and crop yield under no-tillage as compared to conventional tillage. <i>Science of the Total Environment</i> , <b>2021</b> , 750, 142299	10.2	51
290	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> , <b>2019</b> , 143, 119-128	5.4	50
289	Modulation Role of abscisic acid (ABA) on growth, water relations and glycinebetaine metabolism in two maize ( <i>Zea mays</i> L.) cultivars under drought stress. <i>International Journal of Molecular Sciences</i> , <b>2012</b> , 13, 3189-202	6.3	50
288	Cotton genetic resources. A review. <i>Agronomy for Sustainable Development</i> , <b>2012</b> , 32, 419-432	6.8	49
287	Protective role of foliar-applied nitric oxide in <i>Triticum aestivum</i> under saline stress. <i>Turkish Journal of Botany</i> , <b>2013</b> , 37, 1155-1165	1.3	49
286	Ecotoxicological risks associated with tannery effluent wastewater. <i>Environmental Toxicology and Pharmacology</i> , <b>2012</b> , 34, 180-191	5.8	48
285	Phytotoxic effects of nickel on yield and concentration of macro- and micro-nutrients in sunflower ( <i>Helianthus annuus</i> L.) achenes. <i>Journal of Hazardous Materials</i> , <b>2011</b> , 185, 1295-303	12.8	48
284	Vanadium toxicity in chickpea ( <i>Cicer arietinum</i> L.) grown in red soil: Effects on cell death, ROS and antioxidative systems. <i>Ecotoxicology and Environmental Safety</i> , <b>2018</b> , 158, 139-144	7	47
283	Salinity effects on nitrogen metabolism in plants [Focusing on the activities of nitrogen metabolizing enzymes: A review. <i>Journal of Plant Nutrition</i> , <b>2018</b> , 41, 1065-1081	2.3	46
282	Potassium starvation-induced oxidative stress and antioxidant defense responses in <i>Brassica juncea</i> . <i>Journal of Plant Interactions</i> , <b>2014</b> , 9, 1-9	3.8	46
281	Exogenously supplied silicon (Si) improves cadmium tolerance in pepper ( <i>Capsicum annuum</i> L.) by up-regulating the synthesis of nitric oxide and hydrogen sulfide. <i>Journal of Biotechnology</i> , <b>2020</b> , 316, 35-45	3.7	46
280	Does exogenously-applied trehalose alter oxidative defense system in the edible part of radish ( <i>Raphanus sativus</i> L.) under water-deficit conditions?. <i>Scientia Horticulturae</i> , <b>2015</b> , 185, 68-75	4.1	45
279	Inducing Salt Tolerance in Wheat by Exogenously Applied Ascorbic Acid through Different Modes. <i>Journal of Plant Nutrition</i> , <b>2009</b> , 32, 1799-1817	2.3	45
278	Fresh and composted industrial sludge restore soil functions in surface soil of degraded agricultural land. <i>Science of the Total Environment</i> , <b>2018</b> , 619-620, 517-527	10.2	45
277	Growth, V uptake, and antioxidant enzymes responses of chickpea ( <i>Cicer arietinum</i> L.) genotypes under vanadium stress. <i>Plant and Soil</i> , <b>2015</b> , 390, 17-27	4.2	44

276	Ethnobotany of the Genus <i>Artemisia</i> L. (Asteraceae) in Pakistan. <i>Ethnobotany Research and Applications</i> , <b>2009</b> , 7, 147	9.7	44
275	Variations of antioxidant characteristics and mineral contents in pulp and peel of different apple ( <i>Malus domestica</i> Borkh.) cultivars from Pakistan. <i>Molecules</i> , <b>2012</b> , 17, 390-407	4.8	44
274	Influence of natural and synthetic vitamin C (ascorbic acid) on primary and secondary metabolites and associated metabolism in quinoa ( <i>Chenopodium quinoa</i> Willd.) plants under water deficit regimes. <i>Plant Physiology and Biochemistry</i> , <b>2018</b> , 123, 192-203	5.4	44
273	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> , <b>2020</b> , 196, 110483	7	43
272	Co-inoculation integrated with P-enriched compost improved nodulation and growth of Chickpea ( <i>Cicer arietinum</i> L.) under irrigated and rainfed farming systems. <i>Biology and Fertility of Soils</i> , <b>2014</b> , 50, 1-12	6.1	43
271	He-Ne laser-induced improvement in biochemical, physiological, growth and yield characteristics in sunflower ( <i>Helianthus annuus</i> L.). <i>Photochemistry and Photobiology</i> , <b>2011</b> , 87, 1453-63	3.6	43
270	Impact of exogenously applied trehalose on leaf biochemistry, achene yield and oil composition of sunflower under drought stress. <i>Physiologia Plantarum</i> , <b>2021</b> , 172, 317-333	4.6	43
269	Isolation, characterization, and effect of phosphate-zinc-solubilizing bacterial strains on chickpea ( <i>C. arietinum</i> L.) growth. <i>Saudi Journal of Biological Sciences</i> , <b>2019</b> , 26, 1061-1067	4	42
268	Growth stage-based modulation in antioxidant defense system and proline accumulation in two hexaploid wheat ( <i>Triticum aestivum</i> L.) cultivars differing in salinity tolerance. <i>Flora: Morphology, Distribution, Functional Ecology of Plants</i> , <b>2012</b> , 207, 388-397	1.9	40
267	Variation in minerals, phenolics and antioxidant activity of peel and pulp of different varieties of peach ( <i>Prunus persica</i> L.) fruit from Pakistan. <i>Molecules</i> , <b>2012</b> , 17, 6491-506	4.8	40
266	Role of Proteomics in Crop Stress Tolerance. <i>Frontiers in Plant Science</i> , <b>2016</b> , 7, 1336	6.2	40
265	Effect of animal manure, crop type, climate zone, and soil attributes on greenhouse gas emissions from agricultural soils: a global meta-analysis. <i>Journal of Cleaner Production</i> , <b>2021</b> , 278, 124019	10.3	38
264	Textile industrial effluent induces mutagenicity and oxidative DNA damage and exploits oxidative stress biomarkers in rats. <i>Environmental Toxicology and Pharmacology</i> , <b>2016</b> , 41, 180-6	5.8	37
263	Alleviation of adverse effects of drought stress on growth and some potential physiological attributes in maize ( <i>Zea mays</i> L.) by seed electromagnetic treatment. <i>Photochemistry and Photobiology</i> , <b>2011</b> , 87, 1354-62	3.6	36
262	Immobilization of Pb and Cu in polluted soil by superphosphate, multi-walled carbon nanotube, rice straw and its derived biochar. <i>Environmental Science and Pollution Research</i> , <b>2016</b> , 23, 15532-43	5.1	36
261	Comparison of antioxidant enzyme activities and DNA damage in chickpea ( <i>Cicer arietinum</i> L.) genotypes exposed to vanadium. <i>Environmental Science and Pollution Research</i> , <b>2016</b> , 23, 19787-96	5.1	35
260	Role of exogenous glycinebetaine and humic acid in mitigating drought stress-induced adverse effects in <i>Malus robusta</i> seedlings. <i>Turkish Journal of Botany</i> , <b>2013</b> , 37, 920-929	1.3	35
259	Influence of sub-lethal crude oil concentration on growth, water relations and photosynthetic capacity of maize ( <i>Zea mays</i> L.) plants. <i>Environmental Science and Pollution Research</i> , <b>2016</b> , 23, 18320-31	5.1	34

258	Effects of different doses of low power continuous wave he-ne laser radiation on some seed thermodynamic and germination parameters, and potential enzymes involved in seed germination of sunflower ( <i>Helianthus annuus</i> L.). <i>Photochemistry and Photobiology</i> , <b>2010</b> , 86, 1050-5	3.6	34
257	Alpha-Tocopherol-Induced Regulation of Growth and Metabolism in Plants Under Non-stress and Stress Conditions. <i>Journal of Plant Growth Regulation</i> , <b>2019</b> , 38, 1325-1340	4.7	33
256	Alleviation of field water stress in wheat cultivars by using silicon and salicylic acid applied separately or in combination. <i>Crop and Pasture Science</i> , <b>2019</b> , 70, 36	2.2	33
255	Trehalose pretreatment induces drought tolerance in radish ( <i>Raphanus sativus</i> L.) plants: some key physio-biochemical traits. <i>Acta Physiologiae Plantarum</i> , <b>2016</b> , 38, 1	2.6	33
254	Interactive effects of vanadium and phosphorus on their uptake, growth and heat shock proteins in chickpea genotypes under hydroponic conditions. <i>Environmental and Experimental Botany</i> , <b>2017</b> , 134, 72-81	5.9	33
253	HeNe laser-induced changes in germination, thermodynamic parameters, internal energy, enzyme activities and physiological attributes of wheat during germination and early growth. <i>Laser Physics Letters</i> , <b>2013</b> , 10, 045606	1.5	33
252	Presowing Seed Treatment with Cytokinins and Its Effect on Growth, Photosynthetic Rate, Ionic Levels and Yield of Two Wheat Cultivars Differing in Salt Tolerance. <i>Journal of Integrative Plant Biology</i> , <b>2005</b> , 47, 1315-1325	8.3	33
251	Nanoparticles potentially mediate salt stress tolerance in plants. <i>Plant Physiology and Biochemistry</i> , <b>2021</b> , 160, 257-268	5.4	33
250	Alleviating effect of nitric oxide on oxidative stress and antioxidant defence system in pepper ( <i>Capsicum annuum</i> L.) plants exposed to cadmium and lead toxicity applied separately or in combination. <i>Scientia Horticulturae</i> , <b>2019</b> , 255, 52-60	4.1	32
249	Breeding strategies for structuring salinity tolerance in wheat. <i>Advances in Agronomy</i> , <b>2019</b> , 155, 121-187	7.7	32
248	Modulation of salt (NaCl)-induced effects on oil composition and fatty acid profile of sunflower ( <i>Helianthus annuus</i> L.) by exogenous application of salicylic acid. <i>Journal of the Science of Food and Agriculture</i> , <b>2010</b> , 90, 2608-16	4.3	32
247	Improving growth and photosynthetic performance of drought stressed tomato by application of nano-organic fertilizer involves up-regulation of nitrogen, antioxidant and osmolyte metabolism. <i>Ecotoxicology and Environmental Safety</i> , <b>2021</b> , 216, 112195	7	32
246	Peanut ( <i>Arachis hypogaea</i> L.): A Prospective Legume Crop to Offer Multiple Health Benefits Under Changing Climate. <i>Comprehensive Reviews in Food Science and Food Safety</i> , <b>2018</b> , 17, 1325-1338	16.4	31
245	Exogenous application of nitric oxide promotes growth and oxidative defense system in highly boron stressed tomato plants bearing fruit. <i>Scientia Horticulturae</i> , <b>2015</b> , 185, 43-47	4.1	31
244	Capparis spinosa L.: A Plant with High Potential for Development of Functional Foods and Nutraceuticals/Pharmaceuticals. <i>International Journal of Pharmacology</i> , <b>2016</b> , 12, 201-219	0.7	31
243	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> , <b>2020</b> , 39, 1587-1604	4.7	30
242	Soil salinity as a selection pressure is a key determinant for the evolution of salt tolerance in Blue Panicgrass ( <i>Panicum antidotale</i> Retz.). <i>Flora: Morphology, Distribution, Functional Ecology of Plants</i> , <b>2010</b> , 205, 37-45	1.9	30
241	Integrated Effect of Algal Biochar and Plant Growth Promoting Rhizobacteria on Physiology and Growth of Maize Under Deficit Irrigations. <i>Journal of Soil Science and Plant Nutrition</i> , <b>2020</b> , 20, 346-356	3.2	30



240	Kinetin and Indole Acetic Acid Promote Antioxidant Defense System and Reduce Oxidative Stress in Maize ( <i>Zea mays</i> L.) Plants Grown at Boron Toxicity. <i>Journal of Plant Growth Regulation</i> , <b>2018</b> , 37, 1258-1266	4.7	30
239	Salt stress regulates enzymatic and nonenzymatic antioxidative defense system in the edible part of carrot ( <i>Daucus carota</i> L.). <i>Journal of Plant Interactions</i> , <b>2014</b> , 9, 324-329	3.8	28
238	Salinity Stress in Arid and Semi-Arid Climates: Effects and Management in Field Crops <b>2019</b> ,		28
237	Improving drought tolerance in maize by foliar application of boron: water status, antioxidative defense and photosynthetic capacity. <i>Archives of Agronomy and Soil Science</i> , <b>2018</b> , 64, 626-639	2	27
236	EXOGENOUS APPLICATION OF POTASSIUM DIHYDROGEN PHOSPHATE CAN ALLEVIATE THE ADVERSE EFFECTS OF SALT STRESS ON SUNFLOWER. <i>Journal of Plant Nutrition</i> , <b>2011</b> , 34, 1041-1057	2.3	27
235	Modulation of plant growth and metabolism in cadmium-enriched environments. <i>Reviews of Environmental Contamination and Toxicology</i> , <b>2014</b> , 229, 51-88	3.5	27
234	Upregulation of antioxidant and glyoxalase systems mitigates NaCl stress in <i>Brassica juncea</i> by supplementation of zinc and calcium. <i>Journal of Plant Interactions</i> , <b>2018</b> , 13, 151-162	3.8	26
233	Influence of exogenously applied nitric oxide on strawberry ( <i>Fragaria</i> [Ananassa]) plants grown under iron deficiency and/or saline stress. <i>Physiologia Plantarum</i> , <b>2019</b> , 165, 247-263	4.6	26
232	Alleviation of salinity-induced perturbations in ionic and hormonal concentrations in spring wheat through seed preconditioning in synthetic auxins. <i>Acta Physiologiae Plantarum</i> , <b>2013</b> , 35, 1093-1112	2.6	26
231	Does Soil Salinity Affect Yield and Composition of Cottonseed Oil?. <i>JAOCS, Journal of the American Oil ChemistshSociety</i> , <b>2007</b> , 84, 845-851	1.8	26
230	Foliar application of silicon at different growth stages alters growth and yield of selected wheat cultivars. <i>Journal of Plant Nutrition</i> , <b>2016</b> , 39, 1194-1203	2.3	26
229	Screening sugarcane ( <i>Saccharum</i> sp.) genotypes for salt tolerance using multivariate cluster analysis. <i>Plant Cell, Tissue and Organ Culture</i> , <b>2012</b> , 110, 23-33	2.7	25
228	Alleviation of salt stress in pearl millet ( <i>Pennisetum glaucum</i> (L.) R. Br.) through seed treatments. <i>Agronomy for Sustainable Development</i> , <b>2003</b> , 23, 227-234		25
227	Nitrogen nutrition and adaptation of glycophytes to saline environment: a review. <i>Archives of Agronomy and Soil Science</i> , <b>2018</b> , 64, 1181-1206	2	24
226	Trehalose-Induced Changes in Seed Oil Composition and Antioxidant Potential of Maize Grown Under Drought Stress. <i>JAOCS, Journal of the American Oil ChemistshSociety</i> , <b>2012</b> , 89, 1485	1.8	24
225	Toxic effect of nickel (Ni) on growth and metabolism in germinating seeds of sunflower ( <i>Helianthus annuus</i> L.). <i>Biological Trace Element Research</i> , <b>2011</b> , 143, 1695-703	4.5	24
224	IMPROVEMENT IN YIELD AND QUALITY OF KINNOW ( <i>CITRUS DELICIOSA</i> X <i>CITRUS NOBILIS</i> ) BY POTASSIUM FERTILIZATION. <i>Journal of Plant Nutrition</i> , <b>2010</b> , 33, 1625-1637	2.3	24
223	Structural and Functional Adaptations in Plants for Salinity Tolerance <b>2010</b> , 151-170		24

222	Concentrations of minerals in milk of sheep and goats grazing similar pastures in a semiarid region of Pakistan. <i>Small Ruminant Research</i> , <b>2006</b> , 65, 274-278	1.7	24
221	Gibberellic acid-induced generation of hydrogen sulfide alleviates boron toxicity in tomato ( <i>Solanum lycopersicum</i> L.) plants. <i>Plant Physiology and Biochemistry</i> , <b>2020</b> , 153, 53-63	5.4	24
220	Mitigation of Arsenic Toxicity in Wheat by the Exogenously Applied Salicylic Acid, 24-Epi-Brassinolide and Silicon. <i>Journal of Soil Science and Plant Nutrition</i> , <b>2020</b> , 20, 577-588	3.2	24
219	Salt stress induces physiochemical alterations in rice grain composition and quality. <i>Journal of Food Science</i> , <b>2020</b> , 85, 14-20	3.4	24
218	Effect of salinity on osmotic adjustment, proline accumulation and possible role of ornithine- $\epsilon$ -aminotransferase in proline biosynthesis in. <i>Physiology and Molecular Biology of Plants</i> , <b>2018</b> , 24, 1017-1033	2.8	24
217	POTASSIUM SULFATE IMPROVES WATER DEFICIT TOLERANCE IN MELON PLANTS GROWN UNDER GLASSHOUSE CONDITIONS. <i>Journal of Plant Nutrition</i> , <b>2010</b> , 33, 1276-1286	2.3	23
216	Phytoremediation of Saline Soils for Sustainable Agricultural Productivity <b>2010</b> , 335-355		23
215	Pharmaceutical wastewater being composite mixture of environmental pollutants may be associated with mutagenicity and genotoxicity. <i>Environmental Science and Pollution Research</i> , <b>2016</b> , 23, 2813-20	5.1	22
214	Oxidative stress responses in Wistar rats on subacute exposure to pharmaceutical wastewater. <i>Environmental Science and Pollution Research</i> , <b>2016</b> , 23, 24158-24165	5.1	22
213	Anatomical and physiological characteristics relating to ionic relations in some salt tolerant grasses from the Salt Range, Pakistan. <i>Acta Physiologiae Plantarum</i> , <b>2011</b> , 33, 1399-1409	2.6	22
212	The mechanism of hydrogen sulfide mitigation of iron deficiency-induced chlorosis in strawberry ( <i>Fragaria <del>lananassa</del></i> ) plants. <i>Protoplasma</i> , <b>2019</b> , 256, 371-382	3.4	22
211	Nitric oxide regulates oxidative defense system, key metabolites and growth of broccoli ( <i>Brassica oleracea</i> L.) plants under water limited conditions. <i>Scientia Horticulturae</i> , <b>2019</b> , 254, 7-13	4.1	21
210	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> , <b>2020</b> , 257, 127241	8.4	21
209	Engineering Rubisco activase from thermophilic cyanobacteria into high-temperature sensitive plants. <i>Critical Reviews in Biotechnology</i> , <b>2018</b> , 38, 559-572	9.4	21
208	MINERAL COMPOSITION OF STRAWBERRY, MULBERRY AND CHERRY FRUITS AT DIFFERENT RIPENING STAGES AS ANALYZED BY INDUCTIVELY COUPLED PLASMA-OPTICAL EMISSION SPECTROSCOPY. <i>Journal of Plant Nutrition</i> , <b>2012</b> , 35, 111-122	2.3	21
207	Response of growth, antioxidant enzymes and root exudates production towards As stress in <i>Pteris vittata</i> and in <i>Astragalus sinicus</i> colonized by arbuscular mycorrhizal fungi. <i>Environmental Science and Pollution Research</i> , <b>2020</b> , 27, 2340-2352	5.1	21
206	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 <del>lananassa</del></i> ) by up-regulating the ascorbate-glutathione cycle. <i>Plant Physiology and Biochemistry</i> , <b>2020</b> , 151, 486-499	5.4	20
205	Perspectives of Using L-Tryptophan for Improving Productivity of Agricultural Crops: A Review. <i>Pedosphere</i> , <b>2018</b> , 28, 16-34	5	20

204	Risk assessment of heavy metal and metalloid toxicity through a contaminated vegetable (Cucurbita maxima) from wastewater irrigated area: A case study for a site-specific risk assessment in Jhang, Pakistan. <i>Human and Ecological Risk Assessment (HERA)</i> , <b>2016</b> , 22, 86-98	4.9	20
203	Time-course changes in the inorganic and organic components of germinating sunflower achenes under salt (NaCl) stress. <i>Flora: Morphology, Distribution, Functional Ecology of Plants</i> , <b>2003</b> , 198, 26-36	1.9	20
202	Immobilization of Pb and Cu by organic and inorganic amendments in contaminated soil. <i>Geoderma</i> , <b>2021</b> , 385, 114803	6.7	20
201	Association of textile industry effluent with mutagenicity and its toxic health implications upon acute and sub-chronic exposure. <i>Environmental Monitoring and Assessment</i> , <b>2018</b> , 190, 179	3.1	19
200	Morpho-anatomical and physiological adaptations to high altitude in some Aveneae grasses from Neelum Valley, Western Himalayan Kashmir. <i>Acta Physiologiae Plantarum</i> , <b>2016</b> , 38, 1	2.6	19
199	Interaction of compost additives with phosphate solubilizing rhizobacteria improved maize production and soil biochemical properties under dryland agriculture. <i>Soil and Tillage Research</i> , <b>2017</b> , 174, 70-80	6.5	19
198	Salicylic-acid induced recovery ability in salt-stressed Hordeum vulgare plants. <i>Turkish Journal of Botany</i> , <b>2014</b> , 38, 112-121	1.3	19
197	Triacontanol-induced changes in growth, yield, leaf water relations, oxidative defense system, minerals, and some key osmoprotectants in Triticum aestivum under saline conditions. <i>Turkish Journal of Botany</i> , <b>2014</b> , 38, 896-913	1.3	19
196	Physiological and biochemical responses of two spring wheat genotypes to non-hydraulic root-to-shoot signalling of partial and full root-zone drought stress. <i>Plant Physiology and Biochemistry</i> , <b>2019</b> , 139, 11-20	5.4	18
195	Health risk assessment of heavy metals and metalloids via dietary intake of a potential vegetable (Coriandrum sativum L.) grown in contaminated water irrigated agricultural sites of Sargodha, Pakistan. <i>Human and Ecological Risk Assessment (HERA)</i> , <b>2016</b> , 22, 597-610	4.9	18
194	Salicylic Acid Induced Salinity Tolerance Through Manipulation of Ion Distribution Rather than Ion Accumulation. <i>Journal of Plant Growth Regulation</i> , <b>2017</b> , 36, 227-239	4.7	18
193	Modulation of endogenous levels of some key organic metabolites by exogenous application of glycine betaine in drought stressed plants of sunflower (Helianthus annuus L.). <i>Plant Growth Regulation</i> , <b>2011</b> , 63, 7-12	3.2	18
192	Salt-induced modulation in inorganic nutrients, antioxidant enzymes, proline content and seed oil composition in safflower (Carthamus tinctorius L.). <i>Journal of the Science of Food and Agriculture</i> , <b>2011</b> , 91, 2785-93	4.3	18
191	Foliage application and seed priming with nitric oxide causes mitigation of salinity-induced metabolic adversaries in broccoli (Brassica oleracea L.) plants. <i>Acta Physiologiae Plantarum</i> , <b>2020</b> , 42, 1	2.6	18
190	Characterization and Purification of Membrane-Bound Azoreductase From Azo Dye Degrading Shewanella sp. Strain IFN4. <i>Clean - Soil, Air, Water</i> , <b>2016</b> , 44, 1523-1530	1.6	18
189	Exogenous application of urea and a urease inhibitor improves drought stress tolerance in maize (Zea mays L.). <i>Journal of Plant Research</i> , <b>2017</b> , 130, 599-609	2.6	17
188	Exogenous application of trehalose alters growth, physiology and nutrient composition in radish (Raphanus sativus L.) plants under water-deficit conditions. <i>Revista Brasileira De Botanica</i> , <b>2015</b> , 38, 431-439	1.3	17
187	Seed Treatment with Tocopherol Regulates Growth and Key Physio-Biochemical Attributes in Carrot (Daucus carota L.) Plants under Water Limited Regimes. <i>Agronomy</i> , <b>2021</b> , 11, 469	3.6	17

186	Toxicity Appraisal of Untreated Dyeing Industry Wastewater Based on Chemical Characterization and Short Term Bioassays. <i>Bulletin of Environmental Contamination and Toxicology</i> , <b>2016</b> , 96, 502-7	2.7	17
185	Assessment of toxicological health risk of trace metals in vegetables mostly consumed in Punjab, Pakistan. <i>Environmental Earth Sciences</i> , <b>2016</b> , 75, 1	2.9	16
184	Physiological and anthocyanin biosynthesis genes response induced by vanadium stress in mustard genotypes with distinct photosynthetic activity. <i>Environmental Toxicology and Pharmacology</i> , <b>2018</b> , 62, 20-29	5.8	16
183	Epibrassinolide Application Regulates Some Key Physio-biochemical Attributes As Well As Oxidative Defense System in Maize Plants Grown Under Saline Stress. <i>Journal of Plant Growth Regulation</i> , <b>2018</b> , 37, 1244-1257	4.7	16
182	Morpho-anatomical and physiological attributes for salt tolerance in sewan grass ( <i>Lasiurus scindicus</i> Henr.) from Cholistan Desert, Pakistan. <i>Acta Physiologiae Plantarum</i> , <b>2014</b> , 36, 2959-2974	2.6	16
181	Phosphate-arsenate relations to affect arsenic concentration in plant tissues, growth, and antioxidant efficiency of sunflower ( <i>Helianthus annuus</i> L.) under arsenic stress. <i>Environmental Science and Pollution Research</i> , <b>2017</b> , 24, 24376-24386	5.1	16
180	Influence of foliar application of silicon on chlorophyll fluorescence, photosynthetic pigments, and growth in water-stressed wheat cultivars differing in drought tolerance. <i>Turkish Journal of Botany</i> , <b>2015</b> ,	1.3	16
179	Seasonal Variation of Trace Elements in a Semiarid Veld Pasture. <i>Communications in Soil Science and Plant Analysis</i> , <b>2006</b> , 37, 1471-1483	1.5	16
178	Thiourea-mediated Nitric Oxide Production Enhances Tolerance to Boron Toxicity by Reducing Oxidative Stress in Bread Wheat ( <i>Triticum aestivum</i> L.) and Durum Wheat ( <i>Triticum durum</i> Desf.) Plants. <i>Journal of Plant Growth Regulation</i> , <b>2019</b> , 38, 1094-1109	4.7	16
177	Bioregulators: unlocking their potential role in regulation of the plant oxidative defense system. <i>Plant Molecular Biology</i> , <b>2021</b> , 105, 11-41	4.6	16
176	Growth stage-based modulation in physiological and biochemical attributes of two genetically diverse wheat ( <i>Triticum aestivum</i> L.) cultivars grown in salinized hydroponic culture. <i>Environmental Science and Pollution Research</i> , <b>2016</b> , 23, 6227-43	5.1	15
175	Foliar Application of Micronutrients in Mitigating Abiotic Stress in Crop Plants <b>2018</b> , 95-117		15
174	Interactive effect of drought and nitrogen on growth, some key physiological attributes and oxidative defense system in carrot ( <i>Daucus carota</i> L.) plants. <i>Scientia Horticulturae</i> , <b>2017</b> , 225, 373-379	4.1	15
173	Potential health risk assessment of potato ( <i>Solanum tuberosum</i> L.) grown on metal contaminated soils in the central zone of Punjab, Pakistan. <i>Chemosphere</i> , <b>2017</b> , 166, 157-162	8.4	15
172	Growth and photosynthesis of salt-stressed sunflower ( <i>Helianthus annuus</i> ) plants as affected by foliar-applied different potassium salts. <i>Journal of Plant Nutrition and Soil Science</i> , <b>2009</b> , 172, 884-893	2.3	15
171	Hydrogen Sulfide (H <sub>2</sub> S) Mitigates Arsenic (As)-Induced Toxicity in Pea ( <i>Pisum sativum</i> L.) Plants by Regulating Osmoregulation, Antioxidant Defense System, Ascorbate Glutathione Cycle and Glyoxalase System. <i>Journal of Plant Growth Regulation</i> , <b>2020</b> , 1	4.7	15
170	Effect of Methyl Jasmonate and Salicylic Acid on In Vitro Growth, Stevioside Production, and Oxidative Defense System in <i>Stevia rebaudiana</i> . <i>Sugar Tech</i> , <b>2019</b> , 21, 1031-1038	1.9	14
169	Evaluating sugarcane ( <i>Saccharum</i> sp.) cultivars for water deficit tolerance using some key physiological markers. <i>Plant Biotechnology</i> , <b>2012</b> , 29, 431-439	1.3	14

168	Leaf structural modifications for drought tolerance in some differentially adapted ecotypes of blue panic ( <i>Panicum antidotale</i> Retz.). <i>Acta Physiologiae Plantarum</i> , <b>2012</b> , 34, 1479-1491	2.6	14
167	CHARACTERIZATION OF ENZYME-ASSISTED COLD-PRESSED COTTONSEED OIL. <i>Journal of Food Lipids</i> , <b>2007</b> , 14, 424-436		14
166	Genetic basis of ion exclusion in salinity stressed wheat: implications in improving crop yield. <i>Plant Growth Regulation</i> , <b>2020</b> , 92, 479-496	3.2	14
165	The endogenous L-cysteine desulphydrase and hydrogen sulfide participate in supplemented phosphorus-induced tolerance to salinity stress in maize ( <i>Zeamays</i> ) plants. <i>Turkish Journal of Botany</i> , <b>2020</b> , 44, 36-46	1.3	14
164	Glycinebetaine-Induced Alteration in Gaseous Exchange Capacity and Osmoprotective Phenomena in Safflower ( <i>Carthamus tinctorius</i> L.) under Water Deficit Conditions. <i>Sustainability</i> , <b>2020</b> , 12, 10649	3.6	14
163	Evaluation of cytotoxicity and antiviral activity of ivermectin against Newcastle disease virus. <i>Pakistan Journal of Pharmaceutical Sciences</i> , <b>2015</b> , 28, 597-602	0.4	14
162	Partial and full root-zone drought stresses account for differentiate root-sourced signal and yield formation in primitive wheat. <i>Plant Methods</i> , <b>2019</b> , 15, 75	5.8	13
161	Modifications in Root and Stem Anatomy for Water Conservation in Some Diverse Blue Panic ( <i>Panicum antidotale</i> Retz.) Ecotypes Under Drought Stress. <i>Arid Land Research and Management</i> , <b>2013</b> , 27, 286-297	1.8	13
160	Potassium fertilization mitigates the adverse effects of drought on selected <i>Zea mays</i> cultivars. <i>Turkish Journal of Botany</i> , <b>2014</b> , 38, 713-723	1.3	13
159	Salt-induced modulation in some key gas exchange characteristics and ionic relations in pea ( <i>Pisum sativum</i> L.) and their use as selection criteria. <i>Crop and Pasture Science</i> , <b>2010</b> , 61, 369	2.2	13
158	Variation in Antioxidant Activity and Phenolic and Flavonoid Contents in the Flowers and Leaves of Ghaneri ( <i>Lantana camara</i> L.) as Affected by Different Extraction Solven. <i>International Journal of Pharmacology</i> , <b>2013</b> , 9, 442-453	0.7	13
157	Nitric oxide donor, sodium nitroprusside, mitigates mercury toxicity in different cultivars of soybean. <i>Journal of Hazardous Materials</i> , <b>2021</b> , 408, 124852	12.8	13
156	Impact of exogenously applied tocopherol on some key physio-biochemical and yield attributes in mungbean [ <i>Vigna radiata</i> (L.) Wilczek] under limited irrigation regimes. <i>Acta Physiologiae Plantarum</i> , <b>2018</b> , 40, 1	2.6	13
155	Does biochar accelerate the mitigation of greenhouse gaseous emissions from agricultural soil? - A global meta-analysis. <i>Environmental Research</i> , <b>2021</b> , 202, 111789	7.9	13
154	24-epibrassinolide increases growth, grain yield and EDDAP production in seeds of well-watered and moderately water-stressed grass pea. <i>Plant Growth Regulation</i> , <b>2016</b> , 78, 217-231	3.2	12
153	Ridge-furrow plastic film mulching farming for sustainable dryland agriculture on the Chinese loess plateau. <i>Agronomy Journal</i> , <b>2020</b> , 112, 3284-3294	2.2	12
152	Structural Features of Some Wheat ( <i>Triticum</i> Spp.) Landraces/Cultivars Under Drought and Salt Stress. <i>Arid Land Research and Management</i> , <b>2014</b> , 28, 355-370	1.8	12
151	Genetic Architecture of Secondary Yield Components in Mungbean ( <i>Vigna radiata</i> (L.) Wilczek).. <i>Breeding Science</i> , <b>2002</b> , 52, 235-241	2	12

150	Comparative transcriptome analysis reveals the regulatory effects of acetylcholine on salt tolerance of <i>Nicotiana benthamiana</i> . <i>Phytochemistry</i> , <b>2021</b> , 181, 112582	4	12
149	Foliar applications of alpha-tocopherol improves the composition of fresh pods of <i>Vigna radiata</i> subjected to water deficiency. <i>Turkish Journal of Botany</i> , <b>2017</b> , 41, 244-252	1.3	11
148	Mutagenic and cytotoxic potential of Endosulfan and Lambda-cyhalothrin - in vitro study describing individual and combined effects of pesticides. <i>Journal of Environmental Sciences</i> , <b>2014</b> , 26, 1471-9	6.4	11
147	Morphological Variability of <i>Prosopis cineraria</i> (L.) Druce, from the Cholistan Desert, Pakistan. <i>Genetic Resources and Crop Evolution</i> , <b>2006</b> , 53, 1589-1596	2	11
146	Assessment of physio-biochemical indicators for drought tolerance in different cultivars of maize ( <i>Zea mays</i> L.). <i>Pakistan Journal of Botany</i> , <b>2019</b> , 51,	2	11
145	Anatomical and physiological adaptations in aquatic ecotypes of <i>Cyperus alopecuroides</i> Rottb. under saline and waterlogged conditions. <i>Aquatic Botany</i> , <b>2014</b> , 116, 60-68	1.8	10
144	Exogenous glycinebetaine and humic acid improve growth, nitrogen status, photosynthesis, and antioxidant defense system and confer tolerance to nitrogen stress in maize seedlings. <i>Journal of Plant Interactions</i> , <b>2014</b> , 9, 159-166	3.8	10
143	Soil-Plant Relationships in the Arid Saline Desert of Cholistan. <i>Arid Land Research and Management</i> , <b>2013</b> , 27, 140-152	1.8	10
142	Growth response of the salt-sensitive and the salt-tolerant sugarcane genotypes to potassium nutrition under salt stress. <i>Archives of Agronomy and Soil Science</i> , <b>2012</b> , 58, 385-398	2	10
141	Ameliorative effects of potassium nutrition on yield and fiber quality characteristics of cotton ( <i>Gossypium hirsutum</i> L.) under NaCl stress. <i>Soil and Environment</i> , <b>2017</b> , 36, 51-58	2.5	10
140	Effect of salinity on yield and quality of <i>Moringa oleifera</i> seed oil. <i>Grasas Y Aceites</i> , <b>2006</b> , 57,	1.3	10
139	Response of foliar-applied nutrient solution with and without soil-applied fertilizers on growth and yield of mung bean. <i>Journal of Plant Nutrition</i> , <b>2018</b> , 41, 1083-1093	2.3	9
138	In vitro toxic action potential of anti tuberculosis drugs and their combinations. <i>Environmental Toxicology and Pharmacology</i> , <b>2013</b> , 36, 501-513	5.8	9
137	Growth enhancement in two potential cereal crops, maize and wheat, by exogenous application of glycinebetaine <b>2008</b> , 21-35		9
136	Foliar Application of 24-Epibrassinolide Improves Growth, Ascorbate-Glutathione Cycle, and Glyoxalase System in Brown Mustard (L.) Czern.) under Cadmium Toxicity. <i>Plants</i> , <b>2020</b> , 9,	4.5	9
135	Thiamin stimulates growth and secondary metabolites in turnip ( <i>Brassica rapa</i> L.) leaf and root under drought stress. <i>Physiologia Plantarum</i> , <b>2021</b> , 172, 1399-1411	4.6	9
134	Linking changes in chlorophyll a fluorescence with drought stress susceptibility in mung bean [ <i>Vigna radiata</i> (L.) Wilczek]. <i>Physiologia Plantarum</i> , <b>2021</b> , 172, 1244-1254	4.6	9
133	Pyridoxal 5'-phosphate enhances the growth and morpho-physiological characteristics of rice cultivars by mitigating the ethylene accumulation under salinity stress. <i>Plant Physiology and Biochemistry</i> , <b>2020</b> , 154, 782-795	5.4	8

132	Enhancement of anti-proliferative activities of Metformin, when combined with Celecoxib, without increasing DNA damage. <i>Environmental Toxicology and Pharmacology</i> , <b>2016</b> , 45, 227-34	5.8	8
131	Silicon application positively alters pollen grain area, osmoregulation and antioxidant enzyme activities in wheat plants under water deficit conditions. <i>Journal of Plant Nutrition</i> , <b>2019</b> , 42, 2121-2132	2.3	8
130	Structural modifications for drought tolerance in stem and leaves of <i>Cenchrus ciliaris</i> L. ecotypes from the Cholistan Desert. <i>Flora: Morphology, Distribution, Functional Ecology of Plants</i> , <b>2019</b> , 261, 151485	1.9	8
129	Improving Plant Phosphorus (P) Acquisition by Phosphate-Solubilizing Bacteria		8
128	Polarity-Based Solvents Extraction of <i>Opuntia dillenii</i> and <i>Zingiber officinale</i> for In Vitro Antimicrobial Activities. <i>International Journal of Food Properties</i> , <b>2013</b> , 16, 114-124	3	8
127	Salt tolerance and regulation of gas exchange and hormonal homeostasis by auxin-priming in wheat. <i>Pesquisa Agropecuaria Brasileira</i> , <b>2013</b> , 48, 1210-1219	1.8	8
126	Response of maize to field drought stress: oxidative defense system, osmolytes accumulation and photosynthetic pigments. <i>Pakistan Journal of Botany</i> , <b>2019</b> , 51,	2	8
125	Involvement of -Cysteine Desulphydrase and Hydrogen Sulfide in Glutathione-Induced Tolerance to Salinity by Accelerating Ascorbate-Glutathione Cycle and Glyoxalase System in. <i>Antioxidants</i> , <b>2020</b> , 9,	7.1	8
124	Drought-induced anatomical changes in radish ( <i>Raphanus sativus</i> L.) leaves supplied with trehalose through different modes. <i>Arid Land Research and Management</i> , <b>2016</b> , 30, 412-420	1.8	8
123	Comprehensive Stress-Based De Novo Transcriptome Assembly and Annotation of Guar ( <i>L.</i> Taub.): An Important Industrial and Forage Crop. <i>International Journal of Genomics</i> , <b>2019</b> , 2019, 7295859	2.5	8
122	Seed Pretreatment and Foliar Application of Proline Regulate Morphological, Physio-Biochemical Processes and Activity of Antioxidant Enzymes in Plants of Two Cultivars of Quinoa ( <i>Willd.</i> ). <i>Plants</i> , <b>2019</b> , 8,	4.5	8
121	Peroxidase activity and operation of photo-protective component of NPQ play key roles in drought tolerance of mung bean [ <i>Vigna radiata</i> (L.) Wilczek]. <i>Physiologia Plantarum</i> , <b>2021</b> , 172, 603-614	4.6	8
120	Structural and functional modifications in a typical arid zone species <i>Aristida adscensionis</i> L. along altitudinal gradient. <i>Flora: Morphology, Distribution, Functional Ecology of Plants</i> , <b>2018</b> , 249, 172-182	1.9	8
119	Risk assessment of heavy metal toxicity through contaminated vegetable from sewage water: Implications for populace health. <i>Human and Ecological Risk Assessment (HERA)</i> , <b>2016</b> , 22, 302-311	4.9	7
118	Arsenic fractionation and its impact on physiological behavior of sunflower ( <i>Helianthus annuus</i> L.) in three texturally different soils under alkaline calcareous conditions. <i>Environmental Science and Pollution Research</i> , <b>2019</b> , 26, 17438-17449	5.1	7
117	Risk Evaluation of Heavy Metals and Metalloids Toxicity through Polluted Vegetables from Waste Water Irrigated Area of Punjab, Pakistan: Implications for Public Health. <i>Human and Ecological Risk Assessment (HERA)</i> , <b>2015</b> , 21, 2062-2076	4.9	7
116	Exogenous application of L-methionine mitigates the drought-induced oddities in biochemical and anatomical responses of bitter gourd ( <i>Momordica charantia</i> L.). <i>Scientia Horticulturae</i> , <b>2020</b> , 267, 109333	4.1	7
115	Adaptations for salinity tolerance in <i>Sporobolus ioclados</i> (Nees ex Trin.) Nees from saline desert. <i>Flora: Morphology, Distribution, Functional Ecology of Plants</i> , <b>2016</b> , 223, 46-55	1.9	7

114	Comparative study of SOS2 and a novel PMP3-1 gene expression in two sunflower ( <i>Helianthus annuus</i> L.) lines differing in salt tolerance. <i>Applied Biochemistry and Biotechnology</i> , <b>2013</b> , 170, 980-7	3.2	7
113	Selection for Large Seed Size at the Seedling Stage in Mungbean ( <i>Vigna radiata</i> (L.) Wilczek). <i>Breeding Science</i> , <b>2003</b> , 53, 141-143	2	7
112	Uptake of hazardous elements by spring onion ( <i>Allium fistulosum</i> L.) from soil irrigated with different types of water and possible health risk. <i>Environmental Earth Sciences</i> , <b>2017</b> , 76, 1	2.9	6
111	Efficacy of physically pretreated <i>Mangifera indica</i> biomass for Cu <sup>2+</sup> and Zn <sup>2+</sup> sequestration. <i>Journal of Saudi Chemical Society</i> , <b>2015</b> , 19, 23-35	4.3	6
110	Exogenously applied proline induced changes in key anatomical features and physio-biochemical attributes in water stressed oat (L.) plants. <i>Physiology and Molecular Biology of Plants</i> , <b>2019</b> , 25, 1121-1135	2.8	6
109	Toxins and Their Phytoremediation <b>2010</b> , 1-32		6
108	Cotton Leaf Curl Virus: Ionic Status of Leaves and Symptom Development. <i>Journal of Integrative Plant Biology</i> , <b>2006</b> , 48, 558-562	8.3	6
107	Identification of novel source of salt tolerance in local bread wheat germplasm using morpho-physiological and biochemical attributes. <i>Scientific Reports</i> , <b>2021</b> , 11, 10854	4.9	6
106	Silicon attenuates the negative effects of chromium stress in tomato plants by modifying antioxidant enzyme activities, ascorbate-glutathione cycle and glyoxalase system. <i>Acta Physiologiae Plantarum</i> , <b>2021</b> , 43, 1	2.6	6
105	Methyl Jasmonate and Sodium Nitroprusside Jointly Alleviate Cadmium Toxicity in Wheat (L.) Plants by Modifying Nitrogen Metabolism, Cadmium Detoxification, and AsA-GSH Cycle. <i>Frontiers in Plant Science</i> , <b>2021</b> , 12, 654780	6.2	6
104	Adaptive components of tolerance to salinity in a saline desert grass <i>Lasiurus scindicus</i> Henrard. <i>Ecological Research</i> , <b>2015</b> , 30, 429-438	1.9	5
103	Evaluating pasture and soil allowance of manganese for Kajli rams grazing in semi-arid environment. <i>Tropical Animal Health and Production</i> , <b>2015</b> , 47, 563-6	1.7	5
102	Sodium Exclusion Affects Seed Yield and Physiological Traits of Wheat Genotypes Grown Under Salt Stress. <i>Journal of Soil Science and Plant Nutrition</i> , <b>2020</b> , 20, 1442-1456	3.2	5
101	Physiological adaptative characteristics of <i>Imperata cylindrica</i> for salinity tolerance. <i>Biologia (Poland)</i> , <b>2014</b> , 69, 1148-1156	1.5	5
100	Assessment of Heavy Metals and Metalloids in <i>Solanum tuberosum</i> and <i>Pisum sativum</i> Irrigated with Urban Wastewater in the Suburbs of Sargodha City, Pakistan. <i>Human and Ecological Risk Assessment (HERA)</i> , <b>2015</b> , 21, 1109-1122	4.9	5
99	Impact of cycocel on seed germination and growth in some commercial crops under osmotic stress conditions. <i>Archives of Agronomy and Soil Science</i> , <b>2014</b> , 60, 1277-1289	2	5
98	A study on the transfer of cadmium from soil to pasture under semi-arid conditions in Sargodha, Pakistan. <i>Biological Trace Element Research</i> , <b>2011</b> , 142, 143-7	4.5	5
97	Screening Pea Germplasm Against <i>Erysiphe polygoni</i> for Disease Severity and Latent Period. <i>International Journal of Vegetable Science</i> , <b>2012</b> , 18, 153-160	1.2	5



96	The Effects of Gibberellin4+7 on the Vase Life and Flower Quality of Alstroemeria Cut Flowers. <i>Plant Growth Regulation</i> , <b>2006</b> , 48, 207	3.2	5
95	Role of Glycine Betaine in the Thermotolerance of Plants. <i>Agronomy</i> , <b>2022</b> , 12, 276	3.6	5
94	5Aminolevulinic Acid Induces Regulation in Growth, Yield and Physio-Biochemical Characteristics of Wheat under Water Stress <b>2018</b> , 47, 661-670		5
93	Antioxidants as modulators of arsenic-induced oxidative stress tolerance in plants: An overview. <i>Journal of Hazardous Materials</i> , <b>2021</b> , 127891	12.8	5
92	Thiamin-induced variations in oxidative defense processes in white clover ( <i>Trifolium repens</i> L.) under water deficit stress. <i>Turkish Journal of Botany</i> , <b>2019</b> , 43, 58-66	1.3	5
91	Implication of Physiological and Biochemical Variables of Prognostic Importance in Lead Exposed Subjects. <i>Archives of Environmental Contamination and Toxicology</i> , <b>2020</b> , 78, 329-336	3.2	5
90	Nitric Oxide is Required for Aminolevulinic Acid-Induced Salt Tolerance by Lowering Oxidative Stress in Maize ( <i>Zea mays</i> ). <i>Journal of Plant Growth Regulation</i> , <b>2021</b> , 40, 617-627	4.7	5
89	Growth performance and nutritional value of salt tolerant plants growing under saline environments <b>2006</b> , 35-44		5
88	Evaluation of antiviral activity of plant extracts against foot and mouth disease virus in vitro. <i>Pakistan Journal of Pharmaceutical Sciences</i> , <b>2016</b> , 29, 1263-8	0.4	5
87	Exogenously applied glycinebetaine induced alteration in some key physio-biochemical attributes and plant anatomical features in water stressed oat ( <i>Avena sativa</i> L.) plants. <i>Journal of Arid Land</i> , <b>2019</b> , 11, 292-305	2.2	4
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83	Optimal Supply of Micronutrients Improves Drought Tolerance in Legumes <b>2012</b> , 637-657		4
82	Reuse of wastewater for irrigating tomato plants ( <i>Lycopersicon esculentum</i> L.) through silicon supplementation. <i>Journal of Water Reuse and Desalination</i> , <b>2013</b> , 3, 128-139	2.6	4
81	Assessment of Potential Toxicological Risk for Public Health of Heavy Metals in Wheat Crop Irrigated with Wastewater: A Case Study in Sargodha, Pakistan. <i>Asian Journal of Chemistry</i> , <b>2013</b> , 25, 9704-9706	0.4	4
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79	Tolerance of some potential forage grasses from arid regions of Pakistan to salinity and drought <b>2006</b> , 15-27		4

78	Influence of Glycine Betaine (Natural and Synthetic) on Growth, Metabolism and Yield Production of Drought-Stressed Maize (L.) Plants. <i>Plants</i> , <b>2021</b> , 10,	4.5	4
77	Thiamine-induced nitric oxide improves tolerance to boron toxicity in pepper plants by enhancing antioxidants. <i>Turk Tarim Ve Ormancilik Dergisi/Turkish Journal of Agriculture and Forestry</i> , <b>2020</b> , 44, 379-390	3.2	4
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69	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> , <b>2021</b> , 16, e0259585	3.7	3
68	Influence of Field Soil Drought Stress on Some Key Physiological, Yield and Quality Traits of Selected Newly-Developed Hexaploid Bread Wheat ( <i>Triticum aestivum</i> L.) Cultivars <b>2018</b> , 47, 2625-2635		3
67	Sustainable Agriculture Through Integrated Soil Fertility Management on Degraded Lands <b>2013</b> , 759-768		3
66	Advances in Salt Tolerance of Some Major Fiber Crops Through Classical and Advanced Biotechnological Tools: A Review. <i>Journal of Plant Growth Regulation</i> , <b>2021</b> , 40, 891-905	4.7	3
65	Pyramiding of toxins and methanol producing genes to increase insect resistance in cotton. <i>GM Crops and Food</i> , <b>2021</b> , 12, 382-395	2.7	3
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63	Biodegradation by Co-inoculated Bacteria and Fungi Alleviates Adverse Effects of Red-S3B on Growth and Nitrogen Uptake of Wheat. <i>Clean - Soil, Air, Water</i> , <b>2020</b> , 48, 1900305	1.6	2
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55	Structural and Functional Determinants of Physiological Pliability in <i>Kyllinga brevifolia</i> Rottb. for Survival in Hyper-Saline Saltmarshes. <i>Water, Air, and Soil Pollution</i> , <b>2021</b> , 232, 1	2.6	2
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53	A quadruple blinded placebo controlled randomised trial to evaluate the effectiveness of an Iodine complex for patients with mild to moderate COVID-19 in Pakistan (I-COVID-PK): A structured summary of a study protocol for a randomised controlled trial. <i>Trials</i> , <b>2021</b> , 22, 127	2.8	2
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50	Is Photoprotection of PSII One of the Key Mechanisms for Drought Tolerance in Maize?. <i>International Journal of Molecular Sciences</i> , <b>2021</b> , 22,	6.3	2
49	Potential usage of antioxidants, hormones and plant extracts <b>2016</b> , 124-141		1
48	Modern Tools for Enhancing Crop Adaptation to Climatic Changes <b>2014</b> , 143-157		1
47	Characterization of Pea Germplasm. <i>International Journal of Vegetable Science</i> , <b>2011</b> , 17, 246-258	1.2	1
46	A pharmacological evidence for the presence of antihistaminic and anticholinergic activities in Roxb. <i>Indian Journal of Pharmacology</i> , <b>2017</b> , 49, 98-101	2.5	1
45	Sodium hydrosulfite together with silicon detoxifies arsenic toxicity in tomato plants by modulating the AsA-GSH cycle. <i>Environmental Pollution</i> , <b>2021</b> , 294, 118608	9.3	1
44	Structural responses of differentially adapted <i>Cenchrus setigerus</i> Vahl ecotypes to water deficit. <i>Environmental and Experimental Botany</i> , <b>2021</b> , 104746	5.9	1
43	Yield and Yield Components at Various Flower Flushes in Mungbeam( <i>Vigna radiata</i> (L.) Wilczek).. <i>Breeding Science</i> , <b>2002</b> , 52, 61-63	2	1

42	An in vitro antiviral activity of iodine complexes against SARS-CoV-2. <i>Archives of Microbiology</i> , <b>2021</b> , 203, 4743-4749	3	1
41	Protein profiling analysis of <i>Gossypium hirsutum</i> (Malvales: Malvaceae) leaves infested by cotton whitefly <i>Bemisia tabaci</i> (Homoptera: Aleyrodidae). <i>Applied Entomology and Zoology</i> , <b>2016</b> , 51, 599-607	1.5	1
40	Ensuring Food Security of Arid Regions through Sustainable Cultivation of Halophytes <b>2021</b> , 2191-2210		1
39	Phytochemical composition and In-vitro activity of ethanolic extract of <i>Eucalyptus globulus</i> leaves against multidrug resistant poultry pathogens. <i>Cellular and Molecular Biology</i> , <b>2021</b> , 67, 159-164	1.1	1
38	Alteration in soil arsenic dynamics and toxicity to sunflower ( <i>Helianthus annuus</i> L.) in response to phosphorus in different textured soils. <i>Chemosphere</i> , <b>2022</b> , 287, 132406	8.4	1
37	Knowledge, attitude, and practice of clinicians about antimicrobial stewardship and resistance among hospitals of Pakistan: a multicenter cross-sectional study. <i>Environmental Science and Pollution Research</i> , <b>2021</b> , 1	5.1	1
36	Growth, yield and arsenic accumulation by wheat grown in a pressmud amended salt-affected soil irrigated with arsenic contaminated water. <i>Ecotoxicology and Environmental Safety</i> , <b>2021</b> , 224, 112692	7	1
35	Hematologic adverse effects and efficacy monitoring in chronic Hepatitis C patients treated with interferon and ribavirin combination therapy. <i>Pakistan Journal of Pharmaceutical Sciences</i> , <b>2017</b> , 30, 11-16	0.4	1
34	Effects on Photosynthetic Response and Biomass Productivity of ssp. Under Elevated CO and Water-Limited Regimes.. <i>Frontiers in Plant Science</i> , <b>2022</b> , 13, 817730	6.2	1
33	Tartaric acid soil-amendment increases phytoextraction potential through root to shoot transfer of lead in turnip.. <i>Chemosphere</i> , <b>2022</b> , 296, 134055	8.4	1
32	Clinical efficacy of iodine complex in SARS-CoV-2-infected patients with mild to moderate symptoms: study protocol for a randomized controlled trial.. <i>Trials</i> , <b>2022</b> , 23, 58	2.8	0
31	Contribution of structural and functional modifications to wide distribution of Bermuda grass <i>Cynodon dactylon</i> (L) Pers.. <i>Flora: Morphology, Distribution, Functional Ecology of Plants</i> , <b>2022</b> , 286, 1519-1539	1.9	0
30	The combined supplementation of melatonin and salicylic acid effectively detoxifies arsenic toxicity by modulating phytochelatins and nitrogen metabolism in pepper plants.. <i>Environmental Pollution</i> , <b>2021</b> , 118727	9.3	0
29	Growth, Yield and Physiological Characteristics of Maize ( <i>Zea mays</i> L.) at Two Different Soil Moisture Regimes by Supplying Silicon and Chitosan. <i>Silicon</i> , 1	2.4	0
28	Micro-morphological response of some native dicotyledonous species to particulate pollutants emitted from stone crushing activities. <i>Environmental Science and Pollution Research</i> , <b>2021</b> , 28, 25529-25541	5.1	0
27	Chlorophyll fluorescence, ion uptake, and osmoregulation are potential indicators for detecting ecotypic variation in salt tolerance of <i>Panicum antidotale</i> Retz*View all notes. <i>Arid Land Research and Management</i> , 1-25	1.8	0
26	Development and Characterization of Efficient K-Solubilizing Rhizobacteria and Mesorhizobial Inoculants for Chickpea. <i>Sustainability</i> , <b>2021</b> , 13, 10240	3.6	0
25	Endogenous nitric oxide and its potential sources regulate glutathione-induced cadmium stress tolerance in maize plants. <i>Plant Physiology and Biochemistry</i> , <b>2021</b> , 167, 723-737	5.4	0

24	Assessment of heterosis proteins in maize ( <i>Zea mays</i> L.) leaves by two-dimensional gel electrophoresis. <i>Plant Gene</i> , <b>2021</b> , 28, 100331	3.1	○
23	Fullerenol [60] Nano-cages for Protection of Crops Against Oxidative Stress: A Critical Review. <i>Journal of Plant Growth Regulation</i> ,1	4.7	○
22	Structural and functional responses in widespread distribution of some dominant grasses along climatic elevation gradients. <i>Flora: Morphology, Distribution, Functional Ecology of Plants</i> , <b>2022</b> , 289, 152034	1.9	○
21	Contribution of structural and functional adaptations of hyper-accumulator <i>Suaeda vera</i> Forssk. ex J.F. Gmel. for adaptability across salinity gradients in hot desert.. <i>Environmental Science and Pollution Research</i> , <b>2022</b> , 1	5.1	○
20	Anatomical and physiological features modulate ion homeostasis and osmoregulation in aquatic halophyte <i>Fimbristylis complanata</i> (Retz.) link. <i>Acta Physiologiae Plantarum</i> , <b>2022</b> , 44, 1	2.6	○
19	Survival strategies in two high altitude Sorghum species from western Himalayas. <i>Acta Physiologiae Plantarum</i> , <b>2022</b> , 44, 1	2.6	○
18	Ridge-Furrow Mulching Enhances Capture and Utilization of Rainfall for Improved Maize Production under Rain-Fed Conditions. <i>Agronomy</i> , <b>2022</b> , 12, 1187	3.6	○
17	Thiamin stimulates growth, yield quality and key biochemical processes of cauliflower ( <i>Brassica oleracea</i> L. var. Botrytis) under arid conditions. <i>PLoS ONE</i> , <b>2022</b> , 17, e0266372	3.7	○
16	Evaluation of molybdenum status of cows: the use of blood plasma and milk as indicators under semi-arid environmental conditions in Punjab, Pakistan. <i>Biological Trace Element Research</i> , <b>2011</b> , 143, 226-30	4.5	
15	Pathogenicity and Characterization of Geographically Distributed Isolates of <i>Erysiphe polygoni</i> . <i>International Journal of Vegetable Science</i> , <b>2012</b> , 18, 211-222	1.2	
14	Modulation in Plant Micro-structures Through Soil Physicochemical Properties Determines Survival of <i>Salsola imbricata</i> Forssk. in Hypersaline Environments. <i>Journal of Soil Science and Plant Nutrition</i> , <b>2022</b> , 22, 861	3.2	
13	Ensuring Food Security of Arid Regions through Sustainable Cultivation of Halophytes <b>2020</b> , 1-21		
12	Activity of ethanolic extract of <i>Eucalyptus globulus</i> leaves against multi drug resistant poultry pathogens in broiler chicks. <i>Cellular and Molecular Biology</i> , <b>2021</b> , 67, 153-158	1.1	
11	Structural and functional responses in sun spurge ( <i>Euphorbia helioscopia</i> L.) against post-emergence herbicides in wheat ( <i>Triticum aestivum</i> L.). <i>Weed Research</i> , <b>2021</b> , 61, 126-136	1.9	
10	Stomatal State Identification and Classification in Quinoa Microscopic Imprints through Deep Learning. <i>Complexity</i> , <b>2021</b> , 2021, 1-9	1.6	
9	Adaptive strategies for ecological fitness in <i>Calotropis procera</i> (Aiton) W. T. Aiton. <i>Arid Land Research and Management</i> ,1-27	1.8	
8	Photosynthetic Efficiency and Antioxidant Defense Potential are Key Players in Inducing Drought Tolerance in Transgenic Tobacco Plants Over-Expressing AVP1. <i>Journal of Plant Growth Regulation</i> ,1	4.7	
7	Transferring of <i>Lactobacillus</i> antibiotic resistant genes to <i>Salmonella</i> . <i>Abasyn Journal of Life Sciences</i> , <b>2021</b> , 145-151	○	

6	Distribution and antibiotic sensitivity pattern of Mycobacterium tuberculosis isolates from children, enrolled in a tertiary care hospital. <i>Pakistan Journal of Pharmaceutical Sciences</i> , <b>2021</b> , 34, 761-765	0.4
5	Appraisal of anti-mycobacterial potential against MDR-MTB in pediatric patients, cytotoxicity and mutagenicity of Aloe vera and Allium sativum. <i>Pakistan Journal of Pharmaceutical Sciences</i> , <b>2021</b> , 34, 257-263	0.4
4	Foliar application of nano-zinc oxide crystals improved zinc biofortification in cauliflower (Brassica oleracea L. var. botrytis). <i>Applied Nanoscience (Switzerland)</i> ,1	3.3
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1	Integrated hormonal and nutrient management promote fruit retention and quality traits of Citrus reticulata. <i>Journal of Plant Nutrition</i> ,1-18	2.3