Vijay Pratap Singh

List of Publications by Year
in descending order

204 papers	17,726 citations	38660 50 h-index	15683 125 g-index
230 all docs	230 docs citations	230 times ranked	17948 citing authors

#	Article	IF	Citations
1	A review of drought concepts. Journal of Hydrology, 2010, 391, 202-216.	2.3	3,361
2	Nitric Oxide Ameliorates Zinc Oxide Nanoparticles Phytotoxicity in Wheat Seedlings: Implication of the Ascorbateâ€"Glutathione Cycle. Frontiers in Plant Science, 2017, 8, 1.	1.7	1,394
3	Arsenic contamination, consequences and remediation techniques: A review. Ecotoxicology and Environmental Safety, 2015, 112, 247-270.	2.9	863
4	Effect of salinity stress on plants and its tolerance strategies: a review. Environmental Science and Pollution Research, 2015, 22, 4056-4075.	2.7	845
5	Heavy Metal Tolerance in Plants: Role of Transcriptomics, Proteomics, Metabolomics, and Ionomics. Frontiers in Plant Science, 2015, 6, 1143.	1.7	817
6	An overview on manufactured nanoparticles in plants: Uptake, translocation, accumulation and phytotoxicity. Plant Physiology and Biochemistry, 2017, 110, 2-12.	2.8	579
7	Roles of osmoprotectants in improving salinity and drought tolerance in plants: a review. Reviews in Environmental Science and Biotechnology, 2015, 14, 407-426.	3.9	433
8	Silicon nanoparticles more effectively alleviated UV-B stress than silicon in wheat (Triticum aestivum) seedlings. Plant Physiology and Biochemistry, 2017, 110, 70-81.	2.8	411
9	Silicon nanoparticles (SiNp) alleviate chromium (VI) phytotoxicity in Pisum sativum (L.) seedlings. Plant Physiology and Biochemistry, 2015, 96, 189-198.	2.8	407
10	Toxicity of aluminium on various levels of plant cells and organism: A review. Environmental and Experimental Botany, 2017, 137, 177-193.	2.0	343
11	Nitric oxide alleviates silver nanoparticles (AgNps)-induced phytotoxicity in Pisum sativum seedlings. Plant Physiology and Biochemistry, 2017, 110, 167-177.	2.8	291
12	Uncovering Potential Applications of Cyanobacteria and Algal Metabolites in Biology, Agriculture and Medicine: Current Status and Future Prospects. Frontiers in Microbiology, 2017, 8, 515.	1.5	264
13	Reactive Oxygen Species (ROS): Beneficial Companions of Plantsâ€™ Developmental Processes. Frontiers in Plant Science, 2016, 7, 1299.	1.7	261
14	Uptake, Accumulation and Toxicity of Silver Nanoparticle in Autotrophic Plants, and Heterotrophic Microbes: A Concentric Review. Frontiers in Microbiology, 2017, 08, 07.	1.5	254
15	Silicon Nanoparticles More Efficiently Alleviate Arsenate Toxicity than Silicon in Maize Cultiver and Hybrid Differing in Arsenate Tolerance. Frontiers in Environmental Science, 2016, 4, .	1.5	253
16	Phase 4 Trial of Miltefosine for the Treatment of Indian Visceral Leishmaniasis. Journal of Infectious Diseases, 2007, 196, 591-598.	1.9	226
17	Hydrogen sulfide alleviates toxic effects of arsenate in pea seedlings through up-regulation of the ascorbateâ€"glutathione cycle: Possible involvement of nitric oxide. Journal of Plant Physiology, 2015, 181, 20-29.	1.6	212
18	Impact of exogenous silicon addition on chromium uptake, growth, mineral elements, oxidative stress, antioxidant capacity, and leaf and root structures in rice seedlings exposed to hexavalent chromium. Acta Physiologiae Plantarum, 2012, 34, 279-289.	1.0	196

#	Article	IF	Citations
19	Micronutrients and their diverse role in agricultural crops: advances and future prospective. Acta Physiologiae Plantarum, 2015, 37, 1.	1.0	160
20	Silicon-mediated alleviation of Cr(VI) toxicity in wheat seedlings as evidenced by chlorophyll florescence, laser induced breakdown spectroscopy and anatomical changes. Ecotoxicology and Environmental Safety, 2015, 113, 133-144.	2.9	152
21	Differential Phytotoxic Impact of Plant Mediated Silver Nanoparticles (AgNPs) and Silver Nitrate (AgNO3) on Brassica sp.. Frontiers in Plant Science, 2017, 8, 1501.	1.7	137
22	Revisiting the role of ROS and RNS in plants under changing environment. Environmental and Experimental Botany, 2019, 161, 1-3.	2.0	136
23	Rice seedlings under cadmium stress: effect of silicon on growth, cadmium uptake, oxidative stress, antioxidant capacity and root and leaf structures. Chemistry and Ecology, 2012, 28, 281-291.	0.6	129
24	Acquisition and Homeostasis of Iron in Higher Plants and Their Probable Role in Abiotic Stress Tolerance. Frontiers in Environmental Science, 0, 5, .	1.5	128
25	Reactive oxygen species signaling and stomatal movement: Current updates and future perspectives. Redox Biology, 2017, 11, 213-218.	3.9	126
26	Nitric oxide alleviates arsenic-induced toxic effects in ridged Luffa seedlings. Plant Physiology and Biochemistry, 2013, 71, 155-163.	2.8	122
27	Singleâ€Dose Liposomal Amphotericin B in the Treatment of Visceral Leishmaniasis in India: A Multicenter Study. Clinical Infectious Diseases, 2003, 37, 800-804.	2.9	121
28	Morpho-anatomical and biochemical adapting strategies of maize (Zea mays L.) seedlings against lead and chromium stresses. Biocatalysis and Agricultural Biotechnology, 2015, 4, 286-295.	1.5	121
29	Distributed Multi-Agent System-Based Load Frequency Control for Multi-Area Power System in Smart Grid. IEEE Transactions on Industrial Electronics, 2017, 64, 5151-5160.	5.2	119
30	Crosstalk between nitric oxide (NO) and abscisic acid (ABA) signalling molecules in higher plants. Environmental and Experimental Botany, 2019, 161, 41-49.	2.0	109
31	Indole acetic acid differently changes growth and nitrogen metabolism in Pisum sativum L. seedlings under chromium (VI) phytotoxicity: Implication of oxidative stress. Scientia Horticulturae, 2011, 129, 321-328.	1.7	102
32	Effect of 5-sulfosalicylic acid on antioxidant activity in relation to vase life of Gladiolus cut flowers. Plant Growth Regulation, 2007, 51, 99-108.	1.8	100
33	Exogenous proline application ameliorates toxic effects of arsenate in Solanum melongena L. seedlings. Ecotoxicology and Environmental Safety, 2015, 117, 164-173.	2.9	99
34	Understanding the plant and nanoparticle interface at transcriptomic and proteomic level: A concentric overview. Plant Gene, 2017, 11, 265-272.	1.4	95
35	Influence of Exogenous Silicon Addition on Aluminium Tolerance in Rice Seedlings. Biological Trace Element Research, 2011, 144, 1260-1274.	1.9	94
36	Nitric oxide and hydrogen sulfide: an indispensable combination for plant functioning. Trends in Plant Science, 2021, 26, 1270-1285.	4.3	90

#	Article	IF	Citations
37	New adventitious root formation and primary root biomass accumulation are regulated by nitric oxide and reactive oxygen species in rice seedlings under arsenate stress. Journal of Hazardous Materials, 2019, 361, 134-140.	6.5	87
38	Modification of chromium (VI) phytotoxicity by exogenous gibberellic acid application in Pisum sativum (L.) seedlings. Acta Physiologiae Plantarum, 2011, 33, 1385-1397.	1.0	86
39	Responses of photosynthesis, nitrogen and proline metabolism to salinity stress in Solanum lycopersicum under different levels of nitrogen supplementation. Plant Physiology and Biochemistry, 2016, 109, 72-83.	2.8	84
40	Impact of Nanoparticles on Photosynthesis: Challenges and Opportunities. Materials Focus, 2016, 5, 405-411.	0.4	81
41	Investigating the roles of ascorbate-glutathione cycle and thiol metabolism in arsenate tolerance in ridged Luffa seedlings. Protoplasma, 2015, 252, 1217-1229.	1.0	76
42	LIB spectroscopic and biochemical analysis to characterize lead toxicity alleviative nature of silicon in wheat (Triticum aestivum L.) seedlings. Journal of Photochemistry and Photobiology B: Biology, 2016, 154, 89-98.	1.7	75
43	Aluminum toxicity and aluminum stress-induced physiological tolerance responses in higher plants. Critical Reviews in Biotechnology, 2021, 41, 715-730.	5.1	73
44	Transcriptional regulation of salinity stress in plants: A short review. Plant Gene, 2017, 11, 160-169.	1.4	69
45	Effect of the addition of conductive powder in dielectric on the surface properties of superalloy Super Co 605 by EDM process. International Journal of Advanced Manufacturing Technology, 2015, 77, 99-106.	1.5	68
46	Exogenous nitric oxide requires endogenous hydrogen sulfide to induce the resilience through sulfur assimilation in tomato seedlings under hexavalent chromium toxicity. Plant Physiology and Biochemistry, 2020, 155, 20-34.	2.8	66
47	A brief appraisal of ethylene signaling under abiotic stress in plants. Plant Signaling and Behavior, 2020, 15, 1782051.	1.2	64
48	Regulation of ascorbate-glutathione cycle by exogenous nitric oxide and hydrogen peroxide in soybean roots under arsenate stress. Journal of Hazardous Materials, 2021, 409, 123686.	6.5	59
49	Optimization of Parameters Using Conductive Powder in Dielectric for EDM of Super Co 605 with Multiple Quality Characteristics. Materials and Manufacturing Processes, 2014, 29, 267-273.	2.7	58
50	Hydrogen sulfide and nitric oxide signal integration and plant development under stressed/nonâ€stressed conditions. Physiologia Plantarum, 2020, 168, 239-240.	2.6	58
51	Interactive Effect of Silicon (Si) and Salicylic Acid (SA) in Maize Seedlings and Their Mechanisms of Cadmium (Cd) Toxicity Alleviation. Journal of Plant Growth Regulation, 2019, 38, 1587-1597.	2.8	55
52	Silicon crosstalk with reactive oxygen species, phytohormones and other signaling molecules. Journal of Hazardous Materials, 2021, 408, 124820.	6.5	55
53	Regulation of cadmium toxicity in roots of tomato by indole acetic acid with special emphasis on reactive oxygen species production and their scavenging. Plant Physiology and Biochemistry, 2019, 142, 193-201.	2.8	54
54	Avenues of the membrane transport system in adaptation of plants to abiotic stresses. Critical Reviews in Biotechnology, 2019, 39, 861-883.	5.1	53

#	Article	IF	Citations
55	Silicon induces adventitious root formation in rice under arsenate stress with involvement of nitric oxide and indole-3-acetic acid. Journal of Experimental Botany, 2021, 72, 4457-4471.	2.4	53
56	Nitric oxide (NO) and salicylic acid (SA): A framework for their relationship in plant development under abiotic stress. Plant Biology, 2021, 23, 39-49.	1.8	51
57	Differential effect of UV-B radiation on growth, oxidative stress and ascorbateâ€"glutathione cycle in two cyanobacteria under copper toxicity. Plant Physiology and Biochemistry, 2012, 61, 61-70.	2.8	50
58	Differential physiological and biochemical responses of two cyanobacteria Nostoc muscorum and Phormidium foveolarum against oxyfluorfen and UV-B radiation. Ecotoxicology and Environmental Safety, 2011, 74, 1981-1993.	2.9	49
59	Nitrogen alleviates salinity toxicity in Solanum lycopersicum seedlings by regulating ROS homeostasis. Plant Physiology and Biochemistry, 2019, 141, 466-476.	2.8	48
60	Dimethoate modifies enhanced UV-B effects on growth, photosynthesis and oxidative stress in mung bean (Vigna radiata L.) seedlings: Implication of salicylic acid. Pesticide Biochemistry and Physiology, 2014, 116, 13-23.	1.6	47
61	Auxin metabolic network regulates the plant response to metalloids stress. Journal of Hazardous Materials, 2021, 405, 124250.	6.5	47
62	Synergistic action of silicon nanoparticles and indole acetic acid in alleviation of chromium (CrVI) toxicity in Oryza sativa seedlings. Journal of Biotechnology, 2022, 343, 71-82.	1.9	47
63	Silicon and plant growth promoting rhizobacteria differentially regulate AgNP-induced toxicity in Brassica juncea: Implication of nitric oxide. Journal of Hazardous Materials, 2020, 390, 121806.	6.5	46
64	Structural modifications of plant organs and tissues by metals and metalloids in the environment: A review. Plant Physiology and Biochemistry, 2021, 159, 100-112.	2.8	46
65	Light Intensity Alters the Extent of Arsenic Toxicity in Helianthus annuus L. Seedlings. Biological Trace Element Research, 2014, 158, 410-421.	1.9	45
66	Sulphur alters chromium (VI) toxicity in Solanum melongena seedlings: Role of sulphur assimilation and sulphur-containing antioxidants. Plant Physiology and Biochemistry, 2017, 112, 183-192.	2.8	45
67	Involvement of nitrate reductaseâ€dependent nitric oxide production in magnetoprimingâ€induced salt tolerance in soybean. Physiologia Plantarum, 2020, 168, 422-436.	2.6	44
68	Application of zinc oxide nanoparticles as fertilizer boosts growth in rice plant and alleviates chromium stress by regulating genes involved in oxidative stress. Chemosphere, 2022, 303, 134554.	4.2	44
69	Modulation of manganese toxicity in Pisum sativum L. seedlings by kinetin. Scientia Horticulturae, 2010, 126, 467-474.	1.7	42
70	Role of Macronutrients in Plant Growth and Acclimation: Recent Advances and Future Prospective. , 2014, , 197-216.		42
71	Reference evapotranspiration under changing climate overÂtheÂTharÂDesertÂinÂIndia. Meteorological Applications, 2015, 22, 425-435.	0.9	42
72	Nitric oxide in plants: an ancient molecule with new tasks. Plant Growth Regulation, 2020, 90, 1-13.	1.8	42

#	ARTICLE	IF	CITATIONS
73	Plant Responses to Metal Stress. , 2014, , 215-248.		41
74	Morpho-physiological traits associated with reproductive stage drought tolerance of rice (Oryza) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 7 Physiology, 2014, 19, 87-93.	0.8	41
75	Assessment of Antioxidant Potential of Plants in Response to Heavy Metals. , 2016, , 97-125.		41
76	Retrograde signaling between plastid and nucleus: A review. Journal of Plant Physiology, 2015, 181, 55-66.	1.6	39
77	Silicon and nitric oxideâ€mediated mechanisms of cadmium toxicity alleviation in wheat seedlings. Physiologia Plantarum, 2022, 174, .	2.6	39
78	Effect of Nitric Oxide on Seed Germination and Seedling Development of Tomato Under Chromium Toxicity. Journal of Plant Growth Regulation, 2021, 40, 2358-2370.	2.8	39
79	Changing scenario in plant UV-B research:UV-B from a generic stressor to a specific regulator. Journal of Photochemistry and Photobiology B: Biology, 2015, 153, 334-343.	1.7	38
80	Additional calcium and sulfur manages hexavalent chromium toxicity in Solanum lycopersicum L. and Solanum melongena L. seedlings by involving nitric oxide. Journal of Hazardous Materials, 2020, 398, 122607.	6.5	38
81	Nitric oxide ameliorates aluminium toxicity in Anabaena PCC 7120: Regulation of aluminium accumulation, exopolysaccharides secretion, photosynthesis and oxidative stress markers. Environmental and Experimental Botany, 2019, 161, 218-227.	2.0	36
82	Glutathione and hydrogen sulfide are required for sulfurâ€mediated mitigation of Cr(VI) toxicity in tomato, pea and brinjal seedlings. Physiologia Plantarum, 2020, 168, 406-421.	2.6	35
83	Heavy metal induced regulation of plant biology: Recent insights. Physiologia Plantarum, 2022, 174, e13688.	2.6	35
84	Differential responses of pea seedlings to indole acetic acid under manganese toxicity. Acta Physiologiae Plantarum, 2011, 33, 451-462.	1.0	34
85	Effect of Arsenic on Growth, Arsenic Uptake, Distribution of Nutrient Elements and Thiols in Seedlings of<i>Wrightia arborea</i>(Dennst.) Mabb.. International Journal of Phytoremediation, 2015, 17, 128-134.	1.7	33
86	Liquid assisted pulsed laser ablation synthesized copper oxide nanoparticles (CuO-NPs) and their differential impact on rice seedlings. Ecotoxicology and Environmental Safety, 2019, 176, 321-329.	2.9	33
87	Nitrogen modifies NaCl toxicity in eggplant seedlings: Assessment of chlorophyll a fluorescence, antioxidative response and proline metabolism. Biocatalysis and Agricultural Biotechnology, 2016, 7, 76-86.	1.5	32
88	Role of salicylic acid-seed priming in the regulation of chromium (VI) and UV-B toxicity in maize seedlings. Plant Growth Regulation, 2016, 78, 79-91.	1.8	32
89	Mitigation of arsenate toxicity by indole-3-acetic acid in brinjal roots: Plausible association with endogenous hydrogen peroxide. Journal of Hazardous Materials, 2021, 405, 124336.	6.5	31
90	Role of Silicon in Enrichment of Plant Nutrients and Protection from Biotic and Abiotic Stresses. , 2014, , 39-56.		30

#	ARTICLE	IF	CITATIONS
91	NaCl-induced physiological and biochemical changes in two cyanobacteria Nostoc muscorum and Phormidium foveolarum acclimatized to different photosynthetically active radiation. Journal of Photochemistry and Photobiology B: Biology, 2015, 151, 221-232.	1.7	30
92	Kinetin Regulates UV-B-Induced Damage to Growth, Photosystem II Photochemistry, and Nitrogen Metabolism in Tomato Seedlings. Journal of Plant Growth Regulation, 2018, 37, 233-245.	2.8	30
93	The role of abscisic acid (ABA) in ethylene insensitive Gladiolus (Gladiolus grandiflora Hort.) flower senescence. Acta Physiologiae Plantarum, 2014, 36, 151-159.	1.0	29
94	Ascorbic acid is essential for inducing chromium (VI) toxicity tolerance in tomato roots. Journal of Biotechnology, 2020, 322, 66-73.	1.9	29
95	Hydrogen sulfide (H2S) underpins the beneficial silicon effects against the copper oxide nanoparticles (CuO NPs) phytotoxicity in Oryza sativa seedlings. Journal of Hazardous Materials, 2021, 415, 124907.	6.5	29
96	Assessment of terminal heat tolerance ability of wheat genotypes based on physiological traits using multivariate analysis. Acta Physiologiae Plantarum, 2015, 37, 1.	1.0	28
97	Physiological and biochemical characterization of two Amaranthus species under Cr(VI) stress differing in Cr(VI) tolerance. Plant Physiology and Biochemistry, 2016, 108, 12-23.	2.8	28
98	Induction of water deficit tolerance in wheat due to exogenous application of plant growth regulators: membrane stability, water relations and photosynthesis. Photosynthetica, 2018, 56, 478-486.	0.9	28
99	Nitric oxide-mediated regulation of sub-cellular chromium distribution, ascorbateâ€"glutathione cycle and glutathione biosynthesis in tomato roots under chromium (VI) toxicity. Journal of Biotechnology, 2020, 318, 68-77.	1.9	28
100	Differential physiological and biochemical responses of two Vigna species under enhanced UV-B radiation. Journal of Radiation Research and Applied Sciences, 2015, 8, 173-181.	0.7	27
101	Silicon tackles butachlor toxicity in rice seedlings by regulating anatomical characteristics, ascorbate-glutathione cycle, proline metabolism and levels of nutrients. Scientific Reports, 2020, 10, 14078.	1.6	27
102	Intraspecific Variation in Nitrogen Uptake and Nitrogen Utilization Efficiency in Wheat (Triticum) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 3	1.7	26
103	Cysteine Protease Gene Expression and Proteolytic Activity During Floral Development and Senescence in Ethylene-insensitive Gladiolus grandiflora. Journal of Plant Biochemistry and Biotechnology, 2004, 13, 123-126.	0.9	26
104	UV-B induces biomass production and nonenzymatic antioxidant compounds in three cyanobacteria. Journal of Applied Phycology, 2016, 28, 131-140.	1.5	26
105	NO and ROS implications in the organization of root system architecture. Physiologia Plantarum, 2020, 168, 473-489.	2.6	26
106	Implication of nitric oxide and hydrogen sulfide signalling in alleviating arsenate stress in rice seedlings. Environmental Pollution, 2021, 291, 117958.	3.7	26
107	Ethylene and hydrogen sulphide are essential for mitigating hexavalent chromium stress in two pulse crops. Plant Biology, 2022, 24, 652-659.	1.8	25
108	Silicon nanoforms in crop improvement and stress management. Chemosphere, 2022, 305, 135165.	4.2	25

#	Article	IF	Citations
109	Silicon in plant biology: from past to present, and future challenges. Journal of Experimental Botany, 2020, 71, 6699-6702.	2.4	24
110	Implication of Nitric Oxide Under Salinity Stress: The Possible Interaction with Other Signaling Molecules. Journal of Plant Growth Regulation, 2022, 41, 163-177.	2.8	24
111	Understanding the Role of Gibberellic Acid and Paclobutrazol in Terminal Heat Stress Tolerance in Wheat. Frontiers in Plant Science, 2021, 12, 692252.	1.7	24
112	Mitigation of chromium (VI) toxicity by additional sulfur in some vegetable crops involves glutathione and hydrogen sulfide. Plant Physiology and Biochemistry, 2020, 155, 952-964.	2.8	23
113	Nanoparticles as a potential protective agent for arsenic toxicity alleviation in plants. Environmental Pollution, 2022, 300, 118887.	3.7	23
114	High Light Intensity Augments Mercury Toxicity in Cyanobacterium Nostoc muscorum. Biological Trace Element Research, 2012, 149, 262-272.	1.9	21
115	Effect of exogenous application of salicylic acid and oxalic acid on post harvest shelf-life of tomato (Solanum lycopersicon L.). Indian Journal of Plant Physiology, 2013, 18, 15-21.	0.8	21
116	Ethylene needs endogenous hydrogen sulfide for alleviating hexavalent chromium stress in Vigna mungo L. and Vigna radiata L.. Environmental Pollution, 2021, 290, 117968.	3.7	21
117	Experimental Investigations of Abrasive Mixed Electro Discharge Diamond Grinding of Nimonic 80A. Materials and Manufacturing Processes, 2016, 31, 1718-1723.	2.7	18
118	Micro RNAs and nitric oxide cross talk in stress tolerance in plants. Plant Growth Regulation, 2017, 83, 199-205.	1.8	18
119	Dose dependent differential effects of toxic metal cadmium in tomato roots: Role of endogenous hydrogen sulfide. Ecotoxicology and Environmental Safety, 2020, 203, 110978.	2.9	18
120	Assessment of genetic diversity, and phylogenetic relationships based on ribosomal DNA repeat unit length variation and Internal Transcribed Spacer (ITS) sequences in chickpea (Cicer arietinum) cultivars and its wild species. Genetic Resources and Crop Evolution, 2008, 55, 65-79.	0.8	17
121	Compatibility of ascorbate-glutathione cycle enzymes in cyanobacteria against low and high UV-B exposures, simultaneously exposed to low and high doses of chlorpyrifos. Ecotoxicology and Environmental Safety, 2012, 83, 79-88.	2.9	17
122	Editorial: Phytohormones and the Regulation of Stress Tolerance in Plants: Current Status and Future Directions. Frontiers in Plant Science, 2017, 8, 1871.	1.7	17
123	Interaction of Copper Oxide Nanoparticles With Plants. , 2018, , 297-310.		17
124	Microprojectile based particle bombardment in development of transgenic indica rice involving AmSOD gene to impart tolerance to salinity. Plant Gene, 2019, 19, 100183.	1.4	16
125	Silica nanoparticles: the rising star in plant disease protection. Trends in Plant Science, 2022, 27, 7-9.	4.3	16
126	Nano-priming: Impression on the beginner of plant life. Plant Stress, 2022, 5, 100091.	2.7	16

#	Article	IF	Citations
127	Light intensity determines the extent of mercury toxicity in the cyanobacterium Nostoc muscorum. Acta Physiologiae Plantarum, 2012, 34, 1119-1131.	1.0	15
128	A Robust Helical Abrasive Flow Machining (HLX-AFM) Process. Journal of the Institution of Engineers (India): Series C, 2013, 94, 21-29.	0.7	15
129	Kinetin Alleviates UV-B-Induced Damage in Solanum lycopersicum: Implications of Phenolics and Antioxidants. Journal of Plant Growth Regulation, 2019, 38, 831-841.	2.8	15
130	Responses of Pisum sativum L. to Exogenous Indole Acetic Acid Application Under Manganese Toxicity. Bulletin of Environmental Contamination and Toxicology, 2011, 86, 605-609.	1.3	14
131	Differential effects of UV-B radiation fluence rates on growth, photosynthesis, and phosphate metabolism in two cyanobacteria under copper toxicity. Toxicological and Environmental Chemistry, 2012, 94, 1511-1535.	0.6	14
132	A controlled, randomized nonblinded clinical trial to assess the efficacy of amphotericin B deoxycholate as compared to pentamidine for the treatment of antimony unresponsive visceral leishmaniasis cases in Bihar, India. Therapeutics and Clinical Risk Management, 2009, 5, 117-24.	0.9	14
133	Impact of low and high fluence rates of UV-B radiation on growth and oxidative stress in Phormidium foveolarum and Nostoc muscorum under copper toxicity: differential display of antioxidants system. Acta Physiologiae Plantarum, 2012, 34, 2225-2239.	1.0	13
134	A segmental duplication in the common ancestor of Brassicaceae is responsible for the origin of the paralogs KCS6-KCS5, which are not shared with other angiosperms. Molecular Phylogenetics and Evolution, 2018, 126, 331-345.	1.2	13
135	Priming of tomato seedlings with 2â€oxoglutarate induces arsenic toxicity alleviatory responses by involving endogenous nitric oxide. Physiologia Plantarum, 2021, 173, 45-57.	2.6	13
136	Polyols Regulate the Flower Senescence by Delaying Programmed Cell Death in Gladiolus. Journal of Plant Biochemistry and Biotechnology, 2006, 15, 139-142.	0.9	12
137	Low and high doses of UV-B differentially modulate chlorpyrifos-induced alterations in nitrogen metabolism of cyanobacteria. Ecotoxicology and Environmental Safety, 2014, 107, 291-299.	2.9	12
138	Photoreceptors mapping from past history till date. Journal of Photochemistry and Photobiology B: Biology, 2016, 162, 223-231.	1.7	12
139	Endogenous reduced ascorbate: an indicator of plant water deficit stress in wheat. Indian Journal of Plant Physiology, 2017, 22, 365-368.	0.8	12
140	Magnetopriming effects on arsenic stressâ€induced morphological and physiological variations in soybean involving synchrotron imaging. Physiologia Plantarum, 2021, 173, 88-99.	2.6	12
141	Cytokinin alleviates cypermethrin toxicity in Nostoc muscorum by involving nitric oxide: Regulation of exopolysaccharides secretion, PS II photochemistry and reactive oxygen species homeostasis. Chemosphere, 2020, 259, 127356.	4.2	12
142	Silicon and nitric oxide interplay alleviates copper induced toxicity in mung bean seedlings. Plant Physiology and Biochemistry, 2021, 167, 713-722.	2.8	12
143	GABA Requires Nitric Oxide for Alleviating Arsenate Stress in Tomato and Brinjal Seedlings. Journal of Plant Growth Regulation, 2023, 42, 670-683.	2.8	12
144	Cytology of the genus Artemisia (Anthemidae, Asteraceae) in the Western Himalayas. Biologia (Poland), 2014, 69, 1134-1141.	0.8	11

#	Article	IF	Citations
145	Development of novel SSR markers for evaluation of genetic diversity and population structure in Tribulus terrestris L. (Zygophyllaceae). 3 Biotech, 2016, 6, 156.	1.1	11
146	Differential accumulation of Î²-carotene and tissue specific expression of phytoene synthase (MaPsy) gene in banana (Musa sp) cultivars. Journal of Food Science and Technology, 2017, 54, 4416-4426.	1.4	11
147	New chromosome reports in Lamiaceae of Kashmir (Northwest Himalaya), India. Protoplasma, 2017, 254, 971-985.	1.0	11
148	An investigation on involvement of the ascorbate-glutathione cycle in modulating NaCl toxicity in two cyanobacteria photoacclimatized to different photosynthetic active radiation. Algal Research, 2018, 32, 70-78.	2.4	11
149	An Appraisal of Ancient Molecule GABA in Abiotic Stress Tolerance in Plants, and Its Crosstalk with Other Signaling Molecules. Journal of Plant Growth Regulation, 2023, 42, 614-629.	2.8	11
150	Kinetin Supplementation Modifies Chromium (VI) Induced Alterations in Growth and Ammonium Assimilation in Pea Seedlings. Biological Trace Element Research, 2011, 144, 1327-1343.	1.9	10
151	Cytokinin enhanced biomass and yield in wheat by improving N-metabolism under water limited environment. Indian Journal of Plant Physiology, 2015, 20, 31-38.	0.8	10
152	Oocyte-specific deletion of Hdac8 in mice reveals stage-specific effects on fertility. Reproduction, 2019, 157, 305-316.	1.1	10
153	Iron oxide nanoparticles impart cross tolerance to arsenate stress in rice roots through involvement of nitric oxide. Environmental Pollution, 2022, 307, 119320.	3.7	10
154	Exogenous addition of silicon alleviates metsulfuron methyl induced stress in wheat seedlings. Plant Physiology and Biochemistry, 2021, 167, 705-712.	2.8	9
155	UV-B induced differential effect on growth and nitrogen metabolism in two cyanobacteria under copper toxicity. Cellular and Molecular Biology, 2012, 58, 85-95.	0.3	8
156	Histochemical Techniques in Plant Science: More Than Meets the Eye. Plant and Cell Physiology, 2021, 62, 1509-1527.	1.5	7
157	Ascorbate and glutathione independently alleviate arsenate toxicity in brinjal but both require endogenous nitric oxide. Physiologia Plantarum, 2021, 173, 276-286.	2.6	7
158	Micro-Hardness and Machined Surface Damage Study for Continuous and Discontinuous Ultrasonic Vibration Assisted Electrical Discharge Machining. Materials and Manufacturing Processes, 0, , .	2.7	7
159	RIPK: a crucial ROS signaling component in plants. Trends in Plant Science, 2022, 27, 214-216.	4.3	7
160	Hydrogen sulfide manages hexavalent chromium toxicity in wheat and rice seedlings: The role of sulfur assimilation and ascorbate-glutathione cycle. Environmental Pollution, 2022, 307, 119509.	3.7	7
161	Influence of Low Light Irradiance on Grain Filling in Rice (Oryza saliva L.) cultivars. Journal of Agronomy and Crop Science, 1996, 176, 1-4.	1.7	6
162	An Integrated Transcriptomic, Proteomic, and Metabolomic Approach to Unravel the Molecular Mechanisms of Metal Stress Tolerance in Plants. , 2019, , 1-28.		6

#	Article	IF	Citations
163	IAPT chromosome data 30. Taxon, 2019, 68, 1124-1130.	0.4	6
164	Comparative sequence analysis across Brassicaceae, regulatory diversity in KCS5 and KCS6 homologs from Arabidopsis thaliana and Brassica juncea, and intronic fragment as a negative transcriptional regulator. Gene Expression Patterns, 2020, 38, 119146.	0.3	6
165	Robust Load Frequency Control of Interconnected Power System in Smart Grid. IETE Journal of Research, 2023, 69, 5351-5363.	1.8	6
166	Hot and dry: how plants can thrive in future climates. Plant Cell Reports, 2022, 41, 497-499.	2.8	6
167	Nitric oxide and hydrogen peroxide independently act in mitigating chromium stress in Triticum aestivum L. seedlings: Regulation of cell death, chromium uptake, antioxidant system, sulfur assimilation and proline metabolism. Plant Physiology and Biochemistry, 2022, 183, 76-84.	2.8	6
168	Development and characterization of novel microsatellite markers in Trillium govanianum: a threatened plant species from North-Western Himalaya. 3 Biotech, 2017, 7, 190.	1.1	5
169	Male Meiotic Studies in 29 Species of Lamiaceae from Sirmaur District of Himachal Pradesh, India. Cytologia, 2018, 83, 235-243.	0.2	5
170	Metalloids in plants: A systematic discussion beyond description. Annals of Applied Biology, 2022, 180, 7-25.	1.3	5
171	Comparison of Key Mineral Elements in Wild Edible Fruits of Ziziphus Mauritiana and Z. Nummularia Using Atomic Absorption Spectrophotometer (AAS) and Flame Photometer. International Journal of Fruit Science, 2020, 20, S987-S994.	1.2	5
172	Endogenous indoleâ€3â€acetic acid and nitric oxide are required for calciumâ€mediated alleviation of copper oxide nanoparticles toxicity in wheat seedlings. Physiologia Plantarum, 2021, 173, 2262-2275.	2.6	5
173	Meiotic Studies in Some Species of Tribe Cichorieae (Asteraceae) from Western Himalayas. Scientific World Journal, The, 2014, 2014, 1-9.	0.8	4
174	Arsenite: the umpire of arsenate perception and responses in plants. Trends in Plant Science, 2022, 27, 420-422.	4.3	4
175	Hydrogen sulphide ameliorates hexavalent chromium toxicity in two cereal crops: Role of antioxidant enzymes and proline metabolism. Plant Biology, 2022, 24, 636-641.	1.8	4
176	Hypothermia slows sequential and parallel steps initiated during caerulein pancreatitis. Pancreatology, 2014, 14, 459-464.	0.5	3
177	Antioxidant System Against Active Oxygen Species in Cyanobacterium Aphanothece stagnina: Response to Excess Light Under Cadmium Stress. Proceedings of the National Academy of Sciences India Section B - Biological Sciences, 2015, 85, 535-543.	0.4	3
178	PSO-Based: MARL Approach for Frequency Regulation of Multi-area Power System. Journal of Electrical Engineering and Technology, 2020, 15, 1529-1539.	1.2	3
179	Metalloids in plant biology: New avenues in their research. Journal of Hazardous Materials, 2022, 422, 126738.	6.5	3
180	New and Varied Chromosome Reports in Twenty-Six Species of the Family Asteraceae from Cold Deserts of the Western Himalaya. Cytologia, 2018, 83, 215-220.	0.2	3

#	Article	IF	Citations
181	HPCA1 and HSL3: two plasma membrane proteins that probably cooperate to modulate H2O2 signalling under drought conditions. Plant Growth Regulation, 2022, 98, 1-3.	1.8	3
182	Salicylic acid influences biochemical characteristics of harvested tomato (Solanum lycopersicon L.) during ripening. Indian Journal of Plant Physiology, 2016, 21, 50-55.	0.8	2
183	Analysis of chickpea gene co-expression networks and pathways during heavy metal stress. Journal of Biosciences, 2019, 44, 1.	0.5	2
184	Priming-mediated abiotic stress management in plants: Recent avenues and future directions. Plant Stress, 2022, 5, 100097.	2.7	2
185	Chlorophyll and Proline as Affected by Moisture Stress in Young and Mature Leaf Tissues of Brassica carinata Hybrids and Their Parents. Journal of Agronomy and Crop Science, 1998, 180, 123-126.	1.7	1
186	Physiological Factors Limiting Grain Growth in Wheat Ears Cultured in Sucrose Solution. Journal of Agronomy and Crop Science, 1998, 181, 7-11.	1.7	1
187	Anomalous Chromosomal Behaviour and Chromosomal Data in Some Members of Subclass Gamopetalae from District Hamirpur (H. P.), India. Cytologia, 2016, 81, 25-34.	0.2	1
188	Comparative expression profiling of AtRAD5B and AtNDL1: Hints towards a role in G protein mediated signaling. Gene Expression Patterns, 2017, 25-26, 167-174.	0.3	1
189	Effects of exogenously applied plant growth regulators on the physiology and anti-oxidant activity of wheat under water deficit condition. Plant Physiology Reports, 2019, 24, 54-62.	0.7	1
190	Genotoxic effect of fruit extract of wild and cultivated cucurbits using Allium cepa assay. International Journal of Vegetable Science, 0, , 1-13.	0.6	1
191	Male Meiotic Studies in Six Species of <i>Pedicularis</i> L. from Churdhar and Adjoining Hills of Sirmaur District (H. P.), India. Cytologia, 2019, 84, 233-236.	0.2	1
192	Selenium uptake and immobilization using indigenous <i>Bacillus</i> strain isolated from seleniferous soils of Punjab. Bioremediation Journal, 2023, 27, 434-442.	1.0	1
193	Differential expression of thermophilic phosphatases in the wild type and auxotrophic mutant strains of Thermoactinomyces vulgaris. Indian Journal of Microbiology, 2007, 47, 81-85.	1.5	0
194	Cytogenetic Variation among Populations of <i>Aster thomsonii</i> C. B. Clarke from District Sirmaur, Himachal Pradesh (India). Cytologia, 2015, 80, 81-87.	0.2	0
195	Meiotic and Ethnobotanical Studies on <i>Rheum</i> Species from Kashmir Himalaya. Cytologia, 2016, 81, 295-300.	0.2	0
196	Male meiosis in 18 species of 07 genera of the tribe Astereae (Asteraceae) from Western Himalaya. Nucleus (India), 2018, 61, 95-104.	0.9	0
197	Impact of Demand Response in Integartion of Renewable Energy Resources in Smart Grid. , 2019, , .		0
198	Full sunlight acclimation mechanisms in Riccia discolor thalli: Assessment at morphological, anatomical, and biochemical levels. Journal of Photochemistry and Photobiology B: Biology, 2020, 210, 111983.	1.7	0

#	Article	IF	Citations
199	Data on optimization of microprojectile bombardment parameters in development of salinity tolerant transgenic lines. Data in Brief, 2020, 29, 105305.	0.5	0
200	New avenues of silicon research in plant biology. Plant Physiology and Biochemistry, 2021, 167, 955-957.	2.8	0
201	Chapter 4 Silicon: A Potential Element to Impart Resistance to Photosynthetic Machinery under Different Abiotic Stresses. , 2016, , 67-82.		0
202	Analysis of chickpea gene co-expression networks and pathways during heavy metal stress. Journal of Biosciences, 2019, 44, .	0.5	0
203	Emerging role of hydrogen sulphide as a signalling molecule in plant biology. Plant Biology, 2022, 24, 521-522.	1.8	0
204	Functional characterization of novel phosphate solubilizing bacteria, Chryseomicrobium imtechense, for enhanced strawberry growth and yield parameters. Arabian Journal of Geosciences, 2022, 15, .	0.6	0