

Vijay Pratap Singh

List of Publications by Citations

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215
papers

11,568
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h-index

105
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229
ext. papers

14,077
ext. citations

4.9
avg, IF

6.97
L-index

#	Paper	IF	Citations
215	A review of drought concepts. <i>Journal of Hydrology</i> , 2010 , 391, 202-216	6	2417
214	Nitric Oxide Ameliorates Zinc Oxide Nanoparticles Phytotoxicity in Wheat Seedlings: Implication of the Ascorbate-Glutathione Cycle. <i>Frontiers in Plant Science</i> , 2017 , 8, 1	6.2	759
213	Arsenic contamination, consequences and remediation techniques: a review. <i>Ecotoxicology and Environmental Safety</i> , 2015 , 112, 247-70	7	650
212	Effect of salinity stress on plants and its tolerance strategies: a review. <i>Environmental Science and Pollution Research</i> , 2015 , 22, 4056-75	5.1	509
211	Heavy Metal Tolerance in Plants: Role of Transcriptomics, Proteomics, Metabolomics, and Ionomics. <i>Frontiers in Plant Science</i> , 2015 , 6, 1143	6.2	507
210	An overview on manufactured nanoparticles in plants: Uptake, translocation, accumulation and phytotoxicity. <i>Plant Physiology and Biochemistry</i> , 2017 , 110, 2-12	5.4	416
209	Silicon nanoparticles (SiNp) alleviate chromium (VI) phytotoxicity in <i>Pisum sativum</i> (L.) seedlings. <i>Plant Physiology and Biochemistry</i> , 2015 , 96, 189-98	5.4	290
208	Silicon nanoparticles more effectively alleviated UV-B stress than silicon in wheat (<i>Triticum aestivum</i>) seedlings. <i>Plant Physiology and Biochemistry</i> , 2017 , 110, 70-81	5.4	281
207	Roles of osmoprotectants in improving salinity and drought tolerance in plants: a review. <i>Reviews in Environmental Science and Biotechnology</i> , 2015 , 14, 407-426	13.9	253
206	Toxicity of aluminium on various levels of plant cells and organism: A review. <i>Environmental and Experimental Botany</i> , 2017 , 137, 177-193	5.9	235
205	Nitric oxide alleviates silver nanoparticles (AgNps)-induced phytotoxicity in <i>Pisum sativum</i> seedlings. <i>Plant Physiology and Biochemistry</i> , 2017 , 110, 167-177	5.4	228
204	Phase 4 trial of miltefosine for the treatment of Indian visceral leishmaniasis. <i>Journal of Infectious Diseases</i> , 2007 , 196, 591-8	7	194
203	Reactive Oxygen Species (ROS): Beneficial Companions of Plants' Developmental Processes. <i>Frontiers in Plant Science</i> , 2016 , 7, 1299	6.2	192
202	Uptake, Accumulation and Toxicity of Silver Nanoparticle in Autotrophic Plants, and Heterotrophic Microbes: A Concentric Review. <i>Frontiers in Microbiology</i> , 2017 , 8, 07	5.7	182
201	Silicon Nanoparticles More Efficiently Alleviate Arsenate Toxicity than Silicon in Maize Cultivar and Hybrid Differing in Arsenate Tolerance. <i>Frontiers in Environmental Science</i> , 2016 , 4,	4.8	181
200	Uncovering Potential Applications of Cyanobacteria and Algal Metabolites in Biology, Agriculture and Medicine: Current Status and Future Prospects. <i>Frontiers in Microbiology</i> , 2017 , 8, 515	5.7	177
199	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. <i>Acta Physiologiae Plantarum</i> , 2012 , 34, 279-289	2.6	155

198	Hydrogen sulfide alleviates toxic effects of arsenate in pea seedlings through up-regulation of the ascorbate-glutathione cycle: Possible involvement of nitric oxide. <i>Journal of Plant Physiology</i> , 2015 , 181, 20-9	3.6	154
197	Silicon-mediated alleviation of Cr(VI) toxicity in wheat seedlings as evidenced by chlorophyll fluorescence, laser induced breakdown spectroscopy and anatomical changes. <i>Ecotoxicology and Environmental Safety</i> , 2015 , 113, 133-44	7	121
196	Rice seedlings under cadmium stress: effect of silicon on growth, cadmium uptake, oxidative stress, antioxidant capacity and root and leaf structures. <i>Chemistry and Ecology</i> , 2012 , 28, 281-291	2.3	115
195	Single-dose liposomal amphotericin B in the treatment of visceral leishmaniasis in India: a multicenter study. <i>Clinical Infectious Diseases</i> , 2003 , 37, 800-4	11.6	105
194	Nitric oxide alleviates arsenic-induced toxic effects in ridged Luffa seedlings. <i>Plant Physiology and Biochemistry</i> , 2013 , 71, 155-63	5.4	102
193	Micronutrients and their diverse role in agricultural crops: advances and future prospective. <i>Acta Physiologiae Plantarum</i> , 2015 , 37, 1	2.6	91
192	Morpho-anatomical and biochemical adapting strategies of maize (<i>Zea mays</i> L.) seedlings against lead and chromium stresses. <i>Biocatalysis and Agricultural Biotechnology</i> , 2015 , 4, 286-295	4.2	90
191	Differential Phytotoxic Impact of Plant Mediated Silver Nanoparticles (AgNPs) and Silver Nitrate (AgNO) on sp. <i>Frontiers in Plant Science</i> , 2017 , 8, 1501	6.2	89
190	Understanding the plant and nanoparticle interface at transcriptomic and proteomic level: A concentric overview. <i>Plant Gene</i> , 2017 , 11, 265-272	3.1	81
189	Indole acetic acid differently changes growth and nitrogen metabolism in <i>Pisum sativum</i> L. seedlings under chromium (VI) phytotoxicity: Implication of oxidative stress. <i>Scientia Horticulturae</i> , 2011 , 129, 321-328	4.1	78
188	Influence of exogenous silicon addition on aluminium tolerance in rice seedlings. <i>Biological Trace Element Research</i> , 2011 , 144, 1260-74	4.5	78
187	Reactive oxygen species signaling and stomatal movement: Current updates and future perspectives. <i>Redox Biology</i> , 2017 , 11, 213-218	11.3	77
186	Distributed Multi-Agent System-Based Load Frequency Control for Multi-Area Power System in Smart Grid. <i>IEEE Transactions on Industrial Electronics</i> , 2017 , 64, 5151-5160	8.9	73
185	Revisiting the role of ROS and RNS in plants under changing environment. <i>Environmental and Experimental Botany</i> , 2019 , 161, 1-3	5.9	73
184	Exogenous proline application ameliorates toxic effects of arsenate in <i>Solanum melongena</i> L. seedlings. <i>Ecotoxicology and Environmental Safety</i> , 2015 , 117, 164-73	7	70
183	Impact of Nanoparticles on Photosynthesis: Challenges and Opportunities. <i>Materials Focus</i> , 2016 , 5, 405-411		69
182	Acquisition and Homeostasis of Iron in Higher Plants and Their Probable Role in Abiotic Stress Tolerance. <i>Frontiers in Environmental Science</i> , 2018 , 5,	4.8	67
181	Effect of 5-sulfosalicylic acid on antioxidant activity in relation to vase life of <i>Gladiolus</i> cut flowers. <i>Plant Growth Regulation</i> , 2007 , 51, 99-108	3.2	67

180	Investigating the roles of ascorbate-glutathione cycle and thiol metabolism in arsenate tolerance in ridged <i>Luffa</i> seedlings. <i>Protoplasma</i> , 2015 , 252, 1217-29	3.4	63
179	Modification of chromium (VI) phytotoxicity by exogenous gibberellic acid application in <i>Pisum sativum</i> (L.) seedlings. <i>Acta Physiologiae Plantarum</i> , 2011 , 33, 1385-1397	2.6	63
178	Crosstalk between nitric oxide (NO) and abscisic acid (ABA) signalling molecules in higher plants. <i>Environmental and Experimental Botany</i> , 2019 , 161, 41-49	5.9	60
177	New adventitious root formation and primary root biomass accumulation are regulated by nitric oxide and reactive oxygen species in rice seedlings under arsenate stress. <i>Journal of Hazardous Materials</i> , 2019 , 361, 134-140	12.8	57
176	Responses of photosynthesis, nitrogen and proline metabolism to salinity stress in <i>Solanum lycopersicum</i> under different levels of nitrogen supplementation. <i>Plant Physiology and Biochemistry</i> , 2016 , 109, 72-83	5.4	57
175	LIB spectroscopic and biochemical analysis to characterize lead toxicity alleviative nature of silicon in wheat (<i>Triticum aestivum</i> L.) seedlings. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2016 , 154, 89-98	6.7	56
174	Differential effect of UV-B radiation on growth, oxidative stress and ascorbate-glutathione cycle in two cyanobacteria under copper toxicity. <i>Plant Physiology and Biochemistry</i> , 2012 , 61, 61-70	5.4	42
173	Dimethoate modifies enhanced UV-B effects on growth, photosynthesis and oxidative stress in mung bean (<i>Vigna radiata</i> L.) seedlings: implication of salicylic acid. <i>Pesticide Biochemistry and Physiology</i> , 2014 , 116, 13-23	4.9	40
172	Light intensity alters the extent of arsenic toxicity in <i>Helianthus annuus</i> L. seedlings. <i>Biological Trace Element Research</i> , 2014 , 158, 410-21	4.5	40
171	Differential physiological and biochemical responses of two cyanobacteria <i>Nostoc muscorum</i> and <i>Phormidium foveolarum</i> against oxyfluorfen and UV-B radiation. <i>Ecotoxicology and Environmental Safety</i> , 2011 , 74, 1981-93	7	40
170	Effect of the addition of conductive powder in dielectric on the surface properties of superalloy Super Co 605 by EDM process. <i>International Journal of Advanced Manufacturing Technology</i> , 2015 , 77, 99-106	3.2	39
169	Optimization of Parameters Using Conductive Powder in Dielectric for EDM of Super Co 605 with Multiple Quality Characteristics. <i>Materials and Manufacturing Processes</i> , 2014 , 29, 267-273	4.1	37
168	Modulation of manganese toxicity in <i>Pisum sativum</i> L. seedlings by kinetin. <i>Scientia Horticulturae</i> , 2010 , 126, 467-474	4.1	37
167	Regulation of cadmium toxicity in roots of tomato by indole acetic acid with special emphasis on reactive oxygen species production and their scavenging. <i>Plant Physiology and Biochemistry</i> , 2019 , 142, 193-201	5.4	35
166	Plant Responses to Metal Stress: The Emerging Role of Plant Growth Hormones in Toxicity Alleviation 2014 , 215-248		34
165	Avenues of the membrane transport system in adaptation of plants to abiotic stresses. <i>Critical Reviews in Biotechnology</i> , 2019 , 39, 861-883	9.4	32
164	Retrograde signaling between plastid and nucleus: A review. <i>Journal of Plant Physiology</i> , 2015 , 181, 55-66	6.6	32
163	Reference evapotranspiration under changing climate over the Thar Desert in India. <i>Meteorological Applications</i> , 2015 , 22, 425-435	2.1	31

162	Transcriptional regulation of salinity stress in plants: A short review. <i>Plant Gene</i> , 2017 , 11, 160-169	3.1	30
161	Morpho-physiological traits associated with reproductive stage drought tolerance of rice (<i>Oryza sativa</i> L.) genotypes under rain-fed condition of eastern Indo-Gangetic Plain. <i>Indian Journal of Plant Physiology</i> , 2014 , 19, 87-93		30
160	Sulphur alters chromium (VI) toxicity in <i>Solanum melongena</i> seedlings: Role of sulphur assimilation and sulphur-containing antioxidants. <i>Plant Physiology and Biochemistry</i> , 2017 , 112, 183-192	5.4	29
159	Interactive Effect of Silicon (Si) and Salicylic Acid (SA) in Maize Seedlings and Their Mechanisms of Cadmium (Cd) Toxicity Alleviation. <i>Journal of Plant Growth Regulation</i> , 2019 , 38, 1587-1597	4.7	29
158	Silicon and plant growth promoting rhizobacteria differentially regulate AgNP-induced toxicity in <i>Brassica juncea</i> : Implication of nitric oxide. <i>Journal of Hazardous Materials</i> , 2020 , 390, 121806	12.8	29
157	Changing scenario in plant UV-B research:UV-B from a generic stressor to a specific regulator. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2015 , 153, 334-43	6.7	27
156	Exogenous nitric oxide requires endogenous hydrogen sulfide to induce the resilience through sulfur assimilation in tomato seedlings under hexavalent chromium toxicity. <i>Plant Physiology and Biochemistry</i> , 2020 , 155, 20-34	5.4	27
155	Effect of Arsenic on Growth, Arsenic Uptake, Distribution of Nutrient Elements and Thiols in Seedlings of <i>Wrightia arborea</i> (Dennst.) Mabb. <i>International Journal of Phytoremediation</i> , 2015 , 17, 128-34	3.9	26
154	Nitrogen modifies NaCl toxicity in eggplant seedlings: Assessment of chlorophyll a fluorescence, antioxidative response and proline metabolism. <i>Biocatalysis and Agricultural Biotechnology</i> , 2016 , 7, 76-86	4.2	26
153	Silicon and nitric oxide-mediated mechanisms of cadmium toxicity alleviation in wheat seedlings. <i>Physiologia Plantarum</i> , 2020 ,	4.6	26
152	Kinetin Regulates UV-B-Induced Damage to Growth, Photosystem II Photochemistry, and Nitrogen Metabolism in Tomato Seedlings. <i>Journal of Plant Growth Regulation</i> , 2018 , 37, 233-245	4.7	26
151	Role of Silicon in Enrichment of Plant Nutrients and Protection from Biotic and Abiotic Stresses 2014 , 39-56		25
150	Liquid assisted pulsed laser ablation synthesized copper oxide nanoparticles (CuO-NPs) and their differential impact on rice seedlings. <i>Ecotoxicology and Environmental Safety</i> , 2019 , 176, 321-329	7	24
149	NaCl-induced physiological and biochemical changes in two cyanobacteria <i>Nostoc muscorum</i> and <i>Phormidium foveolarum</i> acclimatized to different photosynthetically active radiation. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2015 , 151, 221-32	6.7	24
148	Role of salicylic acid-seed priming in the regulation of chromium (VI) and UV-B toxicity in maize seedlings. <i>Plant Growth Regulation</i> , 2016 , 78, 79-91	3.2	24
147	Assessment of Antioxidant Potential of Plants in Response to Heavy Metals 2016 , 97-125		24
146	Differential responses of pea seedlings to indole acetic acid under manganese toxicity. <i>Acta Physiologiae Plantarum</i> , 2011 , 33, 451-462	2.6	23
145	Physiological and biochemical characterization of two <i>Amaranthus</i> species under Cr(VI) stress differing in Cr(VI) tolerance. <i>Plant Physiology and Biochemistry</i> , 2016 , 108, 12-23	5.4	23

144	Regulation of ascorbate-glutathione cycle by exogenous nitric oxide and hydrogen peroxide in soybean roots under arsenate stress. <i>Journal of Hazardous Materials</i> , 2021 , 409, 123686	12.8	23
143	Nitric oxide and hydrogen sulfide: an indispensable combination for plant functioning. <i>Trends in Plant Science</i> , 2021 , 26, 1270-1285	13.1	23
142	Differential physiological and biochemical responses of two Vigna species under enhanced UV-B radiationPeer review under responsibility of The Egyptian Society of Radiation Sciences and Applications.View all notes. <i>Journal of Radiation Research and Applied Sciences</i> , 2015 , 8, 173-181	1.5	22
141	Nitric oxide in plants: an ancient molecule with new tasks. <i>Plant Growth Regulation</i> , 2020 , 90, 1-13	3.2	22
140	Nitrogen alleviates salinity toxicity in Solanum lycopersicum seedlings by regulating ROS homeostasis. <i>Plant Physiology and Biochemistry</i> , 2019 , 141, 466-476	5.4	21
139	Silicon as a beneficial element to combat the adverse effect of drought in agricultural crops 2016 , 682-694		21
138	Nitric oxide ameliorates aluminium toxicity in Anabaena PCC 7120: Regulation of aluminium accumulation, exopolysaccharides secretion, photosynthesis and oxidative stress markers. <i>Environmental and Experimental Botany</i> , 2019 , 161, 218-227	5.9	21
137	Intraspecific Variation in Nitrogen Uptake and Nitrogen Utilization Efficiency in Wheat (Triticum aestivum L.). <i>Journal of Agronomy and Crop Science</i> , 2001 , 186, 239-244	3.9	20
136	Silicon induces adventitious root formation in rice under arsenate stress with involvement of nitric oxide and indole-3-acetic acid. <i>Journal of Experimental Botany</i> , 2021 , 72, 4457-4471	7	20
135	UV-B induces biomass production and nonenzymatic antioxidant compounds in three cyanobacteria. <i>Journal of Applied Phycology</i> , 2016 , 28, 131-140	3.2	19
134	Cysteine Protease Gene Expression and Proteolytic Activity During Floral Development and Senescence in Ethylene-insensitive Gladiolus grandiflora. <i>Journal of Plant Biochemistry and Biotechnology</i> , 2004 , 13, 123-126	1.6	19
133	A brief appraisal of ethylene signaling under abiotic stress in plants. <i>Plant Signaling and Behavior</i> , 2020 , 15, 1782051	2.5	19
132	Auxin metabolic network regulates the plant response to metalloids stress. <i>Journal of Hazardous Materials</i> , 2021 , 405, 124250	12.8	19
131	Additional calcium and sulfur manages hexavalent chromium toxicity in Solanum lycopersicum L. and Solanum melongena L. seedlings by involving nitric oxide. <i>Journal of Hazardous Materials</i> , 2020 , 398, 122607	12.8	18
130	The role of abscisic acid (ABA) in ethylene insensitive Gladiolus (Gladiolus grandiflora Hort.) flower senescence. <i>Acta Physiologiae Plantarum</i> , 2014 , 36, 151-159	2.6	18
129	High light intensity augments mercury toxicity in cyanobacterium Nostoc muscorum. <i>Biological Trace Element Research</i> , 2012 , 149, 262-72	4.5	18
128	Silicon crosstalk with reactive oxygen species, phytohormones and other signaling molecules. <i>Journal of Hazardous Materials</i> , 2021 , 408, 124820	12.8	18
127	Involvement of nitrate reductase-dependent nitric oxide production in magnetopriming-induced salt tolerance in soybean. <i>Physiologia Plantarum</i> , 2020 , 168, 422-436	4.6	17

126	Induction of water deficit tolerance in wheat due to exogenous application of plant growth regulators: membrane stability, water relations and photosynthesis. <i>Photosynthetica</i> , 2018 , 56, 478-486	2.2	16
125	Aluminum toxicity and aluminum stress-induced physiological tolerance responses in higher plants. <i>Critical Reviews in Biotechnology</i> , 2021 , 41, 715-730	9.4	16
124	Abiotic Stress, Generation of Reactive Oxygen Species, and Their Consequences	23-50	16
123	Effect of exogenous application of salicylic acid and oxalic acid on post harvest shelf-life of tomato (<i>Solanum lycopersicon</i> L.). <i>Indian Journal of Plant Physiology</i> , 2013 , 18, 15-21		15
122	Experimental Investigations of Abrasive Mixed Electro Discharge Diamond Grinding of Nimonic 80A. <i>Materials and Manufacturing Processes</i> , 2016 , 31, 1718-1723	4.1	14
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. <i>Ecotoxicology and Environmental Safety</i> , 2012 , 83, 79-88	7	14
120	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. <i>Therapeutics and Clinical Risk Management</i> , 2009 , 5, 117-24	2.9	14
119	Micro RNAs and nitric oxide cross talk in stress tolerance in plants. <i>Plant Growth Regulation</i> , 2017 , 83, 199-205	3.2	13
118	Microprojectile based particle bombardment in development of transgenic indica rice involving AmSOD gene to impart tolerance to salinity. <i>Plant Gene</i> , 2019 , 19, 100183	3.1	13
117	Glutathione and hydrogen sulfide are required for sulfur-mediated mitigation of Cr(VI) toxicity in tomato, pea and brinjal seedlings. <i>Physiologia Plantarum</i> , 2020 , 168, 406-421	4.6	13
116	Light intensity determines the extent of mercury toxicity in the cyanobacterium <i>Nostoc muscorum</i> . <i>Acta Physiologiae Plantarum</i> , 2012 , 34, 1119-1131	2.6	13
115	Hydrogen sulfide (HS) underpins the beneficial silicon effects against the copper oxide nanoparticles (CuO NPs) phytotoxicity in <i>Oryza sativa</i> seedlings. <i>Journal of Hazardous Materials</i> , 2021 , 415, 124907	12.8	13
114	Interaction of Copper Oxide Nanoparticles With Plants	2018, 297-310	12
113	Role of Macronutrients in Plant Growth and Acclimation: Recent Advances and Future Prospective	2014, 197-216	12
112	Impact of low and high fluence rates of UV-B radiation on growth and oxidative stress in <i>Phormidium foveolarum</i> and <i>Nostoc muscorum</i> under copper toxicity: differential display of antioxidants system. <i>Acta Physiologiae Plantarum</i> , 2012 , 34, 2225-2239	2.6	12
111	Nitric oxide (NO) and salicylic acid (SA): A framework for their relationship in plant development under abiotic stress. <i>Plant Biology</i> , 2021 , 23 Suppl 1, 39-49	3.7	12
110	Mitigation of arsenate toxicity by indole-3-acetic acid in brinjal roots: Plausible association with endogenous hydrogen peroxide. <i>Journal of Hazardous Materials</i> , 2021 , 405, 124336	12.8	12
109	New chromosome reports in Lamiaceae of Kashmir (Northwest Himalaya), India. <i>Protoplasma</i> , 2017 , 254, 971-985	3.4	11

108	Assessment of terminal heat tolerance ability of wheat genotypes based on physiological traits using multivariate analysis. <i>Acta Physiologiae Plantarum</i> , 2015 , 37, 1	2.6	11
107	Low and high doses of UV-B differentially modulate chlorpyrifos-induced alterations in nitrogen metabolism of cyanobacteria. <i>Ecotoxicology and Environmental Safety</i> , 2014 , 107, 291-9	7	11
106	Differential effects of UV-B radiation fluence rates on growth, photosynthesis, and phosphate metabolism in two cyanobacteria under copper toxicity. <i>Toxicological and Environmental Chemistry</i> , 2012 , 94, 1511-1535	1.4	11
105	Responses of <i>Pisum sativum</i> L. to exogenous indole acetic acid application under manganese toxicity. <i>Bulletin of Environmental Contamination and Toxicology</i> , 2011 , 86, 605-9	2.7	11
104	Assessment of genetic diversity, and phylogenetic relationships based on ribosomal DNA repeat unit length variation and Internal Transcribed Spacer (ITS) sequences in chickpea (<i>Cicer arietinum</i>) cultivars and its wild species. <i>Genetic Resources and Crop Evolution</i> , 2008 , 55, 65-79	2	11
103	Nitric oxide-mediated regulation of sub-cellular chromium distribution, ascorbate-glutathione cycle and glutathione biosynthesis in tomato roots under chromium (VI) toxicity. <i>Journal of Biotechnology</i> , 2020 , 318, 68-77	3.7	11
102	Silicon tackles butachlor toxicity in rice seedlings by regulating anatomical characteristics, ascorbate-glutathione cycle, proline metabolism and levels of nutrients. <i>Scientific Reports</i> , 2020 , 10, 14078	4.9	11
101	Mitigation of chromium (VI) toxicity by additional sulfur in some vegetable crops involves glutathione and hydrogen sulfide. <i>Plant Physiology and Biochemistry</i> , 2020 , 155, 952-964	5.4	10
100	Polyols Regulate the Flower Senescence by Delaying Programmed Cell Death in <i>Gladiolus</i> . <i>Journal of Plant Biochemistry and Biotechnology</i> , 2006 , 15, 139-142	1.6	10
99	Ascorbic acid is essential for inducing chromium (VI) toxicity tolerance in tomato roots. <i>Journal of Biotechnology</i> , 2020 , 322, 66-73	3.7	10
98	Kinetin Alleviates UV-B-Induced Damage in <i>Solanum lycopersicum</i> : Implications of Phenolics and Antioxidants. <i>Journal of Plant Growth Regulation</i> , 2019 , 38, 831-841	4.7	10
97	Endogenous reduced ascorbate: an indicator of plant water deficit stress in wheat. <i>Indian Journal of Plant Physiology</i> , 2017 , 22, 365-368		9
96	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. <i>Molecular Phylogenetics and Evolution</i> , 2018 , 126, 331-345	4.1	9
95	Photoreceptors mapping from past history till date. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2016 , 162, 223-231	6.7	9
94	Cytology of the genus <i>Artemisia</i> (Anthemidae, Asteraceae) in the Western Himalayas. <i>Biologia (Poland)</i> , 2014 , 69, 1134-1141	1.5	9
93	Dose dependent differential effects of toxic metal cadmium in tomato roots: Role of endogenous hydrogen sulfide. <i>Ecotoxicology and Environmental Safety</i> , 2020 , 203, 110978	7	9
92	Structural modifications of plant organs and tissues by metals and metalloids in the environment: A review. <i>Plant Physiology and Biochemistry</i> , 2021 , 159, 100-112	5.4	9
91	Differential accumulation of β -carotene and tissue specific expression of phytoene synthase () gene in banana (sp) cultivars. <i>Journal of Food Science and Technology</i> , 2017 , 54, 4416-4426	3.3	8

90	Synergistic action of silicon nanoparticles and indole acetic acid in alleviation of chromium (Cr) toxicity in <i>Oryza sativa</i> seedlings. <i>Journal of Biotechnology</i> , 2021 , 343, 71-82	3.7	8
89	UV-B induced differential effect on growth and nitrogen metabolism in two cyanobacteria under copper toxicity. <i>Cellular and Molecular Biology</i> , 2012 , 58, 85-95	1.1	8
88	Cytokinin enhanced biomass and yield in wheat by improving N-metabolism under water limited environment. <i>Indian Journal of Plant Physiology</i> , 2015 , 20, 31-38		7
87	Cytokinin alleviates cypermethrin toxicity in <i>Nostoc muscorum</i> by involving nitric oxide: Regulation of exopolysaccharides secretion, PS II photochemistry and reactive oxygen species homeostasis. <i>Chemosphere</i> , 2020 , 259, 127356	8.4	7
86	An investigation on involvement of the ascorbate-glutathione cycle in modulating NaCl toxicity in two cyanobacteria photoacclimatized to different photosynthetic active radiation. <i>Algal Research</i> , 2018 , 32, 70-78	5	7
85	Development of novel SSR markers for evaluation of genetic diversity and population structure in <i>Tribulus terrestris</i> L. (Zygophyllaceae). <i>3 Biotech</i> , 2016 , 6, 156	2.8	7
84	A Robust Helical Abrasive Flow Machining (HLX-AFM) Process. <i>Journal of the Institution of Engineers (India): Series C</i> , 2013 , 94, 21-29	0.9	7
83	Silica nanoparticles: the rising star in plant disease protection. <i>Trends in Plant Science</i> , 2021 ,	13.1	7
82	Effect of Nitric Oxide on Seed Germination and Seedling Development of Tomato Under Chromium Toxicity. <i>Journal of Plant Growth Regulation</i> , 2020 , 1	4.7	7
81	Implication of Nitric Oxide Under Salinity Stress: The Possible Interaction with Other Signaling Molecules. <i>Journal of Plant Growth Regulation</i> , 1	4.7	7
80	Implication of nitric oxide and hydrogen sulfide signalling in alleviating arsenate stress in rice seedlings. <i>Environmental Pollution</i> , 2021 , 291, 117958	9.3	7
79	Stimulation of Various Phenolics in Plants Under Ambient UV-B Radiation 2017 , 9-56		6
78	Effects of Reactive Oxygen Species on Crop Productivity 2017 , 117-136		6
77	Oocyte-specific deletion of Hdac8 in mice reveals stage-specific effects on fertility. <i>Reproduction</i> , 2019 , 157, 305-316	3.8	6
76	Micro-Hardness and Machined Surface Damage Study for Continuous and Discontinuous Ultrasonic Vibration Assisted Electrical Discharge Machining. <i>Materials and Manufacturing Processes</i> ,	4.1	6
75	Priming of tomato seedlings with 2-oxoglutarate induces arsenic toxicity alleviatory responses by involving endogenous nitric oxide. <i>Physiologia Plantarum</i> , 2021 , 173, 45-57	4.6	6
74	Magnetopriming effects on arsenic stress-induced morphological and physiological variations in soybean involving synchrotron imaging. <i>Physiologia Plantarum</i> , 2021 , 173, 88-99	4.6	6
73	NO and ROS implications in the organization of root system architecture. <i>Physiologia Plantarum</i> , 2020 , 168, 473-489	4.6	6

72	Kinetin supplementation modifies chromium (VI) induced alterations in growth and ammonium assimilation in pea seedlings. <i>Biological Trace Element Research</i> , 2011 , 144, 1327-43	4.5	5
71	Nanoparticles as a potential protective agent for arsenic toxicity alleviation in plants.. <i>Environmental Pollution</i> , 2022 , 118887	9.3	5
70	Ethylene and hydrogen sulphide are essential for mitigating hexavalent chromium stress in two pulse crops. <i>Plant Biology</i> , 2021 ,	3.7	5
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