

# Vijay Pratap Singh

## List of Publications by Year in Descending Order

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

215  
papers

11,568  
citations

42  
h-index

105  
g-index

229  
ext. papers

14,077  
ext. citations

4.9  
avg, IF

6.97  
L-index

#	Paper	IF	Citations
215	Nanoparticles as a potential protective agent for arsenic toxicity alleviation in plants.. <i>Environmental Pollution</i> , <b>2022</b> , 118887	9.3	5
214	Arsenite: the umpire of arsenate perception and responses in plants.. <i>Trends in Plant Science</i> , <b>2022</b> ,	13.1	1
213	Application of zinc oxide nanoparticles as fertilizer boosts growth in rice plant and alleviates chromium stress by regulating genes involved in regulating oxidative stress.. <i>Chemosphere</i> , <b>2022</b> , 134554	8.4	3
212	Heavy metal induced regulation of plant biology: Recent insights.. <i>Physiologia Plantarum</i> , <b>2022</b> , e13688	4.6	3
211	Nano-priming: the impression on the hidden half. <i>Plant Stress</i> , <b>2022</b> , 100091		2
210	Nitric oxide and hydrogen peroxide independently act in mitigating chromium stress in <i>Triticum aestivum</i> L. seedlings: Regulation of cell death, chromium uptake, antioxidant system, sulfur assimilation and proline metabolism.. <i>Plant Physiology and Biochemistry</i> , <b>2022</b> , 183, 76-84	5.4	1
209	Iron oxide nanoparticles impart cross tolerance to arsenate stress in rice roots through involvement of nitric oxide.. <i>Environmental Pollution</i> , <b>2022</b> , 119320	9.3	0
208	Hydrogen sulfide manages hexavalent chromium toxicity in wheat and rice seedlings: The role of sulfur assimilation and ascorbate-glutathione cycle. <i>Environmental Pollution</i> , <b>2022</b> , 119509	9.3	0
207	Silicon nano forms in crop improvement and stress management. <i>Chemosphere</i> , <b>2022</b> , 135165	8.4	1
206	RIPK: a crucial ROS signaling component in plants.. <i>Trends in Plant Science</i> , <b>2021</b> ,	13.1	2
205	Silica nanoparticles: the rising star in plant disease protection. <i>Trends in Plant Science</i> , <b>2021</b> ,	13.1	7
204	Priming of tomato seedlings with 2-oxoglutarate induces arsenic toxicity alleviatory responses by involving endogenous nitric oxide. <i>Physiologia Plantarum</i> , <b>2021</b> , 173, 45-57	4.6	6
203	Magnetopriming effects on arsenic stress-induced morphological and physiological variations in soybean involving synchrotron imaging. <i>Physiologia Plantarum</i> , <b>2021</b> , 173, 88-99	4.6	6
202	Aluminum toxicity and aluminum stress-induced physiological tolerance responses in higher plants. <i>Critical Reviews in Biotechnology</i> , <b>2021</b> , 41, 715-730	9.4	16
201	Nitric oxide (NO) and salicylic acid (SA): A framework for their relationship in plant development under abiotic stress. <i>Plant Biology</i> , <b>2021</b> , 23 Suppl 1, 39-49	3.7	12
200	Ascorbate and glutathione independently alleviate arsenate toxicity in brinjal but both require endogenous nitric oxide. <i>Physiologia Plantarum</i> , <b>2021</b> , 173, 276-286	4.6	3
199	Regulation of ascorbate-glutathione cycle by exogenous nitric oxide and hydrogen peroxide in soybean roots under arsenate stress. <i>Journal of Hazardous Materials</i> , <b>2021</b> , 409, 123686	12.8	23

198	Auxin metabolic network regulates the plant response to metalloids stress. <i>Journal of Hazardous Materials</i> , <b>2021</b> , 405, 124250	12.8	19
197	Structural modifications of plant organs and tissues by metals and metalloids in the environment: A review. <i>Plant Physiology and Biochemistry</i> , <b>2021</b> , 159, 100-112	5.4	9
196	Silicon crosstalk with reactive oxygen species, phytohormones and other signaling molecules. <i>Journal of Hazardous Materials</i> , <b>2021</b> , 408, 124820	12.8	18
195	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> , <b>2021</b> , 72, 4457-4471	7	20
194	Mitigation of arsenate toxicity by indole-3-acetic acid in brinjal roots: Plausible association with endogenous hydrogen peroxide. <i>Journal of Hazardous Materials</i> , <b>2021</b> , 405, 124336	12.8	12
193	Histochemical Techniques in Plant Science: More Than Meets the Eye. <i>Plant and Cell Physiology</i> , <b>2021</b> , 62, 1509-1527	4.9	2
192	Nitric oxide and hydrogen sulfide: an indispensable combination for plant functioning. <i>Trends in Plant Science</i> , <b>2021</b> , 26, 1270-1285	13.1	23
191	Understanding the Role of Gibberellic Acid and Paclobutrazol in Terminal Heat Stress Tolerance in Wheat. <i>Frontiers in Plant Science</i> , <b>2021</b> , 12, 692252	6.2	0
190	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> , <b>2021</b> , 415, 124907	12.8	13
189	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> , <b>2021</b> , 343, 71-82	3.7	8
188	Endogenous indole-3-acetic acid and nitric oxide are required for calcium-mediated alleviation of copper oxide nanoparticles toxicity in wheat seedlings. <i>Physiologia Plantarum</i> , <b>2021</b> , 173, 2262-2275	4.6	0
187	Ethylene and hydrogen sulphide are essential for mitigating hexavalent chromium stress in two pulse crops. <i>Plant Biology</i> , <b>2021</b> ,	3.7	5
186	Silicon and nitric oxide interplay alleviates copper induced toxicity in mung bean seedlings. <i>Plant Physiology and Biochemistry</i> , <b>2021</b> , 167, 713-722	5.4	0
185	Exogenous addition of silicon alleviates metsulfuron methyl induced stress in wheat seedlings. <i>Plant Physiology and Biochemistry</i> , <b>2021</b> , 167, 705-712	5.4	1
184	Implication of nitric oxide and hydrogen sulfide signalling in alleviating arsenate stress in rice seedlings. <i>Environmental Pollution</i> , <b>2021</b> , 291, 117958	9.3	7
183	Ethylene needs endogenous hydrogen sulfide for alleviating hexavalent chromium stress in <i>Vigna mungo</i> L. and <i>Vigna radiata</i> L. <i>Environmental Pollution</i> , <b>2021</b> , 290, 117968	9.3	5
182	Metalloids in plants: A systematic discussion beyond description. <i>Annals of Applied Biology</i> , <b>2020</b> ,	2.6	3
181	Transgenic Strategies to Develop Resistant Plant Against the Pathogen and Pest <b>2020</b> , 259-290		1

180	PSO-Based: MARL Approach for Frequency Regulation of Multi-area Power System. <i>Journal of Electrical Engineering and Technology</i> , <b>2020</b> , 15, 1529-1539	1.4	2
179	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> , <b>2020</b> , 259, 127356	8.4	7
178	Mitigation of chromium (VI) toxicity by additional sulfur in some vegetable crops involves glutathione and hydrogen sulfide. <i>Plant Physiology and Biochemistry</i> , <b>2020</b> , 155, 952-964	5.4	10
177	Comparison of Key Mineral Elements in Wild Edible Fruits of <i>Ziziphus Mauritiana</i> and <i>Z. Nummularia</i> Using Atomic Absorption Spectrophotometer (AAS) and Flame Photometer. <i>International Journal of Fruit Science</i> , <b>2020</b> , 20, S987-S994	1.2	2
176	Data on optimization of microprojectile bombardment parameters in development of salinity tolerant transgenic lines. <i>Data in Brief</i> , <b>2020</b> , 29, 105305	1.2	
175	Additional calcium and sulfur manages hexavalent chromium toxicity in <i>Solanum lycopersicum</i> L. and <i>Solanum melongena</i> L. seedlings by involving nitric oxide. <i>Journal of Hazardous Materials</i> , <b>2020</b> , 398, 122607	12.8	18
174	Involvement of nitrate reductase-dependent nitric oxide production in magnetopriming-induced salt tolerance in soybean. <i>Physiologia Plantarum</i> , <b>2020</b> , 168, 422-436	4.6	17
173	Glutathione and hydrogen sulfide are required for sulfur-mediated mitigation of Cr(VI) toxicity in tomato, pea and brinjal seedlings. <i>Physiologia Plantarum</i> , <b>2020</b> , 168, 406-421	4.6	13
172	Microbiome as Sensitive Markers for Risk Assessment of Pesticides <b>2020</b> , 89-108		2
171	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> , <b>2020</b> , 318, 68-77	3.7	11
170	Silicon and nitric oxide-mediated mechanisms of cadmium toxicity alleviation in wheat seedlings. <i>Physiologia Plantarum</i> , <b>2020</b> ,	4.6	26
169	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> , <b>2020</b> , 390, 121806	12.8	29
168	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> , <b>2020</b> , 155, 20-34	5.4	27
167	A brief appraisal of ethylene signaling under abiotic stress in plants. <i>Plant Signaling and Behavior</i> , <b>2020</b> , 15, 1782051	2.5	19
166	Dose dependent differential effects of toxic metal cadmium in tomato roots: Role of endogenous hydrogen sulfide. <i>Ecotoxicology and Environmental Safety</i> , <b>2020</b> , 203, 110978	7	9
165	Ascorbic acid is essential for inducing chromium (VI) toxicity tolerance in tomato roots. <i>Journal of Biotechnology</i> , <b>2020</b> , 322, 66-73	3.7	10
164	Full sunlight acclimation mechanisms in <i>Riccia discolor</i> thalli: Assessment at morphological, anatomical, and biochemical levels. <i>Journal of Photochemistry and Photobiology B: Biology</i> , <b>2020</b> , 210, 111983	6.7	
163	Effect of Nitric Oxide on Seed Germination and Seedling Development of Tomato Under Chromium Toxicity. <i>Journal of Plant Growth Regulation</i> , <b>2020</b> , 1	4.7	7

162	Comparative sequence analysis across Brassicaceae, regulatory diversity in KCS5 and KCS6 homologs from <i>Arabidopsis thaliana</i> and <i>Brassica juncea</i> , and intronic fragment as a negative transcriptional regulator. <i>Gene Expression Patterns</i> , <b>2020</b> , 38, 119146	1.5	1
161	Silicon tackles butachlor toxicity in rice seedlings by regulating anatomical characteristics, ascorbate-glutathione cycle, proline metabolism and levels of nutrients. <i>Scientific Reports</i> , <b>2020</b> , 10, 14078	4.9	11
160	NO and ROS implications in the organization of root system architecture. <i>Physiologia Plantarum</i> , <b>2020</b> , 168, 473-489	4.6	6
159	Nitric oxide in plants: an ancient molecule with new tasks. <i>Plant Growth Regulation</i> , <b>2020</b> , 90, 1-13	3.2	22
158	Pesticides Usage, Uptake and Mode of Action in Plants with Special Emphasis on Photosynthetic Characteristics <b>2020</b> , 159-180		3
157	Microprojectile based particle bombardment in development of transgenic indica rice involving AmSOD gene to impart tolerance to salinity. <i>Plant Gene</i> , <b>2019</b> , 19, 100183	3.1	13
156	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> , <b>2019</b> , 142, 193-201	5.4	35
155	Nitrogen alleviates salinity toxicity in <i>Solanum lycopersicum</i> seedlings by regulating ROS homeostasis. <i>Plant Physiology and Biochemistry</i> , <b>2019</b> , 141, 466-476	5.4	21
154	Liquid assisted pulsed laser ablation synthesized copper oxide nanoparticles (CuO-NPs) and their differential impact on rice seedlings. <i>Ecotoxicology and Environmental Safety</i> , <b>2019</b> , 176, 321-329	7	24
153	Revisiting the role of ROS and RNS in plants under changing environment. <i>Environmental and Experimental Botany</i> , <b>2019</b> , 161, 1-3	5.9	73
152	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> , <b>2019</b> , 361, 134-140	12.8	57
151	Analysis of chickpea gene co-expression networks and pathways during heavy metal stress. <i>Journal of Biosciences</i> , <b>2019</b> , 44, 1	2.3	1
150	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> , <b>2019</b> , 38, 1587-1597	4.7	29
149	Avenues of the membrane transport system in adaptation of plants to abiotic stresses. <i>Critical Reviews in Biotechnology</i> , <b>2019</b> , 39, 861-883	9.4	32
148	An Integrated Transcriptomic, Proteomic, and Metabolomic Approach to Unravel the Molecular Mechanisms of Metal Stress Tolerance in Plants <b>2019</b> , 1-28		2
147	Oocyte-specific deletion of Hdac8 in mice reveals stage-specific effects on fertility. <i>Reproduction</i> , <b>2019</b> , 157, 305-316	3.8	6
146	Male Meiotic Studies in Six Species of <i>Pedicularis</i> L. from Churdhar and Adjoining Hills of Sirmaur District (H. P.), India. <i>Cytologia</i> , <b>2019</b> , 84, 233-236	0.9	
145	IAPT chromosome data 30. <i>Taxon</i> , <b>2019</b> , 68, 1124-1130	0.8	3

144	Kinetin Alleviates UV-B-Induced Damage in <i>Solanum lycopersicum</i> : Implications of Phenolics and Antioxidants. <i>Journal of Plant Growth Regulation</i> , <b>2019</b> , 38, 831-841	4.7	10
143	Effects of exogenously applied plant growth regulators on the physiology and anti-oxidant activity of wheat under water deficit condition. <i>Plant Physiology Reports</i> , <b>2019</b> , 24, 54-62	1.4	1
142	Nitric oxide ameliorates aluminium toxicity in <i>Anabaena</i> PCC 7120: Regulation of aluminium accumulation, exopolysaccharides secretion, photosynthesis and oxidative stress markers. <i>Environmental and Experimental Botany</i> , <b>2019</b> , 161, 218-227	5.9	21
141	Crosstalk between nitric oxide (NO) and abscisic acid (ABA) signalling molecules in higher plants. <i>Environmental and Experimental Botany</i> , <b>2019</b> , 161, 41-49	5.9	60
140	Male meiosis in 18 species of 07 genera of the tribe Astereae (Asteraceae) from Western Himalaya. <i>Nucleus (India)</i> , <b>2018</b> , 61, 95-104	1.7	
139	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> , <b>2018</b> , 126, 331-345	4.1	9
138	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> , <b>2018</b> , 32, 70-78	5	7
137	Induction of water deficit tolerance in wheat due to exogenous application of plant growth regulators: membrane stability, water relations and photosynthesis. <i>Photosynthetica</i> , <b>2018</b> , 56, 478-486	2.2	16
136	Acquisition and Homeostasis of Iron in Higher Plants and Their Probable Role in Abiotic Stress Tolerance. <i>Frontiers in Environmental Science</i> , <b>2018</b> , 5,	4.8	67
135	Interaction of Copper Oxide Nanoparticles With Plants <b>2018</b> , 297-310		12
134	New and Varied Chromosome Reports in Twenty-Six Species of the Family Asteraceae from Cold Deserts of the Western Himalaya. <i>Cytologia</i> , <b>2018</b> , 83, 215-220	0.9	3
133	Kinetin Regulates UV-B-Induced Damage to Growth, Photosystem II Photochemistry, and Nitrogen Metabolism in Tomato Seedlings. <i>Journal of Plant Growth Regulation</i> , <b>2018</b> , 37, 233-245	4.7	26
132	Male Meiotic Studies in 29 Species of Lamiaceae from Sirmour District of Himachal Pradesh, India. <i>Cytologia</i> , <b>2018</b> , 83, 235-243	0.9	4
131	Nitric oxide alleviates silver nanoparticles (AgNps)-induced phytotoxicity in <i>Pisum sativum</i> seedlings. <i>Plant Physiology and Biochemistry</i> , <b>2017</b> , 110, 167-177	5.4	228
130	Micro RNAs and nitric oxide cross talk in stress tolerance in plants. <i>Plant Growth Regulation</i> , <b>2017</b> , 83, 199-205	3.2	13
129	Toxicity of aluminium on various levels of plant cells and organism: A review. <i>Environmental and Experimental Botany</i> , <b>2017</b> , 137, 177-193	5.9	235
128	An Introduction to UV-B Research in Plant Science <b>2017</b> , 1-8		1
127	Oxidative Stress and Antioxidative Defence System in Plants in Response to UV-B Stress <b>2017</b> , 99-121		4

126	Stimulation of Various Phenolics in Plants Under Ambient UV-B Radiation <b>2017</b> , 9-56		6
125	Distributed Multi-Agent System-Based Load Frequency Control for Multi-Area Power System in Smart Grid. <i>IEEE Transactions on Industrial Electronics</i> , <b>2017</b> , 64, 5151-5160	8.9	73
124	Transcriptional regulation of salinity stress in plants: A short review. <i>Plant Gene</i> , <b>2017</b> , 11, 160-169	3.1	30
123	Understanding the plant and nanoparticle interface at transcriptomic and proteomic level: A concentric overview. <i>Plant Gene</i> , <b>2017</b> , 11, 265-272	3.1	81
122	Reactive oxygen species signaling and stomatal movement: Current updates and future perspectives. <i>Redox Biology</i> , <b>2017</b> , 11, 213-218	11.3	77
121	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> , <b>2017</b> , 112, 183-192	5.4	29
120	Endogenous reduced ascorbate: an indicator of plant water deficit stress in wheat. <i>Indian Journal of Plant Physiology</i> , <b>2017</b> , 22, 365-368		9
119	Effects of Reactive Oxygen Species on Crop Productivity <b>2017</b> , 117-136		6
118	Role of Reactive Oxygen Species in Photophosphorylation and Damage to D1 Protein <b>2017</b> , 165-186		2
117	Reactive Oxygen Species and Antioxidants <b>2017</b> , 187-203		
116	Reactive Oxygen Species <b>2017</b> , 89-115		4
115	Comparative expression profiling of AtRAD5B and AtNDL1: Hints towards a role in G protein mediated signaling. <i>Gene Expression Patterns</i> , <b>2017</b> , 25-26, 167-174	1.5	
114	Reactive Oxygen Species and Photosynthetic Functioning <b>2017</b> , 137-155		3
113	Differential accumulation of $\beta$ -carotene and tissue specific expression of phytoene synthase () gene in banana (sp) cultivars. <i>Journal of Food Science and Technology</i> , <b>2017</b> , 54, 4416-4426	3.3	8
112	Development and characterization of novel microsatellite markers in <i>Trillium govanianum</i> : a threatened plant species from North-Western Himalaya. <i>3 Biotech</i> , <b>2017</b> , 7, 190	2.8	2
111	New chromosome reports in Lamiaceae of Kashmir (Northwest Himalaya), India. <i>Protoplasma</i> , <b>2017</b> , 254, 971-985	3.4	11
110	An overview on manufactured nanoparticles in plants: Uptake, translocation, accumulation and phytotoxicity. <i>Plant Physiology and Biochemistry</i> , <b>2017</b> , 110, 2-12	5.4	416
109	Silicon nanoparticles more effectively alleviated UV-B stress than silicon in wheat ( <i>Triticum aestivum</i> ) seedlings. <i>Plant Physiology and Biochemistry</i> , <b>2017</b> , 110, 70-81	5.4	281

108	Generation Mechanisms of Reactive Oxygen Species in the Plant Cell <b>2017</b> , 1-22		1
107	The Regulation of Plant Development <b>2017</b> , 243-260		4
106	Nitric Oxide Ameliorates Zinc Oxide Nanoparticles Phytotoxicity in Wheat Seedlings: Implication of the Ascorbate-Glutathione Cycle. <i>Frontiers in Plant Science</i> , <b>2017</b> , 8, 1	6.2	759
105	Differential Phytotoxic Impact of Plant Mediated Silver Nanoparticles (AgNPs) and Silver Nitrate (AgNO) on sp. <i>Frontiers in Plant Science</i> , <b>2017</b> , 8, 1501	6.2	89
104	Uptake, Accumulation and Toxicity of Silver Nanoparticle in Autotrophic Plants, and Heterotrophic Microbes: A Concentric Review. <i>Frontiers in Microbiology</i> , <b>2017</b> , 8, 07	5.7	182
103	Uncovering Potential Applications of Cyanobacteria and Algal Metabolites in Biology, Agriculture and Medicine: Current Status and Future Prospects. <i>Frontiers in Microbiology</i> , <b>2017</b> , 8, 515	5.7	177
102	Silicon as a beneficial element to combat the adverse effect of drought in agricultural crops <b>2016</b> , 682-694		21
101	Development of novel SSR markers for evaluation of genetic diversity and population structure in <i>Tribulus terrestris</i> L. ( <i>Zygophyllaceae</i> ). <i>3 Biotech</i> , <b>2016</b> , 6, 156	2.8	7
100	Meiotic and Ethnobotanical Studies on Rheum Species from Kashmir Himalaya. <i>Cytologia</i> , <b>2016</b> , 81, 295-309		
99	Photoreceptors mapping from past history till date. <i>Journal of Photochemistry and Photobiology B: Biology</i> , <b>2016</b> , 162, 223-231	6.7	9
98	Nitrogen modifies NaCl toxicity in eggplant seedlings: Assessment of chlorophyll a fluorescence, antioxidative response and proline metabolism. <i>Biocatalysis and Agricultural Biotechnology</i> , <b>2016</b> , 7, 76-86	4.2	26
97	UV-B induces biomass production and nonenzymatic antioxidant compounds in three cyanobacteria. <i>Journal of Applied Phycology</i> , <b>2016</b> , 28, 131-140	3.2	19
96	Role of salicylic acid-seed priming in the regulation of chromium (VI) and UV-B toxicity in maize seedlings. <i>Plant Growth Regulation</i> , <b>2016</b> , 78, 79-91	3.2	24
95	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> , <b>2016</b> , 154, 89-98	6.7	56
94	Experimental Investigations of Abrasive Mixed Electro Discharge Diamond Grinding of Nimonic 80A. <i>Materials and Manufacturing Processes</i> , <b>2016</b> , 31, 1718-1723	4.1	14
93	Salicylic acid influences biochemical characteristics of harvested tomato ( <i>Solanum lycopersicon</i> L.) during ripening. <i>Indian Journal of Plant Physiology</i> , <b>2016</b> , 21, 50-55		2
92	Impact of Nanoparticles on Photosynthesis: Challenges and Opportunities. <i>Materials Focus</i> , <b>2016</b> , 5, 405-411		69
91	Chapter 4 Silicon: A Potential Element to Impart Resistance to Photosynthetic Machinery under Different Abiotic Stresses <b>2016</b> , 67-82		



90	Silicon Nanoparticles More Efficiently Alleviate Arsenate Toxicity than Silicon in Maize Cultiver and Hybrid Differing in Arsenate Tolerance. <i>Frontiers in Environmental Science</i> , <b>2016</b> , 4,	4.8	181
89	Reactive Oxygen Species (ROS): Beneficial Companions of Plants' Developmental Processes. <i>Frontiers in Plant Science</i> , <b>2016</b> , 7, 1299	6.2	192
88	Physiological and biochemical characterization of two Amaranthus species under Cr(VI) stress differing in Cr(VI) tolerance. <i>Plant Physiology and Biochemistry</i> , <b>2016</b> , 108, 12-23	5.4	23
87	Anomalous Chromosomal Behaviour and Chromosomal Data in Some Members of Subclass Gamopetalae from District Hamirpur (H. P.), India. <i>Cytologia</i> , <b>2016</b> , 81, 25-34	0.9	1
86	Assessment of Antioxidant Potential of Plants in Response to Heavy Metals <b>2016</b> , 97-125		24
85	Responses of photosynthesis, nitrogen and proline metabolism to salinity stress in Solanum lycopersicum under different levels of nitrogen supplementation. <i>Plant Physiology and Biochemistry</i> , <b>2016</b> , 109, 72-83	5.4	57
84	Antioxidant System Against Active Oxygen Species in Cyanobacterium Aphanothece stagnina: Response to Excess Light Under Cadmium Stress. <i>Proceedings of the National Academy of Sciences India Section B - Biological Sciences</i> , <b>2015</b> , 85, 535-543	1.4	3
83	Roles of osmoprotectants in improving salinity and drought tolerance in plants: a review. <i>Reviews in Environmental Science and Biotechnology</i> , <b>2015</b> , 14, 407-426	13.9	253
82	Silicon nanoparticles (SiNp) alleviate chromium (VI) phytotoxicity in Pisum sativum (L.) seedlings. <i>Plant Physiology and Biochemistry</i> , <b>2015</b> , 96, 189-98	5.4	290
81	Micronutrients and their diverse role in agricultural crops: advances and future prospective. <i>Acta Physiologiae Plantarum</i> , <b>2015</b> , 37, 1	2.6	91
80	Morpho-anatomical and biochemical adapting strategies of maize ( Zea mays L.) seedlings against lead and chromium stresses. <i>Biocatalysis and Agricultural Biotechnology</i> , <b>2015</b> , 4, 286-295	4.2	90
79	Investigating the roles of ascorbate-glutathione cycle and thiol metabolism in arsenate tolerance in ridged Luffa seedlings. <i>Protoplasma</i> , <b>2015</b> , 252, 1217-29	3.4	63
78	Cytokinin enhanced biomass and yield in wheat by improving N-metabolism under water limited environment. <i>Indian Journal of Plant Physiology</i> , <b>2015</b> , 20, 31-38		7
77	Exogenous proline application ameliorates toxic effects of arsenate in Solanum melongena L. seedlings. <i>Ecotoxicology and Environmental Safety</i> , <b>2015</b> , 117, 164-73	7	70
76	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> , <b>2015</b> , 181, 20-9	3.6	154
75	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> , <b>2015</b> , 153, 334-43	6.7	27
74	NaCl-induced physiological and biochemical changes in two cyanobacteria Nostoc muscorum and Phormidium foveolarum acclimatized to different photosynthetically active radiation. <i>Journal of Photochemistry and Photobiology B: Biology</i> , <b>2015</b> , 151, 221-32	6.7	24
73	Silicon-mediated alleviation of Cr(VI) toxicity in wheat seedlings as evidenced by chlorophyll florescence, laser induced breakdown spectroscopy and anatomical changes. <i>Ecotoxicology and Environmental Safety</i> , <b>2015</b> , 113, 133-44	7	121

72	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> , <b>2015</b> , 17, 128-349	3.9	26
71	Arsenic contamination, consequences and remediation techniques: a review. <i>Ecotoxicology and Environmental Safety</i> , <b>2015</b> , 112, 247-70	7	650
70	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> , <b>2015</b> , 77, 99-106	3.2	39
69	Effect of salinity stress on plants and its tolerance strategies: a review. <i>Environmental Science and Pollution Research</i> , <b>2015</b> , 22, 4056-75	5.1	509
68	Cytogenetic Variation among Populations of <i>Aster thomsonii</i> C. B. Clarke from District Sirmaur, Himachal Pradesh (India). <i>Cytologia</i> , <b>2015</b> , 80, 81-87	0.9	
67	Retrograde signaling between plastid and nucleus: A review. <i>Journal of Plant Physiology</i> , <b>2015</b> , 181, 55-66	6.6	32
66	Assessment of terminal heat tolerance ability of wheat genotypes based on physiological traits using multivariate analysis. <i>Acta Physiologiae Plantarum</i> , <b>2015</b> , 37, 1	2.6	11
65	Differential physiological and biochemical responses of two <i>Vigna</i> 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> , <b>2015</b> , 8, 173-181	1.5	22
64	Reference evapotranspiration under changing climate over the Thar Desert in India. <i>Meteorological Applications</i> , <b>2015</b> , 22, 425-435	2.1	31
63	Heavy Metal Tolerance in Plants: Role of Transcriptomics, Proteomics, Metabolomics, and Ionomics. <i>Frontiers in Plant Science</i> , <b>2015</b> , 6, 1143	6.2	507
62	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> , <b>2014</b> , 116, 13-23	4.9	40
61	Optimization of Parameters Using Conductive Powder in Dielectric for EDM of Super Co 605 with Multiple Quality Characteristics. <i>Materials and Manufacturing Processes</i> , <b>2014</b> , 29, 267-273	4.1	37
60	Light intensity alters the extent of arsenic toxicity in <i>Helianthus annuus</i> L. seedlings. <i>Biological Trace Element Research</i> , <b>2014</b> , 158, 410-21	4.5	40
59	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> , <b>2014</b> , 19, 87-93		30
58	Meiotic studies in some species of tribe Cichorieae (Asteraceae) from Western Himalayas. <i>Scientific World Journal, The</i> , <b>2014</b> , 2014, 673456	2.2	3
57	Low and high doses of UV-B differentially modulate chlorpyrifos-induced alterations in nitrogen metabolism of cyanobacteria. <i>Ecotoxicology and Environmental Safety</i> , <b>2014</b> , 107, 291-9	7	11
56	Cytology of the genus <i>Artemisia</i> (Anthemidae, Asteraceae) in the Western Himalayas. <i>Biologia (Poland)</i> , <b>2014</b> , 69, 1134-1141	1.5	9
55	Hypothermia slows sequential and parallel steps initiated during caerulein pancreatitis. <i>Pancreatology</i> , <b>2014</b> , 14, 459-64	3.8	3

54	Plant Responses to Metal Stress: The Emerging Role of Plant Growth Hormones in Toxicity Alleviation <b>2014</b> , 215-248		34
53	Role of Macronutrients in Plant Growth and Acclimation: Recent Advances and Future Prospective <b>2014</b> , 197-216		12
52	The role of abscisic acid (ABA) in ethylene insensitive Gladiolus ( <i>Gladiolus grandiflora</i> Hort.) flower senescence. <i>Acta Physiologiae Plantarum</i> , <b>2014</b> , 36, 151-159	2.6	18
51	Role of Silicon in Enrichment of Plant Nutrients and Protection from Biotic and Abiotic Stresses <b>2014</b> , 39-56		25
50	Nitric oxide alleviates arsenic-induced toxic effects in ridged Luffa seedlings. <i>Plant Physiology and Biochemistry</i> , <b>2013</b> , 71, 155-63	5.4	102
49	A Robust Helical Abrasive Flow Machining (HLX-AFM) Process. <i>Journal of the Institution of Engineers (India): Series C</i> , <b>2013</b> , 94, 21-29	0.9	7
48	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> , <b>2013</b> , 18, 15-21		15
47	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> , <b>2012</b> , 34, 279-289	2.6	155
46	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> , <b>2012</b> , 61, 61-70	5.4	42
45	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> , <b>2012</b> , 94, 1511-1535	1.4	11
44	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> , <b>2012</b> , 34, 2225-2239	2.6	12
43	High light intensity augments mercury toxicity in cyanobacterium <i>Nostoc muscorum</i> . <i>Biological Trace Element Research</i> , <b>2012</b> , 149, 262-72	4.5	18
42	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> , <b>2012</b> , 83, 79-88	7	14
41	Light intensity determines the extent of mercury toxicity in the cyanobacterium <i>Nostoc muscorum</i> . <i>Acta Physiologiae Plantarum</i> , <b>2012</b> , 34, 1119-1131	2.6	13
40	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> , <b>2012</b> , 28, 281-291	2.3	115
39	UV-B induced differential effect on growth and nitrogen metabolism in two cyanobacteria under copper toxicity. <i>Cellular and Molecular Biology</i> , <b>2012</b> , 58, 85-95	1.1	8
38	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> , <b>2011</b> , 74, 1981-93	7	40
37	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> , <b>2011</b> , 129, 321-328	4.1	78

36	Responses of <i>Pisum sativum</i> L. to exogenous indole acetic acid application under manganese toxicity. <i>Bulletin of Environmental Contamination and Toxicology</i> , <b>2011</b> , 86, 605-9	2.7	11
35	Influence of exogenous silicon addition on aluminium tolerance in rice seedlings. <i>Biological Trace Element Research</i> , <b>2011</b> , 144, 1260-74	4.5	78
34	Kinetin supplementation modifies chromium (VI) induced alterations in growth and ammonium assimilation in pea seedlings. <i>Biological Trace Element Research</i> , <b>2011</b> , 144, 1327-43	4.5	5
33	Differential responses of pea seedlings to indole acetic acid under manganese toxicity. <i>Acta Physiologiae Plantarum</i> , <b>2011</b> , 33, 451-462	2.6	23
32	Modification of chromium (VI) phytotoxicity by exogenous gibberellic acid application in <i>Pisum sativum</i> (L.) seedlings. <i>Acta Physiologiae Plantarum</i> , <b>2011</b> , 33, 1385-1397	2.6	63
31	Modulation of manganese toxicity in <i>Pisum sativum</i> L. seedlings by kinetin. <i>Scientia Horticulturae</i> , <b>2010</b> , 126, 467-474	4.1	37
30	A review of drought concepts. <i>Journal of Hydrology</i> , <b>2010</b> , 391, 202-216	6	2417
29	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> , <b>2009</b> , 5, 117-24	2.9	14
28	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> , <b>2008</b> , 55, 65-79	2	11
27	Phase 4 trial of miltefosine for the treatment of Indian visceral leishmaniasis. <i>Journal of Infectious Diseases</i> , <b>2007</b> , 196, 591-8	7	194
26	Effect of 5-sulfosalicylic acid on antioxidant activity in relation to vase life of <i>Gladiolus</i> cut flowers. <i>Plant Growth Regulation</i> , <b>2007</b> , 51, 99-108	3.2	67
25	Differential expression of thermophilic phosphatases in the wild type and auxotrophic mutant strains of <i>Thermoactinomyces vulgaris</i> . <i>Indian Journal of Microbiology</i> , <b>2007</b> , 47, 81-5	3.7	
24	Polyols Regulate the Flower Senescence by Delaying Programmed Cell Death in <i>Gladiolus</i> . <i>Journal of Plant Biochemistry and Biotechnology</i> , <b>2006</b> , 15, 139-142	1.6	10
23	Cysteine Protease Gene Expression and Proteolytic Activity During Floral Development and Senescence in Ethylene-insensitive <i>Gladiolus grandiflora</i> . <i>Journal of Plant Biochemistry and Biotechnology</i> , <b>2004</b> , 13, 123-126	1.6	19
22	Single-dose liposomal amphotericin B in the treatment of visceral leishmaniasis in India: a multicenter study. <i>Clinical Infectious Diseases</i> , <b>2003</b> , 37, 800-4	11.6	105
21	Intraspecific Variation in Nitrogen Uptake and Nitrogen Utilization Efficiency in Wheat ( <i>Triticum aestivum</i> L.). <i>Journal of Agronomy and Crop Science</i> , <b>2001</b> , 186, 239-244	3.9	20
20	Chlorophyll and Proline as Affected by Moisture Stress in Young and Mature Leaf Tissues of <i>Brassica carinata</i> Hybrids and Their Parents. <i>Journal of Agronomy and Crop Science</i> , <b>1998</b> , 180, 123-126	3.9	1
19	Physiological Factors Limiting Grain Growth in Wheat Ears Cultured in Sucrose Solution. <i>Journal of Agronomy and Crop Science</i> , <b>1998</b> , 181, 7-11	3.9	1

18	Influence of Low Light Irradiance on Grain Filling in Rice ( <i>Oryza saliva</i> L.) cultivars. <i>Journal of Agronomy and Crop Science</i> , <b>1996</b> , 176, 1-4	3.9	4
17	GABA Requires Nitric Oxide for Alleviating Arsenate Stress in Tomato and Brinjal Seedlings. <i>Journal of Plant Growth Regulation</i> ,1	4.7	2
16	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
15	Reactive Oxygen Species and Response of the CalvinBenson Cycle157-163		1
14	Reactive Oxygen Species Signaling and Root Hair Development307-317		0
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10	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
9	Genotoxic effect of fruit extract of wild and cultivated cucurbits using <i>Allium cepa</i> assay. <i>International Journal of Vegetable Science</i> ,1-13	1.2	0
8	Robust Load Frequency Control of Interconnected Power System in Smart Grid. <i>IETE Journal of Research</i> ,1-13	0.9	1
7	Reactive Oxygen Species Signaling and Seed Germination291-306		1
6	Abiotic Stress, Generation of Reactive Oxygen Species, and Their Consequences23-50		16
5	Balancing Roles of Reactive Oxygen Species in PlantsResponse to Metalloid Exposure51-73		3
4	Role of Reactive Oxygen Species in Magnetoprimed Induced Acceleration of Germination and Early Growth Characteristics of Seeds75-88		3
3	Selenium uptake and immobilization using indigenous <i>Bacillus</i> strain isolated from seleniferous soils of Punjab. <i>Bioremediation Journal</i> ,1-9	2.3	
2	An Appraisal of Ancient Molecule GABA in Abiotic Stress Tolerance in Plants, and Its Crosstalk with Other Signaling Molecules. <i>Journal of Plant Growth Regulation</i> ,1	4.7	0
1	HPCA1 and HSL3: two plasma membrane proteins that probably cooperate to modulate H <sub>2</sub> O <sub>2</sub> signalling under drought conditions. <i>Plant Growth Regulation</i> ,1	3.2	

