Vijay Pratap Singh

List of Publications by Year
in descending order

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204 papers	17,726 citations	38742 50 h-index	15732 125 g-index
230 all docs	230 docs citations	230 times ranked	17948 citing authors

#	Article	IF	Citations
1	Robust Load Frequency Control of Interconnected Power System in Smart Grid. IETE Journal of Research, 2023, 69, 5351-5363.	2.6	6
2	GABA Requires Nitric Oxide for Alleviating Arsenate Stress in Tomato and Brinjal Seedlings. Journal of Plant Growth Regulation, 2023, 42, 670-683.	5.1	12
3	Selenium uptake and immobilization using indigenous Bacillus strain isolated from seleniferous soils of Punjab. Bioremediation Journal, 2023, 27, 434-442.	2.0	1
4	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.	5.1	11
5	Silicon and nitric oxideâ€mediated mechanisms of cadmium toxicity alleviation in wheat seedlings. Physiologia Plantarum, 2022, 174, .	5.2	39
6	Metalloids in plants: A systematic discussion beyond description. Annals of Applied Biology, 2022, 180, 7-25.	2.5	5
7	Implication of Nitric Oxide Under Salinity Stress: The Possible Interaction with Other Signaling Molecules. Journal of Plant Growth Regulation, 2022, 41, 163-177.	5.1	24
8	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.	3.8	47
9	Ethylene and hydrogen sulphide are essential for mitigating hexavalent chromium stress in two pulse crops. Plant Biology, 2022, 24, 652-659.	3.8	25
10	Metalloids in plant biology: New avenues in their research. Journal of Hazardous Materials, 2022, 422, 126738.	12.4	3
11	Silica nanoparticles: the rising star in plant disease protection. Trends in Plant Science, 2022, 27, 7-9.	8.8	16
12	Nanoparticles as a potential protective agent for arsenic toxicity alleviation in plants. Environmental Pollution, 2022, 300, 118887.	7.5	23
13	RIPK: a crucial ROS signaling component in plants. Trends in Plant Science, 2022, 27, 214-216.	8.8	7
14	Hot and dry: how plants can thrive in future climates. Plant Cell Reports, 2022, 41, 497-499.	5.6	6
15	Arsenite: the umpire of arsenate perception and responses in plants. Trends in Plant Science, 2022, 27, 420-422.	8.8	4
16	Hydrogen sulphide ameliorates hexavalent chromium toxicity in two cereal crops: Role of antioxidant enzymes and proline metabolism. Plant Biology, 2022, 24, 636-641.	3.8	4
17	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.	8.2	44
18	Heavy metal induced regulation of plant biology: Recent insights. Physiologia Plantarum, 2022, 174, e13688.	5.2	35

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19	Nano-priming: Impression on the beginner of plant life. Plant Stress, 2022, 5, 100091.	5.5	16
20	Emerging role of hydrogen sulphide as a signalling molecule in plant biology. Plant Biology, 2022, 24, 521-522.	3.8	0
21	HPCA1 and HSL3: two plasma membrane proteins that probably cooperate to modulate H2O2 signalling under drought conditions. Plant Growth Regulation, 2022, 98, 1-3.	3.4	3
22	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.	5.8	6
23	Iron oxide nanoparticles impart cross tolerance to arsenate stress in rice roots through involvement of nitric oxide. Environmental Pollution, 2022, 307, 119320.	7.5	10
24	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.	7.5	7
25	Silicon nanoforms in crop improvement and stress management. Chemosphere, 2022, 305, 135165.	8.2	25
26	Functional characterization of novel phosphate solubilizing bacteria, Chryseomicrobium imtechense, for enhanced strawberry growth and yield parameters. Arabian Journal of Geosciences, 2022, 15, .	1.3	0
27	Priming-mediated abiotic stress management in plants: Recent avenues and future directions. Plant Stress, 2022, 5, 100097.	5.5	2
28	Priming of tomato seedlings with 2â€oxoglutarate induces arsenic toxicity alleviatory responses by involving endogenous nitric oxide. Physiologia Plantarum, 2021, 173, 45-57.	5.2	13
29	Effect of Nitric Oxide on Seed Germination and Seedling Development of Tomato Under Chromium Toxicity. Journal of Plant Growth Regulation, 2021, 40, 2358-2370.	5.1	39
30	Magnetopriming effects on arsenic stressâ€induced morphological and physiological variations in soybean involving synchrotron imaging. Physiologia Plantarum, 2021, 173, 88-99.	5.2	12
31	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.	12.4	59
32	Auxin metabolic network regulates the plant response to metalloids stress. Journal of Hazardous Materials, 2021, 405, 124250.	12.4	47
33	Structural modifications of plant organs and tissues by metals and metalloids in the environment: A review. Plant Physiology and Biochemistry, 2021, 159, 100-112.	5.8	46
34	Silicon crosstalk with reactive oxygen species, phytohormones and other signaling molecules. Journal of Hazardous Materials, 2021, 408, 124820.	12.4	55
35	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.	4.8	53
36	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.	12.4	31

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37	Histochemical Techniques in Plant Science: More Than Meets the Eye. Plant and Cell Physiology, 2021, 62, 1509-1527.	3.1	7
38	Aluminum toxicity and aluminum stress-induced physiological tolerance responses in higher plants. Critical Reviews in Biotechnology, 2021, 41, 715-730.	9.0	73
39	Nitric oxide (NO) and salicylic acid (SA): A framework for their relationship in plant development under abiotic stress. Plant Biology, 2021, 23, 39-49.	3.8	51
40	Ascorbate and glutathione independently alleviate arsenate toxicity in brinjal but both require endogenous nitric oxide. Physiologia Plantarum, 2021, 173, 276-286.	5.2	7
41	Nitric oxide and hydrogen sulfide: an indispensable combination for plant functioning. Trends in Plant Science, 2021, 26, 1270-1285.	8.8	90
42	Understanding the Role of Gibberellic Acid and Paclobutrazol in Terminal Heat Stress Tolerance in Wheat. Frontiers in Plant Science, 2021, 12, 692252.	3.6	24
43	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.	12.4	29
44	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.	5.2	5
45	New avenues of silicon research in plant biology. Plant Physiology and Biochemistry, 2021, 167, 955-957.	5.8	0
46	Silicon and nitric oxide interplay alleviates copper induced toxicity in mung bean seedlings. Plant Physiology and Biochemistry, 2021, 167, 713-722.	5.8	12
47	Exogenous addition of silicon alleviates metsulfuron methyl induced stress in wheat seedlings. Plant Physiology and Biochemistry, 2021, 167, 705-712.	5.8	9
48	Implication of nitric oxide and hydrogen sulfide signalling in alleviating arsenate stress in rice seedlings. Environmental Pollution, 2021, 291, 117958.	7.5	26
49	Ethylene needs endogenous hydrogen sulfide for alleviating hexavalent chromium stress in Vigna mungo L. and Vigna radiata L.. Environmental Pollution, 2021, 290, 117968.	7.5	21
50	Involvement of nitrate reductaseâ€dependent nitric oxide production in magnetoprimingâ€induced salt tolerance in soybean. Physiologia Plantarum, 2020, 168, 422-436.	5.2	44
51	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.	5.2	35
52	NO and ROS implications in the organization of root system architecture. Physiologia Plantarum, 2020, 168, 473-489.	5.2	26
53	Nitric oxide in plants: an ancient molecule with new tasks. Plant Growth Regulation, 2020, 90, 1-13.	3.4	42
54	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.	12.4	46

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55	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.	5.8	66
56	A brief appraisal of ethylene signaling under abiotic stress in plants. Plant Signaling and Behavior, 2020, 15, 1782051.	2.4	64
57	Dose dependent differential effects of toxic metal cadmium in tomato roots: Role of endogenous hydrogen sulfide. Ecotoxicology and Environmental Safety, 2020, 203, 110978.	6.0	18
58	Ascorbic acid is essential for inducing chromium (VI) toxicity tolerance in tomato roots. Journal of Biotechnology, 2020, 322, 66-73.	3.8	29
59	Silicon in plant biology: from past to present, and future challenges. Journal of Experimental Botany, 2020, 71, 6699-6702.	4.8	24
60	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.	3.8	0
61	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.	0.8	6
62	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.	3.3	27
63	PSO-Based: MARL Approach for Frequency Regulation of Multi-area Power System. Journal of Electrical Engineering and Technology, 2020, 15, 1529-1539.	2.0	3
64	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.	8.2	12
65	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.	5.8	23
66	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.	2.4	5
67	Data on optimization of microprojectile bombardment parameters in development of salinity tolerant transgenic lines. Data in Brief, 2020, 29, 105305.	1.0	0
68	Hydrogen sulfide and nitric oxide signal integration and plant development under stressed/nonâ€stressed conditions. Physiologia Plantarum, 2020, 168, 239-240.	5.2	58
69	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.	12.4	38
70	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.	3.8	28
71	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.	12.4	87
72	Analysis of chickpea gene co-expression networks and pathways during heavy metal stress. Journal of Biosciences, 2019, 44, 1.	1.1	2

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73	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.	5.1	55
74	Avenues of the membrane transport system in adaptation of plants to abiotic stresses. Critical Reviews in Biotechnology, 2019, 39, 861-883.	9.0	53
75	An Integrated Transcriptomic, Proteomic, and Metabolomic Approach to Unravel the Molecular Mechanisms of Metal Stress Tolerance in Plants. , 2019, , 1-28.		6
76	Microprojectile based particle bombardment in development of transgenic indica rice involving AmSOD gene to impart tolerance to salinity. Plant Gene, 2019, 19, 100183.	2.3	16
77	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.	5.8	54
78	Nitrogen alleviates salinity toxicity in Solanum lycopersicum seedlings by regulating ROS homeostasis. Plant Physiology and Biochemistry, 2019, 141, 466-476.	5.8	48
79	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.	6.0	33
80	Revisiting the role of ROS and RNS in plants under changing environment. Environmental and Experimental Botany, 2019, 161, 1-3.	4.2	136
81	IAPT chromosome data 30. Taxon, 2019, 68, 1124-1130.	0.7	6
82	Impact of Demand Response in Integartion of Renewable Energy Resources in Smart Grid. , 2019, , .		0
83	Kinetin Alleviates UV-B-Induced Damage in Solanum lycopersicum: Implications of Phenolics and Antioxidants. Journal of Plant Growth Regulation, 2019, 38, 831-841.	5.1	15
84	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.	1.5	1
85	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.	4.2	36
86	Crosstalk between nitric oxide (NO) and abscisic acid (ABA) signalling molecules in higher plants. Environmental and Experimental Botany, 2019, 161, 41-49.	4.2	109
87	Oocyte-specific deletion of Hdac8 in mice reveals stage-specific effects on fertility. Reproduction, 2019, 157, 305-316.	2.6	10
88	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.	0.6	1
89	Analysis of chickpea gene co-expression networks and pathways during heavy metal stress. Journal of Biosciences, 2019, 44, .	1.1	0
90	Male meiosis in 18 species of 07 genera of the tribe Astereae (Asteraceae) from Western Himalaya. Nucleus (India), 2018, 61, 95-104.	2.2	0

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91	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.	2.7	13
92	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.	4.6	11
93	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.	1.7	28
94	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.	5.1	30
95	Male Meiotic Studies in 29 Species of Lamiaceae from Sirmaur District of Himachal Pradesh, India. Cytologia, 2018, 83, 235-243.	0.6	5
96	Interaction of Copper Oxide Nanoparticles With Plants. , 2018, , 297-310.		17
97	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.	0.6	3
98	Nitric oxide alleviates silver nanoparticles (AgNps)-induced phytotoxicity in Pisum sativum seedlings. Plant Physiology and Biochemistry, 2017, 110, 167-177.	5.8	291
99	Micro RNAs and nitric oxide cross talk in stress tolerance in plants. Plant Growth Regulation, 2017, 83, 199-205.	3.4	18
100	Toxicity of aluminium on various levels of plant cells and organism: A review. Environmental and Experimental Botany, 2017, 137, 177-193.	4.2	343
101	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.	7.9	119
102	Transcriptional regulation of salinity stress in plants: A short review. Plant Gene, 2017, 11, 160-169.	2.3	69
103	Understanding the plant and nanoparticle interface at transcriptomic and proteomic level: A concentric overview. Plant Gene, 2017, 11, 265-272.	2.3	95
104	Reactive oxygen species signaling and stomatal movement: Current updates and future perspectives. Redox Biology, 2017, 11, 213-218.	9.0	126
105	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.	5.8	45
106	Endogenous reduced ascorbate: an indicator of plant water deficit stress in wheat. Indian Journal of Plant Physiology, 2017, 22, 365-368.	0.8	12
107	Comparative expression profiling of AtRAD5B and AtNDL1: Hints towards a role in G protein mediated signaling. Gene Expression Patterns, 2017, 25-26, 167-174.	0.8	1
108	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.	2.8	11

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109	Development and characterization of novel microsatellite markers in Trillium govanianum: a threatened plant species from North-Western Himalaya. 3 Biotech, 2017, 7, 190.	2.2	5
110	New chromosome reports in Lamiaceae of Kashmir (Northwest Himalaya), India. Protoplasma, 2017, 254, 971-985.	2.1	11
111	An overview on manufactured nanoparticles in plants: Uptake, translocation, accumulation and phytotoxicity. Plant Physiology and Biochemistry, 2017, 110, 2-12.	5.8	579
112	Silicon nanoparticles more effectively alleviated UV-B stress than silicon in wheat (Triticum aestivum) seedlings. Plant Physiology and Biochemistry, 2017, 110, 70-81.	5.8	411
113	Nitric Oxide Ameliorates Zinc Oxide Nanoparticles Phytotoxicity in Wheat Seedlings: Implication of the Ascorbateâ€“Glutathione Cycle. Frontiers in Plant Science, 2017, 8, 1.	3.6	1,394
114	Differential Phytotoxic Impact of Plant Mediated Silver Nanoparticles (AgNPs) and Silver Nitrate (AgNO3) on Brassica sp.. Frontiers in Plant Science, 2017, 8, 1501.	3.6	137
115	Editorial: Phytohormones and the Regulation of Stress Tolerance in Plants: Current Status and Future Directions. Frontiers in Plant Science, 2017, 8, 1871.	3.6	17
116	Uptake, Accumulation and Toxicity of Silver Nanoparticle in Autotrophic Plants, and Heterotrophic Microbes: A Concentric Review. Frontiers in Microbiology, 2017, 08, 07.	3.5	254
117	Uncovering Potential Applications of Cyanobacteria and Algal Metabolites in Biology, Agriculture and Medicine: Current Status and Future Prospects. Frontiers in Microbiology, 2017, 8, 515.	3.5	264
118	Silicon Nanoparticles More Efficiently Alleviate Arsenate Toxicity than Silicon in Maize Cultiver and Hybrid Differing in Arsenate Tolerance. Frontiers in Environmental Science, 2016, 4, .	3.3	253
119	Reactive Oxygen Species (ROS): Beneficial Companions of Plantsâ€™ Developmental Processes. Frontiers in Plant Science, 2016, 7, 1299.	3.6	261
120	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.	5.8	28
121	Anomalous Chromosomal Behaviour and Chromosomal Data in Some Members of Subclass Gamopetalae from District Hamirpur (H. P.), India. Cytologia, 2016, 81, 25-34.	0.6	1
122	Assessment of Antioxidant Potential of Plants in Response to Heavy Metals. , 2016, , 97-125.		41
123	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.	5.8	84
124	Development of novel SSR markers for evaluation of genetic diversity and population structure in Tribulus terrestris L. (Zygophyllaceae). 3 Biotech, 2016, 6, 156.	2.2	11
125	Meiotic and Ethnobotanical Studies on <i>Rheum</i> Species from Kashmir Himalaya. Cytologia, 2016, 81, 295-300.	0.6	0
126	Photoreceptors mapping from past history till date. Journal of Photochemistry and Photobiology B: Biology, 2016, 162, 223-231.	3.8	12

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127	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.	3.1	32
128	UV-B induces biomass production and nonenzymatic antioxidant compounds in three cyanobacteria. Journal of Applied Phycology, 2016, 28, 131-140.	2.8	26
129	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.	3.4	32
130	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.	3.8	75
131	Experimental Investigations of Abrasive Mixed Electro Discharge Diamond Grinding of Nimonic 80A. Materials and Manufacturing Processes, 2016, 31, 1718-1723.	4.7	18
132	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
133	Impact of Nanoparticles on Photosynthesis: Challenges and Opportunities. Materials Focus, 2016, 5, 405-411.	0.4	81
134	Chapter 4 Silicon: A Potential Element to Impart Resistance to Photosynthetic Machinery under Different Abiotic Stresses. , 2016, , 67-82.		0
135	Cytogenetic Variation among Populations of <i>Aster thomsonii</i> C. B. Clarke from District Sirmaur, Himachal Pradesh (India). Cytologia, 2015, 80, 81-87.	0.6	0
136	Retrograde signaling between plastid and nucleus: A review. Journal of Plant Physiology, 2015, 181, 55-66.	3.5	39
137	Assessment of terminal heat tolerance ability of wheat genotypes based on physiological traits using multivariate analysis. Acta Physiologiae Plantarum, 2015, 37, 1.	2.1	28
138	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.	1.2	27
139	Reference evapotranspiration under changing climate overÂtheÂTharÂDesertÂinÂIndia. Meteorological Applications, 2015, 22, 425-435.	2.1	42
140	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.	1.0	3
141	Roles of osmoprotectants in improving salinity and drought tolerance in plants: a review. Reviews in Environmental Science and Biotechnology, 2015, 14, 407-426.	8.1	433
142	Silicon nanoparticles (SiNp) alleviate chromium (VI) phytotoxicity in Pisum sativum (L.) seedlings. Plant Physiology and Biochemistry, 2015, 96, 189-198.	5.8	407
143	Micronutrients and their diverse role in agricultural crops: advances and future prospective. Acta Physiologiae Plantarum, 2015, 37, 1.	2.1	160
144	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.	3.1	121

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145	Investigating the roles of ascorbate-glutathione cycle and thiol metabolism in arsenate tolerance in ridged Luffa seedlings. Protoplasma, 2015, 252, 1217-1229.	2.1	76
146	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
147	Exogenous proline application ameliorates toxic effects of arsenate in Solanum melongena L. seedlings. Ecotoxicology and Environmental Safety, 2015, 117, 164-173.	6.0	99
148	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.	3.5	212
149	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.	3.8	38
150	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.	3.8	30
151	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.	6.0	152
152	Effect of Arsenic on Growth, Arsenic Uptake, Distribution of Nutrient Elements and Thiols in Seedlings ofWrightia arborea(Dennst.) Mabb.. International Journal of Phytoremediation, 2015, 17, 128-134.	3.1	33
153	Arsenic contamination, consequences and remediation techniques: A review. Ecotoxicology and Environmental Safety, 2015, 112, 247-270.	6.0	863
154	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.	3.0	68
155	Effect of salinity stress on plants and its tolerance strategies: a review. Environmental Science and Pollution Research, 2015, 22, 4056-4075.	5.3	845
156	Heavy Metal Tolerance in Plants: Role of Transcriptomics, Proteomics, Metabolomics, and Ionomics. Frontiers in Plant Science, 2015, 6, 1143.	3.6	817
157	Meiotic Studies in Some Species of Tribe Cichorieae (Asteraceae) from Western Himalayas. Scientific World Journal, The, 2014, 2014, 1-9.	2.1	4
158	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.	6.0	12
159	Cytology of the genus Artemisia (Anthemidae, Asteraceae) in the Western Himalayas. Biologia (Poland), 2014, 69, 1134-1141.	1.5	11
160	Hypothermia slows sequential and parallel steps initiated during caerulein pancreatitis. Pancreatology, 2014, 14, 459-464.	1.1	3
161	Plant Responses to Metal Stress. , 2014, , 215-248.		41
162	Role of Macronutrients in Plant Growth and Acclimation: Recent Advances and Future Prospective. , 2014, , 197-216.		42

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163	The role of abscisic acid (ABA) in ethylene insensitive Gladiolus (Gladiolus grandiflora Hort.) flower senescence. Acta Physiologiae Plantarum, 2014, 36, 151-159.	2.1	29
164	Role of Silicon in Enrichment of Plant Nutrients and Protection from Biotic and Abiotic Stresses. , 2014, , 39-56.		30
165	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.	3.6	47
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167	Light Intensity Alters the Extent of Arsenic Toxicity in Helianthus annuus L. Seedlings. Biological Trace Element Research, 2014, 158, 410-421.	3.5	45
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