Pratibha Singh

List of Publications by Year
in descending order

101 papers	6,449 citations	101384 36 h-index	71532 76 g-index
143 all docs	143 docs citations	143 times ranked	6306 citing authors

#	Article	IF	Citations
1	Arsenic contamination, consequences and remediation techniques: A review. Ecotoxicology and Environmental Safety, 2015, 112, 247-270.	2.9	863
2	An overview on manufactured nanoparticles in plants: Uptake, translocation, accumulation and phytotoxicity. Plant Physiology and Biochemistry, 2017, 110, 2-12.	2.8	579
3	Roles of osmoprotectants in improving salinity and drought tolerance in plants: a review. Reviews in Environmental Science and Biotechnology, 2015, 14, 407-426.	3.9	433
4	Silicon nanoparticles more effectively alleviated UV-B stress than silicon in wheat (Triticum aestivum) seedlings. Plant Physiology and Biochemistry, 2017, 110, 70-81.	2.8	411
5	Silicon nanoparticles (SiNp) alleviate chromium (VI) phytotoxicity in Pisum sativum (L.) seedlings. Plant Physiology and Biochemistry, 2015, 96, 189-198.	2.8	407
6	Nitric oxide alleviates silver nanoparticles (AgNps)-induced phytotoxicity in Pisum sativum seedlings. Plant Physiology and Biochemistry, 2017, 110, 167-177.	2.8	291
7	Hydrogen sulfide alleviates toxic effects of arsenate in pea seedlings through up-regulation of the ascorbateâ€“glutathione cycle: Possible involvement of nitric oxide. Journal of Plant Physiology, 2015, 181, 20-29.	1.6	212
8	Silicon-mediated alleviation of Cr(VI) toxicity in wheat seedlings as evidenced by chlorophyll florescence, laser induced breakdown spectroscopy and anatomical changes. Ecotoxicology and Environmental Safety, 2015, 113, 133-144.	2.9	152
9	Reactive oxygen species signaling and stomatal movement: Current updates and future perspectives. Redox Biology, 2017, 11, 213-218.	3.9	126
10	Nitric oxide alleviates arsenic-induced toxic effects in ridged Luffa seedlings. Plant Physiology and Biochemistry, 2013, 71, 155-163.	2.8	122
11	Exogenous proline application ameliorates toxic effects of arsenate in Solanum melongena L. seedlings. Ecotoxicology and Environmental Safety, 2015, 117, 164-173.	2.9	99
12	Exogenous IAA differentially affects growth, oxidative stress and antioxidants system in Cd stressed Trigonella foenum-graecum L. seedlings: Toxicity alleviation by up-regulation of ascorbate-glutathione cycle. Ecotoxicology and Environmental Safety, 2016, 132, 329-338.	2.9	96
13	New adventitious root formation and primary root biomass accumulation are regulated by nitric oxide and reactive oxygen species in rice seedlings under arsenate stress. Journal of Hazardous Materials, 2019, 361, 134-140.	6.5	87
14	Reduction of heavy metal load in food chain: technology assessment. Reviews in Environmental Science and Biotechnology, 2011, 10, 199-214.	3.9	85
15	Responses of photosynthesis, nitrogen and proline metabolism to salinity stress in Solanum lycopersicum under different levels of nitrogen supplementation. Plant Physiology and Biochemistry, 2016, 109, 72-83.	2.8	84
16	LIB spectroscopic and biochemical analysis to characterize lead toxicity alleviative nature of silicon in wheat (Triticum aestivum L.) seedlings. Journal of Photochemistry and Photobiology B: Biology, 2016, 154, 89-98.	1.7	75
17	A brief appraisal of ethylene signaling under abiotic stress in plants. Plant Signaling and Behavior, 2020, 15, 1782051.	1.2	64
18	Indole acetic acid modulates changes in growth, chlorophyll a fluorescence and antioxidant potential of Trigonella foenum-graecum L. grown under cadmium stress. Acta Physiologiae Plantarum, 2015, 37, 1.	1.0	63

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19	IAA alleviates Cd toxicity on growth, photosynthesis and oxidative damages in eggplant seedlings. Plant Growth Regulation, 2015, 77, 87-98.	1.8	63
20	Fascinating impact of silicon and silicon transporters in plants: A review. Ecotoxicology and Environmental Safety, 2020, 202, 110885.	2.9	62
21	Management of chromium (VI) toxicity by calcium and sulfur in tomato and brinjal: Implication of nitric oxide. Journal of Hazardous Materials, 2019, 373, 212-223.	6.5	59
22	Regulation of ascorbate-glutathione cycle by exogenous nitric oxide and hydrogen peroxide in soybean roots under arsenate stress. Journal of Hazardous Materials, 2021, 409, 123686.	6.5	59
23	Growth, photosynthesis, active oxygen species and antioxidants responses of paddy field cyanobacterium Plectonema boryanum to endosulfan stress. Journal of General and Applied Microbiology, 2005, 51, 115-123.	0.4	58
24	Interactive Effect of Silicon (Si) and Salicylic Acid (SA) in Maize Seedlings and Their Mechanisms of Cadmium (Cd) Toxicity Alleviation. Journal of Plant Growth Regulation, 2019, 38, 1587-1597.	2.8	55
25	Regulation of cadmium toxicity in roots of tomato by indole acetic acid with special emphasis on reactive oxygen species production and their scavenging. Plant Physiology and Biochemistry, 2019, 142, 193-201.	2.8	54
26	Toxicity assessment of arsenate and arsenite on growth, chlorophyll a fluorescence and antioxidant machinery in Nostoc muscorum. Ecotoxicology and Environmental Safety, 2018, 157, 369-379.	2.9	50
27	Nitrogen alleviates salinity toxicity in Solanum lycopersicum seedlings by regulating ROS homeostasis. Plant Physiology and Biochemistry, 2019, 141, 466-476.	2.8	48
28	Dimethoate modifies enhanced UV-B effects on growth, photosynthesis and oxidative stress in mung bean (Vigna radiata L.) seedlings: Implication of salicylic acid. Pesticide Biochemistry and Physiology, 2014, 116, 13-23.	1.6	47
29	Silicon and plant growth promoting rhizobacteria differentially regulate AgNP-induced toxicity in Brassica juncea: Implication of nitric oxide. Journal of Hazardous Materials, 2020, 390, 121806.	6.5	46
30	Effect of agro-industrial waste amendment on Cd uptake in Amaranthus caudatus grown under contaminated soil: An oxidative biomarker response. Ecotoxicology and Environmental Safety, 2014, 100, 105-113.	2.9	45
31	Sulphur alters chromium (VI) toxicity in Solanum melongena seedlings: Role of sulphur assimilation and sulphur-containing antioxidants. Plant Physiology and Biochemistry, 2017, 112, 183-192.	2.8	45
32	Cadmium toxicity and its amelioration by kinetin in tomato seedlings vis-Ã-vis ascorbate-glutathione cycle. Journal of Photochemistry and Photobiology B: Biology, 2018, 178, 76-84.	1.7	43
33	Nitric oxide in plants: an ancient molecule with new tasks. Plant Growth Regulation, 2020, 90, 1-13.	1.8	42
34	Retrograde signaling between plastid and nucleus: A review. Journal of Plant Physiology, 2015, 181, 55-66.	1.6	39
35	Silicon and nitric oxideâ€mediated mechanisms of cadmium toxicity alleviation in wheat seedlings. Physiologia Plantarum, 2022, 174, .	2.6	39
36	Changing scenario in plant UV-B research:UV-B from a generic stressor to a specific regulator. Journal of Photochemistry and Photobiology B: Biology, 2015, 153, 334-343.	1.7	38

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37	Additional calcium and sulfur manages hexavalent chromium toxicity in Solanum lycopersicum L. and Solanum melongena L. seedlings by involving nitric oxide. Journal of Hazardous Materials, 2020, 398, 122607.	6.5	38
38	UV-B and cadmium induced changes in pigments, photosynthetic electron transport activity, antioxidant levels and antioxidative enzyme activities of Riccia sp.. Acta Physiologiae Plantarum, 2004, 26, 423-430.	1.0	37
39	Antioxidant enzyme responses to the oxidative stress due to chlorpyrifos, dimethoate and dieldrin stress in palak (Spinacia oleracea L.) and their toxicity alleviation by soil amendments in tropical croplands. Science of the Total Environment, 2018, 630, 839-848.	3.9	37
40	Kinetin alleviates chromium toxicity on growth and PS II photochemistry in Nostoc muscorum by regulating antioxidant system. Ecotoxicology and Environmental Safety, 2018, 161, 296-304.	2.9	37
41	Impact of Cd stress on cellular functioning and its amelioration by phytohormones: An overview on regulatory network. Plant Growth Regulation, 2016, 80, 253-263.	1.8	36
42	Effects of 28-homobrassinoloid on key physiological attributes of Solanum lycopersicum seedlings under cadmium stress: Photosynthesis and nitrogen metabolism. Plant Growth Regulation, 2017, 82, 161-173.	1.8	35
43	Differential responses of pea seedlings to indole acetic acid under manganese toxicity. Acta Physiologiae Plantarum, 2011, 33, 451-462.	1.0	34
44	Liquid assisted pulsed laser ablation synthesized copper oxide nanoparticles (CuO-NPs) and their differential impact on rice seedlings. Ecotoxicology and Environmental Safety, 2019, 176, 321-329.	2.9	33
45	Role of salicylic acid-seed priming in the regulation of chromium (VI) and UV-B toxicity in maize seedlings. Plant Growth Regulation, 2016, 78, 79-91.	1.8	32
46	NaCl-induced physiological and biochemical changes in two cyanobacteria Nostoc muscorum and Phormidium foveolarum acclimatized to different photosynthetically active radiation. Journal of Photochemistry and Photobiology B: Biology, 2015, 151, 221-232.	1.7	30
47	Kinetin Regulates UV-B-Induced Damage to Growth, Photosystem II Photochemistry, and Nitrogen Metabolism in Tomato Seedlings. Journal of Plant Growth Regulation, 2018, 37, 233-245.	2.8	30
48	Physiological and biochemical characterization of two Amaranthus species under Cr(VI) stress differing in Cr(VI) tolerance. Plant Physiology and Biochemistry, 2016, 108, 12-23.	2.8	28
49	Differential physiological and biochemical responses of two Vigna species under enhanced UV-B radiation. Journal of Radiation Research and Applied Sciences, 2015, 8, 173-181.	0.7	27
50	Silicon tackles butachlor toxicity in rice seedlings by regulating anatomical characteristics, ascorbate-glutathione cycle, proline metabolism and levels of nutrients. Scientific Reports, 2020, 10, 14078.	1.6	27
51	Signaling molecules hydrogen sulfide (H2S) and nitric oxide (NO): role in microalgae under adverse environmental conditions. Acta Physiologiae Plantarum, 2022, 44, 1.	1.0	27
52	UV-B induces biomass production and nonenzymatic antioxidant compounds in three cyanobacteria. Journal of Applied Phycology, 2016, 28, 131-140.	1.5	26
53	Interplay of Calcium and Nitric Oxide in improvement of Growth and Arsenic-induced Toxicity in Mustard Seedlings. Scientific Reports, 2020, 10, 6900.	1.6	26
54	Arsenic contamination, speciation, toxicity and defense strategies in plants. Revista Brasileira De Botanica, 2021, 44, 1-10.	0.5	25

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55	Simultaneous exposure of sulphur and calcium hinder As toxicity: Up-regulation of growth, mineral nutrients uptake and antioxidants system. Ecotoxicology and Environmental Safety, 2018, 161, 318-331.	2.9	24
56	Implication of Nitric Oxide Under Salinity Stress: The Possible Interaction with Other Signaling Molecules. Journal of Plant Growth Regulation, 2022, 41, 163-177.	2.8	24
57	Phytoremediation potential of weed plantsâ€™ oxidative biomarker and antioxidant responses. Chemistry and Ecology, 2016, 32, 684-706.	0.6	23
58	Regulation of plants metabolism in response to salt stress: an omics approach. Acta Physiologiae Plantarum, 2017, 39, 1.	1.0	22
59	Ethylene needs endogenous hydrogen sulfide for alleviating hexavalent chromium stress in Vigna mungo L. and Vigna radiata L.. Environmental Pollution, 2021, 290, 117968.	3.7	21
60	Toxicity of endosulfan on growth, photosynthesis, and nitrogenase activity in two species of<i>Nostoc</i>(<i>Nostoc muscorum</i>and<i>Nostoc calcicola</i>). Toxicological and Environmental Chemistry, 2011, 93, 513-525.	0.6	20
61	Sulphur and calcium attenuate arsenic toxicity inBrassicaby adjusting ascorbateâ€"glutathione cycle and sulphur metabolism. Plant Growth Regulation, 2020, 91, 221-235.	1.8	20
62	Metabolic responses of <i>Azolla pinnata</i> to cadmium stress: photosynthesis, antioxidative system and phytoremediation. Chemistry and Ecology, 2011, 27, 543-555.	0.6	19
63	Interactive effects of herbicide and enhanced UV-B on growth, oxidative damage and the ascorbate-glutathione cycle in two Azolla species. Ecotoxicology and Environmental Safety, 2016, 133, 341-349.	2.9	18
64	Micro RNAs and nitric oxide cross talk in stress tolerance in plants. Plant Growth Regulation, 2017, 83, 199-205.	1.8	18
65	Phytohormone up-regulates the biochemical constituent, exopolysaccharide and nitrogen metabolism in paddy-field cyanobacteria exposed to chromium stress. BMC Microbiology, 2020, 20, 206.	1.3	18
66	Kinetin mitigates Cd-induced damagesto growth, photosynthesis and PS II photochemistry of Trigonella seedlings by up-regulating ascorbate-glutathione cycle. PLoS ONE, 2021, 16, e0249230.	1.1	18
67	Regulation of redox homeostasis in cadmium stressed rice field cyanobacteria by exogenous hydrogen peroxide and nitric oxide. Scientific Reports, 2021, 11, 2893.	1.6	17
68	Oxygen toxicity and antioxidative responses in arsenic stressed Helianthus annuus L. seedlings against UV-B. Journal of Photochemistry and Photobiology B: Biology, 2016, 165, 58-70.	1.7	16
69	Managing arsenic (V) toxicity by phosphate supplementation in rice seedlings: modulations in AsA-GSH cycle and other antioxidant enzymes. Environmental Science and Pollution Research, 2022, 29, 14418-14429.	2.7	16
70	Light intensity determines the extent of mercury toxicity in the cyanobacterium Nostoc muscorum. Acta Physiologiae Plantarum, 2012, 34, 1119-1131.	1.0	15
71	Kinetin Alleviates UV-B-Induced Damage in Solanum lycopersicum: Implications of Phenolics and Antioxidants. Journal of Plant Growth Regulation, 2019, 38, 831-841.	2.8	15
72	Effect of Time Interval on Arsenic Toxicity to Paddy Field Cyanobacteria as Evident by Nitrogen Metabolism, Biochemical Constituent, and Exopolysaccharide Content. Biological Trace Element Research, 2021, 199, 2031-2046.	1.9	15

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73	Hydrogen sulfide implications on easing NaCl induced toxicity in eggplant and tomato seedlings. Plant Physiology and Biochemistry, 2021, 164, 173-184.	2.8	15
74	Differential effects of UV-B radiation fluence rates on growth, photosynthesis, and phosphate metabolism in two cyanobacteria under copper toxicity. Toxicological and Environmental Chemistry, 2012, 94, 1511-1535.	0.6	14
75	Impact of low and high fluence rates of UV-B radiation on growth and oxidative stress in Phormidium foveolarum and Nostoc muscorum under copper toxicity: differential display of antioxidants system. Acta Physiologiae Plantarum, 2012, 34, 2225-2239.	1.0	13
76	Regulation of insecticide toxicity by kinetin in two paddy field cyanobacteria: Physiological and biochemical assessment. Environmental Pollution, 2020, 259, 113806.	3.7	13
77	Low and high doses of UV-B differentially modulate chlorpyrifos-induced alterations in nitrogen metabolism of cyanobacteria. Ecotoxicology and Environmental Safety, 2014, 107, 291-299.	2.9	12
78	Physiological, biochemical and growth responses of<i>Azolla pinnata</i>to chlorpyrifos and cypermethrin pesticides exposure: a comparative study. Chemistry and Ecology, 2015, 31, 285-298.	0.6	12
79	Photoreceptors mapping from past history till date. Journal of Photochemistry and Photobiology B: Biology, 2016, 162, 223-231.	1.7	12
80	Evaluating the combined effects of pretilachlor and UV-B on two Azolla species. Pesticide Biochemistry and Physiology, 2016, 128, 45-56.	1.6	12
81	Cytokinin alleviates cypermethrin toxicity in Nostoc muscorum by involving nitric oxide: Regulation of exopolysaccharides secretion, PS II photochemistry and reactive oxygen species homeostasis. Chemosphere, 2020, 259, 127356.	4.2	12
82	Silicon and nitric oxide interplay alleviates copper induced toxicity in mung bean seedlings. Plant Physiology and Biochemistry, 2021, 167, 713-722.	2.8	12
83	GABA Requires Nitric Oxide for Alleviating Arsenate Stress in Tomato and Brinjal Seedlings. Journal of Plant Growth Regulation, 2023, 42, 670-683.	2.8	12
84	An Appraisal of Ancient Molecule GABA in Abiotic Stress Tolerance in Plants, and Its Crosstalk with Other Signaling Molecules. Journal of Plant Growth Regulation, 2023, 42, 614-629.	2.8	11
85	Synergistic action of indole acetic acid with homobrassinolide in easing the NaCl-induced toxicity in Solanum melongena L. seedlings. Acta Physiologiae Plantarum, 2020, 42, 1.	1.0	10
86	PSII photochemistry, oxidative damage and anti-oxidative enzymes in arsenate-stressed Oryza sativa L. seedlings. Chemistry and Ecology, 2017, 33, 34-50.	0.6	9
87	Arsenate and arsenite-induced inhibition and recovery in two diazotrophic cyanobacteria Nostoc muscorum and Anabaena sp.: study on time-dependent toxicity regulation. Environmental Science and Pollution Research, 2021, 28, 51088-51104.	2.7	7
88	A lucrative technique to reduce Ni toxicity in Raphanus sativus plant by phosphate amendment: Special reference to plant metabolism. Ecotoxicology and Environmental Safety, 2015, 119, 81-89.	2.9	6
89	Pretilachlor toxicity is decided by discrete photo-acclimatizing conditions: Physiological and biochemical evidence from Anabaena sp. and Nostoc muscorum. Ecotoxicology and Environmental Safety, 2018, 156, 344-353.	2.9	5
90	Nostoc muscorum and Phormidium foveolarum differentially respond to butachlor and UV-B stress. Physiology and Molecular Biology of Plants, 2020, 26, 841-856.	1.4	5

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91	5-aminolevulinic acid (ALA) regulates photosynthetic performance and nitrogen metabolism status in UV-B challenged Cajanus cajan L. seedlings. Journal of Plant Biochemistry and Biotechnology, 2022, 31, 250-270.	0.9	5
92	Antifungal Activity of Methanolic of Centella asiatica and Andrographis panicuiata. Mycobiology, 2000, 28, 185-189.	0.6	4
93	Role of oxylipin on Luffa seedlings exposed to NaCl and UV-B stresses: An insight into mechanism. Plant Physiology and Biochemistry, 2021, 167, 691-704.	2.8	4
94	Interplay of hydrogen peroxide and nitric oxide: systemic regulation of photosynthetic performance and nitrogen metabolism in cadmium challenged cyanobacteria. Physiology and Molecular Biology of Plants, 2021, 27, 2181-2199.	1.4	4
95	Antioxidant System Against Active Oxygen Species in Cyanobacterium Aphanothece stagnina: Response to Excess Light Under Cadmium Stress. Proceedings of the National Academy of Sciences India Section B - Biological Sciences, 2015, 85, 535-543.	0.4	3
96	Calcium mediated nitric oxide responses: Acquisition of nickel stress tolerance in cyanobacterium Nostoc muscorum ATCC 27893. Biochemistry and Biophysics Reports, 2021, 26, 100953.	0.7	3
97	Auxin and Cytokinin Alleviate Chromium-Induced Oxidative Stress in Nostoc muscorum and Anabaena sp. by Modulating Ascorbateâ€–Glutathione Cycle. Journal of Plant Growth Regulation, 2022, 41, 2743-2758.	2.8	3
98	Differential response of copper nanoparticles and ionic copper on growth, chlorophyll fluorescence, oxidative stress, and antioxidant machinery of two paddy field cyanobacteria. Ecotoxicology, 2022, 31, 933-947.	1.1	3
99	Î±-Ketoglutarate Enhanced Solanum melongenaÂL. Growth: Acceleration of Nitrogen Assimilating Enzymes and Antioxidant System Under Arsenate Toxicity. Journal of Plant Growth Regulation, 2022, 41, 1699-1713.	2.8	2
100	Role of nano-powder of<i>Azadirachta indica</i>leaves to regulate the physiological responses and metal uptake in<i>Triticum aestivum</i>seedlings. Chemistry and Ecology, 2019, 35, 483-499.	0.6	1
101	AN ECO SUSTAINABLE TECHNIQUE TO REDUCE CADMIUM AVAILABILITY TO Amaranthus caudatus GROWN UNDER AGRICULTURAL WASTE AND FERTILISER AMENDED SOIL: GROWTH AND PHYSIOLOGICAL RESPONSE. Environmental Engineering and Management Journal, 2013, 12, 2299-2309.	0.2	0