

# Pratibha Singh

## List of Publications by Year in descending order

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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	GABA Requires Nitric Oxide for Alleviating Arsenate Stress in Tomato and Brinjal Seedlings. <i>Journal of Plant Growth Regulation</i> , 2023, 42, 670-683.	2.8	12
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> , 2023, 42, 614-629.	2.8	11
3	Silicon and nitric oxide-mediated mechanisms of cadmium toxicity alleviation in wheat seedlings. <i>Physiologia Plantarum</i> , 2022, 174, .	2.6	39
4	Implication of Nitric Oxide Under Salinity Stress: The Possible Interaction with Other Signaling Molecules. <i>Journal of Plant Growth Regulation</i> , 2022, 41, 163-177.	2.8	24
5	5-aminolevulinic acid (ALA) regulates photosynthetic performance and nitrogen metabolism status in UV-B challenged <i>Cajanus cajan</i> L. seedlings. <i>Journal of Plant Biochemistry and Biotechnology</i> , 2022, 31, 250-270.	0.9	5
6	Î±-Ketoglutarate Enhanced <i>Solanum melongena</i> L. Growth: Acceleration of Nitrogen Assimilating Enzymes and Antioxidant System Under Arsenate Toxicity. <i>Journal of Plant Growth Regulation</i> , 2022, 41, 1699-1713.	2.8	2
7	Auxin and Cytokinin Alleviate Chromium-Induced Oxidative Stress in <i>Nostoc muscorum</i> and <i>Anabaena</i> sp. by Modulating Ascorbate-Glutathione Cycle. <i>Journal of Plant Growth Regulation</i> , 2022, 41, 2743-2758.	2.8	3
8	Managing arsenic (V) toxicity by phosphate supplementation in rice seedlings: modulations in AsA-GSH cycle and other antioxidant enzymes. <i>Environmental Science and Pollution Research</i> , 2022, 29, 14418-14429.	2.7	16
9	Signaling molecules hydrogen sulfide (H <sub>2</sub> S) and nitric oxide (NO): role in microalgae under adverse environmental conditions. <i>Acta Physiologiae Plantarum</i> , 2022, 44, 1.	1.0	27
10	Differential response of copper nanoparticles and ionic copper on growth, chlorophyll fluorescence, oxidative stress, and antioxidant machinery of two paddy field cyanobacteria. <i>Ecotoxicology</i> , 2022, 31, 933-947.	1.1	3
11	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.	6.5	59
12	Effect of Time Interval on Arsenic Toxicity to Paddy Field Cyanobacteria as Evident by Nitrogen Metabolism, Biochemical Constituent, and Exopolysaccharide Content. <i>Biological Trace Element Research</i> , 2021, 199, 2031-2046.	1.9	15
13	Arsenic contamination, speciation, toxicity and defense strategies in plants. <i>Revista Brasileira De Botanica</i> , 2021, 44, 1-10.	0.5	25
14	Regulation of redox homeostasis in cadmium stressed rice field cyanobacteria by exogenous hydrogen peroxide and nitric oxide. <i>Scientific Reports</i> , 2021, 11, 2893.	1.6	17
15	Arsenate and arsenite-induced inhibition and recovery in two diazotrophic cyanobacteria <i>Nostoc muscorum</i> and <i>Anabaena</i> sp.: study on time-dependent toxicity regulation. <i>Environmental Science and Pollution Research</i> , 2021, 28, 51088-51104.	2.7	7
16	Kinetin mitigates Cd-induced damage to growth, photosynthesis and PS II photochemistry of <i>Trigonella</i> seedlings by up-regulating ascorbate-glutathione cycle. <i>PLoS ONE</i> , 2021, 16, e0249230.	1.1	18
17	Calcium mediated nitric oxide responses: Acquisition of nickel stress tolerance in cyanobacterium <i>Nostoc muscorum</i> ATCC 27893. <i>Biochemistry and Biophysics Reports</i> , 2021, 26, 100953.	0.7	3
18	Hydrogen sulfide implications on easing NaCl induced toxicity in eggplant and tomato seedlings. <i>Plant Physiology and Biochemistry</i> , 2021, 164, 173-184.	2.8	15

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19	Silicon and nitric oxide interplay alleviates copper induced toxicity in mung bean seedlings. <i>Plant Physiology and Biochemistry</i> , 2021, 167, 713-722.	2.8	12
20	Role of oxylipin on Luffa seedlings exposed to NaCl and UV-B stresses: An insight into mechanism. <i>Plant Physiology and Biochemistry</i> , 2021, 167, 691-704.	2.8	4
21	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> , 2021, 290, 117968.	3.7	21
22	Interplay of hydrogen peroxide and nitric oxide: systemic regulation of photosynthetic performance and nitrogen metabolism in cadmium challenged cyanobacteria. <i>Physiology and Molecular Biology of Plants</i> , 2021, 27, 2181-2199.	1.4	4
23	Nitric oxide in plants: an ancient molecule with new tasks. <i>Plant Growth Regulation</i> , 2020, 90, 1-13.	1.8	42
24	Regulation of insecticide toxicity by kinetin in two paddy field cyanobacteria: Physiological and biochemical assessment. <i>Environmental Pollution</i> , 2020, 259, 113806.	3.7	13
25	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.	6.5	46
26	A brief appraisal of ethylene signaling under abiotic stress in plants. <i>Plant Signaling and Behavior</i> , 2020, 15, 1782051.	1.2	64
27	Phytohormone up-regulates the biochemical constituent, exopolysaccharide and nitrogen metabolism in paddy-field cyanobacteria exposed to chromium stress. <i>BMC Microbiology</i> , 2020, 20, 206.	1.3	18
28	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.	1.6	27
29	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.	4.2	12
30	Fascinating impact of silicon and silicon transporters in plants: A review. <i>Ecotoxicology and Environmental Safety</i> , 2020, 202, 110885.	2.9	62
31	<i>Nostoc muscorum</i> and <i>Phormidium foveolarum</i> differentially respond to butachlor and UV-B stress. <i>Physiology and Molecular Biology of Plants</i> , 2020, 26, 841-856.	1.4	5
32	Sulphur and calcium attenuate arsenic toxicity in Brassica by adjusting ascorbate-glutathione cycle and sulphur metabolism. <i>Plant Growth Regulation</i> , 2020, 91, 221-235.	1.8	20
33	Synergistic action of indole acetic acid with homobrassinolide in easing the NaCl-induced toxicity in <i>Solanum melongena</i> L. seedlings. <i>Acta Physiologiae Plantarum</i> , 2020, 42, 1.	1.0	10
34	Interplay of Calcium and Nitric Oxide in improvement of Growth and Arsenic-induced Toxicity in Mustard Seedlings. <i>Scientific Reports</i> , 2020, 10, 6900.	1.6	26
35	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> , 2020, 398, 122607.	6.5	38
36	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.	6.5	87

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37	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.	2.8	55
38	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.	2.8	54
39	Role of nano-powder of <i>Azadirachta indica</i> leaves to regulate the physiological responses and metal uptake in <i>Triticum aestivum</i> seedlings. <i>Chemistry and Ecology</i> , 2019, 35, 483-499.	0.6	1
40	Nitrogen alleviates salinity toxicity in <i>Solanum lycopersicum</i> seedlings by regulating ROS homeostasis. <i>Plant Physiology and Biochemistry</i> , 2019, 141, 466-476.	2.8	48
41	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.	2.9	33
42	Management of chromium (VI) toxicity by calcium and sulfur in tomato and brinjal: Implication of nitric oxide. <i>Journal of Hazardous Materials</i> , 2019, 373, 212-223.	6.5	59
43	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.	2.8	15
44	Antioxidant enzyme responses to the oxidative stress due to chlorpyrifos, dimethoate and dieldrin stress in palak ( <i>Spinacia oleracea</i> L.) and their toxicity alleviation by soil amendments in tropical croplands. <i>Science of the Total Environment</i> , 2018, 630, 839-848.	3.9	37
45	Toxicity assessment of arsenate and arsenite on growth, chlorophyll a fluorescence and antioxidant machinery in <i>Nostoc muscorum</i> . <i>Ecotoxicology and Environmental Safety</i> , 2018, 157, 369-379.	2.9	50
46	Pretilachlor toxicity is decided by discrete photo-acclimatizing conditions: Physiological and biochemical evidence from <i>Anabaena</i> sp. and <i>Nostoc muscorum</i> . <i>Ecotoxicology and Environmental Safety</i> , 2018, 156, 344-353.	2.9	5
47	Cadmium toxicity and its amelioration by kinetin in tomato seedlings vis-à-vis ascorbate-glutathione cycle. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2018, 178, 76-84.	1.7	43
48	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.	2.8	30
49	Kinetin alleviates chromium toxicity on growth and PS II photochemistry in <i>Nostoc muscorum</i> by regulating antioxidant system. <i>Ecotoxicology and Environmental Safety</i> , 2018, 161, 296-304.	2.9	37
50	Simultaneous exposure of sulphur and calcium hinder As toxicity: Up-regulation of growth, mineral nutrients uptake and antioxidants system. <i>Ecotoxicology and Environmental Safety</i> , 2018, 161, 318-331.	2.9	24
51	Nitric oxide alleviates silver nanoparticles (AgNps)-induced phytotoxicity in <i>Pisum sativum</i> seedlings. <i>Plant Physiology and Biochemistry</i> , 2017, 110, 167-177.	2.8	291
52	Micro RNAs and nitric oxide cross talk in stress tolerance in plants. <i>Plant Growth Regulation</i> , 2017, 83, 199-205.	1.8	18
53	PSII photochemistry, oxidative damage and anti-oxidative enzymes in arsenate-stressed <i>Oryza sativa</i> L. seedlings. <i>Chemistry and Ecology</i> , 2017, 33, 34-50.	0.6	9
54	Effects of 28-homobrassinoloid on key physiological attributes of <i>Solanum lycopersicum</i> seedlings under cadmium stress: Photosynthesis and nitrogen metabolism. <i>Plant Growth Regulation</i> , 2017, 82, 161-173.	1.8	35

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55	Regulation of plants metabolism in response to salt stress: an omics approach. <i>Acta Physiologiae Plantarum</i> , 2017, 39, 1.	1.0	22
56	Reactive oxygen species signaling and stomatal movement: Current updates and future perspectives. <i>Redox Biology</i> , 2017, 11, 213-218.	3.9	126
57	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.	2.8	45
58	An overview on manufactured nanoparticles in plants: Uptake, translocation, accumulation and phytotoxicity. <i>Plant Physiology and Biochemistry</i> , 2017, 110, 2-12.	2.8	579
59	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.	2.8	411
60	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.	2.8	28
61	Phytoremediation potential of weed plants's oxidative biomarker and antioxidant responses. <i>Chemistry and Ecology</i> , 2016, 32, 684-706.	0.6	23
62	Impact of Cd stress on cellular functioning and its amelioration by phytohormones: An overview on regulatory network. <i>Plant Growth Regulation</i> , 2016, 80, 253-263.	1.8	36
63	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.	2.8	84
64	Interactive effects of herbicide and enhanced UV-B on growth, oxidative damage and the ascorbate-glutathione cycle in two <i>Azolla</i> species. <i>Ecotoxicology and Environmental Safety</i> , 2016, 133, 341-349.	2.9	18
65	Exogenous IAA differentially affects growth, oxidative stress and antioxidants system in Cd stressed <i>Trigonella foenum-graecum</i> L. seedlings: Toxicity alleviation by up-regulation of ascorbate-glutathione cycle. <i>Ecotoxicology and Environmental Safety</i> , 2016, 132, 329-338.	2.9	96
66	Oxygen toxicity and antioxidative responses in arsenic stressed <i>Helianthus annuus</i> L. seedlings against UV-B. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2016, 165, 58-70.	1.7	16
67	Photoreceptors mapping from past history till date. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2016, 162, 223-231.	1.7	12
68	Evaluating the combined effects of pretilachlor and UV-B on two <i>Azolla</i> species. <i>Pesticide Biochemistry and Physiology</i> , 2016, 128, 45-56.	1.6	12
69	UV-B induces biomass production and nonenzymatic antioxidant compounds in three cyanobacteria. <i>Journal of Applied Phycology</i> , 2016, 28, 131-140.	1.5	26
70	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.	1.8	32
71	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.	1.7	75
72	Retrograde signaling between plastid and nucleus: A review. <i>Journal of Plant Physiology</i> , 2015, 181, 55-66.	1.6	39

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73	Differential physiological and biochemical responses of two <i>Vigna</i> species under enhanced UV-B radiation. <i>Journal of Radiation Research and Applied Sciences</i> , 2015, 8, 173-181.	0.7	27
74	Physiological, biochemical and growth responses of <i>Azolla pinnata</i> to chlorpyrifos and cypermethrin pesticides exposure: a comparative study. <i>Chemistry and Ecology</i> , 2015, 31, 285-298.	0.6	12
75	Antioxidant System Against Active Oxygen Species in Cyanobacterium <i>Aphanothece stagnina</i> : Response to Excess Light Under Cadmium Stress. <i>Proceedings of the National Academy of Sciences India Section B - Biological Sciences</i> , 2015, 85, 535-543.	0.4	3
76	Indole acetic acid modulates changes in growth, chlorophyll a fluorescence and antioxidant potential of <i>Trigonella foenum-graecum</i> L. grown under cadmium stress. <i>Acta Physiologiae Plantarum</i> , 2015, 37, 1.	1.0	63
77	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.	3.9	433
78	Silicon nanoparticles (SiNp) alleviate chromium (VI) phytotoxicity in <i>Pisum sativum</i> (L.) seedlings. <i>Plant Physiology and Biochemistry</i> , 2015, 96, 189-198.	2.8	407
79	IAA alleviates Cd toxicity on growth, photosynthesis and oxidative damages in eggplant seedlings. <i>Plant Growth Regulation</i> , 2015, 77, 87-98.	1.8	63
80	Exogenous proline application ameliorates toxic effects of arsenate in <i>Solanum melongena</i> L. seedlings. <i>Ecotoxicology and Environmental Safety</i> , 2015, 117, 164-173.	2.9	99
81	A lucrative technique to reduce Ni toxicity in <i>Raphanus sativus</i> plant by phosphate amendment: Special reference to plant metabolism. <i>Ecotoxicology and Environmental Safety</i> , 2015, 119, 81-89.	2.9	6
82	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, 20-29.	1.6	212
83	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, 334-343.	1.7	38
84	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, 221-232.	1.7	30
85	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, 133-144.	2.9	152
86	Arsenic contamination, consequences and remediation techniques: A review. <i>Ecotoxicology and Environmental Safety</i> , 2015, 112, 247-270.	2.9	863
87	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, 291-299.	2.9	12
88	Effect of agro-industrial waste amendment on Cd uptake in <i>Amaranthus caudatus</i> grown under contaminated soil: An oxidative biomarker response. <i>Ecotoxicology and Environmental Safety</i> , 2014, 100, 105-113.	2.9	45
89	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.	1.6	47
90	Nitric oxide alleviates arsenic-induced toxic effects in ridged <i>Luffa</i> seedlings. <i>Plant Physiology and Biochemistry</i> , 2013, 71, 155-163.	2.8	122

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91	AN ECO SUSTAINABLE TECHNIQUE TO REDUCE CADMIUM AVAILABILITY TO <i>Amaranthus caudatus</i> GROWN UNDER AGRICULTURAL WASTE AND FERTILISER AMENDED SOIL: GROWTH AND PHYSIOLOGICAL RESPONSE. <i>Environmental Engineering and Management Journal</i> , 2013, 12, 2299-2309.	0.2	0
92	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.	0.6	14
93	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.	1.0	13
94	Light intensity determines the extent of mercury toxicity in the cyanobacterium <i>Nostoc muscorum</i> . <i>Acta Physiologiae Plantarum</i> , 2012, 34, 1119-1131.	1.0	15
95	Reduction of heavy metal load in food chain: technology assessment. <i>Reviews in Environmental Science and Biotechnology</i> , 2011, 10, 199-214.	3.9	85
96	Differential responses of pea seedlings to indole acetic acid under manganese toxicity. <i>Acta Physiologiae Plantarum</i> , 2011, 33, 451-462.	1.0	34
97	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> ). <i>Toxicological and Environmental Chemistry</i> , 2011, 93, 513-525.	0.6	20
98	Metabolic responses of <i>Azolla pinnata</i> to cadmium stress: photosynthesis, antioxidative system and phytoremediation. <i>Chemistry and Ecology</i> , 2011, 27, 543-555.	0.6	19
99	Growth, photosynthesis, active oxygen species and antioxidants responses of paddy field cyanobacterium <i>Plectonema boryanum</i> to endosulfan stress. <i>Journal of General and Applied Microbiology</i> , 2005, 51, 115-123.	0.4	58
100	UV-B and cadmium induced changes in pigments, photosynthetic electron transport activity, antioxidant levels and antioxidative enzyme activities of <i>Riccia</i> sp.. <i>Acta Physiologiae Plantarum</i> , 2004, 26, 423-430.	1.0	37
101	Antifungal Activity of Methanolic of <i>Centella asiatica</i> and <i>Andrographis paniculata</i> . <i>Mycobiology</i> , 2000, 28, 185-189.	0.6	4