

# Shashi Pandey-Rai

## List of Publications by Year in descending order

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Version: 2024-02-01

59  
papers

1,461  
citations

304602

22  
h-index

345118

36  
g-index

64  
all docs

64  
docs citations

64  
times ranked

1656  
citing authors

#	ARTICLE	IF	CITATIONS
1	Green and cost effective synthesis of silver nanoparticles from endangered medicinal plant <i>Withania coagulans</i> and their potential biomedical properties. <i>Materials Science and Engineering C</i> , 2019, 100, 152-164.	3.8	112
2	UV-B and UV-C pre-treatments induce physiological changes and artemisinin biosynthesis in <i>Artemisia annua</i> L. "An antimalarial plant. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2011, 105, 216-225.	1.7	88
3	Salicylic acid and nitric oxide signaling in plant heat stress. <i>Physiologia Plantarum</i> , 2020, 168, 241-255.	2.6	85
4	Salicylic acid and nitric oxide alleviate high temperature induced oxidative damage in <i>Lablab purpureus</i> L plants by regulating bio-physical processes and DNA methylation. <i>Plant Physiology and Biochemistry</i> , 2018, 128, 72-88.	2.8	67
5	Cultivar specific variations in antioxidative defense system, genome and proteome of two tropical rice cultivars against ambient and elevated ozone. <i>Ecotoxicology and Environmental Safety</i> , 2015, 115, 101-111.	2.9	64
6	Exogenous salicylic acid-mediated modulation of arsenic stress tolerance with enhanced accumulation of secondary metabolites and improved size of glandular trichomes in <i>Artemisia annua</i> L. <i>Protoplasma</i> , 2018, 255, 139-152.	1.0	58
7	Short term UV-B radiation-mediated transcriptional responses and altered secondary metabolism of in vitro propagated plantlets of <i>Artemisia annua</i> L.. <i>Plant Cell, Tissue and Organ Culture</i> , 2014, 116, 371-385.	1.2	57
8	Expression of terpenoid indole alkaloid biosynthetic pathway genes corresponds to accumulation of related alkaloids in <i>Catharanthus roseus</i> (L.) G. Don. <i>Planta</i> , 2005, 220, 376-383.	1.6	55
9	Arsenic-induced changes in morphological, physiological, and biochemical attributes and artemisinin biosynthesis in <i>Artemisia annua</i> , an antimalarial plant. <i>Ecotoxicology</i> , 2011, 20, 1900-1913.	1.1	52
10	Supplemental ultraviolet-B and ozone: impact on antioxidants, proteome and genome of linseed ( <i>Linum usitatissimum</i> L. cv. Padmini). <i>Plant Biology</i> , 2011, 13, 93-104.	1.8	49
11	Biotechnological strategies for enhancing heavy metal tolerance in neglected and underutilized legume crops: A comprehensive review. <i>Ecotoxicology and Environmental Safety</i> , 2021, 208, 111750.	2.9	46
12	GC-MS analysis of the essential oil of <i>Celastrus paniculatus</i> Willd. seeds and antioxidant, anti-inflammatory study of its various solvent extracts. <i>Industrial Crops and Products</i> , 2014, 61, 345-351.	2.5	42
13	Modulations of physiological responses and possible involvement of defense-related secondary metabolites in acclimation of <i>Artemisia annua</i> L. against short-term UV-B radiation. <i>Planta</i> , 2014, 240, 611-627.	1.6	40
14	Updates on artemisinin: an insight to mode of actions and strategies for enhanced global production. <i>Protoplasma</i> , 2016, 253, 15-30.	1.0	39
15	A rapid and cost-effective method of genomic DNA isolation from cyanobacterial culture, mat and soil suitable for genomic fingerprinting and community analysis. <i>Journal of Applied Phycology</i> , 2007, 19, 373-382.	1.5	37
16	Deciphering UV-B-induced variation in DNA methylation pattern and its influence on regulation of DBR2 expression in <i>Artemisia annua</i> L.. <i>Planta</i> , 2015, 242, 869-879.	1.6	35
17	Construction of genetic linkage map of the medicinal and ornamental plant <i>Catharanthus roseus</i> . <i>Journal of Genetics</i> , 2007, 86, 259-268.	0.4	33
18	Epigenetic control of UV-B-induced flavonoid accumulation in <i>Artemisia annua</i> L.. <i>Planta</i> , 2019, 249, 497-514.	1.6	31

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19	An improved thin cell layer culture system for efficient clonal propagation and in vitro withanolide production in a medicinal plant <i>Withania coagulans</i> Dunal. <i>Industrial Crops and Products</i> , 2018, 119, 172-182.	2.5	30
20	Enhanced arsenic tolerance and secondary metabolism by modulation of gene expression and proteome profile in <i>Artemisia annua</i> L. after application of exogenous salicylic acid. <i>Plant Physiology and Biochemistry</i> , 2018, 132, 590-602.	2.8	30
21	Enhanced Photosynthesis and Carbon Metabolism Favor Arsenic Tolerance in <i>Artemisia annua</i> , a Medicinal Plant as Revealed by Homology-Based Proteomics. <i>International Journal of Proteomics</i> , 2014, 2014, 1-21.	2.0	29
22	Untangling the UV-B radiation-induced transcriptional network regulating plant morphogenesis and secondary metabolite production. <i>Environmental and Experimental Botany</i> , 2021, 192, 104655.	2.0	26
23	An overview on miRNA-encoded peptides in plant biology research. <i>Genomics</i> , 2021, 113, 2385-2391.	1.3	24
24	Inhibition of imiquimod-induced psoriasis-like dermatitis in mice by herbal extracts from some Indian medicinal plants. <i>Protoplasma</i> , 2016, 253, 503-515.	1.0	21
25	Interactive role of salicylic acid and nitric oxide on transcriptional reprogramming for high temperature tolerance in <i>Lablab purpureus</i> L.: Structural and functional insights using computational approaches. <i>Journal of Biotechnology</i> , 2020, 309, 113-130.	1.9	20
26	microRNA 166: an evolutionarily conserved stress biomarker in land plants targeting HD-ZIP family. <i>Physiology and Molecular Biology of Plants</i> , 2021, 27, 2471-2485.	1.4	20
27	Protective effect of <i>Pueraria tuberosa</i> DC. embedded biscuit on cisplatin-induced nephrotoxicity in mice. <i>Journal of Natural Medicines</i> , 2012, 66, 109-118.	1.1	19
28	Volatile components of leaves and flowers of periwinkle <i>Catharanthus roseus</i> (L.) G. Don from New Delhi. <i>Flavour and Fragrance Journal</i> , 2006, 21, 427-430.	1.2	18
29	Prospects for Abiotic Stress Tolerance in Crops Utilizing Phyto- and Bio-Stimulants. <i>Frontiers in Sustainable Food Systems</i> , 2021, 5, .	1.8	18
30	Response of <i>Lablab purpureus</i> L. to high temperature stress and role of exogenous protectants in mitigating high temperature induced oxidative damages. <i>Molecular Biology Reports</i> , 2018, 45, 1375-1395.	1.0	17
31	Short term UV-B radiation mediated modulation of physiological traits and withanolides production in <i>Withania coagulans</i> (L.) Dunal under in-vitro condition. <i>Physiology and Molecular Biology of Plants</i> , 2021, 27, 1823-1835.	1.4	16
32	In vitro generation of high artemisinin yielding salt tolerant somaclonal variant and development of SCAR marker in <i>Artemisia annua</i> L.. <i>Plant Cell, Tissue and Organ Culture</i> , 2016, 127, 301-314.	1.2	15
33	Protection of <i>Artemisia annua</i> roots and leaves against oxidative stress induced by arsenic. <i>Biologia Plantarum</i> , 2017, 61, 367-377.	1.9	15
34	Impact of green synthesized WcAgNPs on in-vitro plant regeneration and withanolides production by inducing key biosynthetic genes in <i>Withania coagulans</i> . <i>Plant Cell Reports</i> , 2021, 40, 283-299.	2.8	15
35	Regulation of unipinnate character in the distal tendrilled domain of compound leaf-blade by the gene MULTIFOLIATE PINNA (MFP) in pea <i>Pisum sativum</i> . <i>Plant Science</i> , 2004, 166, 929-940.	1.7	14
36	Recent advancement in modern genomic tools for adaptation of <i>Lablab purpureus</i> L to biotic and abiotic stresses: present mechanisms and future adaptations. <i>Acta Physiologiae Plantarum</i> , 2018, 40, 1.	1.0	14

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37	Salicylic Acid and Nitric Oxide: Insight Into the Transcriptional Regulation of Their Metabolism and Regulatory Functions in Plants. <i>Frontiers in Agronomy</i> , 2021, 3, .	1.5	12
38	Constituents of the flower oil of <i>Carissa opaca</i> growing in the Aravalli mountain range at New Delhi. <i>Flavour and Fragrance Journal</i> , 2006, 21, 304-305.	1.2	11
39	Qualitative and Quantitative analysis of 3D predicted arachidonate 15-lipoxygenase-B (15-LOX-2) from <i>Homo sapiens</i> . <i>Bioinformatics</i> , 2012, 8, 555-561.	0.2	8
40	Pleiotropic morphological and abiotic stress resistance phenotypes of the hyper-abscisic acid producing Aboâ„¢ mutant in the periwinkle <i>Catharanthus roseus</i> . <i>Journal of Biosciences</i> , 2001, 26, 57-70.	0.5	7
41	Composition of the essential oils of the leaves and flowers of <i>Rhus mysurensis</i> Heyne ex Wight & Arn growing in the Aravalli mountain range at New Delhi. <i>Flavour and Fragrance Journal</i> , 2006, 21, 228-229.	1.2	7
42	Investigating the impact of high temperature on growth and yield of <i>Lablab purpureus</i> L. inbred lines using integrated phenotypical, physiological, biochemical and molecular approaches. <i>Indian Journal of Plant Physiology</i> , 2018, 23, 209-226.	0.8	7
43	Neuromodulatory potential of <i>Asparagus racemosus</i> and its bioactive molecule Shatavarin IV by enhancing synaptic acetylcholine level and nAChR activity. <i>Neuroscience Letters</i> , 2021, 764, 136294.	1.0	7
44	Prediction and validation of DREB transcription factors for salt tolerance in <i>Solanum lycopersicum</i> L.: An integrated experimental and computational approach. <i>Environmental and Experimental Botany</i> , 2019, 165, 1-18.	2.0	6
45	Heterologous expression of cyanobacterial PCS confers augmented arsenic and cadmium stress tolerance and higher artemisinin in <i>Artemisia annua</i> hairy roots. <i>Plant Biotechnology Reports</i> , 2021, 15, 317-334.	0.9	6
46	Induced mutation to monocotyledony in periwinkle, <i>Catharanthus roseus</i> , and suppression of mutant phenotype by kinetin. <i>Journal of Genetics</i> , 2000, 79, 97-104.	0.4	5
47	Downregulation of $\beta$ ECS gene affects antioxidant activity and free radical scavenging system during pod development and maturation in <i>Lablab purpureus</i> L. <i>Biocatalysis and Agricultural Biotechnology</i> , 2017, 11, 192-200.	1.5	5
48	Repurposing <i>Artemisia annua</i> L. Flavonoids, Artemisinin and Its Derivatives as Potential Drugs Against Novel Coronavirus (SARS â€“nCoV) as Revealed by In-Silico Studies. <i>International Journal of Applied Sciences and Biotechnology</i> , 2020, 8, 374-393.	0.4	5
49	Biomedical potential of green synthesized silver nanoparticles from root extract of <i>Asparagus officinalis</i> . <i>Journal of Plant Biochemistry and Biotechnology</i> , 2022, 31, 213-218.	0.9	4
50	Impacts of green synthesized silver nanoparticles with natural bioactive compounds on plantâ€™s developmental behavior. , 2021, , 435-452.		4
51	Study of Antioxidant, Anti-inflammatory, and DNA-Damage Protection Properties of Some Indian Medicinal Plants Reveal their Possible Role in Combating Psoriasis. <i>International Journal of Applied Sciences and Biotechnology</i> , 2017, 5, 141-149.	0.4	3
52	Accumulation of Secondary Metabolites and Improved Size of Glandular Trichomes in <i>Artemisia annua</i> . <i>Reference Series in Phytochemistry</i> , 2021, , 99-116.	0.2	3
53	New perspectives of the <i>Artemisia annua</i> bioactive compounds as an affordable cure in treatment of malaria and cancer. , 2021, , 299-315.		3
54	Marker-assisted breeding for abiotic stress tolerance in horticultural crops. , 2021, , 63-74.		2

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55	Unlocking Pharmacological and Therapeutic Potential of Hyacinth Bean ( <i>Lablab purpureus</i> L.): Role of OMICS Based Biology, Biotic and Abiotic Elicitors. , 0, , .		2
56	Possibility of Hydrological Connectivity between Manasarovar Lake and Gangotri Glacier. <i>Current Science</i> , 2019, 116, 1062.	0.4	2
57	In-silico and in-vitro studies of Human 15- lipoxygenase B protein with bioactive phytochemicals having strong antiinflammatory potential. <i>Journal of Scientific Research</i> , 2021, 65, 173-181.	0.1	0
58	Accumulation of Secondary Metabolites and Improved Size of Glandular Trichomes in <i>Artemisia annua</i> . <i>Reference Series in Phytochemistry</i> , 2020, , 1-18.	0.2	0
59	In-vivo Studies and Molecular Docking of Modeled <i>Mus musculus</i> 8S Lipoxygenase Protein Using Some Natural Bioactive Compounds. <i>Proceedings of the National Academy of Sciences India Section B - Biological Sciences</i> , 0, , 1.	0.4	0