

P Suprasanna

List of Publications by Year in descending order

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Version: 2024-02-01

187
papers

5,887
citations

71102

41
h-index

118850

62
g-index

194
all docs

194
docs citations

194
times ranked

5540
citing authors

#	ARTICLE	IF	CITATIONS
1	Electron Beam Irradiated Chitosan elicits enhanced antioxidant properties combating resistance to Purple Blotch Disease (<i>Alternaria porri</i>) in Onion (<i>Allium cepa</i>). International Journal of Radiation Biology, 2022, 98, 100-108.	1.8	0
2	Molecular insights into sensing, regulation and improving of heat tolerance in plants. Plant Cell Reports, 2022, 41, 799-813.	5.6	16
3	CIPK9 targets VDAC3 and modulates oxidative stress responses in Arabidopsis. Plant Journal, 2022, 109, 241-260.	5.7	13
4	Epigenetic regulation of salinity stress responses in cereals. Molecular Biology Reports, 2022, 49, 761-772.	2.3	4
5	Antioxidant enzymes and transporter genes mediate arsenic stress reduction in rice (<i>Oryza sativa</i> L.) upon thiourea supplementation. Chemosphere, 2022, 292, 133482.	8.2	20
6	Arsenic and cadmium induced macronutrient deficiencies trigger contrasting gene expression changes in rice. Environmental Pollution, 2022, 300, 118923.	7.5	8
7	Radiation induced mutagenesis, physio-biochemical profiling and field evaluation of mutants in sugarcane cv. CoM 0265. International Journal of Radiation Biology, 2022, 98, 1261-1276.	1.8	4
8	Optimization of different factors for an <i>Agrobacterium</i> -mediated genetic transformation system using embryo axis explants of chickpea (<i>Cicer arietinum</i> L.). Journal of Plant Biotechnology, 2022, 49, 61-73.	0.4	5
9	Assessment of genetic diversity and volatile content of commercially grown banana (<i>Musa</i> spp.) cultivars. Scientific Reports, 2022, 12, 7979.	3.3	26
10	Physicochemical characterization, antioxidant activity and total phenolic content of value-added products from indigenous banana varieties of Assam, India. Measurement Food, 2022, , 100040.	1.6	2
11	Evolution and Transcriptional Modulation of Lipoygenase Genes Under Heat, Drought, and Combined Stress in <i>Brassica rapa</i> . Plant Molecular Biology Reporter, 2021, 39, 60-71.	1.8	5
12	Plant sugars: Homeostasis and transport under abiotic stress in plants. Physiologia Plantarum, 2021, 171, 739-755.	5.2	144
13	Tracking the time-dependent and tissue-specific processes of arsenic accumulation and stress responses in rice (<i>Oryza sativa</i> L.). Journal of Hazardous Materials, 2021, 406, 124307.	12.4	22
14	Genome-wide identification, characterization and transcriptional profiling of NHX-type (Na ⁺ /H ⁺) antiporters under salinity stress in soybean. 3 Biotech, 2021, 11, 16.	2.2	19
15	Thiourea and hydrogen peroxide priming improved K ⁺ retention and source-sink relationship for mitigating salt stress in rice. Scientific Reports, 2021, 11, 3000.	3.3	10
16	EMS-Based In Vitro Mutagenesis and Mutant Screening for Smut Resistance with Agronomic Traits in Sugarcane. Sugar Tech, 2021, 23, 854-864.	1.8	8
17	Engineering Resistance Against Viruses in Field Crops Using CRISPR-Cas9. Current Genomics, 2021, 22, 214-231.	1.6	17
18	Chemical intervention for enhancing growth and reducing grain arsenic accumulation in rice. Environmental Pollution, 2021, 276, 116719.	7.5	22

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19	Seed "primeomics"™: plants memorize their germination under stress. <i>Biological Reviews</i> , 2021, 96, 1723-1743.	10.4	50
20	Overexpression of rice OsWNK9 promotes arsenite tolerance in transgenic <i>Arabidopsis</i> plants. <i>Journal of Biotechnology</i> , 2021, 332, 114-125.	3.8	12
21	A comprehensive review on α -D-Glucans: Structural and functional diversity, derivatization and bioapplications. <i>Carbohydrate Research</i> , 2021, 503, 108297.	2.3	19
22	Genome-wide in silico identification and characterization of sodium-proton (Na ⁺ /H ⁺) antiporters in <i>Indica</i> rice. <i>Plant Gene</i> , 2021, 26, 100280.	2.3	9
23	Arsenic Remediation through Sustainable Phytoremediation Approaches. <i>Minerals (Basel)</i> , 2021, 11, 1074.	2.0	11
24	Exposure to NaCl enhances Cd ²⁺ biosorption potential of <i>Sesuvium portulacastrum</i> (L.). <i>Environmental Technology and Innovation</i> , 2021, 23, 101753.	6.1	3
25	MicroRNAs: Tiny, powerful players of metal stress responses in plants. <i>Plant Physiology and Biochemistry</i> , 2021, 166, 928-938.	5.8	16
26	Omics approaches for understanding heavy metal responses and tolerance in plants. <i>Current Plant Biology</i> , 2021, 27, 100213.	4.7	69
27	Halophytes as a Potential Resource for Phytodesalination. , 2021, , 2241-2260.		0
28	Unlocking Allelic Diversity for Sustainable Development of Salinity Stress Tolerance in Rice. <i>Current Genomics</i> , 2021, 22, 393-403.	1.6	6
29	MicroRNA-mediated bioengineering for climate-resilience in crops. <i>Bioengineered</i> , 2021, 12, 10430-10456.	3.2	8
30	Sugarcane Transgenics: Developments and Opportunities. , 2021, , 241-265.		5
31	Transcriptional and post-transcriptional mechanisms regulating salt tolerance in plants. <i>Physiologia Plantarum</i> , 2021, 173, 1291-1294.	5.2	4
32	Multifaceted roles of silicon in mitigating environmental stresses in plants. <i>Plant Physiology and Biochemistry</i> , 2021, 169, 291-310.	5.8	35
33	¹³ C-Irradiated Chitosan Mediates Enhanced Synthesis and Antimicrobial Properties of Chitosan-Silver (Ag) Nanocomposites. <i>ACS Omega</i> , 2021, 6, 34812-34822.	3.5	11
34	Emerging concepts of potassium homeostasis in plants. <i>Journal of Experimental Botany</i> , 2020, 71, 608-619.	4.8	81
35	Distinguishing genomic DNA of <i>Brassica juncea</i> and <i>Arabidopsis thaliana</i> using surface-enhanced Raman scattering. <i>Journal of Raman Spectroscopy</i> , 2020, 51, 89-103.	2.5	19
36	Plant abiotic stress tolerance: Insights into resilience build-up. <i>Journal of Biosciences</i> , 2020, 45, 1.	1.1	15

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37	Transcriptional reprogramming and enhanced photosynthesis drive inducible salt tolerance in sugarcane mutant line M4209. <i>Journal of Experimental Botany</i> , 2020, 71, 6159-6173.	4.8	9
38	Cloning, in silico characterization and expression analysis of TIP subfamily from rice (<i>Oryza sativa</i> L.). <i>Gene</i> , 2020, 761, 145043.	2.2	6
39	Copper accumulation and biochemical responses of <i>Sesuvium portulacastrum</i> (L.). <i>Materials Today: Proceedings</i> , 2020, 31, 679-684.	1.8	10
40	Elemental (As, Zn, Fe and Cu) analysis and health risk assessment of rice grains and rice based food products collected from markets from different cities of Gangetic basin, India. <i>Journal of Food Composition and Analysis</i> , 2020, 93, 103612.	3.9	29
41	Individual and additive stress impacts of Na ⁺ and Cl ⁻ on proline metabolism and nitrosative responses in rice. <i>Plant Physiology and Biochemistry</i> , 2020, 152, 44-52.	5.8	22
42	<i>Arabidopsis</i> Mitochondrial Voltage-Dependent Anion Channels Are Involved in Maintaining Reactive Oxygen Species Homeostasis, Oxidative and Salt Stress Tolerance in Yeast. <i>Frontiers in Plant Science</i> , 2020, 11, 50.	3.6	20
43	Engineering salinity tolerance in plants: progress and prospects. <i>Planta</i> , 2020, 251, 76.	3.2	123
44	A potential seedling-stage evaluation method for heat tolerance in Indian mustard (<i>Brassica juncea</i> L.) Tj ETQq0 0 0,rgBT /Overlock 10 Tf	2.2	12
45	High efficiency plant regeneration and genetic fidelity of regenerants by SCoT and ISSR markers in chickpea (<i>Cicer arietinum</i> L.). <i>Plant Cell, Tissue and Organ Culture</i> , 2020, 141, 465-477.	2.3	34
46	VDAC and its interacting partners in plant and animal systems: an overview. <i>Critical Reviews in Biotechnology</i> , 2020, 40, 715-732.	9.0	22
47	Halophytes as a Potential Resource for Phytodesalination. , 2020, , 1-21.		6
48	Safeguarding Rice from Arsenic Contamination Through the Adoption of Chemo-agronomic Measures. , 2020, , 411-424.		4
49	Kinetics of Arsenic Accumulation and its Impact on Biochemical Responses of <i>Brassica juncea</i> . <i>International Journal of Plant and Environment</i> , 2020, 6, 28-34.	0.4	0
50	Plant abiotic stress tolerance: Insights into resilience build-up. <i>Journal of Biosciences</i> , 2020, 45, .	1.1	3
51	Halophytes and Heavy Metals: Interesting Partnerships. , 2019, , 99-118.		0
52	FT-IR profiling reveals differential response of roots and leaves to salt stress in a halophyte <i>Sesuvium portulacastrum</i> (L.) L. <i>Biotechnology Reports (Amsterdam, Netherlands)</i> , 2019, 23, e00352.	4.4	17
53	Genomic Landscapes of Abiotic Stress Responses in Sugarcane. <i>Sustainable Development and Biodiversity</i> , 2019, , 225-240.	1.7	5
54	Mutanase Enzyme from <i>Paracoccus mutanolyticus</i> RSP02: Characterization and Application as a Biocontrol Agent. <i>Indian Journal of Microbiology</i> , 2019, 59, 436-444.	2.7	7

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55	NaCl induced salt adaptive changes and enhanced accumulation of 20-hydroxyecdysone in the in vitro shoot cultures of <i>Spinacia oleracea</i> (L.). <i>Scientific Reports</i> , 2019, 9, 12522.	3.3	38
56	Foliar application of gamma radiation processed chitosan triggered distinctive biological responses in sugarcane under water deficit stress conditions. <i>International Journal of Biological Macromolecules</i> , 2019, 139, 1212-1223.	7.5	25
57	Gamma radiation degradation of chitosan for application in growth promotion and induction of stress tolerance in potato (<i>Solanum tuberosum</i> L.). <i>Carbohydrate Polymers</i> , 2019, 210, 289-301.	10.2	104
58	High-throughput cell analysis based protocol for ploidy determination in anther-derived rice callus. <i>Plant Cell, Tissue and Organ Culture</i> , 2019, 137, 187-192.	2.3	10
59	Gamma irradiation induced effects on in vitro shoot cultures and influence of monochromatic light regimes on irradiated shoot cultures of <i>Dendrobium sonia</i> orchid. <i>Biotechnology Reports</i> (Amsterdam, Netherlands), 2019, 22, e00343.	4.4	14
60	Halophytes: Prospective Plants for Future. , 2019, , 221-234.		19
61	Plant miRNAome: Cross Talk in Abiotic Stressful Times. <i>Sustainable Development and Biodiversity</i> , 2019, , 25-52.	1.7	10
62	Intensification in biological properties of chitosan after γ -irradiation. <i>International Journal of Biological Macromolecules</i> , 2019, 131, 435-444.	7.5	32
63	Halophyte Responses and Tolerance to Abiotic Stresses. , 2019, , 1-23.		2
64	Na ⁺ and Cl ⁻ induce differential physiological, biochemical responses and metabolite modulations in vitro in contrasting salt-tolerant soybean genotypes. <i>3 Biotech</i> , 2019, 9, 91.	2.2	16
65	Overexpression of native <i>Musa</i> -miR397 enhances plant biomass without compromising abiotic stress tolerance in banana. <i>Scientific Reports</i> , 2019, 9, 16434.	3.3	28
66	Radiation-induced mutants with increased cane number in sugarcane variety CoJ 85. <i>Journal of Crop Improvement</i> , 2019, 33, 187-201.	1.7	3
67	Nitrogen supply influences arsenic accumulation and stress responses of rice (<i>Oryza sativa</i> L.) seedlings. <i>Journal of Hazardous Materials</i> , 2019, 367, 599-606.	12.4	47
68	Transcriptomic signature reveals mechanism of flower bud distortion in witches' broom disease of soybean (<i>Glycine max</i>). <i>BMC Plant Biology</i> , 2019, 19, 26.	3.6	15
69	Sugarcane (<i>Saccharum</i> spp.): Breeding and Genomics. , 2019, , 363-406.		5
70	Multifarious Role of ROS in Halophytes: Signaling and Defense. , 2018, , 207-223.		9
71	High resolution melting (HRM)-based STMS marker analysis for rapid identification of radiation induced mutants of sugarcane. <i>Agri Gene</i> , 2018, 8, 37-44.	1.9	1
72	Concerns regarding "off-target" activity of genome editing endonucleases. <i>Plant Physiology and Biochemistry</i> , 2018, 131, 22-30.	5.8	32

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73	Halophytes in biosaline agriculture: Mechanism, utilization, and value addition. <i>Land Degradation and Development</i> , 2018, 29, 1081-1095.	3.9	107
74	Identification and validation of reference genes for quantitative real-time PCR under salt stress in a halophyte, <i>Sesuvium portulacastrum</i> . <i>Plant Gene</i> , 2018, 13, 18-24.	2.3	9
75	Coping With Metal Toxicity – Cues From Halophytes. <i>Frontiers in Plant Science</i> , 2018, 9, 777.	3.6	72
76	Cellular and Subcellular Phosphate Transport Machinery in Plants. <i>International Journal of Molecular Sciences</i> , 2018, 19, 1914.	4.1	46
77	Evaluation of <i>Spinacia oleracea</i> (L.) for phytodesalination and augmented production of bioactive metabolite, 20-hydroxyecdysone. <i>International Journal of Phytoremediation</i> , 2018, 20, 981-994.	3.1	9
78	Temporal and spatial changes in ion homeostasis, antioxidant defense and accumulation of flavonoids and glycolipid in a halophyte <i>Sesuvium portulacastrum</i> (L.) L.. <i>PLoS ONE</i> , 2018, 13, e0193394.	2.5	27
79	Microsatellite based mutant characterization for high tillering architect of foxtail millet variety srilakshmi. <i>Electronic Journal of Plant Breeding</i> , 2018, 9, 313.	0.1	0
80	TRAP and SRAP molecular marker based profiling of radiation induced mutants of sugarcane (<i>Saccharum officinarum</i>) L. <i>Journal of Radiation Induced Mutagenesis and DNA Repair</i> , 2018, 10, 11-19.	2.3	11
81	Physiological and molecular insights into rice-arbuscular mycorrhizal interactions under arsenic stress. <i>Plant Gene</i> , 2017, 11, 232-237.	2.3	13
82	Thiourea priming enhances salt tolerance through co-ordinated regulation of microRNAs and hormones in <i>Brassica juncea</i> . <i>Scientific Reports</i> , 2017, 7, 45490.	3.3	39
83	Silver nitrate modulates organogenesis in <i>Brassica juncea</i> (L.) through differential antioxidant defense and hormonal gene expression. <i>Scientia Horticulturae</i> , 2017, 226, 261-267.	3.6	14
84	Salt responsive physiological, photosynthetic and biochemical attributes at early seedling stage for screening soybean genotypes. <i>Plant Physiology and Biochemistry</i> , 2017, 118, 519-528.	5.8	42
85	Time course of physiological, biochemical, and gene expression changes under short-term salt stress in <i>Brassica juncea</i> L.. <i>Crop Journal</i> , 2017, 5, 219-230.	5.2	22
86	Looking at Halophytic Adaptation to High Salinity Through Genomics Landscape. <i>Current Genomics</i> , 2017, 18, 542-552.	1.6	42
87	Genomics of Metal Stress-Mediated Signalling and Plant Adaptive Responses in Reference to Phytohormones. <i>Current Genomics</i> , 2017, 18, 512-522.	1.6	22
88	Monochromic radiation through light-emitting diode (LED) positively augments in vitro shoot regeneration in Orchid (<i>Dendrobium sonia</i>). <i>Canadian Journal of Biotechnology</i> , 2017, 1, 50-58.	0.3	10
89	Multifaceted roles of aquaporins as molecular conduits in plant responses to abiotic stresses. <i>Critical Reviews in Biotechnology</i> , 2016, 36, 1-10.	9.0	48
90	Moving through the Stressed Genome: Emerging Regulatory Roles for Transposons in Plant Stress Response. <i>Frontiers in Plant Science</i> , 2016, 7, 1448.	3.6	117

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91	Aliphatic glucosinolate synthesis and gene expression changes in gamma-irradiated cabbage. <i>Food Chemistry</i> , 2016, 209, 99-103.	8.2	11
92	Arsenic stress affects the expression profile of genes of 14-3-3 proteins in the shoot of mycorrhiza colonized rice. <i>Physiology and Molecular Biology of Plants</i> , 2016, 22, 515-522.	3.1	18
93	Physiological responses of the halophyte <i>Sesuvium portulacastrum</i> to salt stress and their relevance for saline soil bio-reclamation. <i>Flora: Morphology, Distribution, Functional Ecology of Plants</i> , 2016, 224, 96-105.	1.2	56
94	Plant Salt Stress: Adaptive Responses, Tolerance Mechanism and Bioengineering for Salt Tolerance. <i>Botanical Review</i> , The, 2016, 82, 371-406.	3.9	216
95	Arsenic toxicity in rice (<i>Oryza sativa</i> L.) is influenced by sulfur supply: Impact on the expression of transporters and thiol metabolism. <i>Geoderma</i> , 2016, 270, 33-42.	5.1	72
96	Spatial distribution and dynamics of sucrose metabolising enzymes in radiation induced mutants of sugarcane. <i>Plant Physiology and Biochemistry</i> , 2016, 100, 85-93.	5.8	17
97	Osmolyte Accumulation and Implications in Plant Abiotic Stress Tolerance. , 2016, , 1-12.		37
98	Early osmotic, antioxidant, ionic, and redox responses to salinity in leaves and roots of Indian mustard (<i>Brassica juncea</i> L.). <i>Protoplasma</i> , 2016, 253, 101-110.	2.1	25
99	Salt stress reveals differential antioxidant and energetics responses in glycophyte (<i>Brassica juncea</i> L.) and halophyte (<i>Sesuvium portulacastrum</i> L.). <i>Frontiers in Environmental Science</i> , 2015, 3, .	3.3	43
100	Transcriptomics profiling of Indian mustard (<i>Brassica juncea</i>) under arsenate stress identifies key candidate genes and regulatory pathways. <i>Frontiers in Plant Science</i> , 2015, 6, 646.	3.6	46
101	isomiRs: Increasing Evidences of isomiRs Complexity in Plant Stress Functional Biology. <i>Frontiers in Plant Science</i> , 2015, 6, 949.	3.6	51
102	Radiation-induced in vitro mutagenesis system for salt tolerance and other agronomic characters in sugarcane (<i>Saccharum officinarum</i> L.). <i>Crop Journal</i> , 2015, 3, 46-56.	5.2	42
103	Allyl isothiocyanate enhances shelf life of minimally processed shredded cabbage. <i>Food Chemistry</i> , 2015, 183, 265-272.	8.2	35
104	Hairy root induction and phytoremediation of textile dye, Reactive green 19A-HE4BD, in a halophyte, <i>Sesuvium portulacastrum</i> (L.) L.. <i>Biotechnology Reports (Amsterdam, Netherlands)</i> , 2015, 8, 56-63.	4.4	38
105	Induced Mutations and Crop Improvement. , 2015, , 593-617.		59
106	Redox-Regulated Mechanisms: Implications for Enhancing Plant Stress Tolerance and Crop Yield. , 2015, , 191-205.		8
107	Better Osmotic Adjustment Mediates Salt and PEG Stress Tolerance in Primed Plants of Contrasting Cultivars of Sugarcane. <i>Sugar Tech</i> , 2015, 17, 348-355.	1.8	4
108	Gamma irradiation inhibits wound induced browning in shredded cabbage. <i>Food Chemistry</i> , 2015, 173, 38-44.	8.2	38

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109	<I>In Vitro</I> Study on the Antifungal Effects of Chitosan and Oligochitosan on Early Blight Disease in Potato. Journal of Chitin and Chitosan Science, 2015, 3, 46-52.	0.3	5
110	Exogenous Application of Proline Alleviates Salt Induced Oxidative Stress More Efficiently than Glycine Betaine in Sugarcane Cultured Cells. Sugar Tech, 2014, 16, 22-29.	1.8	15
111	Gamma radiation, in vitro selection for salt (NaCl) tolerance, and characterization of mutants in sugarcane (<i>Saccharum officinarum</i> L.). In Vitro Cellular and Developmental Biology - Plant, 2014, 50, 766-776.	2.1	27
112	Identification of redox-regulated components of arsenate (As^{V}) tolerance through thiourea supplementation in rice. Metallomics, 2014, 6, 1718-1730.	2.4	55
113	Alterations in stem sugar content and metabolism in sorghum genotypes subjected to drought stress. Functional Plant Biology, 2014, 41, 954.	2.1	15
114	Whole genome transcriptome analysis of rice seedling reveals alterations in Ca^{2+} ion signaling and homeostasis in response to Ca^{2+} deficiency. Cell Calcium, 2014, 55, 155-165.	2.4	21
115	<i>Sesuvium portulacastrum</i> , a plant for drought, salt stress, sand fixation, food and phytoremediation. A review. Agronomy for Sustainable Development, 2013, 33, 329-348.	5.3	67
116	Quantitative real-time expression profiling of aquaporins-isoforms and growth response of <i>Brassica juncea</i> under arsenite stress. Molecular Biology Reports, 2013, 40, 2879-2886.	2.3	19
117	Response of adenine and pyridine metabolism during germination and early seedling growth under arsenic stress in <i>Brassica juncea</i> . Acta Physiologiae Plantarum, 2013, 35, 1081-1091.	2.1	12
118	Evaluation of effects of arsenic on carbon, nitrogen, and sulfur metabolism in two contrasting varieties of <i>Brassica juncea</i> . Acta Physiologiae Plantarum, 2013, 35, 3377-3389.	2.1	30
119	Biochemical and physiological adaptations of the halophyte <i>Sesuvium portulacastrum</i> (L.) L., (<i>Aizoaceae</i>) to salinity. Archives of Agronomy and Soil Science, 2013, 59, 1373-1391.	2.6	10
120	The effect of arsenic on pigment composition and photosynthesis in <i>Hydrilla verticillata</i> . Biologia Plantarum, 2013, 57, 385-389.	1.9	56
121	Identification and profiling of arsenic stress-induced microRNAs in <i>Brassica juncea</i> . Journal of Experimental Botany, 2013, 64, 303-315.	4.8	214
122	Thiourea, a ROS Scavenger, Regulates Source-to-Sink Relationship to Enhance Crop Yield and Oil Content in <i>Brassica juncea</i> (L.). PLoS ONE, 2013, 8, e73921.	2.5	53
123	Gene Expression Analysis of Rice Seedling under Potassium Deprivation Reveals Major Changes in Metabolism and Signaling Components. PLoS ONE, 2013, 8, e70321.	2.5	51
124	Integrating Omics Approaches in Sugarcane Improvement. , 2013, , 191-250.		4
125	Thiourea mediates alleviation of UV-B stress-induced damage in the Indian mustard (<i>Brassica</i>) Tj ETQq1 1 0.784314 rgBT /Overlock 11	2.1	11
126	Mechanisms of Arsenic Tolerance and Detoxification in Plants and their Application in Transgenic Technology: A Critical Appraisal. International Journal of Phytoremediation, 2012, 14, 506-517.	3.1	48

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127	Halopriming mediated salt and iso-osmotic PEG stress tolerance and, gene expression profiling in sugarcane (<i>Saccharum officinarum</i> L.). <i>Molecular Biology Reports</i> , 2012, 39, 9563-9572.	2.3	10
128	Abiotic Stress Responses in Plants: Present and Future. , 2012, , 1-19.		111
129	<i>Sesuvium portulacastrum</i> (L.) L.: a potential halophyte for the degradation of toxic textile dye, Green HE4B. <i>Planta</i> , 2012, 235, 1051-1063.	3.2	30
130	Calcium supplementation modulates arsenic-induced alterations and augments arsenic accumulation in callus cultures of Indian mustard (<i>Brassica juncea</i> (L.) Czern.). <i>Protoplasma</i> , 2012, 249, 725-736.	2.1	14
131	Effects of NaCl and iso-osmotic PEG stress on growth, osmolytes accumulation and antioxidant defense in cultured sugarcane cells. <i>Plant Cell, Tissue and Organ Culture</i> , 2012, 108, 279-286.	2.3	56
132	Transcript expression profiling of stress responsive genes in response to short-term salt or PEG stress in sugarcane leaves. <i>Molecular Biology Reports</i> , 2012, 39, 3311-3318.	2.3	31
133	Prospects of Halophytes in Understanding and Managing Abiotic Stress Tolerance. , 2012, , 29-56.		71
134	Membrane Topology and Predicted RNA-Binding Function of the ϵ -Early Responsive to Dehydration (ERD4) ϵ ™ Plant Protein. <i>PLoS ONE</i> , 2012, 7, e32658.	2.5	35
135	Salt and drought tolerance of sugarcane under iso-osmotic salt and water stress: growth, osmolytes accumulation, and antioxidant defense. <i>Journal of Plant Interactions</i> , 2011, 6, 275-282.	2.1	95
136	Phytofiltration of arsenic from simulated contaminated water using <i>Hydrilla verticillata</i> in field conditions. <i>Ecological Engineering</i> , 2011, 37, 1937-1941.	3.6	51
137	Preparation and evaluation of antioxidant capacity of Jackfruit (<i>Artocarpus heterophyllus</i> Lam.) wine and its protective role against radiation induced DNA damage. <i>Industrial Crops and Products</i> , 2011, 34, 1595-1601.	5.2	50
138	Investigation of arsenic accumulation and tolerance potential of <i>Sesuvium portulacastrum</i> (L.) L.. <i>Chemosphere</i> , 2011, 82, 529-534.	8.2	48
139	Regulated alterations in redox and energetic status are the key mediators of salinity tolerance in the halophyte <i>Sesuvium portulacastrum</i> (L.) L. <i>Plant Growth Regulation</i> , 2011, 65, 287-298.	3.4	25
140	Effects of optimal and supra-optimal salinity stress on antioxidative defence, osmolytes and in vitro growth responses in <i>Sesuvium portulacastrum</i> L.. <i>Plant Cell, Tissue and Organ Culture</i> , 2011, 104, 41-49.	2.3	90
141	Expression analysis of sugarcane shaggy-like kinase (SuSK) gene identified through cDNA subtractive hybridization in sugarcane (<i>Saccharum officinarum</i> L.). <i>Protoplasma</i> , 2011, 248, 613-621.	2.1	29
142	Redox state and energetic equilibrium determine the magnitude of stress in <i>Hydrilla verticillata</i> upon exposure to arsenate. <i>Protoplasma</i> , 2011, 248, 805-815.	2.1	70
143	Biotechnological Developments in Sugarcane Improvement: An Overview. <i>Sugar Tech</i> , 2011, 13, 322-335.	1.8	39
144	Micropropagation of <i>Uraria picta</i> through adventitious bud regeneration and antimicrobial activity of callus. <i>In Vitro Cellular and Developmental Biology - Plant</i> , 2011, 47, 488-495.	2.1	11

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145	Salt-induced stress responses of Brassica (<i>Brassica juncea</i> L.) genotypes. <i>Archives of Agronomy and Soil Science</i> , 2011, 57, 127-136.	2.6	7
146	Comparative Antioxidant Profiling of Tolerant and Sensitive Varieties of <i>Brassica juncea</i> L. to Arsenate and Arsenite Exposure. <i>Bulletin of Environmental Contamination and Toxicology</i> , 2010, 84, 342-346.	2.7	26
147	Profiling of culture-induced variation in sugarcane plants regenerated via direct and indirect somatic embryogenesis by using transposon-insertion polymorphism. <i>Sugar Tech</i> , 2010, 12, 26-30.	1.8	7
148	Differential osmotic adjustment to iso-osmotic NaCl and PEG stress in the in vitro cultures of <i>Sesuvium portulacastrum</i> (L.) L.. <i>Journal of Crop Science and Biotechnology</i> , 2010, 13, 251-256.	1.5	21
149	Short-term salt and PEG stresses regulate expression of MicroRNA, miR159 in sugarcane leaves. <i>Journal of Crop Science and Biotechnology</i> , 2010, 13, 177-182.	1.5	28
150	Comparative evaluation of hydro-, chemo-, and hormonal-priming methods for imparting salt and PEG stress tolerance in Indian mustard (<i>Brassica juncea</i> L.). <i>Acta Physiologiae Plantarum</i> , 2010, 32, 1135-1144.	2.1	65
151	Biochemical, physiological and growth changes in response to salinity in callus cultures of <i>Sesuvium portulacastrum</i> L.. <i>Plant Cell, Tissue and Organ Culture</i> , 2010, 102, 17-25.	2.3	93
152	Genome-wide analysis of thiourea-modulated salinity stress-responsive transcripts in seeds of <i>Brassica juncea</i> : identification of signalling and effector components of stress tolerance. <i>Annals of Botany</i> , 2010, 106, 663-674.	2.9	50
153	Engineering the plant genome: Prospects of selection systems using nonantibiotic marker genes. <i>GM Crops</i> , 2010, 1, 128-136.	1.9	7
154	Hairy root extract of <i>Phyllanthus amarus</i> induces apoptotic cell death in human breast cancer cells. <i>Innovative Food Science and Emerging Technologies</i> , 2010, 11, 526-532.	5.6	33
155	Thiourea mediated regulation in the expression profile of aquaporins and its impact on water homeostasis under salinity stress in <i>Brassica juncea</i> roots. <i>Plant Science</i> , 2010, 178, 517-522.	3.6	36
156	In vitro culture, plant regeneration and clonal behaviour of <i>Sesuvium portulacastrum</i> (L.) L.: a prospective halophyte. <i>Physiology and Molecular Biology of Plants</i> , 2010, 16, 187-193.	3.1	15
157	Comparative biochemical and transcriptional profiling of two contrasting varieties of <i>Brassica juncea</i> L. in response to arsenic exposure reveals mechanisms of stress perception and tolerance. <i>Journal of Experimental Botany</i> , 2009, 60, 3419-3431.	4.8	138
158	Morphological and molecular diversity analysis among the Indian clones of <i>Sesuvium portulacastrum</i> L.. <i>Genetic Resources and Crop Evolution</i> , 2009, 56, 705-717.	1.6	24
159	<i>Sesuvium portulacastrum</i> (L.) L. a promising halophyte: cultivation, utilization and distribution in India. <i>Genetic Resources and Crop Evolution</i> , 2009, 56, 741-747.	1.6	57
160	An in vitro radiation induced mutagenesis-selection system for salinity tolerance in sugarcane. <i>Sugar Tech</i> , 2009, 11, 246-251.	1.8	25
161	Halopriming imparts tolerance to salt and PEG induced drought stress in sugarcane. <i>Agriculture, Ecosystems and Environment</i> , 2009, 134, 24-28.	5.3	98
162	Effects of salt stress in relation to osmotic adjustment on sugarcane (<i>Saccharum officinarum</i> L.) callus cultures. <i>Plant Growth Regulation</i> , 2008, 55, 169-173.	3.4	59

#	ARTICLE	IF	CITATIONS
163	Radiation induced in vitro mutagenesis for sugarcane improvement. Sugar Tech, 2008, 10, 14-19.	1.8	38
164	Antioxidant activity in sugarcane juice and its protective role against radiation induced DNA damage. Food Chemistry, 2008, 106, 1154-1160.	8.2	75
165	Gamma Irradiation of Embryogenic Callus Cultures and In vitro Selection for Salt Tolerance in Sugarcane (Saccharum officinarum L.). Agricultural Sciences in China, 2008, 7, 1147-1152.	0.6	43
166	Field Performance and RAPD Analysis of Gamma-Irradiated Variants of Banana Cultivar 'Giant Cavendish' (AAA). International Journal of Fruit Science, 2008, 8, 147-159.	2.4	22
167	Effect of Single and Recurrent Gamma Irradiation on in vitro Shoot Cultures of Banana. International Journal of Fruit Science, 2007, 7, 47-57.	2.4	15
168	Monitoring Genetic Fidelity in Plants Derived Through Direct Somatic Embryogenesis in Sugarcane by RAPD Analysis. Journal of New Seeds, 2007, 8, 1-9.	0.3	11
169	Partial desiccation augments plant regeneration from irradiated embryogenic cultures of sugarcane. Plant Cell, Tissue and Organ Culture, 2007, 92, 101-105.	2.3	14
170	Study of elemental variations during somatic embryogenesis in sugarcane using photon induced X-ray probe. Nuclear Instruments & Methods in Physics Research B, 2006, 252, 299-302.	1.4	10
171	Molecular profiling using RAPD technique of salt and drought tolerant regenerants of sugarcane. Sugar Tech, 2006, 8, 63-68.	1.8	19
172	Regulation of somatic embryogenesis by plant growth regulators in sugarcane. Sugar Tech, 2005, 7, 123-128.	1.8	7
173	Genetic Transformation of Woody Plants Using Embryogenic Cultures. Journal of New Seeds, 2005, 7, 17-35.	0.3	1
174	Differential gene expression in embryogenic, non-embryogenic and desiccation induced cultures of sugarcane. Sugar Tech, 2004, 6, 305-309.	1.8	8
175	Building stress tolerance through over-producing trehalose in transgenic plants. Trends in Plant Science, 2003, 8, 355-357.	8.8	117
176	Ameliorative Effect of Cyanobacterial Extract on the Conversion of Somatic Embryos to Plantlets in Banana. Journal of New Seeds, 2002, 4, 37-45.	0.3	0
177	Positive selectable marker genes for routine plant transformation. In Vitro Cellular and Developmental Biology - Plant, 2002, 38, 125-128.	2.1	29
178	Study of Trace Element Correlations with Drought Tolerance in Different Sorghum Genotypes Using Energy-Dispersive X-ray Fluorescence Technique. Biological Trace Element Research, 2002, 85, 255-267.	3.5	11
179	Studies on Mineral Nutrient Uptake using Tissue Culture Derived Plants of Banana (Musa sp). Journal of Plant Biochemistry and Biotechnology, 2001, 10, 79-81.	1.7	1
180	In vitro Growth and Development of Encapsulated Shoot Tips of Different Banana and Plantain Cultivars. Journal of New Seeds, 2001, 3, 19-25.	0.3	5

#	ARTICLE	IF	CITATIONS
181	Radio-sensitivity of in vivo and in vitro cultures of banana cv. Basrai (AAA). <i>Fruits</i> , 2001, 56, 67-74.	0.4	10
182	A Two-Step Approach to Scale Up Green Plant Regeneration Through Somatic Embryogenesis from in vitro Cultured Immature Inflorescences of a Male Sterile Line and a Maintainer Line of Rice. <i>Journal of New Seeds</i> , 2000, 2, 1-11.	0.3	10
183	Embryogenic ability in long term callus cultures of rice (<i>Oryza sativa</i> L.). <i>Cereal Research Communications</i> , 1997, 25, 27-33.	1.6	3
184	Differential expression of esterase and MDH isozymes during in vitro culture in maize (<i>Zea mays</i> L.). <i>Acta Physiologiae Plantarum</i> , 1997, 19, 29-32.	2.1	0
185	Propagation of banana through encapsulated shoot tips. <i>Plant Cell Reports</i> , 1992, 11, 571-5.	5.6	77
186	Biochemical changes in embryogenic and non-embryogenic calli of <i>Zea mays</i> L.. <i>Plant Science</i> , 1990, 66, 127-130.	3.6	21
187	Plantlet regeneration from glume calli of maize (<i>Zea mays</i> L.). <i>Theoretical and Applied Genetics</i> , 1986, 72, 120-122.	3.6	22