

P Suprasanna

List of Publications by Year in descending order

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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	Plant Salt Stress: Adaptive Responses, Tolerance Mechanism and Bioengineering for Salt Tolerance. Botanical Review, The, 2016, 82, 371-406.	3.9	216
2	Identification and profiling of arsenic stress-induced microRNAs in <i>Brassica juncea</i> . Journal of Experimental Botany, 2013, 64, 303-315.	4.8	214
3	Plant sugars: Homeostasis and transport under abiotic stress in plants. Physiologia Plantarum, 2021, 171, 739-755.	5.2	144
4	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. Journal of Experimental Botany, 2009, 60, 3419-3431.	4.8	138
5	Engineering salinity tolerance in plants: progress and prospects. Planta, 2020, 251, 76.	3.2	123
6	Building stress tolerance through over-producing trehalose in transgenic plants. Trends in Plant Science, 2003, 8, 355-357.	8.8	117
7	Moving through the Stressed Genome: Emerging Regulatory Roles for Transposons in Plant Stress Response. Frontiers in Plant Science, 2016, 7, 1448.	3.6	117
8	Abiotic Stress Responses in Plants: Present and Future. , 2012, , 1-19.		111
9	Halophytes in biosaline agriculture: Mechanism, utilization, and value addition. Land Degradation and Development, 2018, 29, 1081-1095.	3.9	107
10	Gamma radiation degradation of chitosan for application in growth promotion and induction of stress tolerance in potato (<i>Solanum tuberosum</i> L.). Carbohydrate Polymers, 2019, 210, 289-301.	10.2	104
11	Halopriming imparts tolerance to salt and PEG induced drought stress in sugarcane. Agriculture, Ecosystems and Environment, 2009, 134, 24-28.	5.3	98
12	Salt and drought tolerance of sugarcane under iso-osmotic salt and water stress: growth, osmolytes accumulation, and antioxidant defense. Journal of Plant Interactions, 2011, 6, 275-282.	2.1	95
13	Biochemical, physiological and growth changes in response to salinity in callus cultures of <i>Sesuvium portulacastrum</i> L.. Plant Cell, Tissue and Organ Culture, 2010, 102, 17-25.	2.3	93
14	Effects of optimal and supra-optimal salinity stress on antioxidative defence, osmolytes and in vitro growth responses in <i>Sesuvium portulacastrum</i> L.. Plant Cell, Tissue and Organ Culture, 2011, 104, 41-49.	2.3	90
15	Emerging concepts of potassium homeostasis in plants. Journal of Experimental Botany, 2020, 71, 608-619.	4.8	81
16	Propagation of banana through encapsulated shoot tips. Plant Cell Reports, 1992, 11, 571-5.	5.6	77
17	Antioxidant activity in sugarcane juice and its protective role against radiation induced DNA damage. Food Chemistry, 2008, 106, 1154-1160.	8.2	75
18	Arsenic toxicity in rice (<i>Oryza sativa</i> L.) is influenced by sulfur supply: Impact on the expression of transporters and thiol metabolism. Geoderma, 2016, 270, 33-42.	5.1	72

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19	Coping With Metal Toxicity – Cues From Halophytes. <i>Frontiers in Plant Science</i> , 2018, 9, 777.	3.6	72
20	Prospects of Halophytes in Understanding and Managing Abiotic Stress Tolerance. , 2012, , 29-56.		71
21	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
22	Omics approaches for understanding heavy metal responses and tolerance in plants. <i>Current Plant Biology</i> , 2021, 27, 100213.	4.7	69
23	<i>Sesuvium portulacastrum</i> , a plant for drought, salt stress, sand fixation, food and phytoremediation. A review. <i>Agronomy for Sustainable Development</i> , 2013, 33, 329-348.	5.3	67
24	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
25	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
26	Induced Mutations and Crop Improvement. , 2015, , 593-617.		59
27	<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
28	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
29	The effect of arsenic on pigment composition and photosynthesis in <i>Hydrilla verticillata</i> . <i>Biologia Plantarum</i> , 2013, 57, 385-389.	1.9	56
30	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
31	Identification of redox-regulated components of arsenate (As^{V}) tolerance through thiourea supplementation in rice. <i>Metallomics</i> , 2014, 6, 1718-1730.	2.4	55
32	Thiourea, a ROS Scavenger, Regulates Source-to-Sink Relationship to Enhance Crop Yield and Oil Content in <i>Brassica juncea</i> (L.). <i>PLoS ONE</i> , 2013, 8, e73921.	2.5	53
33	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
34	Gene Expression Analysis of Rice Seedling under Potassium Deprivation Reveals Major Changes in Metabolism and Signaling Components. <i>PLoS ONE</i> , 2013, 8, e70321.	2.5	51
35	isomiRs: Increasing Evidences of isomiRs Complexity in Plant Stress Functional Biology. <i>Frontiers in Plant Science</i> , 2015, 6, 949.	3.6	51
36	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

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37	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
38	Seed "primeomics": plants memorize their germination under stress. <i>Biological Reviews</i> , 2021, 96, 1723-1743.	10.4	50
39	Investigation of arsenic accumulation and tolerance potential of <i>Sesuvium portulacastrum</i> (L.) L.. <i>Chemosphere</i> , 2011, 82, 529-534.	8.2	48
40	Mechanisms of Arsenic Tolerance and Detoxification in Plants and their Application in Transgenic Technology: A Critical Appraisal. <i>International Journal of Phytoremediation</i> , 2012, 14, 506-517.	3.1	48
41	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
42	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
43	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
44	Cellular and Subcellular Phosphate Transport Machinery in Plants. <i>International Journal of Molecular Sciences</i> , 2018, 19, 1914.	4.1	46
45	Gamma Irradiation of Embryogenic Callus Cultures and In vitro Selection for Salt Tolerance in Sugarcane (<i>Saccharum officinarum</i> L.). <i>Agricultural Sciences in China</i> , 2008, 7, 1147-1152.	0.6	43
46	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
47	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
48	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
49	Looking at Halophytic Adaptation to High Salinity Through Genomics Landscape. <i>Current Genomics</i> , 2017, 18, 542-552.	1.6	42
50	Biotechnological Developments in Sugarcane Improvement: An Overview. <i>Sugar Tech</i> , 2011, 13, 322-335.	1.8	39
51	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
52	Radiation induced in vitro mutagenesis for sugarcane improvement. <i>Sugar Tech</i> , 2008, 10, 14-19.	1.8	38
53	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
54	Gamma irradiation inhibits wound induced browning in shredded cabbage. <i>Food Chemistry</i> , 2015, 173, 38-44.	8.2	38

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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	Osmolyte Accumulation and Implications in Plant Abiotic Stress Tolerance. , 2016, , 1-12.		37
57	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
58	Allyl isothiocyanate enhances shelf life of minimally processed shredded cabbage. <i>Food Chemistry</i> , 2015, 183, 265-272.	8.2	35
59	Membrane Topology and Predicted RNA-Binding Function of the ϵ -Early Responsive to Dehydration (ERD4) Plant Protein. <i>PLoS ONE</i> , 2012, 7, e32658.	2.5	35
60	Multifaceted roles of silicon in mitigating environmental stresses in plants. <i>Plant Physiology and Biochemistry</i> , 2021, 169, 291-310.	5.8	35
61	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
62	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
63	Concerns regarding ϵ -off-target activity of genome editing endonucleases. <i>Plant Physiology and Biochemistry</i> , 2018, 131, 22-30.	5.8	32
64	Intensification in biological properties of chitosan after γ -irradiation. <i>International Journal of Biological Macromolecules</i> , 2019, 131, 435-444.	7.5	32
65	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
66	<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
67	Evaluation of effects of arsenic on carbon, nitrogen, and sulfur metabolism in two contrasting varieties of <i>Brassica juncea</i> . <i>Acta Physiologiae Plantarum</i> , 2013, 35, 3377-3389.	2.1	30
68	Positive selectable marker genes for routine plant transformation. <i>In Vitro Cellular and Developmental Biology - Plant</i> , 2002, 38, 125-128.	2.1	29
69	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
70	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
71	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
72	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

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73	Gamma radiation, in vitro selection for salt (NaCl) tolerance, and characterization of mutants in sugarcane (<i>Saccharum officinarum</i> L.). <i>In Vitro Cellular and Developmental Biology - Plant</i> , 2014, 50, 766-776.	2.1	27
74	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
75	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
76	Assessment of genetic diversity and volatile content of commercially grown banana (<i>Musa</i> spp.) cultivars. <i>Scientific Reports</i> , 2022, 12, 7979.	3.3	26
77	An in vitro radiation induced mutagenesis-selection system for salinity tolerance in sugarcane. <i>Sugar Tech</i> , 2009, 11, 246-251.	1.8	25
78	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
79	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
80	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
81	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
82	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
83	Field Performance and RAPD Analysis of Gamma-Irradiated Variants of Banana Cultivar "Giant Cavendish" (AAA). <i>International Journal of Fruit Science</i> , 2008, 8, 147-159.	2.4	22
84	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
85	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
86	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
87	Tracking the time-dependent and tissue-specific processes of arsenic accumulation and stress responses in rice (<i>Oryza sativa</i> L.). <i>Journal of Hazardous Materials</i> , 2021, 406, 124307.	12.4	22
88	Chemical intervention for enhancing growth and reducing grain arsenic accumulation in rice. <i>Environmental Pollution</i> , 2021, 276, 116719.	7.5	22
89	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
90	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

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91	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
92	Whole genome transcriptome analysis of rice seedling reveals alterations in Ca ²⁺ ion signaling and homeostasis in response to Ca ²⁺ deficiency. <i>Cell Calcium</i> , 2014, 55, 155-165.	2.4	21
93	<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
94	Antioxidant enzymes and transporter genes mediate arsenic stress reduction in rice (<i>Oryza sativa</i> L.) upon thiourea supplementation. <i>Chemosphere</i> , 2022, 292, 133482.	8.2	20
95	Molecular profiling using RAPD technique of salt and drought tolerant regenerants of sugarcane. <i>Sugar Tech</i> , 2006, 8, 63-68.	1.8	19
96	Quantitative real-time expression profiling of aquaporins-isoforms and growth response of <i>Brassica juncea</i> under arsenite stress. <i>Molecular Biology Reports</i> , 2013, 40, 2879-2886.	2.3	19
97	Halophytes: Prospective Plants for Future. , 2019, , 221-234.		19
98	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
99	Genome-wide identification, characterization and transcriptional profiling of NHX-type (Na ⁺ /H ⁺) antiporters under salinity stress in soybean. <i>3 Biotech</i> , 2021, 11, 16.	2.2	19
100	A comprehensive review on β -D-Glucans: Structural and functional diversity, derivatization and bioapplications. <i>Carbohydrate Research</i> , 2021, 503, 108297.	2.3	19
101	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
102	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
103	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
104	Engineering Resistance Against Viruses in Field Crops Using CRISPR-Cas9. <i>Current Genomics</i> , 2021, 22, 214-231.	1.6	17
105	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
106	MicroRNAs: Tiny, powerful players of metal stress responses in plants. <i>Plant Physiology and Biochemistry</i> , 2021, 166, 928-938.	5.8	16
107	Molecular insights into sensing, regulation and improving of heat tolerance in plants. <i>Plant Cell Reports</i> , 2022, 41, 799-813.	5.6	16
108	Effect of Single and Recurrent Gamma Irradiation on <i>in vitro</i> Shoot Cultures of Banana. <i>International Journal of Fruit Science</i> , 2007, 7, 47-57.	2.4	15

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109	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
110	Exogenous Application of Proline Alleviates Salt Induced Oxidative Stress More Efficiently than Glycine Betaine in Sugarcane Cultured Cells. <i>Sugar Tech</i> , 2014, 16, 22-29.	1.8	15
111	Alterations in stem sugar content and metabolism in sorghum genotypes subjected to drought stress. <i>Functional Plant Biology</i> , 2014, 41, 954.	2.1	15
112	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
113	Plant abiotic stress tolerance: Insights into resilience build-up. <i>Journal of Biosciences</i> , 2020, 45, 1.	1.1	15
114	Partial desiccation augments plant regeneration from irradiated embryogenic cultures of sugarcane. <i>Plant Cell, Tissue and Organ Culture</i> , 2007, 92, 101-105.	2.3	14
115	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
116	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
117	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 (Amsterdam, Netherlands)</i> , 2019, 22, e00343.	4.4	14
118	Physiological and molecular insights into rice-arbuscular mycorrhizal interactions under arsenic stress. <i>Plant Gene</i> , 2017, 11, 232-237.	2.3	13
119	CIPK9 targets VDAC3 and modulates oxidative stress responses in <i>Arabidopsis</i> . <i>Plant Journal</i> , 2022, 109, 241-260.	5.7	13
120	Response of adenine and pyridine metabolism during germination and early seedling growth under arsenic stress in <i>Brassica juncea</i> . <i>Acta Physiologiae Plantarum</i> , 2013, 35, 1081-1091.	2.1	12
121	A potential seedling-stage evaluation method for heat tolerance in Indian mustard (<i>Brassica juncea</i> L.) Tj ETQq1 1 0,784314 rgBT /Overlock 10 Tf 50 6	2.2	12
122	Overexpression of rice OsWINK9 promotes arsenite tolerance in transgenic <i>Arabidopsis</i> plants. <i>Journal of Biotechnology</i> , 2021, 332, 114-125.	3.8	12
123	Study of Trace Element Correlations with Drought Tolerance in Different Sorghum Genotypes Using Energy-Dispersive X-ray Fluorescence Technique. <i>Biological Trace Element Research</i> , 2002, 85, 255-267.	3.5	11
124	Monitoring Genetic Fidelity in Plants Derived Through Direct Somatic Embryogenesis in Sugarcane by RAPD Analysis. <i>Journal of New Seeds</i> , 2007, 8, 1-9.	0.3	11
125	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
126	Thiourea mediates alleviation of UV-B stress-induced damage in the Indian mustard (<i>Brassica</i>) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 6	2.1	11

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127	Aliphatic glucosinolate synthesis and gene expression changes in gamma-irradiated cabbage. <i>Food Chemistry</i> , 2016, 209, 99-103.	8.2	11
128	TRAP and SRAP molecular marker based profiling of radiation induced mutants of sugarcane (<i>Saccharum officinarum</i> L.). <i>Journal of Molecular Biology</i> , 2016, 540, 1-11.	2.3	11
129	Arsenic Remediation through Sustainable Phytoremediation Approaches. <i>Minerals (Basel)</i> , 2019, 9, 1-11.	2.0	11
130	¹³⁷ Irradiated Chitosan Mediates Enhanced Synthesis and Antimicrobial Properties of Chitosan-Silver (Ag) Nanocomposites. <i>ACS Omega</i> , 2021, 6, 34812-34822.	3.5	11
131	A Two-Step Approach to Scale Up Green Plant Regeneration Through Somatic Embryogenesis from <i>in vitro</i> 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
132	Study of elemental variations during somatic embryogenesis in sugarcane using photon induced X-ray probe. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2006, 252, 299-302.	1.4	10
133	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
134	Biochemical and physiological adaptations of the halophyte <i>Sesuvium portulacastrum</i> (L.) L., (Aizoaceae) to salinity. <i>Archives of Agronomy and Soil Science</i> , 2013, 59, 1373-1391.	2.6	10
135	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
136	Plant miRNAome: Cross Talk in Abiotic Stressful Times. <i>Sustainable Development and Biodiversity</i> , 2019, 2, 25-52.	1.7	10
137	Copper accumulation and biochemical responses of <i>Sesuvium portulacastrum</i> (L.). <i>Materials Today: Proceedings</i> , 2020, 31, 679-684.	1.8	10
138	Thiourea and hydrogen peroxide priming improved K ⁺ retention and source-sink relationship for mitigating salt stress in rice. <i>Scientific Reports</i> , 2021, 11, 3000.	3.3	10
139	Radio-sensitivity of <i>in vivo</i> and <i>in vitro</i> cultures of banana cv. Basrai (AAA). <i>Fruits</i> , 2001, 56, 67-74.	0.4	10
140	Monochromatic radiation through light-emitting diode (LED) positively augments <i>in vitro</i> shoot regeneration in Orchid (<i>Dendrobium sonia</i>). <i>Canadian Journal of Biotechnology</i> , 2017, 1, 50-58.	0.3	10
141	Multifarious Role of ROS in Halophytes: Signaling and Defense. <i>Journal of Plant Physiology</i> , 2018, 223, 207-223.		9
142	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
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