

# Sanjib Kumar Panda

## List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

110  
papers

3,882  
citations

34  
h-index

60  
g-index

112  
ext. papers

4,549  
ext. citations

3.1  
avg, IF

5.81  
L-index

#	Paper	IF	Citations
110	Reactive oxygen species signaling in plants under abiotic stress. <i>Plant Signaling and Behavior</i> , <b>2013</b> , 8, e23681	2.5	379
109	Excess copper induced oxidative stress and response of antioxidants in rice. <i>Plant Physiology and Biochemistry</i> , <b>2012</b> , 53, 33-9	5.4	255
108	Aluminum stress signaling in plants. <i>Plant Signaling and Behavior</i> , <b>2009</b> , 4, 592-7	2.5	183
107	Alterations in root lipid peroxidation and antioxidative responses in two rice cultivars under NaCl-salinity stress. <i>Acta Physiologiae Plantarum</i> , <b>2007</b> , 30, 81-89	2.6	161
106	Heavy Metals Induce Lipid Peroxidation and Affect Antioxidants in Wheat Leaves. <i>Biologia Plantarum</i> , <b>2003</b> , 46, 289-294	2.1	146
105	Toxic Effects, Oxidative Stress and Ultrastructural Changes in Moss <i>Taxithelium Nepalense</i> (Schwaegr.) Broth. Under Chromium and Lead Phytotoxicity. <i>Water, Air, and Soil Pollution</i> , <b>2005</b> , 167, 73-90	2.6	130
104	Mechanisms of water transport mediated by PIP aquaporins and their regulation via phosphorylation events under salinity stress in barley roots. <i>Plant and Cell Physiology</i> , <b>2011</b> , 52, 663-75	4.9	125
103	Chromium-mediated oxidative stress and ultrastructural changes in root cells of developing rice seedlings. <i>Journal of Plant Physiology</i> , <b>2007</b> , 164, 1419-28	3.6	124
102	Molecular mechanistic model of plant heavy metal tolerance. <i>BioMetals</i> , <b>2012</b> , 25, 489-505	3.4	88
101	Transgenic cowpea ( <i>Vigna unguiculata</i> ) seeds expressing a bean alpha-amylase inhibitor 1 confer resistance to storage pests, bruchid beetles. <i>Plant Cell Reports</i> , <b>2008</b> , 27, 1841-50	5.1	82
100	Alternative oxidase and plant stress tolerance. <i>Plant Signaling and Behavior</i> , <b>2016</b> , 11, e1256530	2.5	81
99	Salt Stress Induced Changes in Growth and Enzyme Activities in Germinating Phaseolus Mungo Seeds. <i>Biologia Plantarum</i> , <b>2001</b> , 44, 587-589	2.1	81
98	Zinc reduces copper toxicity induced oxidative stress by promoting antioxidant defense in freshly grown aquatic duckweed <i>Spirodela polyrhiza</i> L. <i>Journal of Hazardous Materials</i> , <b>2010</b> , 175, 1081-4	12.8	80
97	Arsenic stress in rice: redox consequences and regulation by iron. <i>Plant Physiology and Biochemistry</i> , <b>2014</b> , 80, 203-10	5.4	78
96	Mitochondrial alterations related to programmed cell death in tobacco cells under aluminium stress. <i>Comptes Rendus - Biologies</i> , <b>2008</b> , 331, 597-610	1.4	72
95	Arsenic Stress in Plants. <i>Journal of Agronomy and Crop Science</i> , <b>2010</b> , 196, 161-174	3.9	71
94	An insight into the drought stress induced alterations in plants. <i>Biologia Plantarum</i> , <b>2011</b> , 55,	2.1	68

93	Variation of physiological and antioxidative responses in tea cultivars subjected to elevated water stress followed by rehydration recovery. <i>Acta Physiologiae Plantarum</i> , <b>2008</b> , 30, 457-468	2.6	62
92	Effect of salicylic acid potentiates cadmium-induced oxidative damage in <i>Oryza sativa</i> L. leaves. <i>Acta Physiologiae Plantarum</i> , <b>2007</b> , 29, 567-575	2.6	60
91	Copper-induced growth inhibition, oxidative stress and ultrastructural alterations in freshly grown water lettuce ( <i>Pistia stratiotes</i> L.). <i>Comptes Rendus - Biologies</i> , <b>2009</b> , 332, 623-32	1.4	59
90	Molecular Physiology of Aluminum Toxicity and Tolerance in Plants. <i>Botanical Review, The</i> , <b>2007</b> , 73, 326-347	3.7	58
89	Changes in antioxidant levels in <i>Oryza sativa</i> L. roots subjected to NaCl-salinity stress. <i>Acta Physiologiae Plantarum</i> , <b>2002</b> , 24, 145-148	2.6	56
88	Morpho-physiological analysis of tolerance to aluminum toxicity in rice varieties of North East India. <i>PLoS ONE</i> , <b>2017</b> , 12, e0176357	3.7	50
87	Overexpression of alternative oxidase gene confers aluminum tolerance by altering the respiratory capacity and the response to oxidative stress in tobacco cells. <i>Molecular Biotechnology</i> , <b>2013</b> , 54, 551-63 <sup>3</sup>	3.3	50
86	CaCl <sub>2</sub> improves post-drought recovery potential in <i>Camellia sinensis</i> (L) O. Kuntze. <i>Plant Cell Reports</i> , <b>2011</b> , 30, 495-503	5.1	50
85	Changes in antioxidant gene expression and induction of oxidative stress in pea ( <i>Pisum sativum</i> L.) under Al stress. <i>BioMetals</i> , <b>2010</b> , 23, 753-62	3.4	50
84	Cadmium stress-induced oxidative stress and role of nitric oxide in rice ( <i>Oryza sativa</i> L.). <i>Acta Physiologiae Plantarum</i> , <b>2011</b> , 33, 1737-1747	2.6	48
83	Overexpression of a Barley Aquaporin Gene, Confers Salt and Osmotic Stress Tolerance in Yeast and Plants. <i>Frontiers in Plant Science</i> , <b>2016</b> , 7, 1566	6.2	45
82	Salt Stress Injury Induces Oxidative Alterations and Antioxidative Defence in the Roots of <i>Lemna minor</i> . <i>Biologia Plantarum</i> , <b>2004</b> , 48, 249-253	2.1	43
81	Changes in nitrate reductase activity and oxidative stress response in the moss <i>Polytrichum commune</i> subjected to chromium, copper and zinc phytotoxicity. <i>Brazilian Journal of Plant Physiology</i> , <b>2005</b> , 17, 191-197		42
80	Transcriptional Regulation of Aluminum-Tolerance Genes in Higher Plants: Clarifying the Underlying Molecular Mechanisms. <i>Frontiers in Plant Science</i> , <b>2017</b> , 8, 1358	6.2	41
79	Responses of <i>Camellia sinensis</i> to Drought and Rehydration. <i>Biologia Plantarum</i> , <b>2004</b> , 48, 597-600	2.1	41
78	ABIOTIC STRESS RESPONSES IN TEA [ <i>Camellia sinensis</i> L (O) Kuntze]: AN OVERVIEW. <i>Reviews in Agricultural Science</i> , <b>2013</b> , 1, 1-10	2.1	35
77	Enhanced salinity tolerance in transgenic mungbean overexpressing Arabidopsis antiporter (NHX1) gene. <i>Molecular Breeding</i> , <b>2016</b> , 36, 1	3.4	35
76	Growth, Oxidative Damage and Antioxidant Responses in Greengram ( <i>Vigna radiata</i> L.) under Short-term Salinity Stress and its Recovery. <i>Journal of Agronomy and Crop Science</i> , <b>2009</b> , 195, 442-454	3.9	34

75	Enhanced drought and salinity tolerance in transgenic mustard [ Brassica juncea (L.) Czern & Coss.] overexpressing Arabidopsis group 4 late embryogenesis abundant gene ( AtLEA4-1 ). <i>Environmental and Experimental Botany</i> , <b>2016</b> , 128, 99-111	5.9	34
74	Cloning and functional characterization of a vacuolar Na <sup>+</sup> /H <sup>+</sup> antiporter gene from mungbean (VrNHX1) and its ectopic expression enhanced salt tolerance in Arabidopsis thaliana. <i>PLoS ONE</i> , <b>2014</b> , 9, e106678	3.7	32
73	Impact of copper on reactive oxygen species, lipid peroxidation and antioxidants in Lemna minor. <i>Biologia Plantarum</i> , <b>2008</b> , 52, 561-564	2.1	32
72	Salt tolerance of two aquatic macrophytes, Pistia stratiotes and Salvinia molesta. <i>Biologia Plantarum</i> , <b>2005</b> , 49, 157-159	2.1	32
71	Zinc modulates drought-induced biochemical damages in tea [Camellia sinensis (L) O Kuntze]. <i>Journal of Agricultural and Food Chemistry</i> , <b>2013</b> , 61, 6660-70	5.7	30
70	Induction of Oxidative Stress in Roots of Oryza sativa L. in Response to Salt Stress. <i>Biologia Plantarum</i> , <b>2002</b> , 45, 625-627	2.1	30
69	Characterization of CcSTOP1; a C <sub>2</sub> H <sub>2</sub> -type transcription factor regulates Al tolerance gene in pigeonpea. <i>Planta</i> , <b>2018</b> , 247, 201-214	4.7	28
68	Aluminium-induced excessive ROS causes cellular damage and metabolic shifts in black gram Vigna mungo (L.) Hepper. <i>Protoplasma</i> , <b>2017</b> , 254, 293-302	3.4	27
67	VuDREB2A, a novel DREB2-type transcription factor in the drought-tolerant legume cowpea, mediates DRE-dependent expression of stress-responsive genes and confers enhanced drought resistance in transgenic Arabidopsis. <i>Planta</i> , <b>2014</b> , 240, 645-64	4.7	27
66	Comparative transcriptome and translome analysis in contrasting rice genotypes reveals differential mRNA translation in salt-tolerant Pokkali under salt stress. <i>BMC Genomics</i> , <b>2018</b> , 19, 935	4.5	27
65	Changes in growth and superoxide dismutase activity in Hydrilla verticillata L. under abiotic stress. <i>Brazilian Journal of Plant Physiology</i> , <b>2004</b> , 16, 115-118		26
64	Successful recovery of transgenic cowpea (Vigna unguiculata) using the 6-phosphomannose isomerase gene as the selectable marker. <i>Plant Cell Reports</i> , <b>2012</b> , 31, 1093-103	5.1	24
63	Ectopic overexpression of a mungbean vacuolar Na <sup>+</sup> /H <sup>+</sup> antiporter gene (VrNHX1) leads to increased salinity stress tolerance in transgenic Vigna unguiculata L. Walp. <i>Molecular Breeding</i> , <b>2014</b> , 34, 1345-1359	3.4	23
62	Bruchid pest management in pulses: past practices, present status and use of modern breeding tools for development of resistant varieties. <i>Annals of Applied Biology</i> , <b>2018</b> , 172, 4-19	2.6	22
61	Genome-wide comparative analysis of tonoplast intrinsic protein (TIP) genes in plants. <i>Functional and Integrative Genomics</i> , <b>2014</b> , 14, 617-29	3.8	21
60	Redox balance, metabolic fingerprint and physiological characterization in contrasting North East Indian rice for Aluminum stress tolerance. <i>Scientific Reports</i> , <b>2019</b> , 9, 8681	4.9	19
59	SNAC2 overexpression in Arabidopsis results in enhanced abiotic stress tolerance with alteration in glutathione metabolism. <i>Protoplasma</i> , <b>2019</b> , 256, 1065-1077	3.4	19
58	Phytotoxicity of Cd and Zn on three popular Indian mustard varieties during germination and early seedling growth. <i>Biocatalysis and Agricultural Biotechnology</i> , <b>2019</b> , 21, 101349	4.2	17

57	Molecular Physiology of Osmotic Stress in Plants <b>2013</b> , 179-192		17
56	Relative salinity tolerance of rice cultivars native to North East India: a physiological, biochemical and molecular perspective. <i>Protoplasma</i> , <b>2018</b> , 255, 193-202	3.4	16
55	Development of a genotype independent and transformation amenable regeneration system from shoot apex in rice ( <i>Oryza sativa</i> spp. indica) using TDZ. <i>3 Biotech</i> , <b>2012</b> , 2, 233-240	2.8	16
54	Influence of chromium salts on increased lipid peroxidation and differential pattern in antioxidant metabolism in <i>Pistia stratiotes</i> L. <i>Brazilian Archives of Biology and Technology</i> , <b>2010</b> , 53, 1137-1144	1.8	16
53	Cloning and characterization of a novel vacuolar Na <sup>+</sup> /H <sup>+</sup> antiporter gene (VuNHX1) from drought hardy legume, cowpea for salt tolerance. <i>Plant Cell, Tissue and Organ Culture</i> , <b>2015</b> , 120, 19-33	2.7	15
52	Zinc ameliorates copper-induced oxidative stress in developing rice ( <i>Oryza sativa</i> L.) seedlings. <i>Protoplasma</i> , <b>2014</b> , 251, 61-9	3.4	15
51	Green Synthesis, Characterization and Antibacterial Activity of ZnO Nanoparticles. <i>American Journal of Plant Sciences</i> , <b>2018</b> , 09, 1279-1291	0.5	15
50	The cowpea RING ubiquitin ligase VuDRIP interacts with transcription factor VuDREB2A for regulating abiotic stress responses. <i>Plant Physiology and Biochemistry</i> , <b>2014</b> , 83, 51-6	5.4	14
49	Qualitative Analysis of Lipid Peroxidation in Plants under Multiple Stress Through Schiff's Reagent: A Histochemical Approach. <i>Bio-protocol</i> , <b>2018</b> , 8, e2807	0.9	14
48	Drought Stress Responses and Its Management in Rice <b>2019</b> , 177-200		13
47	Determining Glutathione Levels in Plants. <i>Methods in Molecular Biology</i> , <b>2017</b> , 1631, 273-277	1.4	12
46	TRANSGENIC ASIATIC GRAIN LEGUMES FOR SALT TOLERANCE AND FUNCTIONAL GENOMICS. <i>Reviews in Agricultural Science</i> , <b>2014</b> , 2, 21-36	2.1	11
45	Iron Homeostasis in Rice: Deficit and Excess. <i>Proceedings of the National Academy of Sciences India Section B - Biological Sciences</i> , <b>2020</b> , 90, 227-235	1.4	11
44	Identification and characterization of drought responsive miRNAs in a drought tolerant upland rice cultivar KMJ 1-12-3. <i>Plant Physiology and Biochemistry</i> , <b>2019</b> , 137, 62-74	5.4	10
43	Genome-wide analysis of magnesium transporter genes in <i>Solanum lycopersicum</i> . <i>Computational Biology and Chemistry</i> , <b>2019</b> , 80, 498-511	3.6	10
42	Osmotic stress decreases PIP aquaporin transcripts in barley roots but H <sub>2</sub> O <sub>2</sub> is not involved in this process. <i>Journal of Plant Research</i> , <b>2014</b> , 127, 787-92	2.6	10
41	Nutrient- and other stress-responsive microRNAs in plants: Role for thiol-based redox signaling. <i>Plant Signaling and Behavior</i> , <b>2015</b> , 10, e1010916	2.5	10
40	Enhanced exudation of malate in the rhizosphere due to AtALMT1 overexpression in blackgram ( <i>Vigna mungo</i> L.) confers increased aluminium tolerance. <i>Plant Biology</i> , <b>2020</b> , 22, 701-708	3.7	9

39	Plant-microbe Interactions for Sustainable Agriculture in the Post-genomic Era. <i>Current Genomics</i> , <b>2020</b> , 21, 168-178	2.6	8
38	Physio-biochemical and molecular assessment of Iron (Fe) toxicity responses in contrasting indigenous aromatic Joha rice cultivars of Assam, India. <i>Protoplasma</i> , <b>2021</b> , 258, 289-299	3.4	8
37	Physiological introspection into differential drought tolerance in rice cultivars of North East India. <i>Acta Physiologiae Plantarum</i> , <b>2019</b> , 41, 1	2.6	7
36	Differential oxidative stress responses in Brassica juncea (L.) Czern and Coss cultivars induced by cadmium at germination and early seedling stage. <i>Acta Physiologiae Plantarum</i> , <b>2020</b> , 42, 1	2.6	7
35	Heavy-Metal-Induced Oxidative Stress in Plants: Physiological and Molecular Perspectives <b>2016</b> , 221-236		6
34	Advances in Heavy Metal-Induced Stress Alleviation with Respect to Exogenous Amendments in Crop Plants <b>2019</b> , 313-332		6
33	Overexpression of ICE1 gene in mungbean ( <i>Vigna radiata</i> L.) for cold tolerance. <i>Plant Cell, Tissue and Organ Culture</i> , <b>2020</b> , 143, 593-608	2.7	6
32	Crosstalk between Salt, Drought, and Cold Stress in Plants: Toward Genetic Engineering for Stress Tolerance <b>2016</b> , 57-88		6
31	Impact of zinc on dehydration and rehydration responses in tea. <i>Biologia Plantarum</i> , <b>2018</b> , 62, 395-399	2.1	5
30	Agroecotoxicological Aspect of Arsenic (As) and Cadmium (Cd) on Field Crops and its Mitigation: Current Status and Future Prospect <b>2019</b> , 217-246		5
29	Aluminum-Specific Upregulation of GmALS3 in the Shoots of Soybeans: A Potential Biomarker for Managing Soybean Production in Acidic Soil Regions. <i>Agronomy</i> , <b>2020</b> , 10, 1228	3.6	5
28	Redox status and oxalate exudation determines the differential tolerance of two contrasting varieties of Assam tea [ <i>Camelia sinensis</i> (L.) O. Kuntz] in response to aluminum toxicity. <i>Horticulture Environment and Biotechnology</i> , <b>2020</b> , 61, 485-499	2	5
27	Zinc oxide nanoparticles (ZnO-NPs): a promising nanoparticle in renovating plant science. <i>Acta Physiologiae Plantarum</i> , <b>2021</b> , 43, 1	2.6	5
26	Biochemical responses and oxidative stress induction in the roots of freshly grown <i>Spirodela polyrhiza</i> L. exposed to different levels of salinity. <i>Israel Journal of Plant Sciences</i> , <b>2004</b> , 52, 189-193	0.6	4
25	Chelators of iron and their role in plant's iron management. <i>Physiology and Molecular Biology of Plants</i> , <b>2020</b> , 26, 1541-1549	2.8	3
24	Regulation of Seed Germination and the Role of Aquaporins under Abiotic Stress. <i>International Journal of Environment Agriculture and Biotechnology</i> , <b>2017</b> , 2, 607-615	1.3	3
23	Exogenous trehalose ameliorates methyl viologen induced oxidative stress through regulation of stomatal pore opening and glutathione metabolism in tomato seedlings. <i>Vegetos</i> , <b>2020</b> , 33, 665-681	1.2	3
22	Expression genome-wide association study identifies that phosphatidylinositol-derived signalling regulates ALUMINIUM SENSITIVE3 expression under aluminium stress in the shoots of <i>Arabidopsis thaliana</i> . <i>Plant Science</i> , <b>2021</b> , 302, 110711	5.3	3

21	Comparative Transcriptomics of Lowland Rice Varieties Uncovers Novel Candidate Genes for Adaptive Iron Excess Tolerance. <i>Plant and Cell Physiology</i> , <b>2021</b> , 62, 624-640	4.9	3
20	Establishment of an Efficient Regeneration System Amenable to Agrobacterium Mediated Transformation of Two Elite Indica Rice Varieties of North East India. <i>International Journal of Applied Sciences and Biotechnology</i> , <b>2015</b> , 3, 680-686	0.4	2
19	Physiology and Biochemistry of Fe Excess in Acidic Asian Soils on Crop Plants. <i>Sains Tanah</i> , <b>2019</b> , 16, 112-120	0.7	2
18	Smart fertilizer management: the progress of imaging technologies and possible implementation of plant biomarkers in agriculture. <i>Soil Science and Plant Nutrition</i> , <b>2021</b> , 67, 248-258	1.6	2
17	Iron deficiency in blackgram ( <i>Vigna mungo</i> L.): redox status and antioxidant activity. <i>Plant Biosystems</i> , <b>2021</b> , 1-16	1.6	2
16	Salinity stress induced physiological and biochemical changes in <i>Azolla pinnata</i> . <i>Acta Botanica Hungarica</i> , <b>2006</b> , 48, 369-380	0.5	1
15	Transporters: the molecular drivers of arsenic stress tolerance in plants. <i>Journal of Plant Biochemistry and Biotechnology</i> , <b>2021</b> , 30, 730	1.6	1
14	Transcriptomic analysis revealed reactive oxygen species scavenging mechanisms associated with ferrous iron toxicity in aromatic Keteki Joha rice		1
13	Transcriptomic expression patterns of two contrasting lowland rice varieties reveal high iron stress tolerance		1
12	Tissue-Dependent Variation Profiles of Tea Quality-Related Metabolites in New Shoots of Tea Accessions. <i>Frontiers in Nutrition</i> , <b>2021</b> , 8, 659807	6.2	1
11	Comparative RNA-Seq analysis of the root revealed transcriptional regulation system for aluminum tolerance in contrasting indica rice of North East India. <i>Protoplasma</i> , <b>2021</b> , 258, 517-528	3.4	1
10	Genome-wide analysis of fluoride exporter genes in plants. <i>3 Biotech</i> , <b>2021</b> , 11, 124	2.8	1
9	Differential amelioration of cadmium toxicity by sodium nitroprusside and citric acid in <i>Brassica juncea</i> (L.) Czern and Coss. <i>Biocatalysis and Agricultural Biotechnology</i> , <b>2021</b> , 35, 102091	4.2	1
8	Effect of ethanol, putrescine and acetic acid on cadmium accumulation and toxicity in Indian mustard. <i>South African Journal of Botany</i> , <b>2022</b> , 147, 42-52	2.9	0
7	Metal ion toxicity and tolerance mechanisms in plants growing in acidic soil. <i>Sains Tanah</i> , <b>2021</b> , 18, 107	0.7	0
6	Transcriptomic Analysis Revealed Reactive Oxygen Species Scavenging Mechanisms Associated With Ferrous Iron Toxicity in Aromatic Keteki Joha Rice. <i>Frontiers in Plant Science</i> , <b>2022</b> , 13, 798580	6.2	0
5	Liquid chromatography-mass spectrometry (LC-MS) based metabolomic fingerprinting in contrasting rice varieties for iron (Fe) excess. <i>Plant Stress</i> , <b>2022</b> , 4, 100078		0
4	Expression GWAS of Identifies STOP1-Dependent and STOP1-Independent Regulation of in Aluminum Stress Signaling in .. <i>Frontiers in Plant Science</i> , <b>2021</b> , 12, 774687	6.2	0

- 3 Ectopic Overexpression of Barley PIP2;4 Confers Salt Tolerance in Arabidopsis. *International Journal of Applied Sciences and Biotechnology*, **2017**, 4, 498-512 0.4
- 2 Differential response to acidic pH in rice seedlings. *Sains Tanah*, **2022**, 19, 12 0.7
- 1 Heavy metal and metalloid stress in plants: the genomics perspective. **2015**, 164-177