Sanjib Kumar Panda

List of Publications by Year in Descending Order

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	Differential response to acidic pH in rice seedlings. *Sains Tanah*, **2022**, 19, 12	0.7	
109	Effect of ethanol, putresciene and acetic acid on cadmium accumulation and toxicity in Indian mustard. *South African Journal of Botany*, **2022**, 147, 42-52	2.9	0
108	Transcriptomic Analysis Revealed Reactive Oxygen Species Scavenging Mechanisms Associated With Ferrous Iron Toxicity in Aromatic Keteki Joha Rice.. *Frontiers in Plant Science*, **2022**, 13, 798580	6.2	0
107	Liquid chromatography-mass spectrometry (LC-MS) based metabolomic fingerprinting in contrasting rice varieties for iron (Fe) excess.. *Plant Stress*, **2022**, 4, 100078		0
106	Transporters: the molecular drivers of arsenic stress tolerance in plants. *Journal of Plant Biochemistry and Biotechnology*, **2021**, 30, 730	1.6	1
105	Smart fertilizer management: the progress of imaging technologies and possible implementation of plant biomarkers in agriculture. *Soil Science and Plant Nutrition*, **2021**, 67, 248-258	1.6	2
104	Tissue-Dependent Variation Profiles of Tea Quality-Related Metabolites in New Shoots of Tea Accessions. *Frontiers in Nutrition*, **2021**, 8, 659807	6.2	1
103	Metal ion toxicity and tolerance mechanisms in plants growing in acidic soil. *Sains Tanah*, **2021**, 18, 107	0.7	0
102	Physio-biochemical and molecular assessment of Iron (Fe) toxicity responses in contrasting indigenous aromatic Joha rice cultivars of Assam, India. *Protoplasma*, **2021**, 258, 289-299	3.4	8
101	Expression genome-wide association study identifies that phosphatidylinositol-derived signalling regulates ALUMINIUM SENSITIVE3 expression under aluminium stress in the shoots of Arabidopsis thaliana. *Plant Science*, **2021**, 302, 110711	5.3	3
100	Comparative RNA-Seq analysis of the root revealed transcriptional regulation system for aluminum tolerance in contrasting indica rice of North East India. *Protoplasma*, **2021**, 258, 517-528	3.4	1
99	Iron deficiency in blackgram (Vigna mungo L.): redox status and antioxidant activity. *Plant Biosystems*, **2021**, 1-16	1.6	2
98	Genome-wide analysis of fluoride exporter genes in plants. *3 Biotech*, **2021**, 11, 124	2.8	1
97	Comparative Transcriptomics of Lowland Rice Varieties Uncovers Novel Candidate Genes for Adaptive Iron Excess Tolerance. *Plant and Cell Physiology*, **2021**, 62, 624-640	4.9	3
96	Differential amelioration of cadmium toxicity by sodium nitroprusside and citric acid in Brassica juncea (L.) Czern and Coss. *Biocatalysis and Agricultural Biotechnology*, **2021**, 35, 102091	4.2	1
95	Zinc oxide nanoparticles (ZnO-NPs): a promising nanoparticle in renovating plant science. *Acta Physiologiae Plantarum*, **2021**, 43, 1	2.6	5
94	Expression GWAS of Identifies STOP1-Dependent and STOP1-Independent Regulation of in Aluminum Stress Signaling in .. *Frontiers in Plant Science*, **2021**, 12, 774687	6.2	0

93	Differential oxidative stress responses in Brassica juncea (L.) Czern and Coss cultivars induced by cadmium at germination and early seedling stage. *Acta Physiologiae Plantarum*, **2020**, 42, 1	2.6	7
92	Enhanced exudation of malate in the rhizosphere due to AtALMT1 overexpression in blackgram (Vigna mungo L.) confers increased aluminium tolerance. *Plant Biology*, **2020**, 22, 701-708	3.7	9
91	Chelators of iron and their role in plant's iron management. *Physiology and Molecular Biology of Plants*, **2020**, 26, 1541-1549	2.8	3
90	Overexpression of ICE1 gene in mungbean (Vigna radiata L.) for cold tolerance. *Plant Cell, Tissue and Organ Culture*, **2020**, 143, 593-608	2.7	6
89	Plant-microbe Interactions for Sustainable Agriculture in the Post-genomic Era. *Current Genomics*, **2020**, 21, 168-178	2.6	8
88	Exogenous trehalose ameliorates methyl viologen induced oxidative stress through regulation of stomatal pore opening and glutathione metabolism in tomato seedlings. *Vegetos*, **2020**, 33, 665-681	1.2	3
87	Aluminum-Specific Upregulation of GmALS3 in the Shoots of Soybeans: A Potential Biomarker for Managing Soybean Production in Acidic Soil Regions. *Agronomy*, **2020**, 10, 1228	3.6	5
86	Iron Homeostasis in Rice: Deficit and Excess. *Proceedings of the National Academy of Sciences India Section B - Biological Sciences*, **2020**, 90, 227-235	1.4	11
85	Redox status and oxalate exudation determines the differential tolerance of two contrasting varieties of Assam tea[Camelia sinensis (L.) O. Kuntz] in response to aluminum toxicity. *Horticulture Environment and Biotechnology*, **2020**, 61, 485-499	2	5
84	Phytotoxicity of Cd and Zn on three popular Indian mustard varieties during germination and early seedling growth. *Biocatalysis and Agricultural Biotechnology*, **2019**, 21, 101349	4.2	17
83	Identification and characterization of drought responsive miRNAs in a drought tolerant upland rice cultivar KMJ 1-12-3. *Plant Physiology and Biochemistry*, **2019**, 137, 62-74	5.4	10
82	Redox balance, metabolic fingerprint and physiological characterization in contrasting North East Indian rice for Aluminum stress tolerance. *Scientific Reports*, **2019**, 9, 8681	4.9	19
81	Genome-wide analysis of magnesium transporter genes in Solanum lycopersicum. *Computational Biology and Chemistry*, **2019**, 80, 498-511	3.6	10
80	Physiological introspection into differential drought tolerance in rice cultivars of North East India. *Acta Physiologiae Plantarum*, **2019**, 41, 1	2.6	7
79	SlNAC2 overexpression in Arabidopsis results in enhanced abiotic stress tolerance with alteration in glutathione metabolism. *Protoplasma*, **2019**, 256, 1065-1077	3.4	19
78	Agroecotoxicological Aspect of Arsenic (As) and Cadmium (Cd) on Field Crops and its Mitigation: Current Status and Future Prospect **2019**, 217-246		5
77	Physiology and Biochemistry of Fe Excess in Acidic Asian Soils on Crop Plants. *Sains Tanah*, **2019**, 16, 112	0.7	2
76	Advances in Heavy Metal-Induced Stress Alleviation with Respect to Exogenous Amendments in Crop Plants **2019**, 313-332		6

75	Drought Stress Responses and Its Management in Rice **2019**, 177-200		13
74	Impact of zinc on dehydration and rehydration responses in tea. *Biologia Plantarum*, **2018**, 62, 395-399	2.1	5
73	Relative salinity tolerance of rice cultivars native to North East India: a physiological, biochemical and molecular perspective. *Protoplasma*, **2018**, 255, 193-202	3.4	16
72	Characterization of CcSTOP1; a C2H2-type transcription factor regulates Al tolerance gene in pigeonpea. *Planta*, **2018**, 247, 201-214	4.7	28
71	Qualitative Analysis of Lipid Peroxidation in Plants under Multiple Stress Through Schiff's Reagent: A Histochemical Approach. *Bio-protocol*, **2018**, 8, e2807	0.9	14
70	Green Synthesis, Characterization and Antibacterial Activity of ZnO Nanoparticles. *American Journal of Plant Sciences*, **2018**, 09, 1279-1291	0.5	15
69	Bruchid pest management in pulses: past practices, present status and use of modern breeding tools for development of resistant varieties. *Annals of Applied Biology*, **2018**, 172, 4-19	2.6	22
68	Comparative transcriptome and translatome analysis in contrasting rice genotypes reveals differential mRNA translation in salt-tolerant Pokkali under salt stress. *BMC Genomics*, **2018**, 19, 935	4.5	27
67	Aluminium-induced excessive ROS causes cellular damage and metabolic shifts in black gram Vigna mungo (L.) Hepper. *Protoplasma*, **2017**, 254, 293-302	3.4	27
66	Morpho-physiological analysis of tolerance to aluminum toxicity in rice varieties of North East India. *PLoS ONE*, **2017**, 12, e0176357	3.7	50
65	Ectopic Overexpression of Barley PIP2;4 Confers Salt Tolerance in Arabidopsis. *International Journal of Applied Sciences and Biotechnology*, **2017**, 4, 498-512	0.4	
64	Determining Glutathione Levels in Plants. *Methods in Molecular Biology*, **2017**, 1631, 273-277	1.4	12
63	Transcriptional Regulation of Aluminum-Tolerance Genes in Higher Plants: Clarifying the Underlying Molecular Mechanisms. *Frontiers in Plant Science*, **2017**, 8, 1358	6.2	41
62	Regulation of Seed Germination and the Role of Aquaporins under Abiotic Stress. *International Journal of Environment Agriculture and Biotechnology*, **2017**, 2, 607-615	1.3	3
61	Heavy-Metal-Induced Oxidative Stress in Plants: Physiological and Molecular Perspectives **2016**, 221-236		6
60	Alternative oxidase and plant stress tolerance. *Plant Signaling and Behavior*, **2016**, 11, e1256530	2.5	81
59	Overexpression of a Barley Aquaporin Gene, Confers Salt and Osmotic Stress Tolerance in Yeast and Plants. *Frontiers in Plant Science*, **2016**, 7, 1566	6.2	45
58	Enhanced drought and salinity tolerance in transgenic mustard [Brassica juncea (L.) Czern & Coss.] overexpressing Arabidopsis group 4 late embryogenesis abundant gene (AtLEA4-1). *Environmental and Experimental Botany*, **2016**, 128, 99-111	5.9	34

57	Crosstalk between Salt, Drought, and Cold Stress in Plants: Toward Genetic Engineering for Stress Tolerance **2016**, 57-88		6
56	Enhanced salinity tolerance in transgenic mungbean overexpressing Arabidopsis antiporter (NHX1) gene. *Molecular Breeding*, **2016**, 36, 1	3.4	35
55	Cloning and characterization of a novel vacuolar Na+/H+ antiporter gene (VuNHX1) from drought hardy legume, cowpea for salt tolerance. *Plant Cell, Tissue and Organ Culture*, **2015**, 120, 19-33	2.7	15
54	Establishment of an Efficient Regeneration System Amenable to Agrobacterium Mediated Transformation of Two Elite Indica Rice Varieties of North East India. *International Journal of Applied Sciences and Biotechnology*, **2015**, 3, 680-686	0.4	2
53	Nutrient- and other stress-responsive microRNAs in plants: Role for thiol-based redox signaling. *Plant Signaling and Behavior*, **2015**, 10, e1010916	2.5	10
52	Heavy metal and metalloid stress in plants: the genomics perspective. **2015**, 164-177		
51	Arsenic stress in rice: redox consequences and regulation by iron. *Plant Physiology and Biochemistry*, **2014**, 80, 203-10	5.4	78
50	Genome-wide comparative analysis of tonoplast intrinsic protein (TIP) genes in plants. *Functional and Integrative Genomics*, **2014**, 14, 617-29	3.8	21
49	Ectopic overexpression of a mungbean vacuolar Na+/H+ antiporter gene (VrNHX1) leads to increased salinity stress tolerance in transgenic Vigna unguiculata L. Walp. *Molecular Breeding*, **2014** , 34, 1345-1359	3.4	23
48	The cowpea RING ubiquitin ligase VuDRIP interacts with transcription factor VuDREB2A for regulating abiotic stress responses. *Plant Physiology and Biochemistry*, **2014**, 83, 51-6	5.4	14
47	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. *Planta*, **2014**, 240, 645-64	4.7	27
46	TRANSGENIC ASIATIC GRAIN LEGUMES FOR SALT TOLERANCE AND FUNCTIONAL GENOMICS. *Reviews in Agricultural Science*, **2014**, 2, 21-36	2.1	11
45	Osmotic stress decreases PIP aquaporin transcripts in barley roots but H2O2 is not involved in this process. *Journal of Plant Research*, **2014**, 127, 787-92	2.6	10
44	Cloning and functional characterization of a vacuolar Na+/H+ antiporter gene from mungbean (VrNHX1) and its ectopic expression enhanced salt tolerance in Arabidopsis thaliana. *PLoS ONE*, **2014**, 9, e106678	3.7	32
43	Zinc ameliorates copper-induced oxidative stress in developing rice (Oryza sativa L.) seedlings. *Protoplasma*, **2014**, 251, 61-9	3.4	15
42	Overexpression of alternative oxidase gene confers aluminum tolerance by altering the respiratory capacity and the response to oxidative stress in tobacco cells. *Molecular Biotechnology*, **2013**, 54, 551-63	3	50
41	Molecular Physiology of Osmotic Stress in Plants **2013**, 179-192		17
40	Reactive oxygen species signaling in plants under abiotic stress. *Plant Signaling and Behavior*, **2013**, 8, e23681	2.5	379

39	Zinc modulates drought-induced biochemical damages in tea [Camellia sinensis (L) O Kuntze]. *Journal of Agricultural and Food Chemistry*, **2013**, 61, 6660-70	5.7	30
38	ABIOTIC STRESS RESPONSES IN TEA [Camellia sinensis L (O) Kuntze]: AN OVERVIEW. *Reviews in Agricultural Science*, **2013**, 1, 1-10	2.1	35
37	Excess copper induced oxidative stress and response of antioxidants in rice. *Plant Physiology and Biochemistry*, **2012**, 53, 33-9	5.4	255
36	Development of a genotype independent and transformation amenable regeneration system from shoot apex in rice (Oryza sativa spp. indica) using TDZ. *3 Biotech*, **2012**, 2, 233-240	2.8	16
35	Successful recovery of transgenic cowpea (Vigna unguiculata) using the 6-phosphomannose isomerase gene as the selectable marker. *Plant Cell Reports*, **2012**, 31, 1093-103	5.1	24
34	Molecular mechanistic model of plant heavy metal tolerance. *BioMetals*, **2012**, 25, 489-505	3.4	88
33	An insight into the drought stress induced alterations in plants. *Biologia Plantarum*, **2011**, 55,	2.1	68
32	CaCl2 improves post-drought recovery potential in Camellia sinensis (L) O. Kuntze. *Plant Cell Reports*, **2011**, 30, 495-503	5.1	50
31	Cadmium stress-induced oxidative stress and role of nitric oxide in rice (Oryza sativa L.). *Acta Physiologiae Plantarum*, **2011**, 33, 1737-1747	2.6	48
30	Mechanisms of water transport mediated by PIP aquaporins and their regulation via phosphorylation events under salinity stress in barley roots. *Plant and Cell Physiology*, **2011**, 52, 663-75	4.9	125
29	Arsenic Stress in Plants. *Journal of Agronomy and Crop Science*, **2010**, 196, 161-174	3.9	71
28	Influence of chromium salts on increased lipid peroxidation and differential pattern in antioxidant metabolism in Pistia stratiotes L. *Brazilian Archives of Biology and Technology*, **2010**, 53, 1137-1144	1.8	16
27	Changes in antioxidant gene expression and induction of oxidative stress in pea (Pisum sativum L.) under Al stress. *BioMetals*, **2010**, 23, 753-62	3.4	50
26	Zinc reduces copper toxicity induced oxidative stress by promoting antioxidant defense in freshly grown aquatic duckweed Spirodela polyrhiza L. *Journal of Hazardous Materials*, **2010**, 175, 1081-4	12.8	80
25	Aluminum stress signaling in plants. *Plant Signaling and Behavior*, **2009**, 4, 592-7	2.5	183
24	Growth, Oxidative Damage and Antioxidant Responses in Greengram (Vigna radiata L.) under Short-term Salinity Stress and its Recovery. *Journal of Agronomy and Crop Science*, **2009**, 195, 442-454	3.9	34
23	Copper-induced growth inhibition, oxidative stress and ultrastructural alterations in freshly grown water lettuce (Pistia stratiotes L.). *Comptes Rendus - Biologies*, **2009**, 332, 623-32	1.4	59
22	Mitochondrial alterations related to programmed cell death in tobacco cells under aluminium stress. *Comptes Rendus - Biologies*, **2008**, 331, 597-610	1.4	72

21	Impact of copper on reactive oxygen species, lipid peroxidation and antioxidants in Lemna minor. *Biologia Plantarum*, **2008**, 52, 561-564	2.1	32
20	Transgenic cowpea (Vigna unguiculata) seeds expressing a bean alpha-amylase inhibitor 1 confer resistance to storage pests, bruchid beetles. *Plant Cell Reports*, **2008**, 27, 1841-50	5.1	82
19	Variation of physiological and antioxidative responses in tea cultivars subjected to elevated water stress followed by rehydration recovery. *Acta Physiologiae Plantarum*, **2008**, 30, 457-468	2.6	62
18	Molecular Physiology of Aluminum Toxicity and Tolerance in Plants. *Botanical Review, The*, **2007**, 73, 326-347	3.8	58
17	Effect of salicylic acid potentiates cadmium-induced oxidative damage in Oryza sativa L. leaves. *Acta Physiologiae Plantarum*, **2007**, 29, 567-575	2.6	60
16	Alterations in root lipid peroxidation and antioxidative responses in two rice cultivars under NaCl-salinity stress. *Acta Physiologiae Plantarum*, **2007**, 30, 81-89	2.6	161
15	Chromium-mediated oxidative stress and ultrastructural changes in root cells of developing rice seedlings. *Journal of Plant Physiology*, **2007**, 164, 1419-28	3.6	124
14	Salinity stress induced physiological and biochemical changes in Azolla pinnata. *Acta Botanica Hungarica*, **2006**, 48, 369-380	0.5	1
13	Changes in nitrate reductase activity and oxidative stress response in the moss Polytrichum commune subjected to chromium, copper and zinc phytotoxicity. *Brazilian Journal of Plant Physiology*, **2005**, 17, 191-197		42
12	Toxic Effects, Oxidative Stress and Ultrastructural Changes in Moss Taxithelium Nepalense (Schwaegr.) Broth. Under Chromium and Lead Phytotoxicity. *Water, Air, and Soil Pollution*, **2005**, 167, 73-90	2.6	130
11	Salt tolerance of two aquatic macrophytes, Pistia stratiotes and Salvinia molesta. *Biologia Plantarum*, **2005**, 49, 157-159	2.1	32
10	Changes in growth and superoxide dismutase activity in Hydrilla verticillata L. under abiotic stress. *Brazilian Journal of Plant Physiology*, **2004**, 16, 115-118		26
9	Salt Stress Injury Induces Oxidative Alterations and Antioxidative Defence in the Roots of Lemna minor. *Biologia Plantarum*, **2004**, 48, 249-253	2.1	43
8	Responses of Camellia sinensis to Drought and Rehydration. *Biologia Plantarum*, **2004**, 48, 597-600	2.1	41
7	Biochemical responses and oxidative stress induction in the roots of freshly grown Spirodela polyrhiza L. exposed to different levels of salinity. *Israel Journal of Plant Sciences*, **2004**, 52, 189-193	0.6	4
6	Heavy Metals Induce Lipid Peroxidation and Affect Antioxidants in Wheat Leaves. *Biologia Plantarum*, **2003**, 46, 289-294	2.1	146
5	Changes in antioxidant levels in Oryza sativa L. roots subjected to NaCl-salinity stress. *Acta Physiologiae Plantarum*, **2002**, 24, 145-148	2.6	56
4	Induction of Oxidative Stress in Roots of Oryza sativa L. in Response to Salt Stress. *Biologia Plantarum*, **2002**, 45, 625-627	2.1	30

3	Salt Stress Induced Changes in Growth and Enzyme Activities in Germinating Phaseolus Mungo Seeds. *Biologia Plantarum*, **2001**, 44, 587-589	2.1	81
2	Transcriptomic analysis revealed reactive oxygen species scavenging mechanisms associated with ferrous iron toxicity in aromatic Keteki Joha rice		1
1	Transcriptomic expression patterns of two contrasting lowland rice varieties reveal high iron stress tolerance		1