Aditya Banerjee

List of Publications by Year
in descending order

74 papers	2,280 citations	270111 25 h-index	299063 42 g-index
83 all docs	83 docs citations	83 times ranked	2059 citing authors

#	Article	IF	Citations
1	Arsenic Toxicity is Counteracted by Exogenous Application of Melatonin to Different Extents in Arsenic-susceptible and Arsenic-tolerant Rice Cultivars. Journal of Plant Growth Regulation, 2022, 41, 2210-2231.	2.8	14
2	Role of magnetopriming in alleviation of abiotic stress in plants. , 2022, , 519-523.		0
3	Nitric oxide mediated regulation of stomatal movement during desiccation. , 2022, , 493-502.		0
4	Explicating the cross-talks between nanoparticles, signaling pathways and nutrient homeostasis during environmental stresses and xenobiotic toxicity for sustainable cultivation of cereals. Chemosphere, 2022, 286, 131827.	4.2	22
5	Roles of turgorins and systemins in promoting agriculture. , 2022, , 415-422.		1
6	Fluoride tolerance in rice is negatively regulated by the â€˜stress-phytohormoneâ€™ abscisic acid (ABA), but promoted by ABA-antagonist growth regulators, melatonin, and gibberellic acid. Protoplasma, 2022, 259, 1331-1350.	1.0	17
7	Silver and zinc nanoparticles in the improvement of agricultural crops. , 2022, , 199-209.		1
8	Rhizofiltration of combined arsenic-fluoride or lead-fluoride polluted water using common aquatic plants and use of the â€˜cleanâ€™ water for alleviating combined xenobiotic toxicity in a sensitive rice variety. Environmental Pollution, 2022, 304, 119128.	3.7	8
9	Fluoride toxicity variably affects overall physiology and grain development in three contrasting rice genotypes, representing a potential biohazard. Environmental Science and Pollution Research, 2021, 28, 40220-40232.	2.7	18
10	Silicon nanoparticle-pulsing mitigates fluoride stress in rice by fine-tuning the ionomic and metabolomic balance and refining agronomic traits. Chemosphere, 2021, 262, 127826.	4.2	47
11	Differential lead-fluoride and nickel-fluoride uptake in co-polluted soil variably affects the overall physiome in an aromatic rice cultivar. Environmental Pollution, 2021, 268, 115504.	3.7	12
12	Fluoride Stress-Mediated Regulation of Tricarboxylic Acid Cycle and Sugar Metabolism in Rice Seedlings in Absence and Presence of Exogenous Calcium. Journal of Plant Growth Regulation, 2021, 40, 1579-1593.	2.8	14
13	Differential Responses of Vigna radiata and Vigna mungo to Fluoride-Induced Oxidative Stress and Amelioration via Exogenous Application of Sodium Nitroprusside. Journal of Plant Growth Regulation, 2021, 40, 2342-2357.	2.8	11
14	Metallothionein-assisted phytoremediation of inorganic pollutants. , 2021, , 81-90.		4
15	Roles of Hydrogen Sulfide in Regulating Temperature Stress Response in Plants. , 2021, , 207-215.		3
16	Role of sugars in mediating abiotic stress tolerance in legumes. , 2021, , 93-103.		1
17	Exogenous melatonin regulates endogenous phytohormone homeostasis and thiol-mediated detoxification in two indica rice cultivars under arsenic stress. Plant Cell Reports, 2021, 40, 1585-1602.	2.8	29
18	Maghemite nano-fertilization promotes fluoride tolerance in rice by restoring grain yield and modulating the ionome and physiome. Ecotoxicology and Environmental Safety, 2021, 215, 112055.	2.9	11

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19	Functional and molecular characterization of fluoride exporter (FEX) from rice and its constitutive overexpression in Nicotiana benthamiana to promote fluoride tolerance. Plant Cell Reports, 2021, 40, 1751-1772.	2.8	4
20	Fluoride-induced toxicity is ameliorated in a susceptible indica rice cultivar by exogenous application of the nitric oxide donor, sodium nitroprusside. Vegetos, 2021, 34, 568-580.	0.8	1
21	Beneficial aspects of cobalt uptake in plants exposed to abiotic stresses. , 2021, , 523-529.		1
22	Phosphate, nitrate and polyamine transporters in abiotic stress response in plants. , 2021, , 29-35.		0
23	Spermine ameliorates prolonged fluoride toxicity in soil-grown rice seedlings by activating the antioxidant machinery and glyoxalase system. Ecotoxicology and Environmental Safety, 2020, 189, 109737.	2.9	34
24	Deciphering the molecular mechanism behind stimulated co-uptake of arsenic and fluoride from soil, associated toxicity, defence and glyoxalase machineries in arsenic-tolerant rice. Journal of Hazardous Materials, 2020, 390, 121978.	6.5	38
25	Seed priming with calcium compounds abrogate fluoride-induced oxidative stress by upregulating defence pathways in an indica rice variety. Protoplasma, 2020, 257, 767-782.	1.0	34
26	Exogenous supplementation of melatonin alters representative organic acids and enzymes of respiratory cycle as well as sugar metabolism during arsenic stress in two contrasting indica rice cultivars. Journal of Biotechnology, 2020, 324, 220-232.	1.9	45
27	Deciphering the Roles of Protein Phosphatases in the Regulation of Salt-Induced Signaling Responses in Plants. , 2020, , 149-162.		0
28	De novo RNA-Seq analysis in sensitive rice cultivar and comparative transcript profiling in contrasting genotypes reveal genetic biomarkers for fluoride-stress response. Environmental Pollution, 2020, 267, 115378.	3.7	8
29	Differential regulation of genes co-involved in aroma production and stress amelioration during salt acclimation in indica rice cultivars. Biologia (Poland), 2020, 75, 495-506.	0.8	3
30	Gibberellic Acid-Priming Promotes Fluoride Tolerance in a Susceptible Indica Rice Cultivar by Regulating the Antioxidant and Phytohormone Homeostasis. Journal of Plant Growth Regulation, 2020, 39, 1476-1487.	2.8	22
31	Plant Responses to Environmental Nickel Toxicity. , 2020, , 101-111.		5
32	The role of aquaporins during plant abiotic stress responses. , 2020, , 643-661.		4
33	Spectrum of Physiological and Molecular Responses in Plant Salinity Stress Tolerance. , 2020, , 1-12.		1
34	High-Throughput Genomics. , 2020, , 309-316.		2
35	Regulation of inducible promoters during salinity stress in plants. , 2020, , 111-122.		1
36	Physiological and Genetic Basis of Submergence Tolerance in Rice. , 2020, , 399-406.		1

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37	Rice Grain Quality and Abiotic Stress: Genomics and Biotechnological Perspectives. , 2020, , 747-752.		1
38	Quantitative Trait Loci for Rice Grain Quality Improvement. , 2020, , 687-697.		2
39	Differential fluoride uptake induces variable physiological damage in a non-aromatic and an aromatic indica rice cultivar. Plant Physiology and Biochemistry, 2019, 142, 143-150.	2.8	35
40	Melatonin application reduces fluoride uptake and toxicity in rice seedlings by altering abscisic acid, gibberellin, auxin and antioxidant homeostasis. Plant Physiology and Biochemistry, 2019, 145, 164-173.	2.8	68
41	Differential regulation of defence pathways in aromatic and non-aromatic indica rice cultivars towards fluoride toxicity. Plant Cell Reports, 2019, 38, 1217-1233.	2.8	49
42	The Regulatory Signaling of Gibberellin Metabolism and Its Crosstalk With Phytohormones in Response to Plant Abiotic Stresses. , 2019, , 333-339.		18
43	Salt acclimation differentially regulates the metabolites commonly involved in stress tolerance and aroma synthesis in indica rice cultivars. Plant Growth Regulation, 2019, 88, 87-97.	1.8	41
44	Structural introspection of a putative fluoride transporter in plants. 3 Biotech, 2019, 9, 103.	1.1	20
45	Genetic Engineering in Plants for Enhancing Arsenic Tolerance. , 2019, , 463-475.		7
46	Spermidine application reduces fluoride uptake and ameliorates physiological injuries in a susceptible rice cultivar by activating diverse regulators of the defense machinery. Environmental Science and Pollution Research, 2019, 26, 36598-36614.	2.7	19
47	The karrikin â€˜calisthenicsâ€™: Can compounds derived from smoke help in stress tolerance?. Physiologia Plantarum, 2019, 165, 290-302.	2.6	30
48	Rice Responses and Tolerance to Elevated Ozone. , 2019, , 399-411.		6
49	Nanoparticle-Induced Ecotoxicological Risks in Aquatic Environments. , 2019, , 129-141.		3
50	Abiotic Stress Tolerance in Plants by Priming and Pretreatment with Hydrogen Peroxide. , 2019, , 417-426.		6
51	Targeting Glycinebetaine for Abiotic Stress Tolerance in Crop Plants: Physiological Mechanism, Molecular Interaction and Signaling. Phyton, 2019, 88, 185-221.	0.4	26
52	Fluorine: a biohazardous agent for plants and phytoremediation strategies for its removal from the environment. Biologia Plantarum, 2019, 63, 104-112.	1.9	55
53	Strigolactones: multi-level regulation of biosynthesis and diverse responses in plant abiotic stresses. Acta Physiologiae Plantarum, 2018, 40, 1.	1.0	50
54	Salt Stress Responses in Pigeon Pea (Cajanus cajan L.). , 2018, , 99-108.		4

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55	Role of Polyamines in Mediating Antioxidant Defense and Epigenetic Regulation in Plants Exposed to Heavy Metal Toxicity. , 2018, , 229-247.		25
56	Role of Beneficial Trace Elements in Salt Stress Tolerance of Plants. , 2018, , 377-390.		16
57	Interactions of Brassinosteroids with Major Phytohormones: Antagonistic Effects. Journal of Plant Growth Regulation, 2018, 37, 1025-1032.	2.8	43
58	The gymnastics of epigenomics in rice. Plant Cell Reports, 2018, 37, 25-49.	2.8	43
59	Hydrogen sulphide trapeze: Environmental stress amelioration and phytohormone crosstalk. Plant Physiology and Biochemistry, 2018, 132, 46-53.	2.8	97
60	Seed Priming Technology in the Amelioration of Salinity Stress in Plants. , 2018, , 81-93.		17
61	Small Heat Shock Proteins. , 2018, , 367-376.		16
62	Abscisic-acid-dependent basic leucine zipper (bZIP) transcription factors in plant abiotic stress. Protoplasma, 2017, 254, 3-16.	1.0	234
63	Seed pre-treatment with spermidine alleviates oxidative damages to different extent in the salt (NaCl)-stressed seedlings of three indica rice cultivars with contrasting level of salt tolerance. Plant Gene, 2017, 11, 112-123.	1.4	53
64	Epigenetic regulation during salinity and drought stress in plants: Histone modifications and DNA methylation. Plant Gene, 2017, 11, 199-204.	1.4	65
65	Effect of Salinity Stress on Growth and Physiology of Medicinal Plants. , 2017, , 177-188.		15
66	Epigenetic Control of Plant Cold Responses. Frontiers in Plant Science, 2017, 8, 1643.	1.7	86
67	Plant Responses to Light Stress: Oxidative Damages, Photoprotection, and Role of Phytohormones. , 2016, , 181-213.		21
68	Emerging techniques to decipher microRNAs (miRNAs) and their regulatory role in conferring abiotic stress tolerance of plants. Plant Biotechnology Reports, 2016, 10, 185-205.	0.9	52
69	Group II late embryogenesis abundant (LEA) proteins: structural and functional aspects in plant abiotic stress. Plant Growth Regulation, 2016, 79, 1-17.	1.8	157
70	Metabolic and molecular-genetic regulation of proline signaling and itscross-talk with major effectors mediates abiotic stress tolerance in plants. Turkish Journal of Botany, 2015, 39, 887-910.	0.5	102
71	WRKY Proteins: Signaling and Regulation of Expression during Abiotic Stress Responses. Scientific World Journal, The, 2015, 2015, 1-17.	0.8	234
72	Transcriptome Analysis of Abiotic Stress Response in Plants. Transcriptomics: Open Access, 2015, 03, .	0.2	27

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73	Dissecting the phytohormonal, genomic and proteomic regulation of micronutrient deficiency during abiotic stresses in plants. , 0, , .		0
74	Assessing the rhizofiltration potential of three aquatic plants exposed to fluoride and multiple heavy metal polluted water. Vegetos, 0, , .	0.8	1