Anjana Jajoo

List of Publications by Year
in descending order

98 papers	5,947 citations	136885 32 h-index	79644 73 g-index
106 all docs	106 docs citations	106 times ranked	5695 citing authors

#	Article	IF	Citations
1	Shielding of Photosynthetic Apparatus by Consortia of Bacterial Endophytes in Tomato Plants Suffering From Fusarium Wilt. Frontiers in Agronomy, 2022, 4, .	1.5	1
2	Study of high temperature stress induced damage and recovery in photosystem II (PSII) and photosystem I (PSI) in Spinach leaves (Spinacia oleracia). Journal of Plant Biochemistry and Biotechnology, 2021, 30, 532-544.	0.9	11
3	Regulation of Photosystem II Heterogeneity and Photochemistry in Two Cultivars of C4 Crop Sugarcane Under Chilling Stress. Frontiers in Plant Science, 2021, 12, 627012.	1.7	10
4	Behind the scene: Critical role of reactive oxygen species and reactive nitrogen species in salt stress tolerance. Journal of Agronomy and Crop Science, 2021, 207, 577-588.	1.7	18
5	Priming with zinc oxide nanoparticles improve germination and photosynthetic performance in wheat. Plant Physiology and Biochemistry, 2021, 160, 341-351.	2.8	143
6	Tapping Into Actinobacterial Genomes for Natural Product Discovery. Frontiers in Microbiology, 2021, 12, 655620.	1.5	12
7	H2O2 signaling regulates seed germination in ZnO nanoprimed wheat (Triticum aestivum L.) seeds for improving plant performance under drought stress. Environmental and Experimental Botany, 2021, 189, 104561.	2.0	47
8	Seed nanopriming by silicon oxide improves drought stress alleviation potential in wheat plants. Functional Plant Biology, 2021, 48, 905-915.	1.1	43
9	Enzymatic pathway involved in the degradation of fluoranthene by microalgae Chlorella vulgaris. Ecotoxicology, 2021, 30, 268-276.	1.1	26
10	Effect of High-Temperature Stress on Plant Physiological Traits and Mycorrhizal Symbiosis in Maize Plants. Journal of Fungi (Basel, Switzerland), 2021, 7, 867.	1.5	10
11	Role of arbuscular mycorrhizal fungi as an underground saviuor for protecting plants from abiotic stresses. Physiology and Molecular Biology of Plants, 2021, 27, 2589-2603.	1.4	31
12	Arbuscular mycorrhizal fungi protects maize plants from high temperature stress by regulating photosystem II heterogeneity. Industrial Crops and Products, 2020, 143, 111934.	2.5	41
13	Protection of PSI and PSII complexes of wheat from toxic effect of anthracene by Bacillus subtilis (NCIM 5594). Photosynthesis Research, 2020, 146, 197-211.	1.6	11
14	Optimization of various encapsulation systems for efficient immobilization of actinobacterial glucose isomerase. Biocatalysis and Agricultural Biotechnology, 2020, 29, 101766.	1.5	13
15	Arbuscular Mycorrhizal fungi (AMF) protects photosynthetic apparatus of wheat under drought stress. Photosynthesis Research, 2019, 139, 227-238.	1.6	146
16	Physiological Responses of Wheat to Environmental Stresses. , 2019, , 31-61.		9
17	Photosynthetic response in wheat plants caused by the phototoxicity of fluoranthene. Functional Plant Biology, 2019, 46, 725.	1.1	7
18	Improved photosynthetic efficacy of maize (Zea mays) plants with arbuscular mycorrhizal fungi (AMF) under high temperature stress. Journal of Photochemistry and Photobiology B: Biology, 2018, 180, 149-154.	1.7	142

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19	Photosynthetic efficiency in sun and shade plants. Photosynthetica, 2018, 56, 354-365.	0.9	113
20	Investigating role of Triton X-100 in ameliorating deleterious effects of anthracene in wheat plants. Photosynthetica, 2018, 56, 652-659.	0.9	5
21	Impact of intraspecific competition on photosynthetic apparatus efficiency in potato (Solanum) Tj ETQq1 1 0.784314 rgBT /Overlock 10	0.9	11
22	Structural and functional disorder in the photosynthetic apparatus of radish plants under magnesium deficiency. Functional Plant Biology, 2018, 45, 668.	1.1	42
23	Study of microbial diversity in plantâ€“microbe interaction system with oil sludge contamination. International Journal of Phytoremediation, 2018, 20, 789-795.	1.7	6
24	Low-pH induced reversible reorganizations of chloroplast thylakoid membranes â€” As revealed by small-angle neutron scattering. Biochimica Et Biophysica Acta - Bioenergetics, 2017, 1858, 360-365.	0.5	13
25	Assessment of hydrocarbon degradation potentials in a plantâ€“microbe interaction system with oil sludge contamination: A sustainable solution. International Journal of Phytoremediation, 2017, 19, 1085-1092.	1.7	21
26	Effects of nitrogen-deficiency on efficiency of light-harvesting apparatus in radish. Plant Physiology and Biochemistry, 2017, 119, 81-92.	2.8	45
27	A part of the upstream promoter region of SHN2 gene directs trichome specific expression in Arabidopsis thaliana and heterologous plants. Plant Science, 2017, 264, 138-148.	1.7	4
28	Mechanisms of inhibitory effects of polycyclic aromatic hydrocarbons in photosynthetic primary processes in pea leaves and thylakoid preparations. Plant Biology, 2017, 19, 683-688.	1.8	42
29	Frequently asked questions about chlorophyll fluorescence, the sequel. Photosynthesis Research, 2017, 132, 13-66.	1.6	419
30	PSI becomes more tolerant to fluoranthene through the initiation of cyclic electron flow. Functional Plant Biology, 2017, 44, 978.	1.1	18
31	Effects of Environmental Pollutants Polycyclic Aromatic Hydrocarbons (PAH) on Photosynthetic Processes. , 2017, , 249-259.		7
32	Chlorophyll a fluorescence as a tool to monitor physiological status of plants under abiotic stress conditions. Acta Physiologiae Plantarum, 2016, 38, 1.	1.0	870
33	Cyclic electron flow plays an important role in protection of spinach leaves under high temperature stress. Russian Journal of Plant Physiology, 2016, 63, 210-215.	0.5	21
34	Photodamage of ironâ€“sulphur clusters in photosystem I induces non-photochemical energy dissipation. Nature Plants, 2016, 2, 16035.	4.7	133
35	Investigation of deleterious effects of chromium phytotoxicity and photosynthesis in wheat plant. Photosynthetica, 2016, 54, 185-192.	0.9	129
36	Assessment of phytotoxicity of anthracene in soybean (<i>Glycine max</i>) with a quick method of chlorophyll fluorescence. Plant Biology, 2015, 17, 870-876.	1.8	27

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37	Photomodified fluoranthene exerts more harmful effects as compared to intact fluoranthene by inhibiting growthÂand photosynthetic processes in wheat. Ecotoxicology and Environmental Safety, 2015, 122, 31-36.	2.9	31
38	Canopy Temperature as a Selection Parameter for Grain Yield and Its Components in Durum Wheat Under Terminal Heat Stress in Late Sown Conditions. Agricultural Research, 2015, 4, 238-244.	0.9	36
39	Investigating changes in the redox state of Photosystem I at low pH. Journal of Photochemistry and Photobiology B: Biology, 2015, 151, 25-30.	1.7	1
40	Light-harvesting II antenna trimers connect energetically the entire photosynthetic machinery â€" including both photosystems II and I. Biochimica Et Biophysica Acta - Bioenergetics, 2015, 1847, 607-619.	0.5	108
41	Investigating primary sites of damage in photosystem II in response to high temperature. Indian Journal of Plant Physiology, 2015, 20, 304-309.	0.8	1
42	Investigating deleterious effects of ultraviolet (UV) radiations on wheat by a quick method. Acta Physiologiae Plantarum, 2015, 37, 1.	1.0	18
43	Effects of Heat Stress on Growth and Crop Yield of Wheat (Triticum aestivum). , 2014, , 163-191.		18
44	Proton concentration in the thylakoid membranes can regulate energy distribution between the two photosystems. Photosynthetica, 2014, 52, 636-640.	0.9	5
45	Prasanna K. Mohanty (1934â€"2013): a great photosynthetiker and a wonderful human being who touched the hearts of many. Photosynthesis Research, 2014, 122, 235-260.	1.6	13
46	Low pHâ€induced regulation of excitation energy between the two photosystems. FEBS Letters, 2014, 588, 970-974.	1.3	24
47	Impact of increasing Ultraviolet-B (UV-B) radiation on photosynthetic processes. Journal of Photochemistry and Photobiology B: Biology, 2014, 137, 55-66.	1.7	257
48	Photosynthesis: Response to high temperature stress. Journal of Photochemistry and Photobiology B: Biology, 2014, 137, 116-126.	1.7	516
49	Inhibitory effects of polycyclic aromatic hydrocarbons (PAHs) on photosynthetic performance are not related to their aromaticity. Journal of Photochemistry and Photobiology B: Biology, 2014, 137, 151-155.	1.7	54
50	Fluoranthene, a polycyclic aromatic hydrocarbon, inhibits light as well as dark reactions of photosynthesis in wheat (Triticum aestivum). Ecotoxicology and Environmental Safety, 2014, 109, 110-115.	2.9	47
51	Frequently asked questions about in vivo chlorophyll fluorescence: practical issues. Photosynthesis Research, 2014, 122, 121-158.	1.6	585
52	Cyclic electron flow around photosystem I is enhanced at low pH. Plant Physiology and Biochemistry, 2014, 83, 194-199.	2.8	5
53	Alterations in photochemical efficiency of photosystem II in wheat plant on hot summer day. Physiology and Molecular Biology of Plants, 2014, 20, 527-531.	1.4	27
54	A quick method to screen high and low yielding wheat cultivars exposed to high temperature. Physiology and Molecular Biology of Plants, 2014, 20, 533-537.	1.4	19

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55	The Use of Chlorophyll Fluorescence Kinetics Analysis to Study the Performance of Photosynthetic Machinery in Plants. , 2014, , 347-384.		38
56	Stress and Photosynthesis. Journal of Photochemistry and Photobiology B: Biology, 2014, 137, 1-3.	1.7	3
57	Effects of dual stress (high salt and high temperature) on the photochemical efficiency of wheat leaves (Triticum aestivum). Physiology and Molecular Biology of Plants, 2013, 19, 179-188.	1.4	58
58	Towards a critical understanding of the photosystem II repair mechanism and its regulation during stress conditions. FEBS Letters, 2013, 587, 3372-3381.	1.3	140
59	Alteration in PS II heterogeneity under the influence of polycyclic aromatic hydrocarbon (fluoranthene) in wheat leaves (Triticum aestivum). Plant Science, 2013, 209, 58-63.	1.7	31
60	Changes in Photosystem II in Response to Salt Stress. , 2013, , 149-168.		15
61	A quick investigation of the detrimental effects of environmental pollutant polycyclic aromatic hydrocarbon fluoranthene on the photosynthetic efficiency of wheat (Triticum aestivum). Ecotoxicology, 2013, 22, 1313-1318.	1.1	37
62	Changes in PS II heterogeneity in response to osmotic and ionic stress in wheat leaves (Triticum) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 4	1.0	37
63	Low pH induced structural reorganization in thylakoid membranes. Biochimica Et Biophysica Acta - Bioenergetics, 2012, 1817, 1388-1391.	0.5	22
64	Characterization of upstream sequences of the peroxidase gene, Atprx18 of Arabidopsis thaliana. Journal of Plant Biochemistry and Biotechnology, 2012, 21, 121-127.	0.9	4
65	Chloroplasts and mitochondria have multiple heat tolerant isozymes of SOD and APX in leaf and inflorescence in Chenopodium album. Biochemical and Biophysical Research Communications, 2011, 412, 522-525.	1.0	17
66	Analysis of elevated temperatureâ€induced inhibition of photosystem II using chlorophyll <i>a</i> fluorescence induction kinetics in wheat leaves (<i>Triticum aestivum</i>). Plant Biology, 2011, 13, 1-6.	1.8	173
67	Analysis of high temperature stress on the dynamics of antenna size and reducing side heterogeneity of Photosystem II in wheat leaves (Triticum aestivum). Biochimica Et Biophysica Acta - Bioenergetics, 2011, 1807, 22-29.	0.5	118
68	Mechanism of action of anions on the electron transport chain in thylakoid membranes of higher plants. Journal of Bioenergetics and Biomembranes, 2011, 43, 195-202.	1.0	7
69	Effects of high temperature and low pH on photosystem 2 photochemistry in spinach thylakoid membranes. Biologia Plantarum, 2011, 55, .	1.9	4
70	Computational analysis of fluorescence induction curves in intact spinach leaves treated at different pH. BioSystems, 2011, 103, 158-163.	0.9	19
71	Analysis of salt stress induced changes in Photosystem II heterogeneity by prompt fluorescence and delayed fluorescence in wheat (Triticum aestivum) leaves. Journal of Photochemistry and Photobiology B: Biology, 2011, 104, 308-313.	1.7	36
72	Study on the effects of chloride depletion on photosystem II using different chloride depletion methods. Journal of Bioenergetics and Biomembranes, 2010, 42, 47-53.	1.0	0

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73	Fluoride affects distribution of absorbed excitation energy more in favour of photosystem 1. Biologia Plantarum, 2010, 54, 556-560.	1.9	10
74	Characterization of photosystem II heterogeneity in response to high salt stress in wheat leaves (Triticum aestivum). Photosynthesis Research, 2010, 105, 249-255.	1.6	78
75	Chlorophyll a fluorescence study revealing effects of high salt stress on Photosystem II in wheat leaves. Plant Physiology and Biochemistry, 2010, 48, 16-20.	2.8	367
76	Evidence that pH can drive state transitions in isolated thylakoid membranes from spinach. Photochemical and Photobiological Sciences, 2010, 9, 830-837.	1.6	16
77	Quality Control of Photosystem II. Journal of Biological Chemistry, 2009, 284, 25343-25352.	1.6	79
78	High salt stress in coupled and uncoupled thylakoid membranes: A comparative study. Biochemistry (Moscow), 2009, 74, 620-624.	0.7	4
79	Elucidating the site of action of oxalate in photosynthetic electron transport chain in spinach thylakoid membranes. Photosynthesis Research, 2008, 97, 177-184.	1.6	5
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91	EPR characteristics of chloride-depleted photosystem II membranes in the presence of other anions. Photochemical and Photobiological Sciences, 2005, 4, 459.	1.6	14
92	Decay Kinetics of Tyrosine Radical (Y_Z[*]) in Chloride Anion-Depleted Photosystem 2 Studied by Time-Resolved EPR. Photosynthetica, 2004, 42, 59-64.	0.9	3
93	Evaluation of the Specific Roles of Anions in Electron Transport and Energy Transfer Reactions in Photosynthesis. Photosynthetica, 2001, 39, 321-337.	0.9	12
94	Inorganic anions induce state changes in spinach thylakoid membranes. FEBS Letters, 1998, 434, 193-196.	1.3	23
95	Mg2+-Induced Lipid-Phase Transition in Thylakoid Membranes Is Reversed by Anions. Biochemical and Biophysical Research Communications, 1994, 202, 1724-1730.	1.0	11
96	On the participation of chloride in bicarbonate-induced reversal of anion inhibition of photosystem II electron transport in spinach thylakoids. Physiologia Plantarum, 1993, 88, 78-84.	2.6	7
97	Effect of Anions on Photosystem 1-Mediated Electron Transport in Spinach Chloroplasts. Journal of Experimental Botany, 1993, 44, 785-790.	2.4	5
98	On the participation of chloride in bicarbonate-induced reversal of anion inhibition of photosystem II electron transport in spinach thylakoids. Physiologia Plantarum, 1993, 88, 78-84.	2.6	1