

Anjana Jajoo

List of Publications by Year in descending order

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Version: 2024-02-01

98
papers

5,947
citations

136950

32
h-index

79698

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. <i>Frontiers in Agronomy</i> , 2022, 4, .	3.3	1
2	Study of high temperature stress induced damage and recovery in photosystem II (PSII) and photosystem I (PSI) in Spinach leaves (<i>Spinacia oleracea</i>). <i>Journal of Plant Biochemistry and Biotechnology</i> , 2021, 30, 532-544.	1.7	11
3	Regulation of Photosystem II Heterogeneity and Photochemistry in Two Cultivars of C4 Crop Sugarcane Under Chilling Stress. <i>Frontiers in Plant Science</i> , 2021, 12, 627012.	3.6	10
4	Behind the scene: Critical role of reactive oxygen species and reactive nitrogen species in salt stress tolerance. <i>Journal of Agronomy and Crop Science</i> , 2021, 207, 577-588.	3.5	18
5	Priming with zinc oxide nanoparticles improve germination and photosynthetic performance in wheat. <i>Plant Physiology and Biochemistry</i> , 2021, 160, 341-351.	5.8	143
6	Tapping Into Actinobacterial Genomes for Natural Product Discovery. <i>Frontiers in Microbiology</i> , 2021, 12, 655620.	3.5	12
7	H2O2 signaling regulates seed germination in ZnO nanoprimered wheat (<i>Triticum aestivum</i> L.) seeds for improving plant performance under drought stress. <i>Environmental and Experimental Botany</i> , 2021, 189, 104561.	4.2	47
8	Seed nanoprimering by silicon oxide improves drought stress alleviation potential in wheat plants. <i>Functional Plant Biology</i> , 2021, 48, 905-915.	2.1	43
9	Enzymatic pathway involved in the degradation of fluoranthene by microalgae <i>Chlorella vulgaris</i> . <i>Ecotoxicology</i> , 2021, 30, 268-276.	2.4	26
10	Effect of High-Temperature Stress on Plant Physiological Traits and Mycorrhizal Symbiosis in Maize Plants. <i>Journal of Fungi (Basel, Switzerland)</i> , 2021, 7, 867.	3.5	10
11	Role of arbuscular mycorrhizal fungi as an underground saviuor for protecting plants from abiotic stresses. <i>Physiology and Molecular Biology of Plants</i> , 2021, 27, 2589-2603.	3.1	31
12	Arbuscular mycorrhizal fungi protects maize plants from high temperature stress by regulating photosystem II heterogeneity. <i>Industrial Crops and Products</i> , 2020, 143, 111934.	5.2	41
13	Protection of PSI and PSII complexes of wheat from toxic effect of anthracene by <i>Bacillus subtilis</i> (NCIM 5594). <i>Photosynthesis Research</i> , 2020, 146, 197-211.	2.9	11
14	Optimization of various encapsulation systems for efficient immobilization of actinobacterial glucose isomerase. <i>Biocatalysis and Agricultural Biotechnology</i> , 2020, 29, 101766.	3.1	13
15	Arbuscular Mycorrhizal fungi (AMF) protects photosynthetic apparatus of wheat under drought stress. <i>Photosynthesis Research</i> , 2019, 139, 227-238.	2.9	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. <i>Functional Plant Biology</i> , 2019, 46, 725.	2.1	7
18	Improved photosynthetic efficacy of maize (<i>Zea mays</i>) plants with arbuscular mycorrhizal fungi (AMF) under high temperature stress. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2018, 180, 149-154.	3.8	142

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19	Photosynthetic efficiency in sun and shade plants. <i>Photosynthetica</i> , 2018, 56, 354-365.	1.7	113
20	Investigating role of Triton X-100 in ameliorating deleterious effects of anthracene in wheat plants. <i>Photosynthetica</i> , 2018, 56, 652-659.	1.7	5
21	Impact of intraspecific competition on photosynthetic apparatus efficiency in potato (<i>Solanum</i>) Tj ETQq1 1 0.784314 rgBT /Oyerlock 11	1.7	11
22	Structural and functional disorder in the photosynthetic apparatus of radish plants under magnesium deficiency. <i>Functional Plant Biology</i> , 2018, 45, 668.	2.1	42
23	Study of microbial diversity in plant-microbe interaction system with oil sludge contamination. <i>International Journal of Phytoremediation</i> , 2018, 20, 789-795.	3.1	6
24	Low-pH induced reversible reorganizations of chloroplast thylakoid membranes as revealed by small-angle neutron scattering. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2017, 1858, 360-365.	1.0	13
25	Assessment of hydrocarbon degradation potentials in a plant-microbe interaction system with oil sludge contamination: A sustainable solution. <i>International Journal of Phytoremediation</i> , 2017, 19, 1085-1092.	3.1	21
26	Effects of nitrogen-deficiency on efficiency of light-harvesting apparatus in radish. <i>Plant Physiology and Biochemistry</i> , 2017, 119, 81-92.	5.8	45
27	A part of the upstream promoter region of SHN2 gene directs trichome specific expression in <i>Arabidopsis thaliana</i> and heterologous plants. <i>Plant Science</i> , 2017, 264, 138-148.	3.6	4
28	Mechanisms of inhibitory effects of polycyclic aromatic hydrocarbons in photosynthetic primary processes in pea leaves and thylakoid preparations. <i>Plant Biology</i> , 2017, 19, 683-688.	3.8	42
29	Frequently asked questions about chlorophyll fluorescence, the sequel. <i>Photosynthesis Research</i> , 2017, 132, 13-66.	2.9	419
30	PSI becomes more tolerant to fluoranthene through the initiation of cyclic electron flow. <i>Functional Plant Biology</i> , 2017, 44, 978.	2.1	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. <i>Acta Physiologiae Plantarum</i> , 2016, 38, 1.	2.1	870
33	Cyclic electron flow plays an important role in protection of spinach leaves under high temperature stress. <i>Russian Journal of Plant Physiology</i> , 2016, 63, 210-215.	1.1	21
34	Photodamage of iron-sulphur clusters in photosystem I induces non-photochemical energy dissipation. <i>Nature Plants</i> , 2016, 2, 16035.	9.3	133
35	Investigation of deleterious effects of chromium phytotoxicity and photosynthesis in wheat plant. <i>Photosynthetica</i> , 2016, 54, 185-192.	1.7	129
36	Assessment of phytotoxicity of anthracene in soybean (<i>Glycine max</i>) with a quick method of chlorophyll fluorescence. <i>Plant Biology</i> , 2015, 17, 870-876.	3.8	27

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37	Photomodified fluoranthene exerts more harmful effects as compared to intact fluoranthene by inhibiting growth and photosynthetic processes in wheat. <i>Ecotoxicology and Environmental Safety</i> , 2015, 122, 31-36.	6.0	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. <i>Agricultural Research</i> , 2015, 4, 238-244.	1.7	36
39	Investigating changes in the redox state of Photosystem I at low pH. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2015, 151, 25-30.	3.8	1
40	Light-harvesting II antenna trimers connect energetically the entire photosynthetic machinery including both photosystems II and I. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2015, 1847, 607-619.	1.0	108
41	Investigating primary sites of damage in photosystem II in response to high temperature. <i>Indian Journal of Plant Physiology</i> , 2015, 20, 304-309.	0.8	1
42	Investigating deleterious effects of ultraviolet (UV) radiations on wheat by a quick method. <i>Acta Physiologiae Plantarum</i> , 2015, 37, 1.	2.1	18
43	Effects of Heat Stress on Growth and Crop Yield of Wheat (<i>Triticum aestivum</i>). , 2014, , 163-191.		18
44	Proton concentration in the thylakoid membranes can regulate energy distribution between the two photosystems. <i>Photosynthetica</i> , 2014, 52, 636-640.	1.7	5
45	Prasanna K. Mohanty (1934-2013): a great photosynthetiker and a wonderful human being who touched the hearts of many. <i>Photosynthesis Research</i> , 2014, 122, 235-260.	2.9	13
46	Low pH-induced regulation of excitation energy between the two photosystems. <i>FEBS Letters</i> , 2014, 588, 970-974.	2.8	24
47	Impact of increasing Ultraviolet-B (UV-B) radiation on photosynthetic processes. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2014, 137, 55-66.	3.8	257
48	Photosynthesis: Response to high temperature stress. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2014, 137, 116-126.	3.8	516
49	Inhibitory effects of polycyclic aromatic hydrocarbons (PAHs) on photosynthetic performance are not related to their aromaticity. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2014, 137, 151-155.	3.8	54
50	Fluoranthene, a polycyclic aromatic hydrocarbon, inhibits light as well as dark reactions of photosynthesis in wheat (<i>Triticum aestivum</i>). <i>Ecotoxicology and Environmental Safety</i> , 2014, 109, 110-115.	6.0	47
51	Frequently asked questions about in vivo chlorophyll fluorescence: practical issues. <i>Photosynthesis Research</i> , 2014, 122, 121-158.	2.9	585
52	Cyclic electron flow around photosystem I is enhanced at low pH. <i>Plant Physiology and Biochemistry</i> , 2014, 83, 194-199.	5.8	5
53	Alterations in photochemical efficiency of photosystem II in wheat plant on hot summer day. <i>Physiology and Molecular Biology of Plants</i> , 2014, 20, 527-531.	3.1	27
54	A quick method to screen high and low yielding wheat cultivars exposed to high temperature. <i>Physiology and Molecular Biology of Plants</i> , 2014, 20, 533-537.	3.1	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.	3.8	3
57	Effects of dual stress (high salt and high temperature) on the photochemical efficiency of wheat leaves (<i>Triticum aestivum</i>). Physiology and Molecular Biology of Plants, 2013, 19, 179-188.	3.1	58
58	Towards a critical understanding of the photosystem II repair mechanism and its regulation during stress conditions. FEBS Letters, 2013, 587, 3372-3381.	2.8	140
59	Alteration in PS II heterogeneity under the influence of polycyclic aromatic hydrocarbon (fluoranthene) in wheat leaves (<i>Triticum aestivum</i>). Plant Science, 2013, 209, 58-63.	3.6	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 (<i>Triticum aestivum</i>). Ecotoxicology, 2013, 22, 1313-1318.	2.4	37
62	Changes in PS II heterogeneity in response to osmotic and ionic stress in wheat leaves (<i>Triticum</i>) Tj ETQq0 0 0 rgBT/Overlock_10 Tf 50 4	2.3	37
63	Low pH induced structural reorganization in thylakoid membranes. Biochimica Et Biophysica Acta - Bioenergetics, 2012, 1817, 1388-1391.	1.0	22
64	Characterization of upstream sequences of the peroxidase gene, Atpx18 of <i>Arabidopsis thaliana</i> . Journal of Plant Biochemistry and Biotechnology, 2012, 21, 121-127.	1.7	4
65	Chloroplasts and mitochondria have multiple heat tolerant isozymes of SOD and APX in leaf and inflorescence in <i>Chenopodium album</i> . Biochemical and Biophysical Research Communications, 2011, 412, 522-525.	2.1	17
66	Analysis of elevated temperature induced inhibition of photosystem II using chlorophyll fluorescence induction kinetics in wheat leaves (<i>Triticum aestivum</i>). Plant Biology, 2011, 13, 1-6.	3.8	173
67	Analysis of high temperature stress on the dynamics of antenna size and reducing side heterogeneity of Photosystem II in wheat leaves (<i>Triticum aestivum</i>). Biochimica Et Biophysica Acta - Bioenergetics, 2011, 1807, 22-29.	1.0	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.	2.3	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.	2.0	19
71	Analysis of salt stress induced changes in Photosystem II heterogeneity by prompt fluorescence and delayed fluorescence in wheat (<i>Triticum aestivum</i>) leaves. Journal of Photochemistry and Photobiology B: Biology, 2011, 104, 308-313.	3.8	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.	2.3	0

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73	Fluoride affects distribution of absorbed excitation energy more in favour of photosystem 1. <i>Biologia Plantarum</i> , 2010, 54, 556-560.	1.9	10
74	Characterization of photosystem II heterogeneity in response to high salt stress in wheat leaves (<i>Triticum aestivum</i>). <i>Photosynthesis Research</i> , 2010, 105, 249-255.	2.9	78
75	Chlorophyll a fluorescence study revealing effects of high salt stress on Photosystem II in wheat leaves. <i>Plant Physiology and Biochemistry</i> , 2010, 48, 16-20.	5.8	367
76	Evidence that pH can drive state transitions in isolated thylakoid membranes from spinach. <i>Photochemical and Photobiological Sciences</i> , 2010, 9, 830-837.	2.9	16
77	Quality Control of Photosystem II. <i>Journal of Biological Chemistry</i> , 2009, 284, 25343-25352.	3.4	79
78	High salt stress in coupled and uncoupled thylakoid membranes: A comparative study. <i>Biochemistry (Moscow)</i> , 2009, 74, 620-624.	1.5	4
79	Elucidating the site of action of oxalate in photosynthetic electron transport chain in spinach thylakoid membranes. <i>Photosynthesis Research</i> , 2008, 97, 177-184.	2.9	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.	2.9	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.	1.7	3
93	Evaluation of the Specific Roles of Anions in Electron Transport and Energy Transfer Reactions in Photosynthesis. Photosynthetica, 2001, 39, 321-337.	1.7	12
94	Inorganic anions induce state changes in spinach thylakoid membranes. FEBS Letters, 1998, 434, 193-196.	2.8	23
95	Mg ²⁺ -Induced Lipid-Phase Transition in Thylakoid Membranes Is Reversed by Anions. Biochemical and Biophysical Research Communications, 1994, 202, 1724-1730.	2.1	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.	5.2	7
97	Effect of Anions on Photosystem 1-Mediated Electron Transport in Spinach Chloroplasts. Journal of Experimental Botany, 1993, 44, 785-790.	4.8	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.	5.2	1