

# Anjana Jajoo

## List of Publications by Year in descending order

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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	Chlorophyll a fluorescence as a tool to monitor physiological status of plants under abiotic stress conditions. <i>Acta Physiologiae Plantarum</i> , 2016, 38, 1.	1.0	870
2	Frequently asked questions about in vivo chlorophyll fluorescence: practical issues. <i>Photosynthesis Research</i> , 2014, 122, 121-158.	1.6	585
3	Photosynthesis: Response to high temperature stress. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2014, 137, 116-126.	1.7	516
4	Frequently asked questions about chlorophyll fluorescence, the sequel. <i>Photosynthesis Research</i> , 2017, 132, 13-66.	1.6	419
5	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.	2.8	367
6	Impact of increasing Ultraviolet-B (UV-B) radiation on photosynthetic processes. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2014, 137, 55-66.	1.7	257
7	Analysis of elevated temperature-induced inhibition of photosystem II using chlorophyll fluorescence induction kinetics in wheat leaves ( <i>Triticum aestivum</i> ). <i>Plant Biology</i> , 2011, 13, 1-6.	1.8	173
8	Arbuscular Mycorrhizal fungi (AMF) protects photosynthetic apparatus of wheat under drought stress. <i>Photosynthesis Research</i> , 2019, 139, 227-238.	1.6	146
9	Priming with zinc oxide nanoparticles improve germination and photosynthetic performance in wheat. <i>Plant Physiology and Biochemistry</i> , 2021, 160, 341-351.	2.8	143
10	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.	1.7	142
11	Towards a critical understanding of the photosystem II repair mechanism and its regulation during stress conditions. <i>FEBS Letters</i> , 2013, 587, 3372-3381.	1.3	140
12	Photodamage of iron-sulphur clusters in photosystem I induces non-photochemical energy dissipation. <i>Nature Plants</i> , 2016, 2, 16035.	4.7	133
13	Investigation of deleterious effects of chromium phytotoxicity and photosynthesis in wheat plant. <i>Photosynthetica</i> , 2016, 54, 185-192.	0.9	129
14	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> ). <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2011, 1807, 22-29.	0.5	118
15	Photosynthetic efficiency in sun and shade plants. <i>Photosynthetica</i> , 2018, 56, 354-365.	0.9	113
16	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.	0.5	108
17	Quality Control of Photosystem II. <i>Journal of Biological Chemistry</i> , 2009, 284, 25343-25352.	1.6	79
18	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.	1.6	78

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19	Effects of dual stress (high salt and high temperature) on the photochemical efficiency of wheat leaves ( <i>Triticum aestivum</i> ). <i>Physiology and Molecular Biology of Plants</i> , 2013, 19, 179-188.	1.4	58
20	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.	1.7	54
21	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.	2.9	47
22	H <sub>2</sub> O <sub>2</sub> signaling regulates seed germination in ZnO nanoprimed wheat ( <i>Triticum aestivum</i> L.) seeds for improving plant performance under drought stress. <i>Environmental and Experimental Botany</i> , 2021, 189, 104561.	2.0	47
23	Effects of nitrogen-deficiency on efficiency of light-harvesting apparatus in radish. <i>Plant Physiology and Biochemistry</i> , 2017, 119, 81-92.	2.8	45
24	Seed nanopriming by silicon oxide improves drought stress alleviation potential in wheat plants. <i>Functional Plant Biology</i> , 2021, 48, 905-915.	1.1	43
25	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.	1.8	42
26	Structural and functional disorder in the photosynthetic apparatus of radish plants under magnesium deficiency. <i>Functional Plant Biology</i> , 2018, 45, 668.	1.1	42
27	Arbuscular mycorrhizal fungi protects maize plants from high temperature stress by regulating photosystem II heterogeneity. <i>Industrial Crops and Products</i> , 2020, 143, 111934.	2.5	41
28	5-Aminolevulinic acid-induced protoporphyrin-IX accumulation and associated phototoxicity in macrophages and oral cancer cell lines. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2007, 88, 156-162.	1.7	40
29	The Use of Chlorophyll Fluorescence Kinetics Analysis to Study the Performance of Photosynthetic Machinery in Plants. , 2014, , 347-384.		38
30	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 3	1.0	37
31	A quick investigation of the detrimental effects of environmental pollutant polycyclic aromatic hydrocarbon fluoranthene on the photosynthetic efficiency of wheat ( <i>Triticum aestivum</i> ). <i>Ecotoxicology</i> , 2013, 22, 1313-1318.	1.1	37
32	Analysis of salt stress induced changes in Photosystem II heterogeneity by prompt fluorescence and delayed fluorescence in wheat ( <i>Triticum aestivum</i> ) leaves. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2011, 104, 308-313.	1.7	36
33	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.	0.9	36
34	Alteration in PS II heterogeneity under the influence of polycyclic aromatic hydrocarbon (fluoranthene) in wheat leaves ( <i>Triticum aestivum</i> ). <i>Plant Science</i> , 2013, 209, 58-63.	1.7	31
35	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.	2.9	31
36	Role of arbuscular mycorrhizal fungi as an underground saviour for protecting plants from abiotic stresses. <i>Physiology and Molecular Biology of Plants</i> , 2021, 27, 2589-2603.	1.4	31

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37	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.	1.4	27
38	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.	1.8	27
39	Enzymatic pathway involved in the degradation of fluoranthene by microalgae <i>Chlorella vulgaris</i> . <i>Ecotoxicology</i> , 2021, 30, 268-276.	1.1	26
40	Low pH induced regulation of excitation energy between the two photosystems. <i>FEBS Letters</i> , 2014, 588, 970-974.	1.3	24
41	Inorganic anions induce state changes in spinach thylakoid membranes. <i>FEBS Letters</i> , 1998, 434, 193-196.	1.3	23
42	Low pH induced structural reorganization in thylakoid membranes. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2012, 1817, 1388-1391.	0.5	22
43	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.	0.5	21
44	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.	1.7	21
45	Computational analysis of fluorescence induction curves in intact spinach leaves treated at different pH. <i>BioSystems</i> , 2011, 103, 158-163.	0.9	19
46	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.	1.4	19
47	Effects of Heat Stress on Growth and Crop Yield of Wheat ( <i>Triticum aestivum</i> ). , 2014, , 163-191.		18
48	Investigating deleterious effects of ultraviolet (UV) radiations on wheat by a quick method. <i>Acta Physiologiae Plantarum</i> , 2015, 37, 1.	1.0	18
49	PSI becomes more tolerant to fluoranthene through the initiation of cyclic electron flow. <i>Functional Plant Biology</i> , 2017, 44, 978.	1.1	18
50	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.	1.7	18
51	Chloroplasts and mitochondria have multiple heat tolerant isozymes of SOD and APX in leaf and inflorescence in <i>Chenopodium album</i> . <i>Biochemical and Biophysical Research Communications</i> , 2011, 412, 522-525.	1.0	17
52	Evidence that pH can drive state transitions in isolated thylakoid membranes from spinach. <i>Photochemical and Photobiological Sciences</i> , 2010, 9, 830-837.	1.6	16
53	Heat-induced changes in photosystem I activity as measured with different electron donors in isolated spinach thylakoid membranes. <i>Photochemical and Photobiological Sciences</i> , 2008, 7, 485-491.	1.6	15
54	Changes in Photosystem II in Response to Salt Stress. , 2013, , 149-168.		15

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55	EPR characteristics of chloride-depleted photosystem II membranes in the presence of other anions. <i>Photochemical and Photobiological Sciences</i> , 2005, 4, 459.	1.6	14
56	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.	1.6	13
57	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.	0.5	13
58	Optimization of various encapsulation systems for efficient immobilization of actinobacterial glucose isomerase. <i>Biocatalysis and Agricultural Biotechnology</i> , 2020, 29, 101766.	1.5	13
59	Evaluation of the Specific Roles of Anions in Electron Transport and Energy Transfer Reactions in Photosynthesis. <i>Photosynthetica</i> , 2001, 39, 321-337.	0.9	12
60	Tapping Into Actinobacterial Genomes for Natural Product Discovery. <i>Frontiers in Microbiology</i> , 2021, 12, 655620.	1.5	12
61	Mg <sup>2+</sup> -Induced Lipid-Phase Transition in Thylakoid Membranes Is Reversed by Anions. <i>Biochemical and Biophysical Research Communications</i> , 1994, 202, 1724-1730.	1.0	11

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73	Differential response of chloride binding sites to elevated temperature: a comparative study in spinach thylakoids and PSII-enriched membranes. <i>Photosynthesis Research</i> , 2007, 93, 123-132.	1.6	8
74	On the participation of chloride in bicarbonate-induced reversal of anion inhibition of photosystem II electron transport in spinach thylakoids. <i>Physiologia Plantarum</i> , 1993, 88, 78-84.	2.6	7
75	Mechanism of action of anions on the electron transport chain in thylakoid membranes of higher plants. <i>Journal of Bioenergetics and Biomembranes</i> , 2011, 43, 195-202.	1.0	7
76	Photosynthetic response in wheat plants caused by the phototoxicity of fluoranthene. <i>Functional Plant Biology</i> , 2019, 46, 725.	1.1	7
77	Effects of Environmental Pollutants Polycyclic Aromatic Hydrocarbons (PAH) on Photosynthetic Processes. , 2017, , 249-259.		7
78	A thermoluminescence study of the effects of nitrite on photosystem II in spinach thylakoids. <i>Luminescence</i> , 2006, 21, 143-147.	1.5	6
79	Study of microbial diversity in plant-microbe interaction system with oil sludge contamination. <i>International Journal of Phytoremediation</i> , 2018, 20, 789-795.	1.7	6
80	Effect of Anions on Photosystem I-Mediated Electron Transport in Spinach Chloroplasts. <i>Journal of Experimental Botany</i> , 1993, 44, 785-790.	2.4	5
81	Elucidating the site of action of oxalate in photosynthetic electron transport chain in spinach thylakoid membranes. <i>Photosynthesis Research</i> , 2008, 97, 177-184.	1.6	5
82	Proton concentration in the thylakoid membranes can regulate energy distribution between the two photosystems. <i>Photosynthetica</i> , 2014, 52, 636-640.	0.9	5
83	Cyclic electron flow around photosystem I is enhanced at low pH. <i>Plant Physiology and Biochemistry</i> , 2014, 83, 194-199.	2.8	5
84	Investigating role of Triton X-100 in ameliorating deleterious effects of anthracene in wheat plants. <i>Photosynthetica</i> , 2018, 56, 652-659.	0.9	5
85	An EPR study of the pH dependence of formate effects on Photosystem II. <i>Plant Physiology and Biochemistry</i> , 2006, 44, 186-192.	2.8	4
86	Anion effects on the structural organization of spinach thylakoid membranes. <i>Biologia Plantarum</i> , 2006, 50, 444-446.	1.9	4
87	High salt stress in coupled and uncoupled thylakoid membranes: A comparative study. <i>Biochemistry (Moscow)</i> , 2009, 74, 620-624.	0.7	4
88	Effects of high temperature and low pH on photosystem 2 photochemistry in spinach thylakoid membranes. <i>Biologia Plantarum</i> , 2011, 55, .	1.9	4
89	Characterization of upstream sequences of the peroxidase gene, <i>Atrpx18</i> of <i>Arabidopsis thaliana</i> . <i>Journal of Plant Biochemistry and Biotechnology</i> , 2012, 21, 121-127.	0.9	4
90	A part of the upstream promoter region of <i>SHN2</i> gene directs trichome specific expression in <i>Arabidopsis thaliana</i> and heterologous plants. <i>Plant Science</i> , 2017, 264, 138-148.	1.7	4

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91	Decay Kinetics of Tyrosine Radical ( $Y_{Z}^{*}$ ) in Chloride Anion-Depleted Photosystem 2 Studied by Time-Resolved EPR. <i>Photosynthetica</i> , 2004, 42, 59-64.	0.9	3
92	Stress and Photosynthesis. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2014, 137, 1-3.	1.7	3
93	Characterization of an rpoN mutant of <i>Mesorhizobium ciceri</i> . <i>Journal of Applied Microbiology</i> , 2007, 103, 1798-1807.	1.4	2
94	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.	1.7	1
95	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
96	On the participation of chloride in bicarbonate-induced reversal of anion inhibition of photosystem II electron transport in spinach thylakoids. <i>Physiologia Plantarum</i> , 1993, 88, 78-84.	2.6	1
97	Shielding of Photosynthetic Apparatus by Consortia of Bacterial Endophytes in Tomato Plants Suffering From Fusarium Wilt. <i>Frontiers in Agronomy</i> , 2022, 4, .	1.5	1
98	Study on the effects of chloride depletion on photosystem II using different chloride depletion methods. <i>Journal of Bioenergetics and Biomembranes</i> , 2010, 42, 47-53.	1.0	0