

# Chlorophyll fluorescence analysis: a guide to good practice and applications

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Citation Report

#	ARTICLE	IF	CITATIONS
1	Photosynthetic and physiological responses of native and exotic tidal woody seedlings to simulated tidal immersion. <i>Estuarine, Coastal and Shelf Science</i> , 2013, 135, 280-284.	0.9	4
2	Chlorophyll a Fluorescence in Evaluation of the Effect of Heavy Metal Soil Contamination on Perennial Grasses. <i>PLoS ONE</i> , 2014, 9, e91475.	1.1	80
3	Interact to Survive: <i>Phyllobacterium brassicacearum</i> Improves <i>Arabidopsis</i> Tolerance to Severe Water Deficit and Growth Recovery. <i>PLoS ONE</i> , 2014, 9, e107607.	1.1	42
4	Mitogen-Activated Protein Kinase 4 Is a Salicylic Acid-Independent Regulator of Growth But Not of Photosynthesis in <i>Arabidopsis</i> . <i>Molecular Plant</i> , 2014, 7, 1151-1166.	3.9	83
5	Assessing the poplar photochemical response to high zinc concentrations by image processing and statistical approach. <i>Photosynthesis Research</i> , 2014, 122, 315-322.	1.6	4
6	<i>Arabidopsis</i> PIAL1 and 2 Promote SUMO Chain Formation as E4-Type SUMO Ligases and Are Involved in Stress Responses and Sulfur Metabolism. <i>Plant Cell</i> , 2014, 26, 4547-4560.	3.1	73
7	Hyperspectral and Chlorophyll Fluorescence Imaging for Early Detection of Plant Diseases, with Special Reference to <i>Fusarium spec.</i> Infections on Wheat. <i>Agriculture (Switzerland)</i> , 2014, 4, 32-57.	1.4	126
8	Photo-oxidative stress markers as a measure of abiotic stress-induced leaf senescence: advantages and limitations. <i>Journal of Experimental Botany</i> , 2014, 65, 3845-3857.	2.4	142
9	Algal photosynthetic responses to toxic metals and herbicides assessed by chlorophyll a fluorescence. <i>Ecotoxicology and Environmental Safety</i> , 2014, 104, 51-71.	2.9	201
10	Action and target sites of nitric oxide in chloroplasts. <i>Nitric Oxide - Biology and Chemistry</i> , 2014, 39, 35-45.	1.2	49
11	Frequently asked questions about in vivo chlorophyll fluorescence: practical issues. <i>Photosynthesis Research</i> , 2014, 122, 121-158.	1.6	585
12	Foliar application of isopyrazam and epoxiconazole improves photosystem II efficiency, biomass and yield in winter wheat. <i>Pesticide Biochemistry and Physiology</i> , 2014, 114, 52-60.	1.6	37
13	Compartment specific response of antioxidants to drought stress in <i>Arabidopsis</i> . <i>Plant Science</i> , 2014, 227, 133-144.	1.7	90
14	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
15	Selenium uptake, dynamic changes in selenium content and its influence on photosynthesis and chlorophyll fluorescence in rice ( <i>Oryza sativa</i> L.). <i>Environmental and Experimental Botany</i> , 2014, 107, 39-45.	2.0	161
16	Chlorophyll fluorescence imaging to facilitate breeding of <i>Bremia lactucae</i> -resistant lettuce cultivars. <i>Computers and Electronics in Agriculture</i> , 2014, 105, 74-82.	3.7	27
17	Field Phenotyping and Long-Term Platforms to Characterise How Crop Genotypes Interact with Soil Processes and the Environment. <i>Agronomy</i> , 2014, 4, 242-278.	1.3	16
18	Photoprotection in sequestered plastids of sea slugs and respective algal sources. <i>Scientific Reports</i> , 2015, 5, 7904.	1.6	42

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19	Resilience of a semi-deciduous shrub, <i>Cistus salvifolius</i> , to severe summer drought and heat stress. <i>Functional Plant Biology</i> , 2015, 42, 219.	1.1	27
20	In situ chlorophyll fluorescence kinetics as a tool to quantify effects on photosynthesis in <i>Euphorbia cyparissias</i> by a parasitic infection of the rust fungus <i>Uromyces pisi</i> . <i>BMC Research Notes</i> , 2015, 8, 698.	0.6	22
21	Photon flux density and temperature-dependent responses of photosynthesis and photosystem II performance of apple leaves grown in field conditions. <i>Functional Plant Biology</i> , 2015, 42, 782.	1.1	12
22	Expression of OsCAS (Calcium-Sensing Receptor) in an <i>Arabidopsis</i> Mutant Increases Drought Tolerance. <i>PLoS ONE</i> , 2015, 10, e0131272.	1.1	25
23	Nanoencapsulation Enhances the Post-Emergence Herbicidal Activity of Atrazine against Mustard Plants. <i>PLoS ONE</i> , 2015, 10, e0132971.	1.1	132
24	Salt sensitivity in chickpea: Growth, photosynthesis, seed yield components and tissue ion regulation in contrasting genotypes. <i>Journal of Plant Physiology</i> , 2015, 182, 1-12.	1.6	92
25	Temperature-dependent responses of the photosynthetic and chlorophyll fluorescence attributes of apple ( <i>Malus domestica</i> ) leaves during a sustained high temperature event. <i>Plant Physiology and Biochemistry</i> , 2015, 97, 139-146.	2.8	17
26	LiDAR: An important tool for next-generation phenotyping technology of high potential for plant phenomics?. <i>Computers and Electronics in Agriculture</i> , 2015, 119, 61-73.	3.7	145
27	Diverse mechanisms for photoprotection in photosynthesis. Dynamic regulation of photosystem II excitation in response to rapid environmental change. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2015, 1847, 468-485.	0.5	200
28	Acclimations to light quality on plant and leaf level affect the vulnerability of pepper ( <i>Capsicum</i> ) Tj ETQq1 1 0.784314 rgBT /Overlock 10 1.2 28	1.2	28
29	Roles of Proteome Dynamics and Cytokinin Signaling in Root to Hypocotyl Ratio Changes Induced by Shading Roots of <i>Arabidopsis</i> Seedlings. <i>Plant and Cell Physiology</i> , 2015, 56, 1006-1018.	1.5	28
30	Multigene manipulation of photosynthetic carbon assimilation increases CO <sub>2</sub> fixation and biomass yield in tobacco. <i>Journal of Experimental Botany</i> , 2015, 66, 4075-4090.	2.4	197
31	Photochemical and antioxidative responses of the glume and flag leaf to seasonal senescence in wheat. <i>Frontiers in Plant Science</i> , 2015, 6, 358.	1.7	41
32	Estimating chlorophyll content and photochemical yield of photosystem II ( $\hat{\Gamma}$ <sub>PSII</sub> ) using solar-induced chlorophyll fluorescence measurements at different growing stages of attached leaves. <i>Journal of Experimental Botany</i> , 2015, 66, 5595-5603.	2.4	25
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34	Polyphenol oxidase-mediated protection against oxidative stress is not associated with enhanced photosynthetic efficiency. <i>Annals of Botany</i> , 2015, 116, 529-540.	1.4	43
35	Does excess boron affect hormone levels of potato cultivars?. <i>Biotechnology and Biotechnological Equipment</i> , 2015, 29, 887-891.	0.5	5
36	Manipulation of the Xanthophyll Cycle Increases Plant Susceptibility to <i>Sclerotinia sclerotiorum</i> . <i>PLoS Pathogens</i> , 2015, 11, e1004878.	2.1	37

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38	Fertilization regimes under hot conditions alter photosynthetic response of bean plants. <i>Photosynthetica</i> , 2015, 53, 157-160.	0.9	10
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44	A new indicator in early drought diagnosis of cucumber with chlorophyll fluorescence imaging. , 2015, , .		1
45	Effects of elevated temperature and CO <sub>2</sub> on intertidal microphytobenthos. <i>BMC Ecology</i> , 2015, 15, 10.	3.0	37
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51	Soil irrigation with water and toxic cyanobacterial microcystins accelerates tomato development. <i>Environmental Chemistry Letters</i> , 2015, 13, 447-452.	8.3	19
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56	High blue light improves acclimation and photosynthetic recovery of pepper plants exposed to UV stress. <i>Environmental and Experimental Botany</i> , 2015, 109, 254-263.	2.0	89
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72	Quick assessment of the invasiveness of non-native plant species by using eco-physiological parameters in <i>Trametes</i> , <i>Climacium</i> , <i>National Park</i> , <i>Park</i> , <i>Vietnam</i> . <i>Weed Biology and Management</i> , 2016, 16, 177-185.	0.6	4

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74	PBR1 selectively controls biogenesis of photosynthetic complexes by modulating translation of the large chloroplast gene <i>Ycf1</i> in <i>Arabidopsis</i> . <i>Cell Discovery</i> , 2016, 2, 16003.	3.1	18
75	Chlorophyll a fluorescence, under half of the adaptive growth-irradiance, for high-throughput sensing of leaf-water deficit in <i>Arabidopsis thaliana</i> accessions. <i>Plant Methods</i> , 2016, 12, 46.	1.9	26
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82	Effects of water stress and light intensity on chlorophyll fluorescence parameters and pigments of <i>Aloe vera</i> L.. <i>Plant Physiology and Biochemistry</i> , 2016, 106, 141-148.	2.8	194
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84	<i>PtrA/NINV</i> , an alkaline/neutral invertase gene of <i>Poncirus trifoliata</i> , confers enhanced tolerance to multiple abiotic stresses by modulating ROS levels and maintaining photosynthetic efficiency. <i>BMC Plant Biology</i> , 2016, 16, 76.	1.6	124
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88	Breeding for increased nitrogen&use efficiency: a review for wheat (<i>T</i>. <i>Aeestivum</i> ) Tj ETQq1 1 0.784314 rgBT/Overlook	1.0	164
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90	Detection of activity of single microalgae cells in a new microfluidic cell capturing chip. <i>Measurement Science and Technology</i> , 2016, 27, 125701.	1.4	11

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98	Tissue Culture as a Source of Replicates in Nonmodel Plants: Variation in Cold Response in <i>Arabidopsis lyrata</i> ssp. <i>petraea</i> . <i>G3: Genes, Genomes, Genetics</i> , 2016, 6, 3817-3823.	0.8	0
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110	Early and late adjustments of the photosynthetic traits and stomatal density in <i>Quercus ilex</i> L. grown in an ozone-enriched environment. <i>Plant Biology</i> , 2016, 18, 13-21.	1.8	15
111	The effect of oil sands process-affected water and model naphthenic acids on photosynthesis and growth in <i>Emiliana huxleyi</i> and <i>Chlorella vulgaris</i> . <i>Chemosphere</i> , 2016, 145, 416-423.	4.2	15
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117	Evaluation of genotypic variation during leaf development in four <i>Cucumis</i> genotypes and their response to high light conditions. <i>Environmental and Experimental Botany</i> , 2016, 124, 100-109.	2.0	8
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126	The Effect of Copper and Selenium Nanocarboxylates on Biomass Accumulation and Photosynthetic Energy Transduction Efficiency of the Green Algae <i>Chlorella Vulgaris</i> . <i>Nanoscale Research Letters</i> , 2017, 12, 147.	3.1	35



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128	Photo-protective mechanisms in reed canary grass to alleviate photo-inhibition of PSII on the Qinghai-Tibet Plateau. <i>Journal of Plant Physiology</i> , 2017, 215, 11-19.	1.6	15
129	Machine Learning Techniques for Predicting Crop Photosynthetic Capacity from Leaf Reflectance Spectra. <i>Molecular Plant</i> , 2017, 10, 878-890.	3.9	82
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863	Genotoxic Evaluation of Fe3O4 Nanoparticles in Different Three Barley ( <i>Hordeum vulgare</i> L.) Genotypes to Explore the Stress-Resistant Molecules. <i>Molecules</i> , 2021, 26, 6710.	1.7	11
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924	Leaf temperature and CO <sub>2</sub> . <i>Functional Plant Biology</i> , 2022, 49, 659-671.	1.1	1
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931	Effects of elevated pCO <sub>2</sub> on the photosynthetic performance of the sea ice diatoms <i>Navicula directa</i> and <i>Navicula glaciei</i> . <i>Journal of Applied Phycology</i> , 0, , 1.	1.5	0
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935	Ascorbate glutathione antioxidant system alleviates fly ash stress by modulating growth physiology and biochemical responses in <i>Solanum lycopersicum</i> . <i>Saudi Journal of Biological Sciences</i> , 2022, 29, 1322-1336.	1.8	8
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1039	Monitoring Cell Death Via Ion Leakage and PAM Fluorometry. <i>Methods in Molecular Biology</i> , 2022, 2447, 175-183.	0.4	4
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1042	Photosynthetic acclimation of riparian plant <i>Distylium chinense</i> to heterogeneous habitats. <i>South African Journal of Botany</i> , 2022, 148, 672-682.	1.2	4
1044	Photosynthetic Properties and Structure of Leaves of Licorice Seedlings in Response to Drought Stress. <i>Journal of Biobased Materials and Bioenergy</i> , 2022, 16, 294-302.	0.1	1
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1056	The influence of powdery mildew on chlorophyll a fluorescence and stomatal characteristics of pedunculate oak ( <i>Quercus robur</i> L.). <i>Topola</i> , 2022, , 31-46.	0.5	0

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1058	Performance of chlorophyll a fluorescence parameters in <i>Lemna minor</i> under heavy metal stress induced by various concentration of copper. <i>Scientific Reports</i> , 2022, 12, .	1.6	13
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1061	Colorimetric and Chlorophyll Fluorescence Assays for Fast Detection and Selection of Transgenic Events of Cotton, Cowpea, Soybean and Common Bean Expressing the <i>Atahas</i> Gene. <i>Plant Breeding and Biotechnology</i> , 2022, 10, 94-101.	0.3	1
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1065	Harnessing the Role of Foliar Applied Salicylic Acid in Decreasing Chlorophyll Content to Reassess Photosystem II Photoprotection in Crop Plants. <i>International Journal of Molecular Sciences</i> , 2022, 23, 7038.	1.8	25
1066	Dualistic effects of bisphenol A on growth, photosynthetic and oxidative stress of duckweed ( <i>Lemna</i> ) Tj ETQq0 0 0 rgBT /Overlock 10 Tf	2.7	10
1067	Characterisation of Selected Mungbean Genotypes for Tolerance to Waterlogging Stress at Pod Filling Stage. <i>Agronomy</i> , 2022, 12, 1663.	1.3	4
1068	Patterns of phenotypic plasticity along a thermal gradient differ by trait type in an alpine plant. <i>Functional Ecology</i> , 2022, 36, 2412-2428.	1.7	11
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1072	Evaluating the role of solar-induced fluorescence (SIF) and plant physiological traits for leaf nitrogen assessment in almond using airborne hyperspectral imagery. <i>Remote Sensing of Environment</i> , 2022, 279, 113141.	4.6	13
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1074	Micro-Raman spectroscopy of the light-harvesting pigments in <i>Chlamydomonas reinhardtii</i> under salinity stress. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2022, 281, 121613.	2.0	2
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1077	Light quality as a driver of photosynthetic apparatus development. <i>Biophysical Reviews</i> , 2022, 14, 779-803.	1.5	10
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1079	Salt-tolerant endophytic bacterium <i>Enterobacter ludwigii</i> B30 enhance bermudagrass growth under salt stress by modulating plant physiology and changing rhizosphere and root bacterial community. <i>Frontiers in Plant Science</i> , 0, 13, .	1.7	13
1080	Supra-optimal temperatures induce photochemical leaf damage and reduce photosynthetic $\text{O}_2$ evolution in <i>Carica papaya</i> L.. <i>Environmental and Experimental Botany</i> , 2022, 203, 105051.	2.0	1
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1082	Responses of Four Peatland Emergent Macrophytes to Salinity and Short Salinity Pulses. <i>Wetlands</i> , 2022, 42, .	0.7	3
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1084	Measuring Photonics in Photosynthesis: Combined Micro-Fourier Image Spectroscopy and Pulse Amplitude Modulated Chlorophyll Fluorimetry at the Micrometre-Scale. <i>Biomimetics</i> , 2022, 7, 107.	1.5	1
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1086	Effects of light quality on growth, photosynthetic characteristics, and endogenous hormones in in vitro-cultured <i>Lilium</i> plantlets. <i>Horticulture Environment and Biotechnology</i> , 2023, 64, 65-81.	0.7	6
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1093	Cowpea: A low-cost quality protein source for food safety in marginal areas for agriculture. <i>Saudi Journal of Biological Sciences</i> , 2022, 29, 103431.	1.8	1

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1105	Different survival strategies involve carbon translocation rather than de novo C assimilation under complete submergence in rice plant. <i>Photosynthesis Research</i> , 0, , .	1.6	0
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