# Hazem M Kalaji

## List of Publications by Citations



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|---|---|---|---|
| 162 papers | 6,232 citations | 37 h-index | 76 g-index |
| 192 ext. papers | 8,215 ext. citations | 3.9 avg, IF | 6.13 L-index |

| # | Paper | IF | Citations |
|---|---|---|---|
| 162 | Chlorophyll a fluorescence as a tool to monitor physiological status of plants under abiotic stress conditions. *Acta Physiologiae Plantarum*, **2016**, 38, 1 | 2.6 | 544 |
| 161 | Frequently asked questions about in vivo chlorophyll fluorescence: practical issues. *Photosynthesis Research*, **2014**, 122, 121-58 | 3.7 | 435 |
| 160 | Impact of Metal and Metal Oxide Nanoparticles on Plant: A Critical Review. *Frontiers in Chemistry*, **2017**, 5, 78 | 5 | 332 |
| 159 | Effects of salt stress on photosystem II efficiency and CO2 assimilation of two Syrian barley landraces. *Environmental and Experimental Botany*, **2011**, 73, 64-72 | 5.9 | 287 |
| 158 | Frequently asked questions about chlorophyll fluorescence, the sequel. *Photosynthesis Research*, **2017**, 132, 13-66 | 3.7 | 268 |
| 157 | Identification of nutrient deficiency in maize and tomato plants by in vivo chlorophyll a fluorescence measurements. *Plant Physiology and Biochemistry*, **2014**, 81, 16-25 | 5.4 | 246 |
| 156 | Photosynthetic electron transport and specific photoprotective responses in wheat leaves under drought stress. *Photosynthesis Research*, **2013**, 117, 529-46 | 3.7 | 205 |
| 155 | Photosynthetic responses of sun- and shade-grown barley leaves to high light: is the lower PSII connectivity in shade leaves associated with protection against excess of light?. *Photosynthesis Research*, **2014**, 119, 339-54 | 3.7 | 166 |
| 154 | Nano-CuO stress induced modulation of antioxidative defense and photosynthetic performance of Syrian barley (Hordeum vulgare L.). *Environmental and Experimental Botany*, **2014**, 102, 37-47 | 5.9 | 166 |
| 153 | Photosystem II thermostability in situ: environmentally induced acclimation and genotype-specific reactions in Triticum aestivum L. *Plant Physiology and Biochemistry*, **2012**, 57, 93-105 | 5.4 | 152 |
| 152 | Fluorescence parameters as early indicators of light stress in barley. *Journal of Photochemistry and Photobiology B: Biology*, **2012**, 112, 1-6 | 6.7 | 151 |
| 151 | Variable chlorophyll fluorescence and its use for assessing physiological condition of plant photosynthetic apparatus. *Russian Journal of Plant Physiology*, **2016**, 63, 869-893 | 1.6 | 142 |
| 150 | Low PSI content limits the photoprotection of PSI and PSII in early growth stages of chlorophyll b-deficient wheat mutant lines. *Photosynthesis Research*, **2015**, 125, 151-66 | 3.7 | 139 |
| 149 | Correlation between reactive oxygen species production and photochemistry of photosystems I and II in Lemna gibba L. plants under salt stress. *Environmental and Experimental Botany*, **2015**, 109, 80-88 | 5.9 | 134 |
| 148 | Prompt chlorophyll fluorescence as a tool for crop phenotyping: an example of barley landraces exposed to various abiotic stress factors. *Photosynthetica*, **2018**, 56, 953-961 | 2.2 | 119 |
| 147 | Drought-induced modifications of photosynthetic electron transport in intact leaves: analysis and use of neural networks as a tool for a rapid non-invasive estimation. *Biochimica Et Biophysica Acta - Bioenergetics*, **2012**, 1817, 1490-8 | 4.6 | 118 |
| 146 | Photosynthetic proton and electron transport in wheat leaves under prolonged moderate drought stress. *Journal of Photochemistry and Photobiology B: Biology*, **2014**, 137, 107-15 | 6.7 | 107 |

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| 145 | Experimental in vivo measurements of light emission in plants: a perspective dedicated to David Walker. *Photosynthesis Research*, **2012**, 114, 69-96 | 3.7 | 107 |
| 144 | Melatonin and calcium function synergistically to promote the resilience through ROS metabolism under arsenic-induced stress. *Journal of Hazardous Materials*, **2020**, 398, 122882 | 12.8 | 98 |
| 143 | Prompt chlorophyll a fluorescence as a rapid tool for diagnostic changes in PSII structure inhibited by salt stress in Perennial ryegrass. *Journal of Photochemistry and Photobiology B: Biology*, **2016**, 157, 22-31 | 6.7 | 89 |
| 142 | Can chlorophyll-a fluorescence parameters be used as bio-indicators to distinguish between drought and salinity stress in Tilia cordata Mill?. *Environmental and Experimental Botany*, **2018**, 152, 149-157 | 5.9 | 87 |
| 141 | Chlorophyll fluorescence as a tool for nutrient status identification in rapeseed plants. *Photosynthesis Research*, **2018**, 136, 329-343 | 3.7 | 86 |
| 140 | Investigation of deleterious effects of chromium phytotoxicity and photosynthesis in wheat plant. *Photosynthetica*, **2016**, 54, 185-192 | 2.2 | 81 |
| 139 | Regulation and physiological role of silicon in alleviating drought stress of mango. *Plant Physiology and Biochemistry*, **2017**, 118, 31-44 | 5.4 | 80 |
| 138 | Phytotoxic effect of silver nanoparticles in Triticum aestivum: Improper regulation of photosystem I activity as the reason for oxidative damage in the chloroplast. *Photosynthetica*, **2019**, 57, 209-216 | 2.2 | 67 |
| 137 | Chlorophyll a fluorescence--A useful tool for the early detection of temperature stress in spring barley (Hordeum vulgare L.). *OMICS A Journal of Integrative Biology*, **2011**, 15, 925-34 | 3.8 | 65 |
| 136 | Physiological and biochemical characterisation of watered and drought-stressed barley mutants in the HvDWARF gene encoding C6-oxidase involved in brassinosteroid biosynthesis. *Plant Physiology and Biochemistry*, **2016**, 99, 126-41 | 5.4 | 61 |
| 135 | Effectiveness of cyanobacteria and green algae in enhancing the photosynthetic performance and growth of willow (Salix viminalis L.) plants under limited synthetic fertilizers application. *Photosynthetica*, **2017**, 55, 510-521 | 2.2 | 59 |
| 134 | Photosystem II of barley seedlings under cadmium and lead stress. *Plant, Soil and Environment*, **2008**, 53, 511-516 | 2.2 | 59 |
| 133 | A comparison between different chlorophyll content meters under nutrient deficiency conditions. *Journal of Plant Nutrition*, **2017**, 40, 1024-1034 | 2.3 | 53 |
| 132 | Exploration of Chlorophyll Fluorescence and Plant Gas Exchange Parameters as Indicators of Drought Tolerance in Perennial Ryegrass. *Sensors*, **2019**, 19, | 3.8 | 51 |
| 131 | Reduced glutamine synthetase activity plays a role in control of photosynthetic responses to high light in barley leaves. *Plant Physiology and Biochemistry*, **2014**, 81, 74-83 | 5.4 | 51 |
| 130 | Altitude of origin influences the responses of PSII photochemistry to heat waves in European beech (Fagus sylvatica L.). *Environmental and Experimental Botany*, **2018**, 152, 97-106 | 5.9 | 48 |
| 129 | Photosynthetic Efficiency as Bioindicator of Environmental Pressure in. *Plant Physiology*, **2017**, 175, 290-302 | 3.8 | 39 |
| 128 | Delayed chlorophyll a fluorescence, MR 820, and gas exchange changes in perennial ryegrass under salt stress. *Journal of Luminescence*, **2017**, 183, 322-333 | 3.8 | 38 |

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| 127 | Relationships between soil parameters and physiological status of Miscanthus x giganteus cultivated on soil contaminated with trace elements under NPK fertilisation vs. microbial inoculation. *Environmental Pollution*, **2017**, 225, 163-174 | 9.3 | 37 |
| 126 | Measurements of chlorophyll fluorescence in different leaf positions may detect nitrogen deficiency in wheat. *Zemdirbyste*, **2014**, 101, 437-444 | 1.1 | 37 |
| 125 | Exogenous application of nitric oxide and spermidine reduces the negative effects of salt stress on tomato. *Horticulture Environment and Biotechnology*, **2017**, 58, 537-547 | 2 | 36 |
| 124 | SChlorophyll a fluorescence of perennial ryegrass (Lolium perenne L.) varieties under long term exposure to shade. *Zemdirbyste*, **2015**, 102, 305-312 | 1.1 | 35 |
| 123 | Is the OJIP Test a Reliable Indicator of Winter Hardiness and Freezing Tolerance of Common Wheat and Triticale under Variable Winter Environments?. *PLoS ONE*, **2015**, 10, e0134820 | 3.7 | 33 |
| 122 | Chlorophyll Fluorescence, Understanding Crop Performance **2017**, | | 31 |
| 121 | Effects of humic acid on photosynthetic efficiency of rapeseed plants growing under different watering conditions. *Photosynthetica*, **2018**, 56, 962-970 | 2.2 | 29 |
| 120 | Inhibitory effects of silver nanoparticles on photosystem II performance in Lemna gibba probed by chlorophyll fluorescence. *Current Plant Biology*, **2018**, 16, 15-21 | 3.3 | 29 |
| 119 | Hormesis in Plants: The Role of Oxidative Stress, Auxins and Photosynthesis in Corn Treated with Cd or Pb. *International Journal of Molecular Sciences*, **2020**, 21, | 6.3 | 28 |
| 118 | Effects of nitrogen-deficiency on efficiency of light-harvesting apparatus in radish. *Plant Physiology and Biochemistry*, **2017**, 119, 81-92 | 5.4 | 27 |
| 117 | Development of insect resistant maize plants expressing a chitinase gene from the cotton leaf worm, Spodoptera littoralis. *Scientific Reports*, **2015**, 5, 18067 | 4.9 | 27 |
| 116 | Genome-Wide Associations of Chlorophyll Fluorescence OJIP Transient Parameters Connected With Soil Drought Response in Barley. *Frontiers in Plant Science*, **2019**, 10, 78 | 6.2 | 26 |
| 115 | Ability of various tree species to acclimation in urban environments probed with the JIP-test. *Urban Forestry and Urban Greening*, **2015**, 14, 544-553 | 5.4 | 26 |
| 114 | Special issue in honour of Prof. Reto J. Strasser□□JIP-test as a tool to identify salinity tolerance in sweet sorghum genotypes. *Photosynthetica*, **2020**, 58, 518-528 | 2.2 | 26 |
| 113 | Divergent strategies displayed by potato (Solanum tuberosum L.) cultivars to cope with soil drought. *Journal of Agronomy and Crop Science*, **2018**, 204, 13-30 | 3.9 | 25 |
| 112 | Effect of biofertilizers and putrescine amine on the physiological features and productivity of date palm (Phoenix dactylifera, L.) grown on reclaimed-salinized soil. *Trees - Structure and Function*, **2016** , 30, 1149-1161 | 2.6 | 24 |
| 111 | Structural and functional disorder in the photosynthetic apparatus of radish plants under magnesium deficiency. *Functional Plant Biology*, **2018**, 45, 668-679 | 2.7 | 22 |
| 110 | Impact of warming and reduced precipitation on photosynthetic and remote sensing properties of peatland vegetation. *Environmental and Experimental Botany*, **2019**, 160, 71-80 | 5.9 | 21 |

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| 109 | The Use of Chlorophyll Fluorescence Kinetics Analysis to Study the Performance of Photosynthetic Machinery in Plants **2014**, 347-384 | | 20 |
| 108 | Low temperature and hardening effects on photosynthetic apparatus efficiency and survival of forage grass varieties. *Plant, Soil and Environment*, **2014**, 60, 177-183 | 2.2 | 20 |
| 107 | Physiological and molecular mechanisms of salinity tolerance in grafted cucumber. *South African Journal of Botany*, **2020**, 130, 90-102 | 2.9 | 20 |
| 106 | Comparative effect of tenuazonic acid, diuron, bentazone, dibromothymoquinone and methyl viologen on the kinetics of Chl a fluorescence rise OJIP and the MR signal. *Plant Physiology and Biochemistry*, **2020**, 156, 39-48 | 5.4 | 20 |
| 105 | Cultivation of C4 perennial energy grasses on heavy metal contaminated arable land: Impact on soil, biomass, and photosynthetic traits. *Environmental Pollution*, **2019**, 250, 300-311 | 9.3 | 19 |
| 104 | Gas-exchange parameters and morphological features of festulolium (Festulolium braunii K. Richert A. Camus) in response to nitrogen dosage. *Photosynthetica*, **2017**, 55, 20-30 | 2.2 | 19 |
| 103 | Culture density influence on the photosynthetic efficiency of microalgae growing under different spectral compositions of light. *Journal of Photochemistry and Photobiology B: Biology*, **2017**, 167, 290-298 | 6.7 | 18 |
| 102 | Impact of treated wastewater and salicylic acid on physiological performance, malformation and yield of two mango cultivars. *Scientia Horticulturae*, **2018**, 233, 159-177 | 4.1 | 18 |
| 101 | Overlapping toxic effect of long term thallium exposure on white mustard (Sinapis alba L.) photosynthetic activity. *BMC Plant Biology*, **2016**, 16, 191 | 5.3 | 16 |
| 100 | How glycine betaine induces tolerance of cucumber plants to salinity stress?. *Photosynthetica*, **2019**, 57, 753-761 | 2.2 | 16 |
| 99 | How autochthonous microorganisms influence physiological status of Zea mays L. cultivated on heavy metal contaminated soils?. *Environmental Science and Pollution Research*, **2019**, 26, 4746-4763 | 5.1 | 16 |
| 98 | Impact of Fusarium verticillioides on chlorophyll fluorescence parameters of two maize lines. *European Journal of Plant Pathology*, **2019**, 154, 337-346 | 2.1 | 15 |
| 97 | Experimental Investigation of Chlorella vulgaris and Enterobacter sp. MN17 for Decolorization and Removal of Heavy Metals from Textile Wastewater. *Water (Switzerland)*, **2020**, 12, 3034 | 3 | 15 |
| 96 | Photosynthetic apparatus performance of tomato seedlings grown under various combinations of LED illumination. *PLoS ONE*, **2021**, 16, e0249373 | 3.7 | 15 |
| 95 | Influence of short-term macronutrient deprivation in maize on photosynthetic characteristics, transpiration and pigment content. *Scientific Reports*, **2019**, 9, 14181 | 4.9 | 14 |
| 94 | Acclimatization of Photosynthetic Apparatus of Tor Grass (Brachypodium pinnatum) during Expansion. *PLoS ONE*, **2016**, 11, e0156201 | 3.7 | 14 |
| 93 | Foliar application of zinc oxide nanoparticles: An effective strategy to mitigate drought stress in cucumber seedling by modulating antioxidant defense system and osmolytes accumulation. *Chemosphere*, **2021**, 289, 133202 | 8.4 | 14 |
| 92 | Early Identification of Herbicide Modes of Action by the Use of Chlorophyll Fluorescence Measurements. *Plants*, **2020**, 9, | 4.5 | 13 |

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| 91 | Can just one-second measurement of chlorophyll a fluorescence be used to predict sulphur deficiency in radish (Raphanus sativus L. sativus) plants?. *Current Plant Biology*, **2019**, 19, 100096 | 3.3 | 13 |
| 90 | Genetic and Physiological Dissection of Photosynthesis in Barley Exposed to Drought Stress. *International Journal of Molecular Sciences*, **2019**, 20, | 6.3 | 13 |
| 89 | Analysis of the gas exchange components in chilled tomato plants. *Photosynthetica*, **1997**, 34, 583-589 | 2.2 | 12 |
| 88 | Differential responses in the photosynthetic efficiency of Oryza sativa and Zea mays on exposure to Cd and Zn toxicity. *Acta Physiologiae Plantarum*, **2021**, 43, 1 | 2.6 | 12 |
| 87 | Long-term mineral fertilization impact on chemical and microbiological properties of soil and Miscanthus × giganteus yield. *Plant, Soil and Environment*, **2014**, 60, 117-122 | 2.2 | 11 |
| 86 | Dehydroascorbate reductase and glutathione reductase play an important role in scavenging hydrogen peroxide during natural and artificial dehydration of Jatropha curcas seeds **2012**, 55, 469-480 | | 11 |
| 85 | Salt stress affects mineral nutrition in shoots and roots and chlorophyll a fluorescence of tomato plants grown in hydroponic culture. *Journal of Plant Interactions*, **2020**, 15, 398-405 | 3.8 | 11 |
| 84 | Blue Light Improves Photosynthetic Performance and Biomass Partitioning toward Harvestable Organs in Saffron ( L.). *Cells*, **2021**, 10, | 7.9 | 11 |
| 83 | Molybdenum and hydrogen sulfide synergistically mitigate arsenic toxicity by modulating defense system, nitrogen and cysteine assimilation in faba bean (Vicia faba L.) seedlings. *Environmental Pollution*, **2021**, 290, 117953 | 9.3 | 11 |
| 82 | Heat Signaling and Stress Responses in Photosynthesis **2014**, 241-256 | | 10 |
| 81 | Risk Assessment of Urban Lake Water Quality Based on in-situ Cyanobacterial and Total Chlorophyll-a Monitoring. *Polish Journal of Environmental Studies*, **2016**, 25, 655-661 | 2.3 | 10 |
| 80 | Discovering trends in photosynthesis using modern analytical tools:More than 100 reasons to use chlorophyll fluorescence. *Photosynthetica*, **2019**, 57, 668-679 | 2.2 | 10 |
| 79 | RNAseq Analysis Reveals Altered Expression of Key Ion Transporters Causing Differential Uptake of Selective Ions in Canola ( L.) Grown under NaCl Stress. *Plants*, **2020**, 9, | 4.5 | 10 |
| 78 | Molecular Mechanisms of Nitric Oxide (NO) Signaling and Reactive Oxygen Species (ROS) Homeostasis during Abiotic Stresses in Plants. *International Journal of Molecular Sciences*, **2021**, 22, | 6.3 | 10 |
| 77 | The effect of zearalenone on PSII photochemical activity and growth in wheat and soybean under salt (NaCl) stress. *Acta Physiologiae Plantarum*, **2011**, 33, 2329-2338 | 2.6 | 9 |
| 76 | Special issue in honour of Prof. Reto J. Strasser - Environmental pollution is reflected in the activity of the photosynthetic apparatus. *Photosynthetica*, **2020**, 58, 529-539 | 2.2 | 9 |
| 75 | Special issue in honour of Prof. Reto J. Strasser□□Phosphorus deficiency affects the I-step of chlorophyll a fluorescence induction curve of radish. *Photosynthetica*, **2020**, 58, 671-681 | 2.2 | 9 |
| 74 | Linking changes in chlorophyll a fluorescence with drought stress susceptibility in mung bean [Vigna radiata (L.) Wilczek]. *Physiologia Plantarum*, **2021**, 172, 1244-1254 | 4.6 | 9 |

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| 73 | Survival of European Ash Seedlings Treated with Phosphite after Infection with the Hymenoscyphus fraxineus and Phytophthora Species. *Forests*, **2018**, 9, 442 | 2.8 | 9 |
| 72 | Blue Light Improves Photosynthetic Performance during Healing and Acclimatization of Grafted Watermelon Seedlings. *International Journal of Molecular Sciences*, **2021**, 22, | 6.3 | 9 |
| 71 | The effect of light availability on leaf area index, biomass production and plant species composition of park grasslands in Warsaw  . *Plant, Soil and Environment*, **2013**, 59, 543-548 | 2.2 | 8 |
| 70 | Can the Giberella zeae toxin zearalenone affect the photosynthetic productivity and increase yield formation in spring wheat and soybean plants?. *Photosynthetica*, **2009**, 47, 586-594 | 2.2 | 8 |
| 69 | Photosynthetic efficiency of Microcystis ssp. under salt stress. *Environmental and Experimental Botany*, **2021**, 186, 104459 | 5.9 | 8 |
| 68 | The relationship between the soil water storage and water-use efficiency of seven energy crops. *Photosynthetica*, **2017**, 55, 210-218 | 2.2 | 7 |
| 67 | Impact of intraspecific competition on photosynthetic apparatus efficiency in potato (Solanum tuberosum) plants. *Photosynthetica*, **2018**, 56, 971-975 | 2.2 | 7 |
| 66 | Inexpensive and universal growth media for biomass production of microalgae. *Global Nest Journal*, **2019**, 21, 82-89 | 1.4 | 7 |
| 65 | Photosynthetic performance of rocket (Eruca sativa. Mill.) grown under different regimes of light intensity, quality, and photoperiod. *PLoS ONE*, **2021**, 16, e0257745 | 3.7 | 7 |
| 64 | Synthesis and use of a catalyst in the production of biodiesel from Pongamia pinnata seed oil with dimethyl carbonate. *International Journal of Green Energy*, **2017**, 14, 624-631 | 3 | 6 |
| 63 | Relationship between chlorophyll □orescence parameters and quality of the fresh and stored lettuce ( Lactuca sativa L.). *Scientia Horticulturae*, **2018**, 235, 70-77 | 4.1 | 6 |
| 62 | Application of a diffusion model to measure ion leakage of resurrection plant leaves undergoing desiccation. *Plant Physiology and Biochemistry*, **2018**, 125, 185-192 | 5.4 | 6 |
| 61 | Evaluating the effect of rootstocks and potassium level on photosynthetic productivity and yield of pear trees. *Russian Journal of Plant Physiology*, **2014**, 61, 231-237 | 1.6 | 6 |
| 60 | Photosynthetic efficiency and survival of Dactylis glomerata and Lolium perenne following low temperature stress. *Russian Journal of Plant Physiology*, **2014**, 61, 281-288 | 1.6 | 6 |
| 59 | Identification and differential expression of two dehydrin cDNAs during maturation of Jatropha curcas seeds. *Biochemistry (Moscow)*, **2013**, 78, 485-95 | 2.9 | 6 |
| 58 | Special issue in honour of Prof. Reto J. Strasser□□Photosynthetic efficiency of two Platanus orientalis L. ecotypes exposed to moderately high temperature - JIP-test analysis. *Photosynthetica*, **2020**, 58, 657-670 | 2.2 | 6 |
| 57 | Light quality and quantity affect graft union formation of tomato plants. *Scientific Reports*, **2021**, 11, 9870 | 4.9 | 6 |
| 56 | Effects of light spectrum on morpho-physiological traits of grafted tomato seedlings. *PLoS ONE*, **2021**, 16, e0250210 | 3.7 | 6 |

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| 55 | Functional Characterization of the Photosynthetic Machinery in Galls on the Parasitic Plant by JIP-Test. *Cells*, **2021**, 10, | 7.9 | 6 |
| 54 | Effective microorganisms impact on photosynthetic activity of Arabidopsis plant grown under salinity stress conditions. *Annals of Warsaw University of Life Sciences, Land Reclamation*, **2016**, 48, 153-163 | | 6 |
| 53 | Can pyraclostrobin and epoxiconazole protect conventional and stay-green maize varieties grown under drought stress?. *PLoS ONE*, **2019**, 14, e0221116 | 3.7 | 5 |
| 52 | Characterization under quasi-native conditions of the capsanthin/capsorubin synthase from Capsicum annuum L. *Plant Physiology and Biochemistry*, **2019**, 143, 165-175 | 5.4 | 5 |
| 51 | Degradation and Colonization of Cellulose by Diazotrophic Strains of Paenibacillus polymyxa Isolated from Soil. *Journal of Bioremediation & Biodegradation*, **2015**, 06, | 0.5 | 5 |
| 50 | Special issue in honour of Prof. Reto J. Strasser□□JIP-test as a tool for early detection of the macronutrients deficiency in Miscanthus plants. *Photosynthetica*, **2020**, 58, 507-517 | 2.2 | 5 |
| 49 | Special issue in honour of Prof. Reto J. Strasser□□Probing the photosynthetic efficiency of some European and Anatolian Scots pine populations under UV-B radiation using polyphasic chlorophyll a fluorescence transient. *Photosynthetica*, **2020**, 58, 468-478 | 2.2 | 5 |
| 48 | Molybdenum-induced endogenous nitric oxide (NO) signaling coordinately enhances resilience through chlorophyll metabolism, osmolyte accumulation and antioxidant system in arsenate stressed-wheat (Triticum aestivum L.) seedlings. *Environmental Pollution*, **2022**, 292, 118268 | 9.3 | 5 |
| 47 | Exogenous Potassium (K) Positively Regulates Na/H Antiport System, Carbohydrate Metabolism, and Ascorbate-Glutathione Cycle in HS-Dependent Manner in NaCl-Stressed Tomato Seedling Roots. *Plants*, **2021**, 10, | 4.5 | 5 |
| 46 | Synergistic Effects of Melatonin and Gamma-Aminobutyric Acid on Protection of Photosynthesis System in Response to Multiple Abiotic Stressors. *Cells*, **2021**, 10, | 7.9 | 5 |
| 45 | How Kentucky bluegrass tolerate stress caused by sodium chloride used for road de-icing?. *Environmental Science and Pollution Research*, **2019**, 26, 913-922 | 5.1 | 5 |
| 44 | Effect of various abiotic stressors on some biochemical indices of Lepidium sativum plants. *Scientific Reports*, **2020**, 10, 21131 | 4.9 | 4 |
| 43 | Seed priming of plants aiding in drought stress tolerance and faster recovery: a review. *Plant Growth Regulation*,1 | 3.2 | 4 |
| 42 | Special issue in honour of Prof. Reto J. Strasser -□Development and aging of photosynthetic apparatus of Vitis vinifera L. during growing season. *Photosynthetica*, **2020**, 58, 186-193 | 2.2 | 4 |
| 41 | Special issue in honour of Prof. Reto J. Strasser□□Improving tolerance in seedlings of some Polish varieties of Dactylis glomerata to water deficit by application of simulated drought during seed germination. *Photosynthetica*, **2020**, 58, 540-548 | 2.2 | 4 |
| 40 | Impact of gamma irradiation pretreatment on biochemical and molecular responses of potato growing under salt stress. *Chemical and Biological Technologies in Agriculture*, **2021**, 8, | 4.4 | 4 |
| 39 | Impact of heavy pruning on development and photosynthesis of Tilia cordata Mill. trees. *PLoS ONE*, **2021**, 16, e0256465 | 3.7 | 4 |
| 38 | 5-Aminolevulinic Acid and 24-Epibrassinolide Improve the Drought Stress Resilience and Productivity of Banana Plants.. *Plants*, **2022**, 11, | 4.5 | 4 |

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| 37 | Biophysical Phenotyping as an Essential Tool for Understanding Host Microbe Interaction **2017**, 65-80 | | 3 |
| 36 | Photosynthetic response in wheat plants caused by the phototoxicity of fluoranthene. *Functional Plant Biology*, **2019**, 46, 725-731 | 2.7 | 3 |
| 35 | The application of potato starch effluent causes a reduction in the photosynthetic efficiency and growth of Scots pine (Pinus sylvestris L.). *Trees - Structure and Function*, **2015**, 29, 1471-1481 | 2.6 | 3 |
| 34 | Efficiency of the photosynthetic apparatus in Cannabis sativa L. fertilized with sludge froma wastewater treatment plant and with phosphogypsum. *Ecological Questions*,28, 55 | 1.4 | 3 |
| 33 | Improvement of Growth, Yield, Seed Production and Phytochemical Properties of Jamzad by Foliar Application of Boron and Zinc. *Plants*, **2021**, 10, | 4.5 | 3 |
| 32 | Special issue in honour of Prof. Reto J. Strasser - Structural and functional response of photosynthetic apparatus of radish plants to iron deficiency. *Photosynthetica*, **2020**, 58, 205-213 | 2.2 | 3 |
| 31 | Action Mode of the Mycotoxin Patulin as a Novel Natural Photosystem II Inhibitor. *Journal of Agricultural and Food Chemistry*, **2021**, 69, 7313-7323 | 5.7 | 3 |
| 30 | Effects of on Photosynthetic Characteristics and Fruit Quality of Tomato Plants. *International Journal of Molecular Sciences*, **2021**, 22, | 6.3 | 3 |
| 29 | Response of growth, quality parameters and photosynthetic apparatus of endive plant to different culture media. *Folia Horticulturae*, **2016**, 28, 25-30 | 2 | 3 |
| 28 | Photosynthetic Efficiency and Anatomical Structure of Pepper Leaf ( L.) Transplants Grown under High-Pressure Sodium (HPS) and Light-Emitting Diode (LED) Supplementary Lighting Systems. *Plants*, **2021**, 10, | 4.5 | 3 |
| 27 | Exogenously applied nitrogenous fertilizers and effective microorganisms improve plant growth of stevia (Stevia rebaudiana Bertoni) and soil fertility. *AMB Express*, **2021**, 11, 133 | 4.1 | 3 |
| 26 | Increasing the performance of cucumber (Cucumis sativus L.) seedlings by LED illumination.. *Scientific Reports*, **2022**, 12, 852 | 4.9 | 2 |
| 25 | EFFECTS OF ABIOTIC FACTORS ON INTERNAL HOMEOSTASIS OF MENTHA SPICATA LEAVES. *Applied Ecology and Environmental Research*, **2018**, 16, 2537-2564 | 1.9 | 2 |
| 24 | Metabolic alterations elicited by Cd and Zn toxicity in Zea mays with the association of Claroideoglomus claroideum. *Ecotoxicology*, **2021**, 31, 92 | 2.9 | 2 |
| 23 | Tenuazonic Acid-Triggered Cell Death Is the Essential Prerequisite for (Fr.) Keissler to Infect Successfully Host. *Cells*, **2021**, 10, | 7.9 | 2 |
| 22 | Is Photoprotection of PSII One of the Key Mechanisms for Drought Tolerance in Maize?. *International Journal of Molecular Sciences*, **2021**, 22, | 6.3 | 2 |
| 21 | Modulations in Chlorophyll a Fluorescence Based on Intensity and Spectral Variations of Light. *International Journal of Molecular Sciences*, **2022**, 23, 5599 | 6.3 | 2 |
| 20 | Canopy Architecture and Yielding of Different Tomato Morphotypes Under Glasshouse Conditions. *Vegetable Crops Research Bulletin*, **2009**, 70, 49-58 | | 1 |

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| 19 | Modelling the growth, development and yield of Triticum durum Desf under the changes of climatic conditions in north-eastern Europe. *Scientific Reports*, **2021**, 11, 21753 | 4.9 | 1 |
| 18 | Potassium and melatonin-mediated regulation of fructose-1,6-bisphosphatase (FBPase) and sedoheptulose-1,7- bisphosphatase (SBPase) activity improve photosynthetic efficiency, carbon assimilation and modulate glyoxalase system accompanying tolerance to cadmium stress in tomato seedlings.. *Plant Physiology and Biochemistry*, **2021**, 171, 49-65 | 5.4 | 1 |
| 17 | Taxonomic classification of algae by the use of chlorophyll a fluorescence. *Scientific Review Engineering and Environmental Sciences*, **2017**, 26, 470-480 | 0.4 | 1 |
| 16 | Seed priming with proline improved photosystem II efficiency and growth of wheat (Triticum aestivum L.). *BMC Plant Biology*, **2021**, 21, 502 | 5.3 | 1 |
| 15 | Effects of Salt Stress on Photosystem II Efficiency and CO2 Assimilation in Two Syrian Barley Landraces. *Advanced Topics in Science and Technology in China*, **2013**, 768-772 | 0.2 | 1 |
| 14 | Salicylic acid and silicon impart resilience to lanthanum toxicity in Brassica juncea L. seedlings. *Plant Growth Regulation*,1 | 3.2 | 0 |
| 13 | Special issue in honour of Prof. Reto J. Strasser□□Can we predict winter survival in plants using chlorophyll a fluorescence?. *Photosynthetica*, **2020**, 58, 433-442 | 2.2 | 0 |
| 12 | The influence of phosphite treatments on oak leaves and damage caused by powdery mildew Erysiphe alphitoides. *Folia Forestalia Polonica, Series A*, **2017**, 59, 239-245 | 0.7 | 0 |
| 11 | Potassium deficiency impact on the photosynthetic apparatus efficiency of radish. *Photosynthetica*, **2021**, 59, 127-136 | 2.2 | 0 |
| 10 | Tolerance and decolorization potential of duckweed (Lemna gibba) to C.I. Basic Green 4. *Scientific Reports*, **2021**, 11, 10889 | 4.9 | 0 |
| 9 | Manipulation of light spectrum can improve the performance of photosynthetic apparatus of strawberry plants growing under salt and alkalinity stress.. *PLoS ONE*, **2021**, 16, e0261585 | 3.7 | 0 |
| 8 | The role of potassium on drought resistance of winter wheat cultivars under cold dryland conditions: Probed by chlorophyll a fluorescence.. *Plant Physiology and Biochemistry*, **2022**, 182, 45-54 | 5.4 | 0 |
| 7 | Natural 2-Amino-3-Methylhexanoic Acid as Plant Elicitor Inducing Resistance against Temperature Stress and Pathogen Attack. *International Journal of Molecular Sciences*, **2022**, 23, 5715 | 6.3 | 0 |
| 6 | Toxic and repellent impacts of botanical oils against Callosobruchus maculatus (Bruchidae: Coleoptera) in stored cowpea [Vigna unguiculata (L.) Walp.]. *PLoS ONE*, **2022**, 17, e0267987 | 3.7 | 0 |
| 5 | Evaluation the vigour of urban green lawn grown under long-term shade conditions by the use of chlorophyll fluorescence technique. *Annals of Warsaw University of Life Sciences, Land Reclamation*, **2015**, 47, 203-210 | | |
| 4 | Microbial properties of soil fertilized by sewage sludge and cultivated with energy crops. *Studia Ecologiae Et Bioethicae*, **2016**, 14, 131-142 | 0.1 | |
| 3 | Shedding light on the presymbiontic phase of C. arietinum. *Plant Physiology and Biochemistry*, **2019**, 143, 224-231 | 5.4 | |
| 2 | Studying the Physiological Reactions of C4 Grasses in Order to Select Them for Cultivation on Marginal Lands. *Sustainability*, **2022**, 14, 4512 | 3.6 | |

# List of Publications

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| 1 | Evaluation of Bacterial Perpetuation Assays and Plant Biomolecules Antimicrobial Activity against Cotton Blight Bacterium Xanthomonas citri subsp. malvacearum; An Alternative Source for Food Production and Protection. *Plants*, **2022**, 11, 1278 | 4.5 |