

## FLUORPEN

### LIST OF REFERENCES

**2024**

ADUSE-POKU, M., ROHRER, F., WINTER, B., & EDELMAN, H.G. (2024). Methodology for the quantification of the absorption potential of greenhouse - and pollutant gases by climbing plants used in façade greening; a case study on ivy (*Hedera helix*). *Environ Advances*, 17, 100568.

**DOI:** [10.1016/j.envadv.2024.100568](https://doi.org/10.1016/j.envadv.2024.100568)

ALVES, E.M., SILVA, F.G., AVILA, R.G. ET AL. (2024). Intercropping and environmental seasonality modulate the physiology and growth of *Hancornia speciosa* (Gomes). *CABI Agric Biosci* 5, 31.

**DOI:** [10.1186/s43170-024-00235-0](https://doi.org/10.1186/s43170-024-00235-0)

ANAS, M., KHAN, I.U., ZHANG, Y-F., NAWAZ, M., LUQMAN, M., ET AL (2024). Phyto-Resistance of Sorghum Bicolor L. Against Solidago Canadensis L. Under Varied Invasion Levels and Nitrogen Conditions for Optimizing Micro-Environment Management. *SSRN*, 4725462.

**DOI:** [10.2139/ssrn.4725462](https://doi.org/10.2139/ssrn.4725462)

ARIFUZZAMAN, M., BAGCHI, R., HASAN, M.R., RAHMAN, M.A., RAHMAN, M.M., ET AL. (2024). Arbuscular mycorrhizal fungi induce Zn uptake and antioxidant efficiency in broccoli (*Brassica oleracea* L.) exposed to Zn deficiency. *Plant Stress*, 11, 100415.

**DOI:** [10.1016/j.stress.2024.100415](https://doi.org/10.1016/j.stress.2024.100415)

BAE, H.J., KIM, S.-H., JEONG, Y., PARK, S., OCHAR, K., ET AL. (2024). Optimal Planting Time for Summer Tomatoes (*Lycopersicon esculentum* Mill.) Cropping in Korea: Growth, Yield, and Photosynthetic Efficiency in a Semi-Closed Greenhouse. *Plants* 2024, 13, 2116.

**DOI:** [10.3390/plants13152116](https://doi.org/10.3390/plants13152116)

BALFAGÓN, D., PASCUAL, L.S., SENGUPTA, S., HALLIDAY, K.J., GÓMEZ-CADENAS, A., ET AL. (2024). WRKY48 negatively regulates plant acclimation to a combination of high light and heat stress. *Plant J*, 117, 1642-1655.

**DOI:** [doi: 10.1111/tpj.16658](https://doi.org/10.1111/tpj.16658)

BERRÍOS, D., FINCHEIRA, P., GONZÁLEZ, F., ET AL. (2024). Impact of Sodium Alginate-Encapsulated Iron Nanoparticles and Soil Yeasts on the Photosynthesis Performance of *Lactuca sativa* L. *Plants*, 13, 2042.

**DOI:** [10.3390/plants13152042](https://doi.org/10.3390/plants13152042)

BIAN, X-Y., XUE, Y., JIANG, P-F., ET AL.(2024). Genome-wide identification of key genes responding to salt stress in *Populus alba*. *Research Square*.

**DOI:** [10.21203/rs.3.rs-4395721/v1](https://doi.org/10.21203/rs.3.rs-4395721/v1)

BOTYANSZKÁ, L., VITKOVÁ, J., BOTKOVÁ, N., TOKOVÁ, L., & GADUŠ, J. (2024). The effects of biochar grain size on radish plants under low water availability. *Plant, Soil Environ*, 70(4):203-209.

**DOI:** [10.17221/414/2023-PSE](https://doi.org/10.17221/414/2023-PSE)

CARBAJAL-FRIEDRICH, A.A.J., & BURGESS, A.J. (2024). *The role of the ideotype in future agricultural production.* *Front Plant Physiol*, 2:1341617.

**DOI:** [10.3389/fphyg.2024.1341617](https://doi.org/10.3389/fphyg.2024.1341617)

COBACHO, S.P., JANSSEN, S.A.R., BREKELMANS, M.A.C.P., ET AL. (2024). *High temperature and eutrophication alter biomass allocation of black mangrove (*Avicennia germinans* L.) seedlings.* *Marine Environ Res*, 193, 106291.

**DOI:** [10.1016/j.marenvres.2023.106291](https://doi.org/10.1016/j.marenvres.2023.106291)

COBACHO, S.P., LEEMANS, L.H., WEIDEVELD, S.T.J., FU, X., VAN KATWIJK, M.M., ET AL. (2024). *Addition of iron does not ameliorate sulfide toxicity by sargassum influx to mangroves but dampens methane and nitrous oxide emissions.* *Mar Poll Bulletin*, 202, 116303.

**DOI:** [10.1016/j.marpolbul.2024.116303](https://doi.org/10.1016/j.marpolbul.2024.116303)

COSTA, É.L.G., DE OLIVIERA, T.C., GOMES, A.R., BENTO, C.H.P., DA SILVA, F.B. ET AL. (2024). *Using seasonal physiological and biochemical responses to select forest components adapted to soybean and corn intercropping.* *Heliyon*, 10, e34674.

**DOI:** [10.1016/j.heliyon.2024.e34674](https://doi.org/10.1016/j.heliyon.2024.e34674)

DA SILVA, F.B., REARTES, D.S., ROSA, M., BENTO, C.H.P., PARISI, F.G., ET AL. (2024). *Phytochrome Sensitivity: The Spectral Quality of Red Light Regulates Photosynthetic Pathways in Phytochrome a, B1, and B2 Mutant Microtomato.* *SSRN*, 4693223.

**DOI:** [10.2139/ssrn.4693223](https://doi.org/10.2139/ssrn.4693223)

DE CAROLIS, C., IORI, V., NARCISO, A., GENTILE, D., CASENTINI, B., ET AL. (2024). *The Effects of Different Combinations of Cattle Organic Soil Amendments and Copper on Lettuce (cv. Rufus) Plant Growth.* *Environments*, 11, 134.

**DOI:** [10.3390/environments11070134](https://doi.org/10.3390/environments11070134)

DE SOUZA MARQUES, M.M., VITORINO, L.C., ROSA, M. ET AL. (2024). *Leaf physiology and histopathology of the interaction between the opportunistic phytopathogen *Fusarium equiseti* and *Gossypium hirsutum* plants.* *Eur J Plant Pathol* 168, 329–349.

**DOI:** [10.1007/s10658-023-02759-z](https://doi.org/10.1007/s10658-023-02759-z)

DEL-CANTO, A., DE DIEGO, N., SANZ-SÁEZ, Á., ŠTEFELOVÁ, N., PÉREZ-LÓPEZ, U., ET AL. (2024). *Local Genotypes for Elevating Yield and Seed Quality, and Confronting Climate Change Challenges.* *SSRN*, 4733721.

**DOI:** [10.2139/ssrn.4733721](https://doi.org/10.2139/ssrn.4733721)

DING, M., XING, W., LI, Z., ET AL. (2024). *The class B heat shock factor Rchsf17 from Rosa chinensis enhances basal thermotolerance in Rosa rugosa.* *Environ Exp Bot*, 225, 105832.

**DOI:** [10.1016/j.envexpbot.2024.105832](https://doi.org/10.1016/j.envexpbot.2024.105832)

DOOSE, C., & HUBAS, C. (2024). *The metabolites of light: Untargeted metabolomic approaches bring new clues to understand light-driven acclimation of intertidal mudflat biofilm.* *Sci Total Environ*, 912, 168692.

**DOI:** [10.1016/j.scitotenv.2023.168692](https://doi.org/10.1016/j.scitotenv.2023.168692)

ERICE, G., CANO, C., BAGO, A. ET AL. (2024). *Contrasting Regulation of Phaseolus vulgaris Root Hydraulic Properties Under Drought and Saline Conditions by Three Arbuscular Mycorrhizal Fungal Species From Soils with Divergent Moisture Regime.* *J Soil Sci Plant Nutr* 24, 2934–2945.

**DOI:** [10.1007/s42729-024-01719-8](https://doi.org/10.1007/s42729-024-01719-8)

EVANS, C.C., & QADERI, M.M. (2024). Supplemental nitrogen alleviates the negative effects of higher temperature on the vegetative growth of canola regardless of carbon dioxide concentration. *Plant Stress*, 13, 100521.

DOI: [10.1016/j.stress.2024.100521](https://doi.org/10.1016/j.stress.2024.100521)

FABER, A.H., ØRSTED, M., & EHLERS, B.K. (2024). Application of the thermal death time model in predicting thermal damage accumulation in plants. *bioRxiv*.

DOI: [10.1101/2024.01.29.577815](https://doi.org/10.1101/2024.01.29.577815)

FRĄSZCZAK, B., MATYSIAK, R., SMIGLAK, M., ET AL. (2024). Application of Salicylic Acid Derivative in Modifying the Iron Nutritional Value of Lettuce (*Lactuca sativa L.*). *Plants*, 13, 180.

DOI: [10.3390/plants13020180](https://doi.org/10.3390/plants13020180)

GIL, T., ROMÃO, I.R., DO CARMO GOMES, J., VERGARA-DIAZ, O., LOPES DE CARVALHO, L.A., ET AL. (2024). Comparing native and non-native seed-isolated strains for drought resilience in maize (*Zea mays L.*). *Plant Stress*, 12, 100462.

DOI: [10.1016/j.stress.2024.100462](https://doi.org/10.1016/j.stress.2024.100462)

GIOVENALI, G., DI ROMANA, M. L., CAPOCCIONI, A., ET AL. Exploring *Thinopyrum* spp. Group 7 Chromosome Introgressions to Improve Durum Wheat Performance under Intense Daytime and Night-Time Heat Stress at Anthesis. *Preprints*, 2024080355.

DOI: [10.20944/preprints202408.0355.v1](https://doi.org/10.20944/preprints202408.0355.v1)

HEIN, N.T., TIWARI, M., KUMAR, R., COOK, L., OSTMEYER, T., ET AL. (2024). Post-flowering high night-time temperature stress impacts physiology and starch metabolism in field-grown maize. *Agrosyst Geosci Environ*. 7:e20522.

DOI: [10.1002/agg2.20522](https://doi.org/10.1002/agg2.20522)

HERNÁNDEZ-LAO, T., TIENDA-PARRILLA, M., LABELLA-ORTEGA, M., GUERRERO-SÁNCHEZ, V.M., REY, M.-D., ET AL. Proteomic and Metabolomic Analysis of the *Quercus ilex*-*Phytophthora cinnamomi* Pathosystem Reveals a Population-Specific Response, Independent of Co-Occurrence of Drought. *Biomolecules*, 14, 160.

DOI: [10.3390/biom14020160](https://doi.org/10.3390/biom14020160)

HUANG, H., LI, M., GUO, Q., ZHANG, R., ZHANG, Y., ET AL. (2024). Influence of Drought Stress on the Rhizosphere Bacterial Community Structure of Cassava (*Manihot esculenta Crantz*). *Int J Mol Sci*, 25(13): 7326.

DOI: [10.3390/ijms25137326](https://doi.org/10.3390/ijms25137326)

HUANG, Q., AYYAZ, A., FAROOQ, M.A., ZHANG, K., CHEN, W., ET AL. (2024). Silicon dioxide nanoparticles enhance plant growth, photosynthetic performance, and antioxidants defence machinery through suppressing chromium uptake in *Brassica napus L.* *Environ Poll*, 342, 123013.

DOI: [10.1016/j.envpol.2023.123013](https://doi.org/10.1016/j.envpol.2023.123013)

IOZIA, L.M., & VARONE, L. (2024). Short range shifts in plant physiological responses to induced water stress: Experimental evidence of intraspecific trait variability differentiating neighbouring Mediterranean plant populations. *Plant Stress*, 13, 100556.

DOI: [10.1016/j.stress.2024.100556](https://doi.org/10.1016/j.stress.2024.100556)

JAVED, M., IQBAL, M., ATHAR HABIB-UR-REHMAN, ZAFAR, Z.U., ARSHAD, F., ET AL. (2024). *Role of photosystem II activity in salt tolerance of Panicum antidotale and Panicum turgidum: Insights from chlorophyll a fluorescence analysis on excised leaf*. *J. Anim. Plant Sci.*, 34 (2), 387-399.

DOI: [10.36899/JAPS.2024.2.0725](https://doi.org/10.36899/JAPS.2024.2.0725)

JEONG, U., JANG, T., KIM, D., & CHEONG, E.J. (2024). *Classification and Identification of Pinecone Mulching in Blueberry Cultivation Based on Crop Leaf Characteristics and Hyperspectral Data*. *Agronomy*, 14, 785.

DOI: [10.3390/agronomy14040785](https://doi.org/10.3390/agronomy14040785)

JEONG, U., YUN, Y.J., & CHEONG, E.J. (2024). *Integrating Hyperspectral Reflectance and Physiological Parameters to Detect Urban Tree Stress: A Study of Drought and Simulated Acid Rain*. *Urban Sci*, 8, 106.

DOI: [10.3390/urbansci8030106](https://doi.org/10.3390/urbansci8030106)

JÓCSÁK, I., CSIMA, F., & SOMFALVI-TÓTH, K. (2024). *Alterations of Photosynthetic and Oxidative Processes Influenced by the Presence of Different Zinc and Cadmium Concentrations in Maize Seedlings: Transition from Essential to Toxic Functions*. *Plants*, 13(8), 1150.

DOI: [10.3390/plants13081150](https://doi.org/10.3390/plants13081150)

KALOUSEK, P., HOLÁTKO, J., SCHREIBER, P. ET AL. (2024). *The effect of chelating agents on the Zn-phytoextraction potential of hemp and soil microbial activity*. *Chem. Biol. Technol. Agric.* 11, 23.

DOI: [10.1186/s40538-024-00544-6](https://doi.org/10.1186/s40538-024-00544-6)

KHAN, K., ALI, B., ZHANG, S., ET AL. (2024). *Phytotoxic effect on chloroplast and UHPLC-HRMS based untargeted metabolomic responses in Allium tuberosum Rottler ex Sprengel exposed to antibiotics*. *Authorea*.

DOI: [10.22541/au.170667234.40083774/v1](https://doi.org/10.22541/au.170667234.40083774/v1)

KODADINNE NARAYANA, N., WIJEWARDANA, C., ALSAJRI, F.A. ET AL. (2024). *Resilience of soybean genotypes to drought stress during the early vegetative stage*. *Sci Rep* 14, 17365.

DOI: [10.1038/s41598-024-67930-w](https://doi.org/10.1038/s41598-024-67930-w)

KOVÁCS, F., PAPDI, E., VERES, A., ET AL. (2024). *More efficient nitrogen utilization through wool pellet and soil inoculation*. *Agrosyst Geosci Environ*. 7:e20534.

DOI: [10.1002/agg2.20534](https://doi.org/10.1002/agg2.20534)

LACALLE, R.G., IRATZOKI, I., HEREŞ, A-M., ET AL. (2024). *Non-destructive optical indices to estimate isoprenoids with nutritional value in packed rocket and spinach*. *J Agricult Food Res*, 16, 101151.

DOI: [10.1016/j.jafr.2024.101151](https://doi.org/10.1016/j.jafr.2024.101151)

LAHAK, M., ALON, E., CHEN, A. ET AL. (2024). *Covering young avocado 'Hass' trees with high-density shading nets during the winter mitigates frost damage and improves tree performance*. *Trees* 38, 327–338.

DOI: [10.1007/s00468-023-02485-3](https://doi.org/10.1007/s00468-023-02485-3)

LI, X., LI, J., WEI, S., GAO, Y., PEI, H., ET AL. (2024). *Maize GOLDEN2-LIKE proteins enhance drought tolerance in rice by promoting stomatal closure*. *Plant Physiol*, 194:774-786.

DOI: [10.1093/plphys/kiad561](https://doi.org/10.1093/plphys/kiad561)

LI, X., SHEN, X., SUN, M., & NIE, B. (2024). *Physiological Adaptation Of Cyperus Esculentus L. Seedlings to Varying Concentrations of Salt and Alkali Stress: Insights from Photosynthetic Performance*. *SSRN*, 4806949.

DOI: [10.2139/ssrn.4806949](https://doi.org/10.2139/ssrn.4806949)

LIANG, S., WANG, H., YAMASHITA, H., ZHANG, S., LANG, X., ET AL. (2024). Genome-wide identification and expression analysis of sucrose phosphate synthase and sucrose-6-phosphate phosphatase family genes in *Camellia sinensis*. *Beverage Plant Research* 4: e015

DOI: [10.48130/bpr-0024-0007](https://doi.org/10.48130/bpr-0024-0007)

LUCAS, M., DIAZ-ESPEJO, A., ROMERO-JIMENEZ, D., PEINADO-TORRUBIA, P., DELGADO-VAQUERO, A., ET AL. (2024). Chloride reduces plant nitrate requirement and alleviates low nitrogen stress symptoms. *Plant Physiol Biochem*. 212, 108717.

DOI: [10.1016/j.plaphy.2024.108717](https://doi.org/10.1016/j.plaphy.2024.108717)

MA, X., JIN, H., YANG, J., PENG, X., WANG, X., ET AL. (2024). Effects of terrestrial dissolved organic matter on the growth, photosynthesis and colonial morphology of *Microcystis aeruginosa* at different levels of iron. *Ecotoxicol Environ Safety*, 283, 116790.

DOI: [10.1016/j.ecoenv.2024.116790](https://doi.org/10.1016/j.ecoenv.2024.116790)

MACHÁČOVÁ, M., TOMÁŠKOVÁ, I., CORCOBADO, T., NAGY, Z., MILANOVIĆ, S., ET AL. (2024). Response of *Alnus glutinosa* to *Phytophthora* bark infections at ambient and elevated CO<sub>2</sub> levels. *Front. For. Glob. Change*, 7:1379791.

DOI: [10.3389/ffgc.2024.1379791](https://doi.org/10.3389/ffgc.2024.1379791)

MARQUES, M., SILVA, I., BESSA, L. ET AL. (2024). Opportunistic pathogenicity observed for the endophytic fungus *Diaporthe ueckerae* on *Gossypium hirsutum* plants. *J Plant Pathol*.

DOI: [10.1007/s42161-024-01637-9](https://doi.org/10.1007/s42161-024-01637-9)

MATTILA, H., KHOROBRYKH, S., & TYYSTJÄRVI, E. (2024). Flavonols do not affect aphid load in green or senescent birch leaves but coincide with a decrease in Photosystem II functionality. *Biol Open* 13 (7): bio060325.

DOI: [10.1242/bio.060325](https://doi.org/10.1242/bio.060325)

MATHUR, S., BHEEMANAHALLI, R., JUMAA, S.H., KAKAR, N., REDDY, V.R., ET AL. (2024). Impact of ultraviolet-B radiation on early-season morpho-physiological traits of indica and japonica rice genotypes. *Front Plant Sci*, 15:1369397.

DOI: [10.3389/fpls.2024.1369397](https://doi.org/10.3389/fpls.2024.1369397)

MAZUR, M., MATOŠA KOČAR, M., JAMBROVIĆ, A., SUDARIĆ, A., VOLENIK, M., ET AL. (2024). Crop-Specific Responses to Cold Stress and Priming: Insights from Chlorophyll Fluorescence and Spectral Reflectance Analysis in Maize and Soybean. *Plants*, 13(9), 1204.

DOI: [10.3390/plants13091204](https://doi.org/10.3390/plants13091204)

MIRZAEI, S., MORADI, S., KARIMI, M., ET AL. (2024). Gamma-Aminobutyric Acid-Mediated Alkalinity Stress Alleviation in *Lollo Rosso* Lettuce under Diverse Light Spectra. *Agronomy*, 14, 313.

DOI: [10.3390/agronomy14020313](https://doi.org/10.3390/agronomy14020313)

MONTANARO, G., BRIGLIA, N., PETROZZA, A., CARLOMAGNO, A., RUSTIONI, L., ET AL. (2024). Image-based sensing of salt stress in grapevine. *Oeno One*, 58-1.

DOI: [10.20870/oeno-one.2024.58.1.7757](https://doi.org/10.20870/oeno-one.2024.58.1.7757)

NAHUELCURA, J., BRAVO, C., VALDEBENITO, A., RIVAS, S., SANTANDER, C., ET AL. (2024). Physiological and Enzymatic Antioxidant Responses of *Solanum tuberosum* Leaves to Arbuscular Mycorrhizal Fungal Inoculation under Water Stress. *Plants*, 13, 1153.

**DOI:** [10.3390/plants13081153](https://doi.org/10.3390/plants13081153)

NEŠPOROVÁ, T., VÍTÁMVÁS, P., KOSOVÁ, K., ET AL. (2024). Water-saving and water-spending strategy: The physiological, proteomic and metabolomic investigation of wheat response to drought and the following recovery. *Plant Stress*, 13, 100509.

**DOI:** [10.1016/j.stress.2024.100509](https://doi.org/10.1016/j.stress.2024.100509)

NG, H.M., GONDO, T., TANAKA, H. ET AL. (2024). CRISPR/Cas9-mediated knockout of NYC1 gene enhances chlorophyll retention and reduces tillering in Zoysia matrella (L.) Merrill. *Plant Cell Rep* 43, 50.

**DOI:** [10.1007/s00299-023-03130-6](https://doi.org/10.1007/s00299-023-03130-6)

NIHRANZ, C.T., GUZCHENKO, A., & CASTEEL, C.L. (2023). Silencing ZmPP2C-A10 with a foxtail mosaic virus (FoMV) derived vector benefits maize growth and development following water limitation. *Plant Biol*, 25(6), 956-964.

**DOI:** [10.1111/plb.13568](https://doi.org/10.1111/plb.13568)

NOKHSOROV, V.V., PROTOPOPOV, F.F., SLEPTSOV, I.V., PETROVA, L.V., & PETROV, K.A. (2024). Metabolomic Profile and Functional State of Oat Plants (*Avena sativa* L.) Sown under Low-Temperature Conditions in the Cryolithozone. *Plants*, 13, 1076.

**DOI:** [10.3390/plants13081076](https://doi.org/10.3390/plants13081076)

NUNES, G.F., MOREIRA, L.G., DINIZ, N.M., ET AL. (2024). Seaweed extract-based fertilizer and water stress on potato crops. *Sci Agrotechnol*, 48:e018523.

**DOI:** [10.1590/1413-7054202448018523](https://doi.org/10.1590/1413-7054202448018523)

OISHI, Y. (2024). Additive positive effect of warming and elevated nitrogen deposition on Sphagnum biomass production at mid-latitudes. *Sci Rep* 14, 16793.

**DOI:** [10.1038/s41598-024-67614-5](https://doi.org/10.1038/s41598-024-67614-5)

PARK, B.G., LEE, J.H., SHIN, E.J., KIM, E.A., & NAM, S.Y. (2024). Light Quality Influence on Growth Performance and Physiological Activity of Coleus Cultivars. *Int. J. Plant Biol.*, 15, 807-826.

**DOI:** [10.3390/ijpb15030058](https://doi.org/10.3390/ijpb15030058)

PECH, R., VOLNÁ, A., ŠPUNDA, V., & NEZVAL, J. (2024). Blue light as an important factor increasing plant tolerance to acute photooxidative stress. *Environ Exp Bot*, 226, 105923.

**DOI:** [10.1016/j.envexpbot.2024.105923](https://doi.org/10.1016/j.envexpbot.2024.105923)

PÉREZ-MONCADA, U.A., SANTANDER, C., RUIZ, A., ET AL. (2024). Design of Microbial Consortia Based on Arbuscular Mycorrhizal Fungi, Yeasts, and Bacteria to Improve the Biochemical, Nutritional, and Physiological Status of Strawberry Plants Growing under Water Deficits. *Plants*, 13, 1556.

**DOI:** [10.3390/plants13111556](https://doi.org/10.3390/plants13111556)

PERNER, J., MATOUŠEK, J. & AUER MALINSKÁ, H. (2024). Cold plasma treatment influences the physiological parameters of millet. *Photosynthetica* 62 (1), 126-137.

**DOI:** [10.32615/ps.2024.010](https://doi.org/10.32615/ps.2024.010)

PIETRINI, F., WYRWICKA-DREWNIAK, A., PASSATORE, L. ET AL. (2024). PFOA accumulation in the leaves of basil (*Ocimum basilicum* L.) and its effects on plant growth, oxidative status, and photosynthetic performance. *BMC Plant Biol* 24, 556.

**DOI:** [10.1186/s12870-024-05269-0](https://doi.org/10.1186/s12870-024-05269-0)

PROVAZNÍK, D., STEJSKAL, J., HANSEN, O.K., ČEPL, J., ERICHSEN, E.R., ET AL. (2024). Addressing the altitudinal and geographical gradient in European beech via photosynthetic parameters: a case study on Calabrian beech transplanted to Denmark. *Front For Glob Change*, 7:1369464.

DOI: [10.3389/ffgc.2024.1369464](https://doi.org/10.3389/ffgc.2024.1369464)

QADERI, M.M., & BURTON, K. (2024). Photoperiod Regulates Aerobic Methane Emissions by Altering Plant Growth and Physiological Processes. *Methane*, 3, 380-396.

DOI: [10.3390/methane3030021](https://doi.org/10.3390/methane3030021)

RENÓ, V., CARDELLICCHIO, A., ROMANJENKO, B.C., & GUADAGNO, C.R. (2024). AI-assisted image analysis and physiological validation for progressive drought detection in a diverse panel of *Gossypium hirsutum* L. *Front. Plant Sci.* 14:1305292.

DOI: [10.3389/fpls.2023.1305292](https://doi.org/10.3389/fpls.2023.1305292)

ROMERO-MUNAR, A., MUÑOZ-CARRASCO, M., BALESTRINI, R., DE ROSE, S., GIOVANNINI, L., ET AL. (2024). Differential root and cell regulation of maize aquaporins by the arbuscular mycorrhizal symbiosis highlights its role in plant water relations. *Plant Cell Environ*, 1-17.

DOI: [DOI: 10.1111/pce.15029](https://doi.org/10.1111/pce.15029)

SAKAE, K., KAWAI, S., KITAGAMI, Y., ET AL. (2024). Effects of fungicide treatments on mycorrhizal communities and carbon acquisition in mixotrophic plants, *Pyrola japonica* (Ericaceae). *Research Square*.

DOI: [10.21203/rs.3.rs-3889869/v1](https://doi.org/10.21203/rs.3.rs-3889869/v1)

SHOMALI, A., DE DIEGO, N., ZHOU, R., ABDELHAKIM, L., VROBEL, O., ET AL. (2024). The crosstalk of far-red energy and signaling defines the regulation of photosynthesis, growth, and flowering in tomatoes. *Plant Physiol Biochem*, 208, 108458,

DOI: [10.1016/j.plaphy.2024.108458](https://doi.org/10.1016/j.plaphy.2024.108458)

SILVA, I.D.O., BESSA, L.A., REIS, M.N.O., AUGUSTO, D.S.S., ROWEDER, C., ET AL. (2024). Endophytic Fungi Inoculation Reduces Ramulosis Severity in *Gossypium hirsutum* Plants. *Microorganisms*, 12, 1124.

DOI: [10.3390/microorganisms12061124](https://doi.org/10.3390/microorganisms12061124)

SINGH, V.K., VIMAL, S.R. & PRASAD, S.M. (2024). Phytohormones methyl jasmonate (MeJA) and gamma-aminobutyric acid (GABA) up-regulates growth and PS II photochemistry in brinjal and tomato seedlings exposed to cadmium toxicity. *Res Square*.

DOI: [10.21203/rs.3.rs-4340560/v1](https://doi.org/10.21203/rs.3.rs-4340560/v1)

SOBHANI, M., SAHEBANI, N., LASTOCHKINA, O., AASAYESH, E.J., DIDARAN, F., ET AL. (2024). Inducing Plant Resistance Against *Meloidogyne javanica* by Application of *Bacillus Subtilis* and Light Spectra. *SSRN*, 4847536.

DOI: [10.2139/ssrn.4847536](https://doi.org/10.2139/ssrn.4847536)

SONG, J., YANG, J., & JEONG, B.R. (2024). Characterization of Physiology, Photosynthesis, and Nutrition Based on Induced Deficiencies of Macro- and Micronutrients in Basil (*Ocimum basilicum* L.). *Agronomy*, 14, 208.

DOI: [10.3390/agronomy14010208](https://doi.org/10.3390/agronomy14010208)

STOLSMO, S.P., LINDBERG, C.L., WEEN, R.E., SCHAT, L., PRESTON, J.C., ET AL. (2024). Evolution of drought and frost responses in cool season grasses (Pooideae): was drought tolerance a precursor to frost tolerance? *J Exp Bot*, erae316.

DOI: [10.1093/jxb/erae316](https://doi.org/10.1093/jxb/erae316)

SU, P., DING, S., WANG, D. ET AL. (2024). Plant morphology, secondary metabolites and chlorophyll fluorescence of *Artemisia argyi* under different LED environments. *Photosynth Res* 159, 153–164.

DOI: [10.1007/s11120-023-01026-w](https://doi.org/10.1007/s11120-023-01026-w)

SUETSUGU, K., OHTA, T. & TAYASU, I. (2024). Partial mycoheterotrophy in the leafless orchid *Eulophia zollingeri* specialized on wood-decaying fungi. *Mycorrhiza* 34, 33–44.

DOI: [10.1007/s00572-024-01136-w](https://doi.org/10.1007/s00572-024-01136-w)

SUN, RZ., WANG, YY., LIU, XQ. ET AL. Structure and dynamics of microbial communities associated with the resurrection plant *Boea hygrometrica* in response to drought stress. *Planta* 260, 24.

DOI: [10.1007/s00425-024-04459-2](https://doi.org/10.1007/s00425-024-04459-2)

SU-ZHOU, C., DURAND, M., APHALO, P.J., MARTINEZ-ABAIGAR, J., SHAPIGUZOV, A., ET AL. (2024). Weaker photosynthetic acclimation to fluctuating than to corresponding steady UVB radiation treatments in grapevines. *Physiologia Plantarum*, 176:e14383.

DOI: [10.1111/ppl.14383](https://doi.org/10.1111/ppl.14383)

TAKADA, K., NISHIGAKI, T., TSUJIMOTO, Y., & ISEKI, K. (2024). Genotypic variations in phosphorus accumulation in wild cowpea relatives (*Vigna vexillata*) grown under phosphorus deficiency. *Plant Production Sci*, 27(1), 28-37.

DOI: [10.1080/1343943X.2023.2299643](https://doi.org/10.1080/1343943X.2023.2299643)

TAMIZHSELVAN, P., MADHAVAN, S., CONSTAN-AGUILAR, C., ELREFAAY, E.R., LIU, J., ET AL. (2024). Chloroplast Auxin Efflux Mediated by ABCB28 and ABCB29 Fine-Tunes Salt and Drought Stress Responses in *Arabidopsis*. *Plants*, 13, 7.

DOI: [10.3390/plants13010007](https://doi.org/10.3390/plants13010007)

TERÁN, F., VIVES-PERIS, V., LÓPEZ-CLIMENT, M.F. ET AL. (2024). Palliative Effects of Kaolin on Citrus Plants Under Controlled Stress Conditions of High Temperature and High Light Intensity. *J Plant Growth Regul* 43, 486–499.

DOI: [10.1007/s00344-023-11103-y](https://doi.org/10.1007/s00344-023-11103-y)

THAPA, A., HASAN, M.R., & KABIR, A.H. (2024). *Trichoderma afroharzianum* T22 induces rhizobia and flavonoid through systemic signaling to combat Fe deficiency in garden pea. *bioRxiv* 2024.07.11.603139.

DOI: [10.1101/2024.07.11.603139](https://doi.org/10.1101/2024.07.11.603139)

VAHDATI, K., HABIBI, A., SARIKHANI, S., ALINIAEIFARD, S., SOLTANI, M., ET AL. (2024). Drought and Heat Stress Interactions: Unveiling the Photosynthesis and Osmotic Regulators of Persian Walnut. *SSRN*, 4883040.

DOI: [10.2139/ssrn.4883040](https://doi.org/10.2139/ssrn.4883040)

VÁZQUEZ-ROMERO, B., VILLAR-NAVARRO, E., PERALES, J.A., GARRIDO-PÉREZ, C., & RUIZ, J. (2024). Techno-economic analysis of using microalgae to treat streams from fish RAS farming and replace fish meal: A case study. *J Water Process Engin*, 59, 104904.

DOI: [10.1016/j.jwpe.2024.104904](https://doi.org/10.1016/j.jwpe.2024.104904)

VELOSO, V.L., SILVA, F.B.V., ARAÚJO, P.R.M., ET AL. (2024). Rice straw biochar mitigates metal stress in maize and assists in the phytoattenuation of a slag-contaminated soil, *Res Square*.

DOI: [10.21203/rs.3.rs-4252712/v1](https://doi.org/10.21203/rs.3.rs-4252712/v1)

VITALE, E., MOTTA, C.M., AVALLONE, B. ET AL. (2024). Sustainable Reuse of Espresso Coffee By-products as a Natural Fertilizer to Improve Growth and Photosynthesis in Cucumber (*Cucumis sativus L.*) Plants. *Waste Biomass Valor* 15, 543–559.

DOI: [10.1007/s12649-023-02143-2](https://doi.org/10.1007/s12649-023-02143-2)

WALNE, C.H., THENVEETIL, N., RAMAMOORTHY, P., ET AL. (2024). Unveiling Drought-Tolerant Corn Hybrids for Early-Season Drought Resilience Using Morpho-Physiological Traits. *Agriculture*, 14, 425.

DOI: [10.3390/agriculture14030425](https://doi.org/10.3390/agriculture14030425)

WANG, D., GAO, X., WANG, X. ET AL. (2024). Diverse thermal responses of the growth, photosynthesis, lipid and fatty acids in the terrestrial oil-producing microalga *Vischeria* sp. WL1. *J Appl Phycol* 36, 29–39.

DOI: [10.1007/s10811-023-03152-3](https://doi.org/10.1007/s10811-023-03152-3)

WU, X., LI, L., HANNAN, F., QIN, T., AYYAZ, A., ET AL. (2024). Brassinosteroid-induced transcriptomic rearrangements unveiled the physiological mechanism of chromium stress tolerance in *Brassica napus*. *Current Plant Biol.* 39, 100360.

DOI: [10.1016/j.cpb.2024.100360](https://doi.org/10.1016/j.cpb.2024.100360)

## 2023

ABHARY M.K. AND AKHKHA A. (2023). Effects of neodymium magneto-priming on seed germination and salinity tolerance in tomato. *Bioelectromagnetics*, 44: 47-56.

DOI: [10.1002/bem.22438](https://doi.org/10.1002/bem.22438)

ADU-YEBOAH P., TETTEH LOWOR S., ADWOA SEGBEFIA M., ET AL. (2023). Physiological and growth responses of cacao to glyphosate exposure, *Journal of Environmental Science and Health, Part B*, 58:2, 91-99,

DOI: [10.1080/03601234.2023.2169523](https://doi.org/10.1080/03601234.2023.2169523)

AWN, M.-A.; LEE, J.; HYUN, T.K. (2023). Histone Deacetylase Inhibitor, Sodium Butyrate-Induced Metabolic Modulation in *Platycodon grandiflorus* Roots Enhances Anti-Melanogenic Properties. *Int. J. Mol. Sci.* 24, 11804.

DOI: [10.3390/ijms241411804](https://doi.org/10.3390/ijms241411804)

AL-DEEB T., ABO GAMAR M., KHALEEL S., ET AL. (2023). Individual and Interactive Ecophysiological Effect of Temperature, Watering Regime and Abscisic Acid on the Growth and Development of Tomato Seedlings. *Agronomy*. 2023; 13(3):930.

DOI: [10.3390/agronomy13030930](https://doi.org/10.3390/agronomy13030930)

ALVAREZ-MOREZUELAS A., BARANDALLA L., RITTER E., ET AL. (2023). Genome-Wide Association Study of Agronomic and Physiological Traits Related to Drought Tolerance in Potato. *Plants*. 2023; 12(4):734.

DOI: [10.3390/plants12040734](https://doi.org/10.3390/plants12040734)

AMARAL G.C., PEZZOPANE J.E.M., DE SOUZA NÓIA JÚNIOR R. ET AL. (2023). Climate change and the growth of Amazonian species seedlings: an ecophysiological approach to *Euterpe oleracea*. *New Forests* 54, 269–287.

DOI: [10.1007/s11056-022-09921-1](https://doi.org/10.1007/s11056-022-09921-1)

ARAB, M.M., ASKARI, H., ALINAEIFARD, S., MOKHTASSI-BIDGOLI, A., ESTAJI, A., ET AL. (2023). Natural variation in photosynthesis and water use efficiency of locally adapted Persian walnut populations under drought stress and recovery. *Plant Physiol Biochem*, 201, 107859.

DOI: [10.1016/j.plaphy.2023.107859](https://doi.org/10.1016/j.plaphy.2023.107859)

ARDELEAN I.V., BĂLĂCESCU L., SICORA O. ET AL. (2023). Maize cytolines as models to study the impact of different cytoplasms on gene expression under heat stress conditions. *BMC Plant Biol* **23**, 4.

DOI: [10.1186/s12870-022-04023-8](https://doi.org/10.1186/s12870-022-04023-8)

ÁVILA, R.G., MAGALHÃES, P.C., VITORINO, L.C. ET AL. (2023). Chitosan Induces Sorghum Tolerance to Water Deficits by Positively Regulating Photosynthesis and the Production of Primary Metabolites, Osmoregulators, and Antioxidants. *J Soil Sci Plant Nutr* **23**, 1156–1172.

DOI: [10.1007/s42729-022-01111-4](https://doi.org/10.1007/s42729-022-01111-4)

BISWAS D., GJETVAJ B., ST. LUCE M., ET AL. (2023). Effects of soil water and nitrogen on drought resilience, growth, yield, and grain quality of a spring wheat. *Canadian Journal of Plant Science*.

DOI: [10.1139/cjps-2022-0210](https://doi.org/10.1139/cjps-2022-0210)

BOUDABBOUS, K., HAMMAMI, S.B.M., TOUKABRI, W., BOUHAOUEL, I., AYED, S., ET AL (2023). Black Soldier Fly (*Hermetia illucens*) Larvae Frass Organic Fertilizer Improves Soil Quality and the Productivity of Durum Wheat. *Communications in Soil Science and Plant Analysis* 54(18), 2491–2507.

DOI: [10.1080/00103624.2023.2227208](https://doi.org/10.1080/00103624.2023.2227208)

CAYÚN Y., ALARCÓN, S., TEREUCÁN, G. ET AL. (2023). Effect of Arbuscular Mycorrhizal Fungi Inoculation on the Metabolic Activity of *Solanum tuberosum* Plants Under Fungicide Application. *J Soil Sci Plant Nutr* (2023).

DOI: [10.1007/s42729-023-01282-8](https://doi.org/10.1007/s42729-023-01282-8)

CAPORALE A.G., PARADISO R., LIUZZI G. ET AL. (2023). Green compost amendment improves potato plant performance on Mars regolith simulant as substrate for cultivation in space. *Plant Soil* 486, 217–233.

DOI: [10.1007/s11104-022-05860-0](https://doi.org/10.1007/s11104-022-05860-0)

CHEBOTARYOVA S.P., ZAKHAROVA O.V., GUSEV A.A., ET AL. (2023). Assessment of the Tolerance of a Chlorophyte *Desmodesmus* to CuO-NP for Evaluation of the Nanopollution Bioremediation Potential of This Microalga. *Nanomaterials*. 2023; 13(4):737.

DOI: [10.3390/nano13040737](https://doi.org/10.3390/nano13040737)

CHENG, X., CHEN, C., HU, J., & WANG, J. (2023). Phytoremediation of Cs-Contaminated Soil by *Amaranthus Tricolor* and *Spinacia Oleracea*: Growth, Photosystem II and Cesium Accumulation. *SSRN*, 4541637.

DOI: [10.2139/ssrn.4541637](https://doi.org/10.2139/ssrn.4541637)

CHUBACHI, T., OGUCHI, T., MORITA, K. ET AL. (2023). A statistical modeling approach based on the small-scale field trial and meteorological data for preliminary prediction of the impact of low temperature on *Eucalyptus globulus* trees. *Sci Rep* 13, 10138.

DOI: [10.1038/s41598-023-37038-8](https://doi.org/10.1038/s41598-023-37038-8)

CHURAKOVA, S.A., LISITSYN, E.M. & BATALOVA, G.A. (2023). Changes in Organization of Activity of Photosystem II in Oat Leaves under Osmotic Stress. *Russ. Agricult. Sci.* 49, 583–587.

DOI: [10.3103/S106836742306006X](https://doi.org/10.3103/S106836742306006X)

DAVARZANI, M., ALINIAEIFARD, S., MEHRJERDI, M.Z., ROOZBAN, M.R., & SAEEDI, S.A. (2023). Increasing the ratio of red to blue light as supplemental light improves growth, photosynthesis, and yield of cut roses. *Research Square*.

DOI: [10.21203/rs.3.rs-3238061/v1](https://doi.org/10.21203/rs.3.rs-3238061/v1)

DAVARZANI, M., ALINIAEIFARD, S., MEHRJERDI, M.Z. ET AL. (2023). Optimizing supplemental light spectrum improves growth and yield of cut roses. *Sci Rep* 13, 21381.

**DOI:** [10.1038/s41598-023-48266-3](https://doi.org/10.1038/s41598-023-48266-3)

DE ABREU, K.M., DE CASTRO SANTOS, D., PENNACCHI, J.P. ET AL. (2023). Differential tolerance of four tree species to glyphosate and mesotrione used in agrosilvopastoral systems. *New Forests* 53, 831–850.

**DOI:** [10.1007/s11056-021-09889-4](https://doi.org/10.1007/s11056-021-09889-4)

DE FARIA, G.S., CARLOS, L., JAKE LAITIS, A., DE FREITAS, S.T.F., VICENTINI, T.A., ET AL. (2023). Hormetic Effect Caused by Sublethal Doses of Glyphosate on *Toona ciliata* M. Roem. *Plants* 12(24), 4163.

**DOI:** [10.3390/plants12244163](https://doi.org/10.3390/plants12244163)

DE LA ROSA J.M, PÉREZ-DALÍ S.M., CAMPOS P, ET AL. (2023). Suitability of Volcanic Ash, Rice Husk Ash, Green Compost and Biochar as Amendments for a Mediterranean Alkaline Soil. *Agronomy*. 2023; 13(4):1097.

**DOI:** [10.3390/agronomy13041097](https://doi.org/10.3390/agronomy13041097)

DE LILO, A., DE ROSA, I., CAPASSO, G., SANTINI, G., GRILLO, S., ET AL. (2023). Glucose-6p Dehydrogenase Isoforms Differ in Their Response to Nickel Stress in Barley. *SSRN*, 4442078.

**DOI:** [10.2139/ssrn.4442078](https://doi.org/10.2139/ssrn.4442078)

DE MICCO V., AMITRANO C., BALZANO A., ET AL. (2023). Anthropogenic Dusts Influence Leaf Anatomical and Eco-Physiological Traits of Black Locust (*Robinia pseudoacacia* L.) Growing on Vesuvius Volcano. *Forests*. 14(2):212.

**DOI:** [10.3390/f14020212](https://doi.org/10.3390/f14020212)

DE OLIVEIRA V.H., MONTANHA G.S., CARVALHO H.W.P. ET AL. (2023). Mycorrhizal symbiosis alleviates Mn toxicity and downregulates Mn transporter genes in *Eucalyptus tereticornis* under contrasting soil phosphorus. *Plant Soil*.

**DOI:** [10.1007/s11104-023-06024-4](https://doi.org/10.1007/s11104-023-06024-4)

DEL-CANTO, A., SANZ-SAEZ, Á., SILLERO-MARTÍNEZ, A., MINTEGI, E., & LACUESTA, M. (2023). Selected indigenous drought tolerant rhizobium strains as promising biostimulants for common bean in Northern Spain. *Front Plant Sci*, 14:1046397.

**DOI:** [10.3389/fpls.2023.1046397](https://doi.org/10.3389/fpls.2023.1046397)

DOCHERTY E.M., GLOOR E., SPONCHIADO D. ET AL. (2023) Long-term drought effects on the thermal sensitivity of Amazon forest trees. *Plant, Cell & Environment*, 46, 185– 198.

**DOI:** [10.1111/pce.14465](https://doi.org/10.1111/pce.14465)

DOS SANTOS, A.M., BESSA, L.A., AUGUSTO, D.S.S., VACCONCLOS FILHO, S.C., BATISTA, P.F., ET AL. (2023). Biomarkers of pollution by glyphosate in the lichens, *Parmotrema tinctorium* and *Usnea barbata*. *Brazilian J Biol*, 83, e273069.

**DOI:** [10.1590/1519-6984.273069](https://doi.org/10.1590/1519-6984.273069)

DUCATTI, R.D.B., WORDELL-FILHO, J.A., TIRONI, S.P., & MAZARO, S.M. (2023). Wheat photosynthetic parameters influenced by the use of seaweed extract and fungicide. *Sci J Environ Sci Biotechnol*, 9(2): 29-35.

**ISSN:** 2447-0740

EFTEKHARI M., JAVID M.G., ALINIAEIFARD S., NICOLA S. (2023). Alteration of Flower Yield and Phytochemical Compounds of Saffron (*Crocus sativus L.*) by Application of Different Light Qualities and Growth Regulators. *Horticulturae*. 9(2):169.

**DOI:** [10.3390/horticulturae9020169](https://doi.org/10.3390/horticulturae9020169)

EOM, S.H., & HYUN T.K. (2023). Transcriptomic Responses of Garlic (*Allium sativum L.*) to Heat and Drought Stresses. *Phyton* 92(11).

**DOI:** [10.32604/phyton.2023.044032](https://doi.org/10.32604/phyton.2023.044032)

ESKANDARZADE, P., ZARE MEHRJERDI, M., DIDARAN, F., GRUDA, N.S., & ALINIAEIFARD, S. (2023). Shading Level and Harvest Time Affect the Photosynthetic and Physiological Properties of Basil Varieties. *Agronomy*, 13, 2478.

**DOI:** [10.3390/agronomy13102478](https://doi.org/10.3390/agronomy13102478)

FERNANDO, A.M., & MARENCO, R.A. (2023). Successive cycles of soil drying and wetting improve tolerance to drought in mangabeira. *Pesquisa Agropecuária Brasileira*, v.58, e03360.

**DOI:** [10.1590/S1678-3921.pab2023.v58.03360](https://doi.org/10.1590/S1678-3921.pab2023.v58.03360)

FRENCH K.L., VADEBONCOEUR M.A., ASBJORNSEN H., ET AL. (2023). Temporary thinning shock in previously shaded red spruce. *Canadian Journal of Forest Research*.

**DOI:** [10.1139/cjfr-2022-0227](https://doi.org/10.1139/cjfr-2022-0227)

GARCÍA, L.A., MARTÍNEZ-NOËL, G.M.A., TOGNETTI, J.A., & DOSIO, G.A.A. (2023). Plastic Responses to Light Availability in Sunflower: A Trade-Off between Growth and Sugar Storage Capacity. *SSRN*, 4583410.

**DOI:** [10.2139/ssrn.4583410](https://doi.org/10.2139/ssrn.4583410)

GHAFFAR A., HUSSAIN N., AJAJ R., ET AL. (2023). Photosynthetic activity and metabolic profiling of bread wheat cultivars contrasting in drought tolerance. *Front Plant Sci. Feb* 2;14:1123080.

**DOI:** [10.3389/fpls.2023.1123080](https://doi.org/10.3389/fpls.2023.1123080).

GHULAM, S., BANO, H., GUL, M., ET AL. (2023). Impact of deficit irrigation on growth and yield of two mash (*Vigna mungo (L.) hepper*) cultivars. *J Plantarum*, 5(2):01-14.

**ISSN Online:** 2710-4087

GIL-ORTIZ, R., NARANJO, M.Á., ATARES, S., VICENTE, O., & MORILLON, R. (2023). Micronutrient Fertiliser Reinforcement by Fulvate–Lignosulfonate Coating Improves Physiological Responses in Tomato. *Agronomy*, 13, 2013.

**DOI:** [10.3390/agronomy13082013](https://doi.org/10.3390/agronomy13082013)

GIOVENALI G., KUZMANOVIĆ L., CAPOCCIONI A., ET AL. (2023). The Response of Chromosomally Engineered Durum Wheat-*Thinopyrum ponticum* Recombinant Lines to the Application of Heat and Water-Deficit Stresses: Effects on Physiological, Biochemical and Yield-Related Traits. *Plants*. 12(4):704.

**DOI:** [10.3390/plants12040704](https://doi.org/10.3390/plants12040704)

GÓMEZ, F., BRAVO, C., RINGLER, I., SANTANDER, C., GONZÁLEZ, F., VISCARRA, F., ET AL. (2023). Evaluation of the Antifungal Potential of Grape Cane and Flesh-Coloured Potato Extracts against *Rhizoctonia* sp. in *Solanum tuberosum* Crops. *Plants*, 12, 2974.

**DOI:** [10.3390/plants12162974](https://doi.org/10.3390/plants12162974)

GUL H.S., ULFAT M., ZAFAR Z.U., ET AL. (2023). Photosynthesis and Salt Exclusion Are Key Physiological Processes Contributing to Salt Tolerance of Canola (*Brassica napus L.*): Evidence from Physiology and Transcriptome Analysis. *Genes.* 2023; 14(1):3.

DOI: [10.3390/genes14010003](https://doi.org/10.3390/genes14010003)

HA, S.T.T., HAM, J.Y., CHOI, B., & IN B-C. (2023). Use of Chlorophyll Fluorescence to Estimate Photosynthesis and Its Relationship to Vase Life of Cut Roses. *Flower Res. J.*, 31(1) : 10-22.

DOI: [10.11623/frj.2023.31.1.02](https://doi.org/10.11623/frj.2023.31.1.02)

HIDALGO, J., ARTETXE, U., BECERRIL, J.M., ET AL. (2023). Appraisal of biological remediation options for the recovery of a mixed contaminated soil from a gravel pit. *Res Square.*

DOI: [10.21203/rs.3.rs-3161358/v1](https://doi.org/10.21203/rs.3.rs-3161358/v1)

HULTINE K. R. ET AL. (2023). Global change impacts on cacti (Cactaceae): current threats, challenges and conservation solutions, *Annals of Botany*, mcad040,

DOI: [10.1093/aob/mcad040](https://doi.org/10.1093/aob/mcad040)

IVANAUSKAITE, A., RANTALA, M., LAIHONEN, L., KONERT, M.M., SCHWENNER, N., ET AL. (2023). Loss of Chloroplast GNAT Acetyltransferases Results in Distinct Metabolic Phenotypes in *Arabidopsis*. *Plant Cell Physiol.*, 65(5), 549-563.

DOI: [10.1093/pcp/pcad017](https://doi.org/10.1093/pcp/pcad017)

JANG, IT., LEE, JH., SHIN, EJ. & NAM, SY. (2023). Evaluation of Growth, Flowering, and Chlorophyll Fluorescence Responses of *Viola cornuta* cv. Penny Red Wing according to Spectral Power Distributions. *J. People Plants Environ.* 26(4):335-349.

DOI: [10.11628/ksppe.2023.26.4.335](https://doi.org/10.11628/ksppe.2023.26.4.335)

JASZCZUK, Z.M., BRYSIEWICZ, A., KOZIOŁ, A., ET AL. (2023). Does fish stocking rate affect the photosynthesis of *Lactuca sativa* grown in an aquaponic system? *J Water Land Develop.*, 58(VII-IX): 243-252.

DOI: [10.24425/jwld.2023.146616](https://doi.org/10.24425/jwld.2023.146616)

KABIR, A. H., ELA, E. J., BAGCHI, R., RAHMAN, M. A., PEITER, E., & LEE, K. W. (2023). Nitric oxide acts as an inducer of Strategy-I responses to increase Fe availability and mobilization in Fe-starved broccoli (*Brassica oleracea* var. *oleracea*). *Plant Physiology and Biochemistry*, 194, 182-192.

DOI: [10.1016/j.plaphy.2022.11.018](https://doi.org/10.1016/j.plaphy.2022.11.018)

KAZEMI D., & DEHESTANI ARDAKANI M. (2023). Effect of Different Light Spectra on Photosynthesis Yield of *Hypoestes phyllostachya*. *Journal Of Horticultural Science*, 36(4), 803-815.

DOI: [10.22067/JHS.2021.70123.1046](https://doi.org/10.22067/JHS.2021.70123.1046)

KHALID, M.F., ELEZZ, A.A., JAWAID, M.Z. & AHMED, T. (2023). Salicylic acid restricts mercury translocation by activating strong antioxidant defense mechanisms in sweet pepper (*Capsicum annuum L.*). *Environ Technol Innovation*, 32, 203283.

DOI: [10.1016/j.eti.2023.103283](https://doi.org/10.1016/j.eti.2023.103283)

KERR K.L., FICKLE J.C. AND ANDEREGG W.R.L. (2023). Decoupling of functional traits from intraspecific patterns of growth and drought stress resistance. *New Phytol.*, 239: 174-188.

DOI: [10.1111/nph.18937](https://doi.org/10.1111/nph.18937)

KIM, J.Y., SIN, S.K. & PARK, J.H. (2023). Electrical signal of pepper during cropping period affected by different amount of fertilizer. *Appl Biol Chem* 66, 62.

**DOI:** [10.1186/s13765-023-00821-2](https://doi.org/10.1186/s13765-023-00821-2)

KIM, M.K., JEONG, H.B., YU, N., PARK, B.M., CHAE, W.B., ET AL. (2023). Comparative heat stress responses of three hot pepper (*Capsicum annuum L.*) genotypes differing temperature sensitivity. *Sci Rep*, 13, 14203.

**DOI:** [10.1038/s41598-023-41418-5](https://doi.org/10.1038/s41598-023-41418-5)

KIM, Y.H., YANG, H.C., BAE, Y.H., HYEON, S.J., HWANG, S.J., ET AL. (2023). Preventing Overgrowth of Cucumber and Tomato Seedlings Using Difference between Day and Night Temperature in a Plant Factory with Artificial Lighting. *Plants*, 12, 3164.

**DOI:** [10.3390/plants12173164](https://doi.org/10.3390/plants12173164)

KLEIBER, T., CHADZINIKOLAU, T., FORMELA-LUBOIŃSKA, M., LARTEY, J.L., & KOSIADA, T. (2024). Enhancing Lettuce Drought Tolerance: The Role of Organic Acids in Photosynthesis and Oxidative Defense. *Appl. Sci.*, 14, 5119.  
**DOI:** [10.3390/app14125119](https://doi.org/10.3390/app14125119)

KLOFAC, D., ANTOSOVSKY, J., & ŠKARPA, P. (2023). Effect of Zinc Foliar Fertilization Alone and Combined with Trehalose on Maize (*Zea mays L.*) Growth under the Drought. *Plants*, 12, 2539.

**DOI:** [10.3390/plants12132539](https://doi.org/10.3390/plants12132539)

KRINIS, D.I., KASAMPALIS, D.S., & SIOMOS, A.S. (2023). Biostimulants as a Means to Alleviate the Transplanting Shock in Lettuce. *Horticulturae*, 9, 968.

**DOI:** [10.3390/horticulturae9090968](https://doi.org/10.3390/horticulturae9090968)

KRIŠKA T, ŠKARPA P, ANTOŠOVSKÝ J. (2023). Effect of Natural Liquid Hydroabsorbents on Ammonia Emission from Liquid Nitrogen Fertilizers and Plant Growth of Maize (*Zea Mays L.*) under Drought Conditions. *Plants*. 12(4):728.

**DOI:** [10.3390/plants12040728](https://doi.org/10.3390/plants12040728)

LANG J., VÁCZI P., BARTÁK M., ET AL. (2023). Stimulative Effects of *Lupinus* sp. and *Melilotus albus* Underseed on the Photosynthetic Performance of Maize (*Zea mays*) in Two Intercropping Systems. *Agronomy*. 13(1):163.

**DOI:** [10.3390/agronomy13010163](https://doi.org/10.3390/agronomy13010163)

LÁZÁR D, TAKÁCS E, MÖRTL M, ET AL. (2023). Application of a Fluorescence-Based Instrument Prototype for Chlorophyll Measurements and Its Utility in an Herbicide Algal Ecotoxicity Assay. *Water*. 2023; 15(10):1866.  
**DOI:** [10.3390/w15101866](https://doi.org/10.3390/w15101866)

LEE, S.J., CHUNG S.W., KWON, Y., ET AL. (2023). Comparative Transcriptomic Analysis Reveals the Role of Signal Transduction and Cell Wall Stabilization in Cold Tolerance of 'Chamnok' and 'Keumsull' Tea Plants. *SSRN*, 4392823.

**DOI:** [10.2139/ssrn.4392823](https://doi.org/10.2139/ssrn.4392823)

LIM, M.-J., MURTHY, H.N., SONG, H.-Y., LEE, S.-Y., & PARK, S.-Y. (2023). Influence of White, Red, Blue, and Combination of LED Lights on In Vitro Multiplication of Shoots, Rooting, and Acclimatization of *Gerbera jamesonii* cv. 'Shy Pink' Plants. *Agronomy*, 13, 2216.

**DOI:** [10.3390/agronomy13092216](https://doi.org/10.3390/agronomy13092216)

LINCMAIEROVÁ, K., BOTYANSKÁ, L., LICHNER, L., TOKOVÁ, L., ZAFEIRIOU, I., ET AL. (2023). Assessing Microplastic-Induced Changes in Sandy Soil Properties and Crop Growth. *AgriEngineering*, 5, 1555-1567.  
**DOI: 10.3390/agriengineering5030096**

LIU L., GAI Z., QIU X., LIU T., ET AL. (2023). Salt stress improves the low-temperature tolerance in sugar beet in which carbohydrate metabolism and signal transduction are involved. *Environmental and Experimental Botany*, 208, 105239.

**DOI: 10.1016/j.envexpbot.2023.105239**

LÓPEZ M. E., DENOYES B., BUCHER E. (2023). Epigenetic and transcriptional landscape of heat-stress memory in woodland strawberry (*Fragaria vesca*). *bioRxiv* 2023.05.26.542514.  
**DOI: 10.1101/2023.05.26.542514**

MARKOVÁ, H., TARKOWSKÁ, D., ČEČETKA, P., ET AL. (2023). Contents of endogenous brassinosteroids and the response to drought and/or exogenously applied 24-epibrassinolide in two different maize leaves. *Front Plant Sci*, 14:1139162.

**DOI: 10.3389/fpls.2023.1139162**

MARTÍNEZ-GOÑI X. S., MIRANDA-APODACA J., & PÉREZ-LÓPEZ U. (2023). Could buckwheat and spelt be alternatives to wheat under future environmental conditions? Study of their physiological response to drought. *Agricultural Water Management*, 278, 108176.

**DOI: 10.1016/j.agwat.2023.108176**

MATTILA H., MISHRA S., TYYSTJÄRVI T. AND TYYSTJÄRVI, E. (2023). Singlet oxygen production by photosystem II is caused by misses of the oxygen evolving complex. *New Phytol*, 237: 113-125.

**DOI: 10.1111/nph.18514**

MATTILA H., & TYYSTJÄRVI, E. (2023). Red pigments in autumn leaves of Norway maple do not offer significant photoprotection but coincide with stress symptoms. *Tree Physiology* 43, 751–768.

**DOI: 10.1093/treephys/tpad010**

MAZIS, A., AWADA, T., ERICKSON, G.E., WARDLOW, B., WIENHOLD, B.J. ET AL. (2023). Synergistic use of optical and biophysical traits to assess *Bromus inermis* pasture performance and quality under different management strategies in Eastern Nebraska, U.S. *Agricult Ecosystems Environ*, 348, 108400.

**DOI: 10.1016/j.agee.2023.108400**

MEŽAKA I., KRONBERGA A., BERGA M., ET AL. (2023). Biochemical and Physiological Responses of *Cucumis sativus* L. to Application of Potential Bioinsecticides—Aqueous *Carum carvi* L. Seed Distillation By-Product Based Extracts. *Agriculture*. 13(5):1019.

**DOI: 10.3390/agriculture13051019**

MIAO Y., GAO X., LI B., ET AL. (2023). Low red to far-red light ratio promotes salt tolerance by improving leaf photosynthetic capacity in cucumber. *Front Plant Sci*. Jan 6;13:1053780.

**DOI: 10.3389/fpls.2022.1053780.**

MIKOŁAJCZAK, K., KUCZYŃSKA, A., KRAJEWSKI, P., KEMPA, M. & NUC, M. (2023) Transcriptome profiling disclosed the effect of single and combined drought and heat stress on reprogramming of genes expression in barley flag leaf. *Front. Plant Sci*. 13:1096685.

**DOI: 10.3389/fpls.2022.1096685**

MIRANDA V., SILVA-CASTRO G.A., RUIZ-LOZANO J.M., ET AL. (2023) *Fungal Endophytes Enhance Wheat and Tomato Drought Tolerance in Terms of Plant Growth and Biochemical Parameters*. *Journal of Fungi*. 2023; 9(3):384.  
**DOI: 10.3390/jof9030384**

MUBARAK A.N.M., MUFEETH MOHAMMATHU M.M., KUMARA A.D.N.T. (2023). *Will future maize improvement programs leverage the canopy light-interception, photosynthetic, and biomass capacities of traditional accessions?* *PeerJ* 11:e15233  
**DOI: 10.7717/peerj.15233**

MUFEETH, M.M.M., MUBARAK, A.N.M. & KUMARA, A.D.N.T. (2023). *Determination of the Best Performing Sri Lankan Maize Accessions Based on the Photosynthetic, Biomass and Yield Traits*. *Tropical Agricult Res.* 34(3):227-236.  
**DOI: 10.4038/tar.v34i3.8648**

MUSTAFA, A., HOLATKO, J., HAMMERSCHMIEDT, T. ET AL. (2023). *The Role of Biochar Co-Pyrolyzed with Sawdust and Zeolite on Soil Microbiological and Physicochemical Attributes, Crop Agronomic, and Ecophysiological Performance*. *J Soil Sci Plant Nutr* 23, 4899–4911.  
**DOI: 10.1007/s42729-023-01428-8**

OGRODOWICZ P., KUCZYŃSKA A., KRAJEWSKI P. ET AL. (2023). *The effects of heading time on yield performance and HvGAMYB expression in spring barley subjected to drought*. *J Appl Genetics* 64, 289–302 (2023).  
**DOI: 10.1007/s13353-023-00755-x**

OGRODOWICZ, P., WOJCIECHOWICZ, M.K., KUCZYŃSKA, A., KRAJEWSKI, P., & KEMPA, M. (2023). *The Effects of Growth Modification on Pollen Development in Spring Barley (*Hordeum vulgare L.*) Genotypes with Contrasting Drought Tolerance*. *Cells*, 12, 1656.  
**DOI: 10.20944/preprints202304.0371.v1**

OUNOKI, R., SÓTI, A., ÜNNEP, R., SIPKA, G., SÁRVÁRI, É., ET AL. (2023). *Etioplasts are more susceptible to salinity stress than chloroplasts and photosynthetically active etio-chloroplasts of wheat (*Triticum aestivum L.*)*. *Physiologia Plantarum*. , 175:e14100.  
**DOI: 10.1111/ppl.14100**

PAOLACCI S., JANSEN M. A. K., STEJSKAL V., ET AL. (2023). *Metabolically active angiosperms survive passage through the digestive tract of a large-bodied waterbird*R. *Soc. open sci.*10230090230090  
**DOI: 10.1098/rsos.230090**

PAPAIOANNOU, E., GASPARATOS, D., STEFANOU, S. ET AL. (2023). *Effect of Soil Mixtures Based on a Gneiss-Derived Soil and Two Forest Floor Types on Growth and Nutritional Status of *Castanea sativa* Mill. Seedlings*. *J Soil Sci Plant Nutr* 23, 1339–1350.  
**DOI: 10.1007/s42729-023-01124-7**

PARADISO, R., DI MOLA, I., CONTI, S., OTTAIANO, L., COZZOLINO, E., ET AL. (2023). *Photosynthesis, Yield and Quality in Wild Rocket (*Diplotaxis tenuifolia* L.) under Photoluminescent Greenhouse Covers*. *Agronomy*, 13, 2372.  
**DOI: 10.3390/agronomy13092372**

PARK B-M., JEONG H-B., YANG E-Y., ET AL. (2023). *Differential Responses of Cherry Tomatoes (*Solanum lycopersicum*) to Long-Term Heat Stress*. *Horticulturae*. 9(3):343.

DOI: [10.3390/horticulturae9030343](https://doi.org/10.3390/horticulturae9030343)

PARK, S.H., LEE, J.H., & NAM, S.Y. (2023). An Analysis of the Growth and Photosynthetic Responses of Potted *Veronica pusanensis* Y.N.Lee according to the Shading Levels. *J People Plants Environ*, 26(3):219-231.

DOI: [10.11628/ksppe.2023.26.3.219](https://doi.org/10.11628/ksppe.2023.26.3.219)

PARK S.Y., JEONG D-H. (2023). Comprehensive Analysis of Rice Seedling Transcriptome during Dehydration and Rehydration. *International Journal of Molecular Sciences*. 2023; 24(9):8439.

DOI: [10.3390/ijms24098439](https://doi.org/10.3390/ijms24098439)

PASCUAL L.S., LÓPEZ-CLIMENT M.F., SEGARRA-MEDINA C., ET AL. (2023). Exogenous spermine alleviates the negative effects of combined salinity and paraquat in tomato plants by decreasing stress-induced oxidative damage. *Front Plant Sci*. 2023 May 9;14:1193207.

DOI: [10.3389/fpls.2023.1193207](https://doi.org/10.3389/fpls.2023.1193207).

PASCUAL, L.S., MITTLER, R., SINHA, R., PELÁEZ-VICO, M.Á., LÓPEZ-CLIMENT, M.F., ET AL. (2023). Jasmonic acid is required for tomato acclimation to multifactorial stress combination. *Environ Exp Botany*, 213, 105425.

DOI: [10.1016/j.envexpbot.2023.105425](https://doi.org/10.1016/j.envexpbot.2023.105425)

PÉREZ-ROMERO, J.A., BARCIA-PIEDRAS, J-M., REDONDO-GÓMEZ, S., & MATEOS-NARANJO, E. (2023). *Sarcocornia fruticosa* recovery capacity after exposure to co-existed water and salinity stress. *Plant Stress*, 8, 100162.

DOI: [10.1016/j.stress.2023.100162](https://doi.org/10.1016/j.stress.2023.100162)

PETTINELLI, S., BUZZI, L., CECCANTONI, B. ET AL. (2023). Is there any influence of biodynamic preparation 501 on the physiological activity of grape leaves cv. Cesanese d'Affile?. *Chem. Biol. Technol. Agric.* 10, 114.

DOI: [10.1186/s40538-023-00492-7](https://doi.org/10.1186/s40538-023-00492-7)

PILARSKA, M., NIEWIADOMSKA, E. & KRUK, J. (2023). Salinity-induced changes in plastoquinone pool redox state in halophytic *Mesembryanthemum crystallinum* L.. *Sci Rep* 13, 11160.

DOI: [10.1038/s41598-023-38194-7](https://doi.org/10.1038/s41598-023-38194-7)

POLLICELLI, M.D.L.P., MÁRKQUEZ, F., POLLICELLI, M.D. & IDASZKIN, Y.L. (2023). Screening of tolerance of *Atriplex vulgarissima* under zinc or lead experimental conditions. An integrative perspective by using the integrated biological response index (IBRv2). *Chemosphere*, 341, 140110.

DOI: [10.1016/j.chemosphere.2023.140110](https://doi.org/10.1016/j.chemosphere.2023.140110)

PRADAWET C., KHONGDEE N., PANSAK W., ET AL. (2023). Thermal imaging for assessment of maize water stress and yield prediction under drought conditions. *Journal of Agronomy and Crop Science*, 209, 56–70.

DOI: [10.1111/jac.12582](https://doi.org/10.1111/jac.12582)

RAMEZANI, M., THOMPSON, D., MORENO, M., & JOSHI, V. (2023). Biochemical repercussions of light spectra on nitrogen metabolism in spinach (*Spinacia oleracea*) under a controlled environment. *Front Plant Sci*, 14: 1283730.

DOI: [10.3389/fpls.2023.1283730](https://doi.org/10.3389/fpls.2023.1283730)

RANTALA, M., MULO, P., TYYSTÄRVI, E. & MATTILA, H. (2023). Biophysical and molecular characteristics of senescing leaves of two Norway maple varieties differing in anthocyanin content. *Physiologia Plantarum*, 175:e13999.

DOI: [10.1111/ppl.13999](https://doi.org/10.1111/ppl.13999)

RASHID, M., SHAH, K.H., NOREEN, S., AKHTAR, M.S. ET AL. (2023). *Chlorophyll a Fluorescence: an effective tool for quick screening of salinity tolerance in Pearl Millet (*Pennisetum glaucum L.*). Research Square.*

DOI: [10.21203/rs.3.rs-3269889/v1](https://doi.org/10.21203/rs.3.rs-3269889/v1)

REN, M., LIU, S., TANG, C., MAO, G., GAI, P., ET AL. (2023). *Photomorphogenesis and Photosynthetic Traits Changes in Rice Seedlings Responding to Red and Blue Light. Int. J. Mol. Sci., 24, 11333.*

DOI: [10.3390/ijms241411333](https://doi.org/10.3390/ijms241411333)

REN M., MAO G., ZHENG H. ET AL. (2023). *Growth changes of tomato seedlings responding to sodium salt of α-naphthalene acetic acid and potassium salt of fulvic acid. Sci Rep 13, 4024.*

DOI: [10.1038/s41598-023-31023-x](https://doi.org/10.1038/s41598-023-31023-x)

RIBEIRO, V.C., MARTINS-SOUZA, M., ANTEZANA-VERA, S., & MARENCO, R.A. (2023). *Does Ceiba pentandra (Malvaceae) a light demanding species succumb under deep shading? Scientia Forestalis, 51, e4005.*

DOI: [10.18671/scifor.v51.25](https://doi.org/10.18671/scifor.v51.25)

RICO-CAMBRON, T.Y., BELLO-BELLO, E., MARTÍNEZ, O. ET AL. (2023). *A non-invasive method to predict drought survival in Arabidopsis using quantum yield under light conditions. Plant Methods 19, 127.*

DOI: [10.1186/s13007-023-01107-w](https://doi.org/10.1186/s13007-023-01107-w)

ROH, Y.S., YOO, Y.K. (2023). *Light quality of light emitting diodes affects growth, chlorophyll fluorescence and phytohormones of Tulip 'Lasergame'. Hortic. Environ. Biotechnol. 64, 245–255.*

DOI: [10.1007/s13580-022-00481-z](https://doi.org/10.1007/s13580-022-00481-z)

ROMERO-MUNAR A., AROCA R., ZAMARREÑO A.M., ET AL. (2023). *Dual Inoculation with Rhizophagus irregularis and Bacillus megaterium Improves Maize Tolerance to Combined Drought and High Temperature Stress by Enhancing Root Hydraulics, Photosynthesis and Hormonal Responses. International Journal of Molecular Sciences. 2023; 24(6):5193.*

DOI: [10.3390/ijms24065193](https://doi.org/10.3390/ijms24065193)

RUBINOVICH, L., SOFER-ARAD, C., & CHERNOVANOV, S. (2023). *Effects of Covering Mature Avocado 'Pinkerton' Trees with High-density Shading Nets during Cold Winters on Microclimate, Chlorophyll Fluorescence, Flowering, and Yield. Hort Sci 58(10):1201-1204.*

DOI: [10.21273/HORTSCI17337-23](https://doi.org/10.21273/HORTSCI17337-23)

SAEEDI, S.A., VAHDATI, K., SARIKHANI, S., DAYLAMI, S.D., DAVARZANI, M., ET AL. (2023). *Growth, photosynthetic function, and stomatal characteristics of Persian walnut explants in vitro under different light spektra. Front Plant Sci, 14: 1292045.*

DOI: [10.3389/fpls.2023.1292045](https://doi.org/10.3389/fpls.2023.1292045)

SAMMARCO, I., MÜNZBERGOVÁ, Z. & LATZEL, V. (2023). *Response of Fragaria vesca to projected change in temperature, water availability and concentration of CO<sub>2</sub> in the atmosphere. Sci Rep 13, 10678.*

DOI: [10.1038/s41598-023-37901-8](https://doi.org/10.1038/s41598-023-37901-8)

SCHNEIDER, J.R., DE BONA, A.C., MÜLLER, M., & CHAVARRIA, G. (2023). *Mancozeb associated with water deficit: Physiological and biochemical responses of soybean plants. Plant Stress, 10, 100284.*

DOI: [10.1016/j.stress.2023.100284](https://doi.org/10.1016/j.stress.2023.100284)

*SEGARRA-MEDINA, C., ALSEEKH, S., FERNIE, A.R., RAMBLA, J.L., PÉREZ-CLEMENTE, R.M., ET AL. (2023). Abscisic acid promotes plant acclimation to the combination of salinity and high light stress. Plant Physiol Biochem, 203, 108008.*

**DOI: 10.1016/j.plaphy.2023.108008**

*SEGARRA-MEDINA, C., PASCUAL, L.S., ALSEEKH, S. ET AL. (2023). Comparison of metabolomic reconfiguration between Columbia and Landsberg ecotypes subjected to the combination of high salinity and increased irradiance. BMC Plant Biol 23, 406.*

**DOI: 10.1186/s12870-023-04404-7**

*SEMENOVA, N.A., PROSHKIN, Y.A., SMIRNOV, A.A., DOROKHOV, A.S., IVANITSKIKH, A.S., ET AL. (2023). The Influence of the Spectral Composition and Light Intensity on the Morphological and Biochemical Parameters of Spinach (*Spinacia oleracea L.*) in Vertical Farming. Horticulturae, 9, 1130.*

**DOI: 10.3390/HORTICULTURAE9101130**

*SINGH, M., SINGH, P., SHWETA, S., & PRASAD, S.M. (2023). Nitrogen Ameliorates NaCl Toxicity in Eggplant Seedlings: Role of Hydrogen Sulfide and Sulphur Metabolic Signaling. SSRN, 4613617.*

**DOI: /10.2139/ssrn.4613617**

*SINGH, H., AGRAWAL, S.B., AGRAWAL, M., & BERK, U. (2023). Comparative evaluation of dynamic photosynthetic performance of plants by chlorophyll fluorescence related parameters in and outside of Agnihotra atmosphere. International J Plant Environ, 9(4), 333-342.*

**DOI: 10.18811/ijpen.v9i04.05**

*SINGH P., SINGH M., SINGH S.K. ET AL. (2023). Application of soil amendments mitigates phytotoxic effects on *Solanum melongena L.* and *Lycopersicon esculentum L.* seedlings exposed to chlorpyrifos and dimethoate pesticides. Environ Sci Pollut Res 30, 59891–59908.*

**DOI: 10.1007/s11356-023-26696-w**

*SKARPA P., JANCAR J., LEPCIO P., ET AL. (2023). Effect of fertilizers enriched with bio-based carriers on selected growth parameters, grain yield and grain quality of maize (*Zea mays L.*). European Journal of Agronomy, 143, 126714.*

**DOI: 10.1016/j.eja.2022.126714**

*SOARES, M.D.A., CHARLO, H.C.D.O., CARVALHO, M., PAIVA, P.E.B., & COELHO, V.P.D.M. (2023). Biostimulants increase the yield of greenhouse-grown tomato plants in summer under a tropical climate. Rev. Caatinga, Mossoró, 36(1), 96 – 105.*

**DOI: 10.1590/1983-21252023v36n111rc**

*SOLTANI S., AROUIEE H., SALEHI R., ET AL. (2023). Morphological, Phytochemical, and Photosynthetic Performance of Grafted Tomato Seedlings in Response to Different LED Light Qualities under Protected Cultivation. Horticulturae. 9(4):471.*

**DOI: 10.3390/horticulturae9040471**

*SONG, J., YANG, J., & JEONG, B.R. (2023). Growth and Photosynthetic Responses to Increased LED Light Intensity in Korean Ginseng (*Panax ginseng C.A. Meyer*) Sprouts. Agronomy 2023, 13, 2375.*

**DOI: 10.3390/AGRONOMY13092375**

SÓTI, A., OUNOKI, R., KÓSA, A. ET AL. (2023). Ionic, not the osmotic component, is responsible for the salinity-induced inhibition of greening in etiolated wheat (*Triticum aestivum L. cv. Mv Béres*) leaves: a comparative study. *Planta* 258, 102.

DOI: [10.1007/s00425-023-04255-4](https://doi.org/10.1007/s00425-023-04255-4)

SOUALIOU, S., DUAN, F., LI, X., & ZHOU, W. (2023). Nitrogen supply alleviates cold stress by increasing photosynthesis and nitrogen assimilation in maize seedlings. *J Exp Botany*, 74(10), 3142-3162.

DOI: [10.1093/jxb/erad073](https://doi.org/10.1093/jxb/erad073)

SUKHOVA, E., ZOLIN, Y., POPOVA, A., YUDINA, L., & SUKHOV, V. The Influence of Soil Salt Stress on Modified Photochemical Reflectance Indices in Pea Plants. *Remote Sens.* 2023, 15, 3772.

DOI: [10.3390/rs15153772](https://doi.org/10.3390/rs15153772)

SUNDYREVA, M.A., YANIKIN, D.V., KHISTIN, M.S., GRYAZNOVA, U.V., LUTSKIY, E.O., ET AL. (2023). Possible Contribution of Corticular Photosynthesis to Grapevine Winter Hardiness. *Horticulturae*, 9(11), 1181.

DOI: [10.3390/horticulturae9111181](https://doi.org/10.3390/horticulturae9111181)

SZÉKELY, Á., SZALÓKI, T., JÁNCSÓ, M., PAUK, J., & LANTOS, C. (2023). Temporal Changes of Leaf Spectral Properties and Rapid Chlorophyll—A Fluorescence under Natural Cold Stress in Rice Seedlings. *Plants* 12(13), 2415.

DOI: [10.3390/plants12132415](https://doi.org/10.3390/plants12132415)

TENE T.M., SARI H., CANCI H., ET AL. (2023). Traits Related to Heat Stress in Phaseolus Species. *Agriculture*. 13(5):953.

DOI: [10.3390/agriculture13050953](https://doi.org/10.3390/agriculture13050953)

TING, T-C., SOUZA, A.C.M., IMEL, R.K., GUADAGNO, C.R., HOAGLAND, C., ET AL. (2023). Quantifying physiological trait variation with automated hyperspectral imaging in rice. *Front Plant Sci*, 14:1229161.

DOI: [10.3389/fpls.2023.1229161](https://doi.org/10.3389/fpls.2023.1229161)

TORRES, E., & ASÍN, L. (2023). Physiological Study of Ethephon- and ACC-Induced Fruitlet and Leaf Abscission in Peach Trees Under Different Conditions of Temperature. *J Plant Growth Regul* 42, 4253–4262.

DOI: [10.1007/s00344-022-10888-8](https://doi.org/10.1007/s00344-022-10888-8)

TSOUMALAKOU E., MENTE E., VLAHOS N., ET AL. (2023). Spinach Responds to Minimal Nutrient Supplementation in Aquaponics by Up-Regulating Light Use Efficiency, Photochemistry, and Carboxylation. *Horticulturae*. 291.

DOI: [10.3390/horticulturae9030291](https://doi.org/10.3390/horticulturae9030291)

TSOUMALAKOU E., MENTE E., VLAHOS N., LEVIZOU E. (2023). Cultivating the Mediterranean Wild Edible Species *Cichorium spinosum L.* in Aquaponics: Functional and Growth Responses to Minimal Nutrient Supplementation. *Sustainability*. 15(6):5572.

DOI: [10.3390/su15065572](https://doi.org/10.3390/su15065572)

VALLET, A., MARTIN-LAFFON, J., FAVIER, A., REVEL, B., BONNOT, T., ET AL. (2023). The plasma membrane-associated cation-binding protein PCaP1 of *Arabidopsis thaliana* is a uranyl-binding protein. *J Hazard Mat*, 446, 130668.

DOI: [10.1016/j.jhazmat.2022.130668](https://doi.org/10.1016/j.jhazmat.2022.130668)

VÁZQUEZ-ROMERO, B., VILLAR-NAVARO, E., PERALES, J.A., & RUIZ, J. (2023). Profitability of Using Microalgae to Treat Effluents from Fish Ras Farming and Replace Fish Meal: A Case Study. *SSRN*, 4366476.

DOI: [10.2139/ssrn.4366476](https://doi.org/10.2139/ssrn.4366476)

VATANKHAH A., ALINIAEIFARD S., MOOSAVI-NEZHAD M. ET AL. (2023). Plants exposed to titanium dioxide nanoparticles acquired contrasting photosynthetic and morphological strategies depending on the growing light intensity: a case study in radish. *Sci Rep* 13, 5873.

**DOI:** [10.1038/s41598-023-32466-y](https://doi.org/10.1038/s41598-023-32466-y)

VEGA C. CHI C-J E., FERNÁNDEZ V., BURKHARDT J. (2023). Nocturnal Transpiration May Be Associated with Foliar Nutrient Uptake. *Plants*. 12(3):531.

**DOI:** [10.3390/plants12030531](https://doi.org/10.3390/plants12030531)

VENTURA ZAPATA, E., BRITO URIBE, G., SÁNCHEZ RIVERA, M.M., NAVA JUÁREZ, R.A., MÉNDEZ TINAJERO, M., ET AL. (2023). Effect of level of PFD on photosynthetic parameters and production of steviol glycosides by hydroponic culture from stevia rebaudiana bertoni. *Int J Agricul Environ Res*, 9(3).

**DOI:** [10.51193/IJAER.2023.9309](https://doi.org/10.51193/IJAER.2023.9309)

VIRLET, N., PENNACCHI, J.P., SADEGHI-TEHRAN, P., ASHFIELD, T., ORR, D.J., ET AL. (2023). A multiscale approach to investigate fluorescence and NDVI imaging as proxy of photosynthetic traits in wheat. *bioRxiv* 2023.11.10.566533.

**DOI:** [10.1101/2023.11.10.566533](https://doi.org/10.1101/2023.11.10.566533)

VIVES-PERIS, V., LÓPEZ-CLIMENT, M.F., MOLINER-SABATER, M., GÓMEZ-CADENAS, A., & PÉREZ-CLEMENTE, R.M. (2023). Morphological, physiological, and molecular scion traits are determinant for salt-stress tolerance of grafted citrus plants. *Front Plant Sci*, 14:1145625.

**DOI:** [10.3389/fpls.2023.1145625](https://doi.org/10.3389/fpls.2023.1145625)

WALA, M., KOŁODZIEJEK, J., MAZUR, J., & PATYKOWSKI, J. (2023). Experimental investigation of the responses of meadow buttercup (*Ranunculus acris* L.) to sodic salinity and its implications for habitat monitoring. *Sci Rep* 13, 15611.

**DOI:** [10.1038/s41598-023-42738-2](https://doi.org/10.1038/s41598-023-42738-2)

WANG, N., YANG, P., CLEVERS, J.G.P.W., WIENEKE, S., & KOOISTRA, L. (2023). Decoupling physiological and non-physiological responses of sugar beet to water stress from sun-induced chlorophyll fluorescence. *Remote Sensing of Environ*, 286, 113445.

**DOI:** [10.1016/j.rse.2022.113445](https://doi.org/10.1016/j.rse.2022.113445)

WANG, Y., ZHOU, Y., YE, J., JIN, C., & HU, Y. (2023). Continuous Cropping Inhibits Photosynthesis of *Polygonatum odoratum*. *Plants*, 12, 3374.

**DOI:** [10.3390/plants12193374](https://doi.org/10.3390/plants12193374)

WENG H., WU M., LI X., ET AL. (2023). High-throughput phenotyping salt tolerance in JUNCAOs by combining prompt chlorophyll a fluorescence with hyperspectral spectroscopy. *Plant Science*, 330, 111660.

**DOI:** [10.1016/j.plantsci.2023.111660](https://doi.org/10.1016/j.plantsci.2023.111660)

XIA Q., TANG H., FU, L., TAN J., & GUO Y. (2023). A drought stress-sensing technique based on wavelet entropy of chlorophyll fluorescence excited with pseudo-random binary sequence. *Computers and Electronics in Agriculture*, 210, 107933.

**DOI:** [10.1016/j.compag.2023.107933](https://doi.org/10.1016/j.compag.2023.107933)

XIA Q., TANG H., FU, L., TAN J., & GOVINDJEE, G., ET AL. (2023). Determination of Fv/Fm from Chlorophyll a

*Fluorescence without Dark Adaptation by an LSSVM Model. Plant Phenomics, 5:0034.*

**DOI: 10.34133/plantphenomics.0034**

*YANG, N., LI, Z., WU, Z., LIU, X., ZHANG, Y., ET AL. (2023). Differential effects of nitrate and ammonium on the growth of algae and microcystin production by nitrogen-fixing *Nostoc* sp. and non-nitrogen-fixing *Microcystis aeruginosa*. Water Sci Technol, 88 (1): 136–150.*

**DOI: 10.2166/wst.2023.205**

*YASEMIN S., KOKSAL N. (2023). Comparative Analysis of Morphological, Physiological, Anatomic and Biochemical Responses in Relatively Sensitive *Zinnia elegans* 'Zinnita Scarlet' and Relatively Tolerant *Zinnia marylandica* 'Double Zahara Fire Improved' under Saline Conditions. Horticulturae. 9(2):247.*

**DOI: 10.3390/horticulturae9020247**

*ZARRAONAINdia, I., CRETAZZO, E., MENA-PETITE, A., DÍEZ-NAVAJAS, A., PÉREZ-LOPÉZ, U., ET AL. (2023). Holistic understanding of the response of grapevines to foliar application of seaweed extracts. Front Plant Sci, 14:1119854.*

**DOI: 10.3389/fpls.2023.1119854**

*ZHANG, B., ZHANG, H., LU, D., CHENG, L. & LI, J. (2023). Effects of biofertilizers on the growth, leaf physiological indices and chlorophyll fluorescence response of spinach seedlings. PLoS ONE 18(12):e0294349.*

**DOI: 10.1371/journal.pone.0294349**

*ZHANG, X., CHENG, S., GAO, Z., CUI, Y., YAO, Q., ET AL. (2023). Transcriptomics and physiological analyses unveil the distinct mechanisms of ATP and glucose-6-phosphate utilization in *Phaeodactylum tricornutum*. Front Mar Sci, 10:1163189.*

**DOI: 10.3389/fmars.2023.1163189**

## 2022

*ALVAREZ-MOREZUELAS A., BARANDALLA L., RITTER E., ET AL. (2022). Physiological response and yield components under greenhouse drought stress conditions in potato. Journal of Plant Physiology, 278, 153790.*

**DOI: 10.1016/j.jplph.2022.153790**

*AMARAL G.C., PEZZOPANE J.E.M., DE SOUZA NÓIA JÚNIOR, R. ET AL. (2022). *Pilocarpus microphyllus* seedling growth threatened by climate change: an ecophysiological approach. Theor Appl Climatol 147, 347–361.*

**DOI: 10.1007/s00704-021-03831-6**

*ASHROSTAGHI T., ALINIAEIFARD S., SHOMALI A., ET AL. (2022). Light Intensity: The Role Player in Cucumber Response to Cold Stress. Agronomy. 2022; 12(1):201.*

**DOI: 10.3390/agronomy12010201**

*AYYAZ, A., FANG, R., MA, J., ET AL. (2022). Calcium nanoparticles (Ca-NPs) improve drought stress tolerance in *Brassica napus* by modulating the photosystem II, nutrient acquisition and antioxidant performance. NanolImpact, 28, 100423.*

**DOI: 10.1016/j.impact.2022.100423**

*BALDASSI A.C., BALBUENA T.S. (2022) The *Eucalyptus grandis* chloroplast proteome: Seasonal variations in leaf development. PLoS ONE 17(9): e0265134.*

**DOI:** [10.1371/journal.pone.0265134](https://doi.org/10.1371/journal.pone.0265134)

BALFAGÓN D., ZANDALINAS S.I., DOS REIS DE OLIVEIRA T., ET AL. (2022) *Reduction of heat stress pressure and activation of photosystem II repairing system are crucial for citrus tolerance to multiple abiotic stress combination*. *Physiologia Plantarum*, 174( 6), e13809.

**DOI:** [10.1111/ppl.13809](https://doi.org/10.1111/ppl.13809)

BAUER N., TKALEC M., MAJOR N., ET AL. (2022). *Mechanisms of Kale (*Brassica oleracea* var. *acephala*) Tolerance to Individual and Combined Stresses of Drought and Elevated Temperature*. *International Journal of Molecular Sciences*. 23(19):11494.

**DOI:** [10.3390/ijms231911494](https://doi.org/10.3390/ijms231911494)

BEN MASSOUD M., KHARBECH O., MAHJOUBI Y. ET AL. (2022). *Effect of Exogenous Treatment with Nitric Oxide (NO) on Redox Homeostasis in Barley Seedlings (*Hordeum vulgare* L.) Under Copper Stress*. *J Soil Sci Plant Nutr* 22, 1604–1617.

**DOI:** [10.1007/s42729-021-00757-w](https://doi.org/10.1007/s42729-021-00757-w)

BRUNORI E., BERNARDINI A., MORESI F.V., ET AL. (2022). *Ecophysiological Response of *Vitis vinifera* L. in an Urban Agrosystem: Preliminary Assessment of Genetic Variability*. *Plants*. 11(22):3026.

**DOI:** [10.3390/plants11223026](https://doi.org/10.3390/plants11223026)

CAO M., ZHENG L., LI J., ET AL. (2022) *Transcriptomic profiling suggests candidate molecular responses to waterlogging in cassava*. *PLoS ONE* 17(1): e0261086.

**DOI:** [10.1371/journal.pone.0261086](https://doi.org/10.1371/journal.pone.0261086)

CARNEIRO M., MAIA I. B., CUNHA P., ET AL. (2022). *Effects of LED lighting on *Nannochloropsis oceanica* grown in outdoor raceway ponds*. *Algal Research*, 64, 102685.

**DOI:** [10.1016/j.algal.2022.102685](https://doi.org/10.1016/j.algal.2022.102685)

CHEKANOV K., SHIBZUKHOVA K., LOBAKOVA E., SOLOVCHENKO A. (2022). *Differential Responses to UV-A Stress Recorded in Carotenogenic Microalgae *Haematococcus rubicundus*, *Bracteacoccus aggregatus*, and *Deasonia* sp.* *Plants*. 11(11):1431.

**DOI:** [10.3390/plants11111431](https://doi.org/10.3390/plants11111431)

CHENG X., CHEN C., HU Y., ET AL. (2022). *Response of *Amaranthus tricolor* to cesium stress in hydroponic system: Growth, photosynthesis and cesium accumulation*. *Chemosphere*, 307, 135754.

**DOI:** [10.1016/j.chemosphere.2022.135754](https://doi.org/10.1016/j.chemosphere.2022.135754)

CHENG X., CHEN C., HU Y., ET AL. (2022). *Photosynthesis and growth of *Amaranthus tricolor* under strontium stress*. *Chemosphere*, 308, 136234.

**DOI:** [10.1016/j.chemosphere.2022.136234](https://doi.org/10.1016/j.chemosphere.2022.136234)

CORCOBADO T., MILENKOVIC I., SAIZ-FERNÁNDEZ I., ET AL. (2022). *Metabolomic and Physiological Changes in *Fagus sylvatica* Seedlings Infected with *Phytophthora plurivora* and the A1 and A2 Mating Types of *P. ×cambivora**. *Journal of Fungi*. 8(3):298.

**DOI:** [10.3390/jof8030298](https://doi.org/10.3390/jof8030298)

CUSTODIO A.M., DE MENEZES SILVA P.E., SANTOS T.R., ET AL. (2022). *Seasonal Variation in Physiological Traits of Amazonian Coffea canephora Genotypes in Cultivation Systems with Contrasting Water Availability*. *Agronomy*. 12(12):3197.

**DOI:** [10.3390/agronomy12123197](https://doi.org/10.3390/agronomy12123197)

DAVIS A.R., HULTINE K.R., SALA O.E. ET AL. (2022). *Seedling responses to soil moisture amount versus pulse frequency in a successfully encroaching semi-arid shrub*. *Oecologia* 199, 441–451.

**DOI:** [10.1007/s00442-022-05193-w](https://doi.org/10.1007/s00442-022-05193-w)

DE MICCO V, ARENA C, AMITRANO C, ET AL. (2022). *Changes in Morpho-Anatomical and Eco-Physiological Responses of Viburnum tinus L. var lucidum as Modulated by Sodium Chloride and Calcium Chloride Salinization*. *Horticulturae*. 8(2):119.

**DOI:** [10.3390/horticulturae8020119](https://doi.org/10.3390/horticulturae8020119)

DELEJA M.; PAULA J.R.; REPOLHO T.; FRANZITTA M., ET AL. (2022). *Effects of Hypoxia on Coral Photobiology and Oxidative Stress*. *Biology* 11, 1068.

**DOI:** [10.3390/biology11071068](https://doi.org/10.3390/biology11071068)

DLOUHÝ O., KARLICKÝ V., JAVORNIK U., ET AL. (2022). *Structural Entities Associated with Different Lipid Phases of Plant Thylakoid Membranes—Selective Susceptibilities to Different Lipases and Proteases*. *Cells*. 11(17):2681.

**DOI:** [10.3390/cells11172681](https://doi.org/10.3390/cells11172681)

DUAN Z., TAN X. AND ZENG Q. (2022). *Key physiological traits and chemical properties of extracellular polymeric substances determining colony formation in a cyanobacterium*. *J. Ocean. Limnol.* 40, 1720–1731 (2022).

**DOI:** [10.1007/s00343-022-1353-5](https://doi.org/10.1007/s00343-022-1353-5)

EL-SHEHAWI A.M., ARSHI M.J.B., ELSEEHY M.M. ET AL. (2022). *Sugarcane bagasse acts as a metal absorber in the rhizosphere in mitigating arsenic toxicity in wheat*. *Rend. Fis. Acc. Lincei* **33**, 603–612.

**DOI:** [10.1007/s12210-022-01074-9](https://doi.org/10.1007/s12210-022-01074-9)

ESMAEILI S., ALINIAEIFARD S., DIANATI DAYLAMI S. ET AL. (2022). *Elevated light intensity compensates for nitrogen deficiency during chrysanthemum growth by improving water and nitrogen use efficiency*. *Sci Rep* 12, 10002.

**DOI:** [10.1038/s41598-022-14163-4](https://doi.org/10.1038/s41598-022-14163-4)

GHIASI NOEI F., IMAMI M., DIDARAN F., ET AL. (2022). 'Stb6 mediates stomatal immunity, photosynthetic functionality, and the antioxidant system during the Zymoseptoria tritici-wheat interaction', *Frontiers in Plant Science*, vol. 13, 1004691.

**DOI:** [10.3389/fpls.2022.1004691](https://doi.org/10.3389/fpls.2022.1004691)

GUPTA D. AND PRASAD S.M. (2022). *5-aminolevulinic acid (ALA) regulates photosynthetic performance and nitrogen metabolism status in UV-B challenged Cajanus cajan L. seedlings*. *J. Plant Biochem. Biotechnol.* 31, 250–270.

**DOI:** [10.1007/s13562-021-00672-2](https://doi.org/10.1007/s13562-021-00672-2)

HAQUE A. M., RAHMAN M. A., DAS U., ET AL. (2022). *Changes in physiological responses and MTP (metal tolerance protein) transcripts in soybean (*Glycine max*) exposed to differential iron availability*. *Plant Physiology and Biochemistry*, 179, 1-9.

**DOI:** [10.1016/j.plaphy.2022.03.007](https://doi.org/10.1016/j.plaphy.2022.03.007)

HE, Z., DONG, L., ZHANG, K., ET AL. (2022). *Lactic acid bacteria induce phosphate recrystallization for the in situ remediation of uranium-contaminated topsoil: Principle and application*. *Environmental Pollution*, 314, 120277.

**DOI:** [10.1016/j.envpol.2022.120277](https://doi.org/10.1016/j.envpol.2022.120277)

HUSSAIN N., SOHAIL Y., SHAKEEL N. ET AL. (2022). *Role of mineral nutrients, antioxidants, osmotic adjustment and PSII stability in salt tolerance of contrasting wheat genotypes*. *Sci Rep* 12, 12677.

**DOI:** [10.1038/s41598-022-16922-9](https://doi.org/10.1038/s41598-022-16922-9)

HUSSAIN S., HASSAN A., ARSHAD P. ET AL. (2022). *Different sources of irrigation water affect heavy metal accumulation in soils and some properties of guava fruits*. *Environ Sci Pollut Res* 29, 35986–35995.

**DOI:** [10.1007/s11356-021-18128-4](https://doi.org/10.1007/s11356-021-18128-4)

HWANG H. S., JEONG H. W., JO H. G., KANG J. H., & HWANG S. J. (2022). *Rooting and growth characteristics of 'Maehyang' strawberry cutting transplants affected by different growing media including decomposed granite*. *Rhizosphere*, 22, 100520.

**DOI:** [10.1016/j.rhisph.2022.100520](https://doi.org/10.1016/j.rhisph.2022.100520)

ISLAM M.J., RYU B.R., RAHMAN M.H., RANA M.S., ET AL. (2022) *Cannabinoid accumulation in hemp depends on ROS generation and interlinked with morphophysiological acclimation and plasticity under indoor LED environment*. *Front. Plant Sci.* 13:984410.

**DOI:** [10.3389/fpls.2022.984410](https://doi.org/10.3389/fpls.2022.984410)

ISLAM M.J., UDDIN M.J., HOSSAIN M.A., ET AL. (2022) *Exogenous putrescine attenuates the negative impact of drought stress by modulating physio-biochemical traits and gene expression in sugar beet (*Beta vulgaris* L.)*. *PLoS ONE* 17(1): e0262099.

**DOI:** [10.1371/journal.pone.0262099](https://doi.org/10.1371/journal.pone.0262099)

JANG Y-H., PARK J-R., KIM E-G., ET AL. (2022). *OsbHLHq11, the Basic Helix-Loop-Helix Transcription Factor, Involved in Regulation of Chlorophyll Content in Rice*. *Biology*. 11(7):1000.

**DOI:** [10.3390/biology11071000](https://doi.org/10.3390/biology11071000)

KANATAS P., ZAVRA S-M., TATARIDAS A., ET AL. (2022). *Pelargonic Acid and Caraway Essential Oil Efficacy on Barnyardgrass (*Echinochloa crus-galli* (L.) P.Beauv.) and Johnsongrass (*Sorghum halepense* (L.) Pers.)*. *Agronomy*. 12(8):1755.

**DOI:** [10.3390/agronomy12081755](https://doi.org/10.3390/agronomy12081755)

KASAMPALIS D.S., TSOUVALTZIS P., NTUROS K. ET AL. (2022), *Nutritional composition changes in bell pepper as affected by the ripening stage of fruits at harvest or postharvest storage and assessed non-destructively*. *J Sci Food Agric*, 102: 445-454.

**DOI:** [10.1002/jsfa.11375](https://doi.org/10.1002/jsfa.11375)

KIM K.H., SHAWON M.R.A, AN J.H., ET AL. (2022). *Effect of Shade Screen on Sap Flow, Chlorophyll Fluorescence, NDVI, Plant Growth and Fruit Characteristics of Cultivated Paprika in Greenhouse*. *Agriculture*. 2022; 12(9):1405.

**DOI:** [10.3390/agriculture12091405](https://doi.org/10.3390/agriculture12091405)

KORDYUM E.; POLISHCHUK O.; AKIMOV Y. ET AL. (2022). *Photosynthetic Apparatus of Hydrocharis morsus-ranae in Different Solar Lighting*. *Plants*. 11, 2658.

**DOI: 10.3390/plants11192658**

KORDYUM E., POLISHCHUK O., AKIMOV Y., ET AL. (2022). Photosynthetic Apparatus of *Hydrocharis morsus-ranae* in Different Solar Lighting. *Plants*. 11(19):2658.

**DOI: 10.3390/plants11192658**

KOSOVÁ V., LATZEL V., HADINCOVÁ V. ET AL. (2022). Effect of DNA methylation, modified by 5-azaC, on ecophysiological responses of a clonal plant to changing climate. *Sci Rep* 12, 17262.

**DOI: 10.1038/s41598-022-22125-z**

LANG J., ZIKMUNDOVÁ B., HÁJEK J., BARTÁK M., VÁCZI P. (2022). The Effects of Foliar Application of Phenoxy and Imidazoline Family Herbicides on the Limitation of Primary Photosynthetic Processes in *Galega orientalis* L. *Agronomy*. 12(1):96.

**DOI: 10.3390/agronomy12010096**

LEE B., PHAM M.D., CUI M. ET AL. (2022). Growth and physiological responses of *Panax ginseng* seedlings as affected by light intensity and photoperiod. *Hortic. Environ. Biotechnol.* 63, 835–846.

**DOI: 10.1007/s13580-022-00448-0**

LEÓN-BURGOS A. F., UNIGARRO C., AND BALAGUERA-LÓPEZ H. E. (2022). Can prolonged conditions of water deficit alter photosynthetic performance and water relations of coffee plants in central-west Colombian? *South African Journal of Botany*, 149, 366-375.

**DOI: 10.1016/j.sajb.2022.06.034**

LIU L., LI H., LI N., ET AL. (2022). Parental salt priming improves the low temperature tolerance in wheat offspring via modulating the seed proteome. *Plant Science*, 324, 111428.

**DOI: 10.1016/j.plantsci.2022.111428**

MATTILA H. & TYYSTJÄRVI, E. (2022) Light-induced damage to photosystem II at a very low temperature (195 K) depends on singlet oxygen. *Physiologia Plantarum*, 174( 6), e13824. Available from:

**DOI: 10.1111/ppl.13824**

MAZIÈRE C., BODO M., PERDRAU M. A., ET AL. (2022). Climate change influences chlorophylls and bacteriochlorophylls metabolism in hypersaline microbial mat. *Science of The Total Environment*, 802, 149787.

**DOI: 10.1016/j.scitotenv.2021.149787**

McMILLAN, M., KALLENBACH, C. M., & WHALEN, J. K. (2022). Soybean abiotic stress tolerance is improved by beneficial rhizobacteria in biosolids-amended soil. *Applied Soil Ecology*, 174, 104425.

**DOI: 10.1016/j.apsoil.2022.104425**

MOHAMED M., SIDDIQUI M.N., OYIGA B.C., ET AL. (2022). Validation of a QTL on Chromosome 1DS Showing a Major Effect on Salt Tolerance in Winter Wheat. *International Journal of Molecular Sciences*. 23(22):13745.

**DOI: 10.3390/ijms232213745**

MOOSAVI-NEZHAD M., ALIBEIGI B., ESTAJI A., ET AL. (2022). Growth, Biomass Partitioning, and Photosynthetic Performance of Chrysanthemum Cuttings in Response to Different Light Spectra. *Plants*. 2022; 11(23):3337.

**DOI: 10.3390/plants11233337**

MORADI S., KAFI M., ALINIAEIFARD S., ET AL. (2022) Monochromatic blue light enhances crocin and picrocrocin content by upregulating the expression of underlying biosynthetic pathway genes in saron (*Crocus sativus L.*). *Front. Hortic.* 1:960423.

**doi: 10.3389/fhort.2022.960423**

MORENO-GARCÍA B., LÓPEZ-CALCAGNO P. E., RAINES CH. A., ET AL. (2022). Suppression of metabolite shuttles for export of chloroplast and mitochondrial ATP and NADPH increases the cytosolic NADH:NAD<sup>+</sup> ratio in tobacco leaves in the dark. *Journal of Plant Physiology*. Volume 268.

**DOI: 10.1016/j.jplph.2021.153578.**

MUSTAFA A., BRTNICKY M., HAMMERSCHMIEDT T., ET AL. (2022) Food and agricultural wastesderived biochars in combination with mineral fertilizer as sustainable soil amendments to enhance soil microbiological activity, nutrient cycling and crop production. *Front. Plant Sci.* 13:1028101.

**DOI: 10.3389/fpls.2022.1028101**

MUSTAFA A., HOLATKO J., HAMMERSCHMIEDT T., ET AL. (2022). Comparison of the Responses of Soil Enzymes, Microbial Respiration and Plant Growth Characteristics under the Application of Agricultural and Food Waste-Derived Biochars. *Agronomy*. 12(10):2428.

**DOI: 10.3390/agronomy12102428**

NAPOLITANO G., MOTTA C.M., AGNISOLA C., ET AL. (2022). Commercial Red Food Dyes Preparations Modulate the Oxidative State in Three Model Organisms (*Cucumis sativus*, *Artemia salina*, and *Danio rerio*). *Environments*. 9(5):63.

**DOI: 10.3390/environments9050063**

NUNES E. A., KIYOTA E., ANDRADE S. A. L. (2022). Cadmium Accumulation in a Tropicalized Lettuce Variety Under Overfertilization Simulation. *Clean – Soil, Air, Water* 50, 2100065.

**DOI: 10.1002/clen.202100065**

ORZOŁ A., GOŁĘBIAWSKI A., SZULTKA-MŁYŃSKA M., ET AL. (2022). ICP-MS Analysis of Cadmium Bioaccumulation and Its Effect on Pea Plants (*Pisum sativum L.*). *Polish Journal of Environmental Studies*. 2022;31(5):4779-4787.

**DOI:10.15244/pjoes/149259.**

PRAKASH, V., RAI, P., SHARMA, N. C., ET AL. (2022). Application of zinc oxide nanoparticles as fertilizer boosts growth in rice plant and alleviates chromium stress by regulating genes involved in oxidative stress. *Chemosphere*, 303, 134554.

**DOI: 10.1016/j.chemosphere.2022.134554**

PETRILLO C., VITALE E., AMBROSINO P., ET AL. (2022). Plant Growth-Promoting Bacterial Consortia as a Strategy to Alleviate Drought Stress in *Spinacia oleracea*. *Microorganisms*. 10(9):1798.

**DOI: 10.3390/microorganisms10091798**

PÉREZ-ROMERO J.A., BARCIA-PIEDRAS J-M., REDONDO-GÓMEZ S., ET AL. (2022). Salinity Modulates *Juncus acutus L.* Tolerance to Diesel Fuel Pollution. *Plants*. 11(6):758.

**DOI: 10.3390/plants11060758**

PTUSHENKO V.V., BONDARENKO G.N., VINOGRADOVA E.N. ET AL. (2022). Chilling Upregulates Expression of the *Psb* and *LhcSR* Genes in the Chloroplasts of the Green Microalga *Lobosphaera incisa* IPPAS C-2047. *Biochemistry Moscow* 87, 1699–1706.

**DOI:** [10.1134/S0006297922120240](https://doi.org/10.1134/S0006297922120240)

*QIAN X., HAO T., LIJIANG F., ET AL. (2022). Determination of Fv/Fm from Chlorophyll a Fluorescence without Dark Adaptation by an LSSVM Model. Plant Phenomics. 5;0034.*

**DOI:** [10.34133/plantphenomics.0034](https://doi.org/10.34133/plantphenomics.0034)

*RAHMAN M. A., BAGCHI R., EL-SHEHAWI A. M., ET AL. (2022). Physiological and molecular characterization of strategy-I responses and expression of Fe-transporters in Fe-deficient soybean. South African Journal of Botany, 147, 942-950.*

**DOI:** [10.1016/j.sajb.2022.03.052](https://doi.org/10.1016/j.sajb.2022.03.052)

*REBELO ROMÃO I., RODRIGUES DOS SANTOS A.S., VELASCO L., ET AL. (2022). Seed-Encapsulation of Desiccation-Tolerant Microorganisms for the Protection of Maize from Drought: Phenotyping Effects of a New Dry Bioformulation. Plants. 2022; 11(8):1024.*

**DOI:** [10.3390/plants11081024](https://doi.org/10.3390/plants11081024)

*REIG G., IGLESIAS I., ZAZURCA L., ET AL. (2022). Physiological and Agronomical Responses of 'Vairo' Almond and 'Big Top' Nectarine Cultivars Grafted onto Different Prunus Rootstocks and Grown under Semiarid Mediterranean Conditions. Agronomy. 12(4):821.*

**DOI:** [10.3390/agronomy12040821](https://doi.org/10.3390/agronomy12040821)

*REIS M.N.O., VITORINO L.C., LOURENÇO L.L., ET AL. (2022). Microbial Inoculation Improves Growth, Nutritional and Physiological Aspects of Glycine max (L.) Merr. Microorganisms. 2022; 10(7):1386.*

**DOI:** [10.3390/microorganisms10071386](https://doi.org/10.3390/microorganisms10071386)

*ROSTAMI-BALAN S., DIANATI DAYLAMI S. & KARIMI S. (2022). In vitro tuber induction and growth improvement in Dactylorhiza umbrosa by osmotic pretreatments, The Journal of Horticultural Science and Biotechnology, 97:6, 739-746,*

**DOI:** [10.1080/14620316.2022.2060139](https://doi.org/10.1080/14620316.2022.2060139)

*SANTANDER C., VIDAL G., RUIZ A., ET AL. (2022). Salinity Eustress Increases the Biosynthesis and Accumulation of Phenolic Compounds That Improve the Functional and Antioxidant Quality of Red Lettuce. Agronomy. 12(3):598.*

**DOI:** [10.3390/agronomy12030598](https://doi.org/10.3390/agronomy12030598)

*SANTOS A. M. D., VITORINO L.C., CRUVINEL B.G., ET AL. (2022). Impacts of Cd Pollution on the Vitality, Anatomy and Physiology of Two Morphologically Different Lichen Species of the Genera Parmotrema and Usnea, Evaluated under Experimental Conditions. Diversity. 14(11):926.*

**DOI:** [10.3390/d14110926](https://doi.org/10.3390/d14110926)

*SCHATTMAN R.E., SMART A., BIRKEL S., JEAN H., ET AL. (2022). Strawberry Growth under Current and Future Rainfall Scenarios. Water. 2022; 14(3):313.*

**DOI:** [10.3390/w14030313](https://doi.org/10.3390/w14030313)

*SEIFIKALHOR M., NIKNAM V., ALINIAEIFARD S. ET AL. (2022). The regulatory role of  $\gamma$ -aminobutyric acid in chickpea plants depends on drought tolerance and water scarcity level. Sci Rep 12, 7034.*

**DOI:** [10.1038/s41598-022-10571-8](https://doi.org/10.1038/s41598-022-10571-8)

*SEMENOVA N.A., SMIRNOV A.A., DOROKHOV A.S., ET AL. (2022). Evaluation of the Effectiveness of Different LED Irradiators When Growing Red Mustard (*Brassica juncea L.*) in Indoor Farming. Energies. 15(21):8076.*  
**DOI: 10.3390/en15218076**

*SHARMA A., VISHWAKARMA K., SINGH N. K., ET AL. (2022). Synergistic action of silicon nanoparticles and indole acetic acid in alleviation of chromium (CrVI) toxicity in *Oryza sativa* seedlings. Journal of Biotechnology, 343, 71-82*

**DOI: 10.1016/j.biotec.2021.09.005**

*SHI Q., CHEN C., HE T. ET AL. (2022). Circadian rhythm promotes the biomass and amylose hyperaccumulation by mixotrophic cultivation of marine microalga *Platymonas helgolandica*. Biotechnol Biofuels 15, 75 (2022).*

**DOI: 10.1186/s13068-022-02174-2**

*SHIKAKURA Y., OGUCHI T., YU X. ET AL. (2022). Transgenic poplar trees overexpressing AtGolS2, a stress-responsive galactinol synthase gene derived from *Arabidopsis thaliana*, improved drought tolerance in a confined field. Transgenic Res 31, 579–591.*

**DOI: 10.1007/s11248-022-00321-x**

*SMIRNOV A.A., SEMENOVA N.A., DOROKHOV A.S., ET AL. (2022). Influence of Pulsed, Scanning and Constant (16- and 24-h) Modes of LED Irradiation on the Physiological, Biochemical and Morphometric Parameters of Lettuce Plants (*Lactuca sativa L.*) while Cultivated in Vertical Farms. Agriculture. 12(12):1988.*

**DOI: 10.3390/agriculture12121988**

*SONG J., YANG J., JEONG B.R. (2022). Root GS and NADH-GDH Play Important Roles in Enhancing the Ammonium Tolerance in Three Bedding Plants. International Journal of Molecular Sciences. 23(3):1061.*

**DOI: 10.3390/ijms23031061**

*SONG J., YANG J. AND JEONG B.R. (2022) Silicon Mitigates Ammonium Toxicity in Cabbage (*Brassica campestris L. ssp. pekinensis*) 'Ssamchu'. Front. Sustain. Food Syst. 6:922666.*

**doi: 10.3389/fsufs.2022.922666**

*SONG J., YANG J., JEONG B.R. (2022). Alleviation of Ammonium Toxicity in *Salvia splendens* 'Vista Red' with Silicon Supplementation. Toxics. 10(8):446.*

**DOI: 10.3390/toxics10080446**

*STEINHOFF-WRZEŚNIEWSKA A., DĄBROWSKI P., PASZKIEWICZ-JASIŃSKA A., ET AL. (2022). Studying the Physiological Reactions of C<sub>4</sub> Grasses in Order to Select Them for Cultivation on Marginal Lands. Sustainability. 14(8):4512.*

**DOI: 10.3390/su14084512**

*SUDIRO C., GUGLIELMI F., HOCHART M., SENIZZA B., ET AL. (2022). Phenomics and Metabolomics Investigation on the Modulation of Drought Stress by a Biostimulant Plant Extract in Tomato (*Solanum lycopersicum*). Agronomy. 2022; 12(4):764.*

**DOI: 10.3390/agronomy12040764**

*SUKHOVA E., YUDINA L., KIOR A., KIOR D., ET AL. (2022). Modified Photochemical Reflectance Indices as New Tool for Revealing Influence of Drought and Heat on Pea and Wheat Plants. Plants. 11(10):1308.*

**DOI: 10.3390/plants11101308**

SZECHYŃSKA-HEBDA M. ET AL. (2022). *Aboveground plant-to-plant electrical signaling mediates network acquired acclimation*, THE PLANT CELL, Volume 34, Issue 8. Pages 3047–3065,  
**DOI: 10.1093/plcell/koac150**

TEREUCÁN G., RUIZ A., NAHUELCURA J., ET AL. (2022), *Shifts in biochemical and physiological responses by the inoculation of arbuscular mycorrhizal fungi in Triticum aestivum growing under drought conditions*. J Sci Food Agric, 102: 1927-1938.  
**DOI: 10.1002/jsfa.11530**

TORRES E., ASÍN, L. (2022). *Physiological Study of Ethephon- and ACC-Induced Fruitlet and Leaf Abscission in Peach Trees Under Different Conditions of Temperature*. J Plant Growth Regul.  
**DOI: 10.1007/s00344-022-10888-8**

TRIPATHI D. K. ET AL. (2022). *Ethylene Renders Silver Nanoparticles Stress Tolerance in Rice Seedlings by Regulating Endogenous Nitric Oxide Accumulation*, PLANT AND CELL PHYSIOLOGY, Volume 63, Issue 12, December 2022, Pages 1954–1967,  
**DOI: 10.1093/pcp/pcac159**

VARIA J., KAMALESON C., & LERER L. (2022). *Biostimulation with phycocyanin-rich Spirulina extract in hydroponic vertical farming*. Scientia Horticulturae, 299, 111042.  
**DOI: 10.1016/j.scienta.2022.111042**

VERGARA-BARROS P., ALCORTA J., CASANOVA-KATNY A., ET AL. (2022). *Compensatory Transcriptional Response of Fischerella thermalis to Thermal Damage of the Photosynthetic Electron Transfer Chain*. Molecules, 27(23):8515.  
**DOI: 10.3390/molecules27238515**

VILLAR-NAVARRO, E., RUIZ, J., GARRIDO-PÉREZ, C., & PERALES, J. A. (2022). *Microalgae biotechnology for simultaneous water treatment and feed ingredient production in aquaculture*. Journal of Water Process Engineering, 49, 103115.  
**DOI: 10.1016/j.jwpe.2022.103115**

WALA M., SKWAREK-FADECKA M., KOŁODZIEJEK J., ET AL. (2022). *Effect of the Fe-HBED chelate on the nutritional quality of tomato fruits*. Scientia Horticulturae, 293, 110670.  
**DOI: 10.1016/j.scienta.2021.110670**

WANG L., WANG N. & JI G. (2022). *Responses of biomass allocation and photosynthesis in mulberry to Pb-contaminated soil*. Acta Physiol Plant 44, 43.  
**DOI: 10.1007/s11738-022-03370-1**

XIA Q., FU L. J., TANG H., ET AL. (2022). *Sensing and classification of rice (*Oryza sativa L.*) drought stress levels based on chlorophyll fluorescence*. Photosynthetica, 60, 102-109.  
**DOI 10.32615/ps.2022.005**

YANG J., SONG J. AND JEONG B.R. (2022) *The flowering of SDP chrysanthemum in response to intensity of supplemental or night-interruptional blue light is modulated by both photosynthetic carbon assimilation and photoreceptor-mediated regulation*. Front. Plant Sci. 13:981143.  
**DOI: 10.3389/fpls.2022.981143**

*YANG J., SONG J., JEONG B.R. (2022). Drenched Silicon Suppresses Disease and Insect Pests in Coffee Plant Grown in Controlled Environment by Improving Physiology and Upregulating Defense Genes. International Journal of Molecular Sciences. 23(7):3543.*

**DOI: 10.3390/ijms23073543**

*YANG J., SONG J., JEONG B.R. (2022). Lighting from Top and Side Enhances Photosynthesis and Plant Performance by Improving Light Usage Efficiency. International Journal of Molecular Sciences. 2022; 23(5):2448.*

**DOI: 10.3390/ijms23052448**

*YANG J., SONG J., JEONG B.R. (2022). Low-Intensity Blue Light Supplemented during Photoperiod in Controlled Environment Induces Flowering and Antioxidant Production in Kalanchoe. Antioxidants. 2022; 11(5):811.*

**DOI: 10.3390/antiox11050811**

*ZHANG, M., LIU, J., WANG, Y., ET AL. (2022). Morphologically-different cells and colonies cause distinctive performance of coagulative colloidal ozone microbubbles in simultaneously removing bloom-forming cyanobacteria and microcystin-LR. Journal of Hazardous Materials, 435, 128986.*

**DOI: 10.1016/j.jhazmat.2022.128986**

*ZHOU Q., YU L., ZHANG X., (2022). Fusion of UAV Hyperspectral Imaging and LiDAR for the Early Detection of EAB Stress in Ash and a New EAB Detection Index—NDVI<sub>(776,678)</sub>. Remote Sensing. 14(10):2428.*

**DOI: 10.3390/rs14102428**

## 2021

*BARICKMAN T.C., OLORUNWA O.J., SEHGAL A., ET AL. (2021). Yield, Physiological Performance, and Phytochemistry of Basil (*Ocimum basilicum L.*) under Temperature Stress and Elevated CO<sub>2</sub> Concentrations. Plants. 10(6):1072.*  
<https://doi.org/10.3390/plants10061072>

*BALFAGÓN D., TERÁN, F., DE OLIVEIRA T. DOS R., SANTA-CATARINA C., ET AL. (2021). Citrus rootstocks modify scion antioxidant system under drought and heat stress combination. Plant Cell Reports.  
doi:10.1007/s00299-021-02744-y*

*DA SILVA SANTOS J., DA SILVA PONTES M., DOS SANTOS NOBREGA M. A., & SANTIAGO, E. F. (2021). Effects of substrates containing different concentrations of sewage sludge on physiological parameters and quality of *Alibertia edulis* (Rubiaceae) seedlings. Environmental Science and Pollution Research, 28(20), 25984–25992.  
doi:10.1007/s11356-021-12492-x*

*DAS U., ISLAM M. R., AKTHER M. S., ET AL. (2021). The downregulation of Fe-acquisition genes in the plasma membrane along with antioxidant defense and nitric oxide signaling confers Fe toxicity tolerance in tomato. Scientia Horticulturae, 279, 109897.*

**DOI: 10.1016/j.scienta.2021.109897**

*DE SOUZA, A.A.B., DO NASCIMENTO, C.W.A. & DE SOUZA, E.R. (2021). Mineral composition, chlorophyll fluorescence and zinc biofortification in *Vigna unguiculata* fertilized with bulk and nanoparticulate zinc oxides. Acta Physiol Plant 43, 159.*

**DOI: 10.1007/s11738-021-03333-y**

*DI MOLA, I., CONTI, S., COZZOLINO, E., MELCHIONNA, G., ET AL. (2021). Plant-Based Protein Hydrolysate Improves Salinity Tolerance in Hemp: Agronomical and Physiological Aspects. Agronomy, 11(2), 342.*

**DOI:**[10.3390/agronomy11020342](https://doi.org/10.3390/agronomy11020342)

*DUARTE, B., FEIJAO, E., DE CARVALHO, R. C., FRANZITTA, M., ET AL. (2021). Unlocking Kautsky's dark box: Development of an optical toxicity classification tool (OPTOX index) with marine diatoms exposed to emerging contaminants. Ecological Indicators, 131, 108238.*

**DOI:**[10.1016/j.ecolind.2021.108238](https://doi.org/10.1016/j.ecolind.2021.108238)

*DUARTE, B., GAMEIRO, C., UTKIN, A. B., MATOS, ET AL. (2021). A multivariate approach to chlorophyll a fluorescence data for trace element ecotoxicological trials using a model marine diatom. Estuarine, Coastal and Shelf Science, 250, 107170.*

**DOI:**[10.1016/j.ecss.2021.107170](https://doi.org/10.1016/j.ecss.2021.107170)

*FRANCO-NAVARRO, J.D., DÍAZ-RUEDA, P., RIVERO-NÚÑEZ, C.M., ET AL. (2021). Chloride nutrition improves drought resistance by enhancing water deficit avoidance and tolerance mechanisms. Journal of Experimental Botany, 72 (14): 5246–5261.*

**DOI:**[10.1093/jxb/erab143](https://doi.org/10.1093/jxb/erab143)

*GIUDICI, G. N. M. (2021). Combined chlorophyll fluorescence techniques to study environmental impact on the mountain moss *Polytrichum commune*. Czech Polar Reports, 11(1), 161-173.*

**DOI:**[10.5817/CPR2021-1-12](https://doi.org/10.5817/CPR2021-1-12)

*IM OH, S., KIM, J., & LEE, A. K. (2021). Comparison of Shelf Life and Quality of Potted Hydrangea 'Speedy Red'under Different Abscisic Acid Spray Concentrations. Horticultural Science and Technology. October 2021. 615-624*

**DOI:**[10.7235/HORT.20210055](https://doi.org/10.7235/HORT.20210055)

*HAO X., ZHOU S., HAN, L. ET AL. (2021). Differences in *PI<sub>total</sub>* of *Quercus liaotungensis* seedlings between provenance. Sci Rep 11, 23439.*

**DOI:**[10.1038/s41598-021-02941-5](https://doi.org/10.1038/s41598-021-02941-5)

*HAQUE A. M., TASNIM J., EL-SHEHAWI A. M., ET AL. (2021). The Cd-induced morphological and photosynthetic disruption is related to the reduced Fe status and increased oxidative injuries in sugar beet. Plant Physiology and Biochemistry, 166, 448–458.*

**DOI:**[10.1016/j.plaphy.2021.06.020](https://doi.org/10.1016/j.plaphy.2021.06.020)

*JANG S.J.; PARK H.H.; KUK Y.I. (2021). Application of Various Extracts Enhances the Growth and Yield of Cucumber (*Cucumis sativus L.*) without Compromising the Biochemical Content. Agronomy 11, 505.*

**DOI:**[10.3390/agronomy11030505](https://doi.org/10.3390/agronomy11030505)

*JAVADI ASAYESH E., ALINIAEIFARD S., ASKARI N., ROOZBAN M.R., ET AL (2021).Supplementary Light with Increased Blue Fraction Accelerates Emergence and Improves Development of the Inflorescence in Aechmea, Guzmania and Vriesea. Horticulturae. 2021; 7(11):485.*

**DOI:**[10.3390/horticulturae7110485](https://doi.org/10.3390/horticulturae7110485)

*KABIR A. H., AKTHER M. S., SKALICKY M., ET AL. (2021). Downregulation of Zn-transporters along with Fe and redox imbalance causes growth and photosynthetic disturbance in Zn-deficient tomato. Scientific Reports, 11(1).*  
**doi:**[10.1038/s41598-021-85649-w](https://doi.org/10.1038/s41598-021-85649-w)

KASAMPALIS, D. S., TSOUVALTZIS, P., NTOUROS, K., ET AL. (2021). *The use of digital imaging, chlorophyll fluorescence and Vis/NIR spectroscopy in assessing the ripening stage and freshness status of bell pepper fruit*. *Computers and Electronics in Agriculture*, 187, 106265.

**DOI:10.1016/j.compag.2021.106265**

KASAMPALIS, D. S., TSOUVALTZIS, P., NTOUROS, K., GERTSIS, A., GITAS, I., ET AL. (2021). *Nutritional composition changes in bell pepper as affected by the ripening stage of fruits at harvest or postharvest storage and assessed non-destructively*. *Journal of the Science of Food and Agriculture*.

**doi:10.1002/jsfa.11375**

KHAJURIA M., JAMWAL S., ALI V., ET AL. (2021). *Temperature mitigation strategies in Lepidium latifolium L., a sleeper weed from Ladakh himalayas*. *Environmental and Experimental Botany*, 184, 104352.

**DOI:10.1016/j.envexpbot.2020.1043**

LEE H., HAN G., ET AL. (2021) *Effect of different treatments and light quality on Ulmus pumila L. germination and seedling growth*, *Forest Science and Technology*, 17:3, 162-168,

**DOI: 10.1080/21580103.2021.1968960**

LI X., LIANG Y., LI K., ET AL. (2021). *Effects of Low Temperature, Nitrogen Starvation and Their Combination on the Photosynthesis and Metabolites of Thermosynechococcus E542: A Comparison Study*. *Plants*. 10(10):2101.

**DOI: 10.3390/plants10102101**

MATTILA H., SOTOUDEHNIA P., KUUSLAMPI T. ET AL. (2021). *Singlet oxygen, flavonols and photoinhibition in green and senescing silver birch leaves*. *Trees* **35**, 1267–1282.

**DOI: 10.1007/s00468-021-02114-x**

MORADI S., KAFI M., ALINIAEIFARD S., ET AL. (2021). *Blue Light Improves Photosynthetic Performance and Biomass Partitioning toward Harvestable Organs in Saffron (Crocus sativus L.)*. *Cells*, 10(8), 1994.

**doi:10.3390/cells10081994**

MORCILLO, R., VÍLCHEZ, J., ZHANG, S., KAUSHAL, R., ET AL. (2021). *Plant Transcriptome Reprogramming and Bacterial Extracellular Metabolites Underlying Tomato Drought Resistance Triggered by a Beneficial Soil Bacteria*. *Metabolites*, 11(6), 369.

**DOI:10.3390/metabo11060369**

MOOSAVI-NEZHAD, M., SALEHI, R., ALINIAEIFARD, S., TSANIKLIDIS, G., ET AL. (2021). *Blue Light Improves Photosynthetic Performance during Healing and Acclimatization of Grafted Watermelon Seedlings*. *International Journal of Molecular Sciences*, 22(15), 8043.

**doi:10.3390/ijms22158043**

ORZECHOWSKA, A., TRTÍLEK, M., TOKARZ, K. M., ET AL. (2021). *Thermal Analysis of Stomatal Response under Salinity and High Light*. *International Journal of Molecular Sciences*, 22(9), 4663.

**DOI:10.3390/ijms22094663**

PADHI, B., CHAUHAN, G., KANDOI, D., ET AL. (2021). *A comparison of chlorophyll fluorescence transient measurements, using Handy PEA and FluorPen fluorometers*. *Photosynthetica*.

**DOI 10.32615/ps.2021.026**

PEHAREC ŠTEFANIĆ P., KOŠPIČ K., LYONS D. M., ET AL. (2021). Phytotoxicity of Silver Nanoparticles on Tobacco Plants: Evaluation of Coating Effects on Photosynthetic Performance and Chloroplast Ultrastructure. *Nanomaterials*, 11(3), 744.

**DOI:**10.3390/nano11030744

Prasad R., Lisiecka J., Antala M., et al. (2021). Influence of Different Spent Mushroom Substrates on Yield, Morphological and Photosynthetic Parameters of Strawberry (*Fragaria × ananassa* Duch.). *Agronomy* 2021, 11, 2086.

**DOI:** 10.3390/agronomy11102086

PTUSHENKO V.V., BONDARENKO G.N., VINOGRADOVA E.N. ET AL. (2021). The Effect of Chilling on the Photosynthetic Apparatus of Microalga *Lobosphaera incisa* IPPAS C-2047. *Biochemistry Moscow* 86, 1590–1598.

**DOI:** 10.1134/S0006297921120087

REN R., LIU T., MA L., ET AL. (2021). Irrigation based on daily weighted evapotranspiration affects yield and quality of oriental melon. *Scientia Horticulturae*, 275, 109714.

**DOI:**10.1016/j.scientia.2020.109714

RZEMIENIECKI T., KLEIBER T., & PERNAK J. (2021). Naturally based ionic liquids with indole-3-acetate anions and cations derived from cinchona alkaloids. *RSC Advances*, 11(44), 27530–27540.

**DOI:**10.1039/d1ra04805h

ROMERO J. M., OTERO A., LAGORIO M. G., ET AL. (2021). Canopy active fluorescence spectrum tracks ANPP changes upon irrigation treatments in soybean crop. *Remote Sensing of Environment*, 263, 112525.

**DOI:**10.1016/j.rse.2021.112525

SAKAMOTO M., KOMATSU Y., SUZUKI T. (2021). Nutrient Deficiency Affects the Growth and Nitrate Concentration of Hydroponic Radish. *Horticulturae*. 7(12):525.

**DOI:** 10.3390/horticulturae7120525

SADDIQ M. S., IQBAL S., HAFEEZ M. B., ET AL. (2021). Effect of Salinity Stress on Physiological Changes in Winter and Spring Wheat. *Agronomy*, 11(6), 1193.

**DOI:**10.3390/agronomy11061193

SHAPIRA O., CHERNOVANOV S., NEUBERGER I., ET AL. (2021). Physiological Characterization of Young "Hass" Avocado Plant Leaves Following Exposure to High Temperatures and Low Light Intensity. *Plants*, 10(8), 1562.

**DOI:** 10.3390/plants10081562

SONG J., YANG J., JEONG B.R. (2021). Growth, Quality, and Nitrogen Assimilation in Response to High Ammonium or Nitrate Supply in Cabbage (*Brassica campestris* L.) and Lettuce (*Lactuca sativa* L.). *Agronomy*. 11(12):2556.

**DOI:** 10.3390/agronomy11122556

SUETSUGU, K., YAMATO, M., MATSUBAYASHI, J., & TAYASU, I. (2021). Partial and full mycoheterotrophy in green and albino phenotypes of the slipper orchid *Cypripedium debile*. *Mycorrhiza*, 31(3), 301–312.

**DOI:**10.1007/s00572-021-01032-7

ŠKARPA P., ŠKOLNÍKOVÁ M., ANTOŠOVSKÝ J., ET AL. (2021). Response of Normal and Low-Phytate Genotypes of Pea (*Pisum sativum* L.) on Phosphorus Foliar Fertilization. *Plants*. 2021; 10(8):1608.

**DOI:** 10.3390/plants10081608

ŠKARPA P., ANTOŠOVSKÝ J., RYANT P., ET AL. (2021). *Using Waste Sulfur from Biogas Production in Combination with Nitrogen Fertilization of Maize (*Zea mays L.*) by Foliar Application.* *Plants.* 2021; 10(10):2188.

**DOI:** [10.3390/plants10102188](https://doi.org/10.3390/plants10102188)

TEREUCÁN G., RUIZ A., NAHUELCURA J., OYARZÚN P., ET AL. (2021). *Shifts in biochemical and physiological responses by the inoculation of arbuscular mycorrhizal fungi in *Triticum aestivum* growing under drought conditions.* *Journal of the Science of Food and Agriculture.*

**doi:**[10.1002/jsfa.11530](https://doi.org/10.1002/jsfa.11530)

UMETANI I., JANKA E., SPOSÓB M., ET AL. (2021). *Bicarbonate for microalgae cultivation: a case study in a chlorophyte, *Tetradesmus wisconsinensis* isolated from a Norwegian lake.* *Journal of Applied Phycology,* 33(3), 1341–1352.

**DOI:** [10.1007/s10811-021-02420-4](https://doi.org/10.1007/s10811-021-02420-4)

## 2020

AALIFAR, M., AL INIAEIFARD, S., ARAB, M., ZARE MEHRJERDI, M., ET AL. (2020). *Blue Light Improves Vase Life of Carnation Cut Flowers Through Its Effect on the Antioxidant Defense System.* *Frontiers in Plant Science,* 11.

**DOI:** [10.3389/fpls.2020.00511](https://doi.org/10.3389/fpls.2020.00511)

ARENA, C., CONTI, S., FRANCESCA, S., MELCHIONNA, G., ET AL. (2020). *Eco-Physiological Screening of Different Tomato Genotypes in Response to High Temperatures: A Combined Field-to-Laboratory Approach.* *Plants,* 9(4), 508.

**DOI:** [10.3390/plants9040508](https://doi.org/10.3390/plants9040508)

ARIYARATHNA, R. A. I. S., WEERASENA, S. L. & BENERAGAMA, C. K. (2020). *Application of Polyphasic OJIP Chlorophyll Fluorescent Transient Analysis as an Indicator for Testing of Seedling Vigour of Common Bean (*Phaseolus vulgaris L.*).* *Tropical Agricultural Research.*

**DOI:** [10.4038/tar.v31i2.8372](https://doi.org/10.4038/tar.v31i2.8372)

BAI, Y., ZHANG, J., WU, Y., HUANG, R., ET AL. (2020). *Possibility of Increasing the Growth and Photosynthetic Properties of Precocious Walnut by Grafting.* *Sustainability,* 12(12), 5178.

**DOI:** [10.3390/su12125178](https://doi.org/10.3390/su12125178)

BARI, M. A., PRITY, S. A., DAS, U., AKTHER, M. S., ET AL. (2020). *Silicon induces phytochelatin and ROS scavengers facilitating cadmium detoxification in rice.* *Plant Biology.*

**DOI:** [10.1111/plb.13090](https://doi.org/10.1111/plb.13090)

BEDNARIKOVA, M., FOLGAR-CAMEÁN, Y., KUCEROVA, Z., ET AL. (2020). *Special issue in honour of Prof. Reto J. Strasser – Analysis of K- and L-band appearance in OJIPs in Antarctic lichens in low and high temperature.* *Photosynthetica,* 58(SPECIAL ISSUE), 646-656.

**DOI:** [10.32615/ps.2019.180](https://doi.org/10.32615/ps.2019.180)

BIBA R., TKALEC M., CVJETKO P., ET AL. (2021). *Silver nanoparticles affect germination and photosynthesis in tobacco seedlings.* *Acta Botanica Croatica,* 80 (1), 1-11.

**DOI:** [10.37427/botcro-2020-029](https://doi.org/10.37427/botcro-2020-029)

CARREIRAS, J., ALBERTO PÉREZ-ROMERO, J., MATEOS-NARANJO, E., REDONDO-GÓMEZ, S., ET AL. (2020). *The effect of heavy metal contamination pre-conditioning in the heat stress tolerance of native and invasive Mediterranean halophytes*. *Ecological Indicators*, 111, 106045.

**DOI:**[10.1016/j.ecolind.2019.106045](https://doi.org/10.1016/j.ecolind.2019.106045)

DANG, F., WANG, Q., CAI, W., ZHOU, D., & XING, B. (2020). *Uptake kinetics of silver nanoparticles by plant: relative importance of particles and dissolved ions*. *Nanotoxicology*, 1–13.

**DOI:**[10.1080/17435390.2020.1735550](https://doi.org/10.1080/17435390.2020.1735550)

DOMINGUEZ, P. G., DONEV, E., DERBA-MACELUCH, M., BÜNDER, A., HEDENSTRÖM, M., ET AL. (2020). *Sucrose synthase determines carbon allocation in developing wood and alters carbon flow at the whole tree level in aspen*. *New Phytologist*.

**DOI:**[10.1111/nph.16721](https://doi.org/10.1111/nph.16721)

DUARTE, B., MATOS, A. R., & CAÇADOR, I. (2020). *Photobiological and lipidic responses reveal the drought tolerance of Aster tripolium cultivated under severe and moderate drought: Perspectives for arid agriculture in the mediterranean*. *Plant Physiology and Biochemistry*.

**DOI:**[10.1016/j.plaphy.2020.06.019](https://doi.org/10.1016/j.plaphy.2020.06.019)

GÁLVEZ, S., MÉRIDA-GARCÍA, R., CAMINO, C. ET AL. (2020). *Hotspots in the genomic architecture of field drought responses in wheat as breeding targets*. *Funct Integr Genomics* 19, 295–309 (2019).

**DOI:**[10.1007/s10142-018-0639-3](https://doi.org/10.1007/s10142-018-0639-3)

GIL-ORTIZ, R., NARANJO, M. Á., RUIZ-NAVARRO, A., CABALLERO-MOLADA, M., ET AL. (2020). *New Eco-Friendly Polymeric-Coated Urea Fertilizers Enhanced Crop Yield in Wheat*. *Agronomy*, 10(3), 438.

**DOI:**[10.3390/agronomy10030438](https://doi.org/10.3390/agronomy10030438)

FRANCESCA, S., ARENA, C., HAY MELE, B., SCHETTINI, C., ET AL (2020). *The Use of a Plant-Based Biostimulant Improves Plant Performances and Fruit Quality in Tomato Plants Grown at Elevated Temperatures*. *Agronomy*, 10(3), 363.

**DOI:**[10.3390/agronomy10030363](https://doi.org/10.3390/agronomy10030363)

HANDAYANI, T., & WATANABE, K. (2020). *The combination of drought and heat stress has a greater effect on potato plants than single stresses*. *Plant, Soil and Environment*, 66(No. 4), 175–182.

**DOI:**[10.17221/126/2020-pse](https://doi.org/10.17221/126/2020-pse)

HERRITT, M. T., & FRITSCHI, F. B. (2020). *Characterization of Photosynthetic Phenotypes and Chloroplast Ultrastructural Changes of Soybean (*Glycine max*) in Response to Elevated Air Temperatures*. *Frontiers in Plant Science*, 11.

**DOI:**[10.3389/fpls.2020.00153](https://doi.org/10.3389/fpls.2020.00153)

HOLUBEK, R., DECKERT, J., ZINICOVSCAI, I., YUSHIN, N., VERGEL, K., ET AL. (2020). *The Recovery of Soybean Plants after Short-Term Cadmium Stress*. *Plants*, 9(6), 782.

**DOI:**[10.3390/plants9060782](https://doi.org/10.3390/plants9060782)

HU J., LI Y., AND JEONG B. R. (2020). *Silicon Alleviates Temperature Stresses in Poinsettia by Regulating Stomata, Photosynthesis, and Oxidative Damages*. *Agronomy*, 10(9), 1419.

**DOI:**[10.3390/agronomy10091419](https://doi.org/10.3390/agronomy10091419)

*HWANG, J.-H., YU, S., LEE, B., & LEE, D.-H. (2020). Modulation of Energy Metabolism Is Important for Low-Oxygen Stress Adaptation in Brassicaceae Species. International Journal of Molecular Sciences, 21(5), 1787.*  
**DOI:10.3390/ijms21051787**

*JANKA, E., UMETANI, I., SPOSOB, M., & BAKKE, R. (2020). Photosynthesis response of microalgae (*Tetraselmis wisconsinensis*) to different inorganic carbon sources probed with chlorophyll fluorescence analysis. Photosynthetica, 58(SPECIAL ISSUE), 236-244.*

**DOI: 10.32615/ps.2019.142.**

*JIMEL M., KVÍDEROVÁ J., AND ELSTER, J. (2020). ANNUAL CYCLE OF MAT-FORMING FILAMENTOUS ALGA TRIBONEMA CF. MINUS (STRAMENOPILES, XANTHOPHYCEAE) IN HYDRO-TERRESTRIAL HABITATS IN THE HIGH ARCTIC REVEALED BY MULTIPARAMETER FLUORESCENT STAINING 1. JOURNAL OF PHYCOLOGY.*

**DOI:10.1111/jpy.13109**

*KABIR, A. H., DEBNATH, T., DAS, U., PRITY, S. A., HAQUE, A., RAHMAN, M. M., & PARVEZ, M. S. (2020). Arbuscular mycorrhizal fungi alleviate Fe-deficiency symptoms in sunflower by increasing iron uptake and its availability along with antioxidant defense. Plant Physiology and Biochemistry.*

**DOI:10.1016/j.plaphy.2020.03.010**

*KALMATSAYA, O. A., TRUBITSIN, B. V., SUSLICHENKO, I. S., ET AL. (2020). Electron transport in *Tradescantia* leaves acclimated to high and low light: thermoluminescence, PAM-fluorometry, and EPR studies. Photosynthesis Research.*

**DOI:10.1007/s11120-020-00767-2**

*KASAMPALIS D. S., TSOUVALTZIS P, SIOMOS A. S. (2020). Chlorophyll fluorescence, non-photochemical quenching and light harvesting complex as alternatives to color measurement, in classifying tomato fruit according to their maturity stage at harvest and in monitoring postharvest ripening during storage. Postharvest Biology and Technology. Volume 161.*

**DOI: 10.1016/j.postharvbio.2019.111036.**

*KHAJURIA, M., RAHUL, V. P., & VYAS, D. (2020). Photochemical efficiency is negatively correlated with the  $\Delta 9$ -tetrahydrocannabinol content in *Cannabis sativa* L. Plant Physiology and Biochemistry.*

**DOI:10.1016/j.plaphy.2020.04.003**

*KOFROŇOVÁ, M., HRDINOVÁ, A., MAŠKOVÁ, P., TREMLOVÁ, J., ET AL. (2020). Multi-Component Antioxidative System and Robust Carbohydrate Status, the Essence of Plant Arsenic Tolerance. Antioxidants, 9(4), 283.*

**DOI:10.3390/antiox9040283**

*LAM, V. P., KIM, S. J., & PARK, J. S. (2020). Optimizing the Electrical Conductivity of a Nutrient Solution for Plant Growth and Bioactive Compounds of *Agastache rugosa* in a Plant Factory. Agronomy, 10(1), 76.*

**DOI:10.3390/agronomy10010076**

*LAM, V. P., KIM, S. J., BOK, G. J., LEE, J. W., & PARK, J. S. (2020). The Effects of Root Temperature on Growth, Physiology, and Accumulation of Bioactive Compounds of *Agastache rugosa*. Agriculture, 10(5), 162.*

**DOI:10.3390/agriculture10050162**

*LIU, P., ZHOU, J., WANG, T., Yu, C., HONG, Y., & XIE, X. (2020). Efficient microalgae inactivation and growth control by locally enhanced electric field treatment (LEEFT). Environmental Science: Nano.*

**DOI:10.1039/c9en01366k**

LIU, P., ZHOU, J., HONG, Y., & XIE, X. (2020). Electric-field enhanced microalgae inactivation using a flow-through copper ionization cell. *Journal of Hazardous Materials*, 400, 123320.

**DOI:** [10.1016/j.jhazmat.2020.123320](https://doi.org/10.1016/j.jhazmat.2020.123320)

MA, J., QIU, D., GAO, H., WEN, H., WU, Y., ET AL. (2020). Over-expression of a  $\gamma$ -tocopherol methyltransferase gene in vitamin E pathway confers PEG-simulated drought tolerance in alfalfa. *BMC Plant Biology*, 20(1).

**DOI:** [10.1186/s12870-020-02424-1](https://doi.org/10.1186/s12870-020-02424-1)

MAAI, E., NISHIMURA, K., TAKISAWA, R., & NAKAZAKI, T. (2020). Diurnal changes in chloroplast positioning and photosynthetic traits of C4 grass finger millet. *Plant Production Science*, 1–13.

**DOI:** [10.1080/1343943x.2020.1758171](https://doi.org/10.1080/1343943x.2020.1758171)

MARÍN-ORTIZ, J. C., GUTIERREZ-TORO, N., BOTERO-FERNÁNDEZ, V. & HOYOS-CARVAJAL, L. M. (2020). Linking physiological parameters with visible/near-infrared leaf reflectance in the incubation period of vascular wilt disease. *Saudi Journal of Biological Sciences* 27, 88–99

**DOI:** [10.1016/j.sjbs.2019.05.007](https://doi.org/10.1016/j.sjbs.2019.05.007).

MATEOS-NARANJO, E., JURADO, J. L., REDONDO-GÓMEZ, S., PÉREZ-ROMERO, J. A., ET AL. (2020). Uncovering PGPB *Vibrio spartinae* inoculation-triggered physiological mechanisms involved in the tolerance of *Halimione portulacoides* to NaCl excess. *Plant Physiology and Biochemistry*.

**DOI:** [10.1016/j.plaphy.2020.05.034](https://doi.org/10.1016/j.plaphy.2020.05.034)

MILLA-MORENO, E., & GUY, R. D. (2020). Growth response, uptake and mobilization of metals in native plant species on tailings at a Chilean copper mine. *International Journal of Phytoremediation*, 23(5), 539–547.

**DOI:** [10.1080/15226514.2020.1838435](https://doi.org/10.1080/15226514.2020.1838435)

MUTHUSAMY, M., KIM, J. Y., YOON, E. K., KIM, J. A., & LEE, S. I. (2020). BrEXLB1, a *Brassica rapa* Expansin-Like B1 Gene is Associated with Root Development, Drought Stress Response, and Seed Germination. *Genes*, 11(4).

**DOI:** [10.3390/genes11040404](https://doi.org/10.3390/genes11040404)

MUTHUSAMY, YOON, KIM, JEONG, & LEE. (2020). *Brassica Rapa SR45a* Regulates Drought Tolerance via the Alternative Splicing of Target Genes. *Genes*, 11(2), 182.

**DOI:** [10.3390/genes11020182](https://doi.org/10.3390/genes11020182)

POBLETE, T., CAMINO, C., BECK, P. S. A., HORNERO, A., ET AL. (2020). Detection of *Xylella fastidiosa* infection symptoms with airborne multispectral and thermal imagery: Assessing bandset reduction performance from hyperspectral analysis. *ISPRS Journal of Photogrammetry and Remote Sensing*, 162, 27–40.

**DOI:** [10.1016/j.isprsjprs.2020.02.010](https://doi.org/10.1016/j.isprsjprs.2020.02.010)

PRITY, S. A., SAJIB, S. A., DAS, U., RAHMAN, M. M., HAIDER, S. A., & KABIR, A. H. (2020). Arbuscular mycorrhizal fungi mitigate Fe deficiency symptoms in sorghum through phytosiderophore-mediated Fe mobilization and restoration of redox status. *Protoplasma*.

**DOI:** [10.1007/s00709-020-01517-w](https://doi.org/10.1007/s00709-020-01517-w)

QUIROGA G., ERICE G., AROCA R., ET AL. (2020). Radial water transport in arbuscular mycorrhizal maize plants under drought stress conditions is affected by indole-acetic acid (IAA) application. *Journal of Plant Physiology*. Volumes 246–247.

**DOI:** [10.1016/j.jplph.2020.153115](https://doi.org/10.1016/j.jplph.2020.153115)

QUIROGA, G., ERICE, G., AROCA, R., & RUIZ-LOZANO, J. M. (2020). *Elucidating the Possible Involvement of Maize Aquaporins in the Plant Boron Transport and Homeostasis Mediated by Rhizophagus irregularis under Drought Stress Conditions*. *International Journal of Molecular Sciences*, 21(5), 1748.

**DOI:**[10.3390/ijms21051748](https://doi.org/10.3390/ijms21051748)

RAMOS-ZAMBRANO, E., JUÁREZ-YÁÑEZ, T. E., TAPIA-MARURI, D., CAMACHO-DÍAZ, B. H., ET AL. (2020). *Effects of Triacontanol and Light on Stomatal and Photochemical Responses in Solanum lycopersicum L. Journal of Plant Growth Regulation*.

**doi:**[10.1007/s00344-020-10262-6](https://doi.org/10.1007/s00344-020-10262-6)

RAHMAN, M. A., PARVIN, M., DAS, U., ELA, E. J., ET AL. (2020). *Arbuscular Mycorrhizal Symbiosis Mitigates Iron (Fe)-Deficiency Retardation in Alfalfa (*Medicago sativa* L.) Through the Enhancement of Fe Accumulation and Sulfur-Assisted Antioxidant Defense*. *International Journal of Molecular Sciences*, 21(6), 2219.

**DOI:**[10.3390/ijms21062219](https://doi.org/10.3390/ijms21062219)

SAN-EUFRASIO, B., SÁNCHEZ-LUCAS, R., LÓPEZ-HIDALGO, ET AL. (2020). *Responses and Differences in Tolerance to Water Shortage under Climatic Dryness Conditions in Seedlings from Quercus spp. and Andalusian Q. ilex Populations*. *Forests*, 11(6), 707.

**doi:**[10.3390/f11060707](https://doi.org/10.3390/f11060707)

SHUTOH, K., TAJIMA, Y., MATSUBAYASHI, J., TAYASU, I., KATO, S., SHIGA, T., & SUETSUGU, K. (2020). *Evidence for newly discovered albino mutants in a pyrolloid: implication for the nutritional mode in the genus Pyrola*. *American Journal of Botany*, 107(4), 650–657.

**DOI:**[10.1002/ajb2.1462](https://doi.org/10.1002/ajb2.1462)

SINGH, S., MOHAN PRASAD, S., & PRATAP SINGH, V. (2020). *Additional calcium and sulfur manages hexavalent chromium toxicity in solanum lycopersicum L. And solanum melongena L. Seedlings by involving nitric oxide*. *Journal of Hazardous Materials*, 122607.

**DOI:**[10.1016/j.jhazmat.2020.122607](https://doi.org/10.1016/j.jhazmat.2020.122607)

SINGH, R., PARIHAR, P., & PRASAD, S. M. (2020). *Interplay of Calcium and Nitric Oxide in improvement of Growth and Arsenic-induced Toxicity in Mustard Seedlings*. *Scientific Reports*, 10(1).

**DOI:**[10.1038/s41598-020-62831-0](https://doi.org/10.1038/s41598-020-62831-0)

SINGH, S., PRASAD, S. M., SHARMA, S., DUBEY, N. K., RAMAWAT, N., ET AL. (2020). *Silicon and nitric oxide-mediated mechanisms of cadmium toxicity alleviation in wheat seedlings*. *Physiologia Plantarum*.

**DOI:**[10.1111/ppl.13065](https://doi.org/10.1111/ppl.13065)

SIOPA, C., DIAS, M. C., CASTRO, M., LOUREIRO, J., & CASTRO, S. (2020). *Is selfing a reproductive assurance promoting polyploid establishment? Reduced fitness, leaky self-incompatibility and lower inbreeding depression in neotetraploids*. *American Journal of Botany*.

**DOI:**[10.1002/ajb2.1441](https://doi.org/10.1002/ajb2.1441)

SCHMIDT, C. S., MRNKA, L., FRANTÍK, T., BÁRNET, M., VOSÁTKA, M., & BALDASSARRE ŠVECOVÁ, E. (2020). *Impact of protein hydrolysate biostimulants on growth of barley and wheat and their interaction with symbionts and pathogens*. *Agricultural and Food Science*, 29(3), 222–238.

**DOI:**[10.23986/afsci.84790](https://doi.org/10.23986/afsci.84790)

*SOARES, J. S., SANTIAGO, E. F. & SORGATO, J. C. (2020). Conservation of Schomburgkia crispa Lindl. (Orchidaceae) by reintroduction into a fragment of the Brazilian Cerrado. Journal for Nature Conservation 53.*  
**DOI: 10.1016/j.jnc.2019.125754.**

*SOUZA, D. DE C. V. DE, BESSA, L. A., SILVA, F. G., ROSA, M., ET AL. (2020). Morpho-Anatomical and Physiological Responses Can Predict the Ideal Period for the Transplantation of Hydroponic Seedlings of Hymenaea courbaril, a Neotropical Fruit Tree. Plants, 9(6), 721.*  
**DOI:10.3390/plants9060721**

*TANG, X., LIU, G., JIANG, J., LEI, C., ZHANG, Y., WANG, L., & LIU, X. (2020). Effects of growth irradiance on photosynthesis and photorespiration of Phoebe bournei leaves. Functional Plant Biology.*  
**DOI:10.1071/fp20062**

*TIWARI, R, GLOOR, E, DA CRUZ, WJA, ET AL. (2020). Photosynthetic quantum efficiency in south-eastern Amazonian trees may be already affected by climate change. Plant Cell Environ. 1– 12.*  
**DOI: 10.1111/pce.13770**

*VISHWAKARMA K., SINGH V. P., PRASAD S. M., ET AL. (2020). Silicon and plant growth promoting rhizobacteria differentially regulate AgNP-induced toxicity in Brassica juncea: Implication of nitric oxide. Journal of Hazardous Materials. Volume 390.*  
**DOI: 10.1016/j.jhazmat.2019.121806.**

*VITORINO, L. C., SILVA, F. O. DA, CRUVINEL, B. G., BESSA, L. A., ET AL. (2020). Biocontrol Potential of Sclerotinia sclerotiorum and Physiological Changes in Soybean in Response to Butia archeri Palm Rhizobacteria. Plants, 9(1), 64.*  
**DOI:10.3390/plants9010064**

*WEI, H., LIU, C., HU, J., & JEONG, B. R. (2020). Quality of Supplementary Morning Lighting (SML) During Propagation Period Affects Physiology, Stomatal Characteristics, and Growth of Strawberry Plants. Plants, 9(5), 638.*  
**DOI:10.3390/plants9050638**

*ZHANG, B., ZHANG, H., JING, Q., & WANG, J. (2020). Light pollution on the growth, physiology and chlorophyll fluorescence response of landscape plant perennial ryegrass (*Lolium perenne L.*). Ecological Indicators, 115, 106448.*  
**DOI:10.1016/j.ecolind.2020.106448**

*ZHAO, J., THI, L. T., PARK, Y. G., & JEONG, B. R. (2020). Light Quality Affects Growth and Physiology of *Carpesium triste Maxim.* Cultured In Vitro. Agriculture, 10(7), 258.*  
**DOI:10.3390/agriculture10070258**

## 2019

*ABDULMAJEED, A. M., & QADERI, M. M. (2019). Differential effects of environmental stressors on physiological processes and methane emissions in pea (*Pisum sativum*) plants at various growth stages. Plant Physiology and Biochemistry, 139, 715–723.*  
**DOI:10.1016/j.plaphy.2019.04.030**

ANCÍN M., FERNÁNDEZ-SAN MILLÁN A., LARRAYA L., ET AL. (2019). Overexpression of thioredoxin m in tobacco chloroplasts inhibits the protein kinase STN7 and alters photosynthetic performance. *Journal of Experimental Botany*, Vol. 70, No. 3 pp. 1005–1016.

**DOI:**[10.1093/jxb/ery415](https://doi.org/10.1093/jxb/ery415)

ANDRADE, D., COVARRUBIAS, M. P., BENEDETTO, G., PEREIRA, E. G., & ALMEIDA, A. M. (2019). Differential source–sink manipulation affects leaf carbohydrate and photosynthesis of early- and late-harvest nectarine varieties. *Theoretical and Experimental Plant Physiology*, 31(2), 341–356.

**DOI:**[10.1007/s40626-019-00150-0](https://doi.org/10.1007/s40626-019-00150-0)

ANDRIES A. TEMME, KELLY L. KERR, LISA A. DONOVAN. (2019). Vigour/tolerance trade-off in cultivated sunflower (*Helianthus annuus*) response to salinity stress is linked to leaf elemental composition. *Biorvix*.

**DOI:**[10.1101/447128](https://doi.org/10.1101/447128)

ARUN K. SHANKER, ROBERT COE, XAVIER SIRAUT. (2019). Integrated high-resolution phenotyping, chlorophyll fluorescence induction kinetics and photosystem II dynamics under water stress and heat in Wheat (*Triticum aestivum*). *Biorvix*.

**DOI:**[10.1101/510701](https://doi.org/10.1101/510701)

BALFAGÓN, D., SENGUPTA, S., GÓMEZ-CADENAS, A., FRITSCHI, F. B., AZAD, R., ET AL. (2019). Jasmonic acid is required for plant acclimation to a combination of high light and heat stress. *Plant Physiology*, pp.00956.2019.

**DOI:**[10.1104/pp.19.00956](https://doi.org/10.1104/pp.19.00956)

BULGARELLI, R. G., DE OLIVEIRA SILVA, F. M., BICHARA, S., ANDRADE, S. A. L., & MAZZAFERA, P. (2019). Eucalypts and low phosphorus availability: between responsiveness and efficiency. *Plant and Soil*.

**DOI:**[10.1007/s11104-019-04316-2](https://doi.org/10.1007/s11104-019-04316-2)

CAMEÁN Y. F., BARTÁK M. (2019). Limitation of photosynthetic processes in photosystem II in alpine mosses exposed to low temperatures: Response of chlorophyll fluorescence parameters. *CZECH POLAR REPORTS* 8 (2): 218-229.

**DOI:**[10.5817/CPR2018-2-18](https://doi.org/10.5817/CPR2018-2-18)

CARILLO, P., CIRILLO, C., DE MICCO, V., ARENA, C., DE PASCALE, S., & ROUPHAEL, Y. (2019). Morpho-anatomical, physiological and biochemical adaptive responses to saline water of *Bougainvillea spectabilis* Willd. trained to different canopy shapes. *Agricultural Water Management*, 212, 12–22.

**DOI:**[10.1016/j.agwat.2018.08.037](https://doi.org/10.1016/j.agwat.2018.08.037)

CARILLO, P., ARENA, C., MODARELLI, G. C., DE PASCALE, S., & PARADISO, R. (2019). Photosynthesis in *Ranunculus asiaticus* L.: The Influence of the Hybrid and the Preparation Procedure of Tuberous Roots. *Frontiers in Plant Science*, 10.

**DOI:**[10.3389/fpls.2019.00241](https://doi.org/10.3389/fpls.2019.00241)

CHEN S., GUO Y., SIRAUT X., ET AL. (2019). Nondestructive Phenomic Tools for the Prediction of Heat and Drought Tolerance at Anthesis in Brassica Species. *Plant Phenomics*, 16 pages.

**DOI:**[10.34133/2019/3264872](https://doi.org/10.34133/2019/3264872)

CHILUWAL, A., BHEEMANAHALLI, R., KANAGANAHALLI, V., BOYLE, D., ET AL. (2019). Deterioration of ovary plays a key role in heat stress-induced spikelet sterility in sorghum. *Plant, Cell & Environment*.

**DOI:**[10.1111/pce.13673](https://doi.org/10.1111/pce.13673)

CIRILLO, C., DE MICCO, V., ARENA, C., CARILLO, P., PANNICO, A., DE PASCALE, S., & ROUPHAEL, Y. (2019). *Biochemical, Physiological and Anatomical Mechanisms of Adaptation of Callistemon citrinus and Viburnum lucidum to NaCl and CaCl<sub>2</sub> Salinization*. *Frontiers in Plant Science*, 10.

**DOI:10.3389/fpls.2019.00742**

CORTE-REAL N, VIEIRA DA CUNHA DE MIRANDA P. V., ENDERES L., ET AL. (2019). *Tolerance to salinity in Jatropha curcas are genotype-dependent*. *Brazilian Journal of Development Braz. J. of Develop.*, Curitiba, v. 5, n. 10, p. 22169-22199, out. **DOI:10.34117/bjdv5n10-347**

DANG, F., CHEN, Y., HUANG, Y., HINTELmann, H., SI, Y., & ZHOU, D.-M. (2019). *Discerning the sources of silver nanoparticle in a terrestrial food chain by stable isotope tracer technique*. *Environmental Science & Technology*. **DOI:10.1021/acs.est.8b06135**

DE MICCO, V., AMITRANO, C., STINCA, A., IZZO, L. G., ET AL. (2019). *Dust accumulation due to anthropogenic impact induces anatomical and photochemical changes in leaves of Centranthus ruber growing on the slope of the Vesuvius volcano*. *Plant Biology*.

**DOI:10.1111/plb.12966**

GOMEZ-SANCHEZ A., GONZALEZ-MELENDI P., SANTAMARIA M. E., ET AL. (2019). *Repression of drought-induced cysteine-protease genes alters barley leaf structure and responses to abiotic and biotic stresses*. *Journal of Experimental Botany*, Volume 70, Issue 7. Pages 2143–2155.

**DOI: 10.1093/jxb/ery410**

GONZALEZ, L., ÀVILA, G., CARBÓ, J., BONANY, J., ALEGRE, S., (2019). *Hail nets do not affect the efficacy of metamitron for chemical thinning of apple trees*. *The Journal of Horticultural Science and Biotechnology*, 1–8.

**DOI:10.1080/14620316.2019.1631128**

GONZALEZ, L., BONANY, J., ALEGRE, S., ÀVILA, G., CARBÓ, J., ET AL. (2019). *Brevis thinning efficacy at different fruit size and fluorescence on “Gala” and “Fuji” apples*. *Scientia Horticulturae*, 256.

**DOI:10.1016/j.scienta.2019.05.053**

GONZALEZ, L., TORRES, E., ÀVILA, G., BONANY, J., ET AL. (2019). *Evaluation of chemical fruit thinning efficiency using Brevis® (Metamitron) on apple trees (“Gala”) under Spanish conditions*. *Scientia Horticulturae*, 109003.

**DOI:10.1016/j.scienta.2019.109003**

GONZALEZ, L., TORRES, E., CARBÓ, J. ET AL. (2019). *Effect of different application rates of metamitron as fruitlet chemical thinner on thinning efficacy and fluorescence inhibition in Gala and Fuji apple*. *Plant Growth Regul* 89, 259–271.

**DOI: 10.1007/s10725-019-00531-0**

HAM, J.-G., KIM, H. Y., & KIM, K.-M. (2019). *QTL analysis related to the flag-leaf angle related with it gene in rice (*Oryza sativa* L.)*. *Euphytica*, 215(6).

**DOI:10.1007/s10681-019-2434-1**

HEIN, N. T., WAGNER, D., BHEEMANAHALLI, R., ŠEBELA, D., ET AL. (2019). *Integrating field-based heat tents and cyber-physical system technology to phenotype high night-time temperature impact on winter wheat*. *Plant Methods*, 15(1).

**DOI:10.1186/s13007-019-0424-x**

HERNÁNDEZ-CLEMENTE, R., HORNERO, A., MOTTUS, M. ET AL. (2019). Early Diagnosis of Vegetation Health From High-Resolution Hyperspectral and Thermal Imagery: Lessons Learned From Empirical Relationships and Radiative Transfer Modelling. *Curr Forestry Rep* 5, 169–183.

**DOI:** [10.1007/s40725-019-00096-1](https://doi.org/10.1007/s40725-019-00096-1)

HIDRI, R. , MAHMOUD, O. M. , FARHAT, N. , CORDERO, I. , PUEYO, J. J. , ET AL. (2019), Arbuscular mycorrhizal fungus and rhizobacteria affect the physiology and performance of *Sulla coronaria* plants subjected to salt stress by mitigation of ionic imbalance . *J. Plant Nutr. Soil Sci.*, 182: 451-462.

**DOI:** [10.1002/jpln.201800262](https://doi.org/10.1002/jpln.201800262)

HOSSEINI, A., ZARE MEHRJERDI, M., ALINIAEIFARD, S., & SEIF, M. (2019). Photosynthetic and growth responses of green and purple basil plants under different spectral compositions. *Physiology and Molecular Biology of Plants*.

**DOI:** [10.1007/s12298-019-00647-7](https://doi.org/10.1007/s12298-019-00647-7)

HUSIČKOVÁ, A., HUMPLÍK, J. F., HÝBL, M., SPÍCHAL, L., & LAZÁR, D. (2019). Analysis of Cold-Developed vs. Cold-Acclimated Leaves Reveals Various Strategies of Cold Acclimation of Field Pea Cultivars. *Remote Sensing*, 11(24), 2964.

**DOI:** [10.3390/rs11242964](https://doi.org/10.3390/rs11242964)

IMPA, S. M., VENNAPUSA, A. R., BHEEMANAHALLI, R., SABELA, D., ET AL. (2019). High night temperature induced changes in grain starch metabolism alters starch, protein and lipid accumulation in winter wheat. *Plant, Cell & Environment*.

**DOI:** [10.1111/pce.13671](https://doi.org/10.1111/pce.13671)

IZZO, L. G., ARENA, C., DE MICCO, V., CAPOZZI, F., & ARONNE, G. (2019). Light quality shapes morpho-functional traits and pigment content of green and red leaf cultivars of *Atriplex hortensis*. *Scientia Horticulturae*, 246, 942–950.

**DOI:** [10.1016/j.scientia.2018.11.076](https://doi.org/10.1016/j.scientia.2018.11.076)

KADOGLIDOU, K.; KALAITZIDIS, A.; STAVRAKOUDIS, D.; MYGDALIA, A.; KATSANTONIS, D.(2019). A Novel Compost for Rice Cultivation Developed by Rice Industrial By-Products to Serve Circular Economy. *Agronomy*. 553.

**DOI:** [10.3390/agronomy9090553](https://doi.org/10.3390/agronomy9090553)

KHAN, M. Y., PRAKASH, V., YADAV, V., CHAUHAN, D. K., ET AL. (2019). Regulation of cadmium toxicity in roots of tomato by indole acetic acid with special emphasis on reactive oxygen species production and their scavenging. *Plant Physiology and Biochemistry*.

**DOI:** [10.1016/j.plaphy.2019.05.006](https://doi.org/10.1016/j.plaphy.2019.05.006)

KIM, H., LEE, H., KANG, J., & HWANG, S. (2019). Prohexadione-Calcium Application during Vegetative Growth Affects Growth of Mother Plants, Runners, and Runner Plants of Maehyang Strawberry. *Agronomy*, 9(3), 155.

**DOI:** [10.3390/agronomy9030155](https://doi.org/10.3390/agronomy9030155)

KOSOVÁ V., HÁJEK T., HADINCOVÁ V., MUNZBERGOVA Z. (2019). Ecophysiological traits of a clonal grass in its climate change response. *bioRxiv* 864827.

**DOI:** <https://doi.org/10.1101/864827>

KUGLER, A., ZORIN, B., DIDI-COHEN, S., SIBIRYAK, M., GORELOVA, O., ET AL. (2019). Long-Chain Polyunsaturated Fatty Acids in the Green Microalga *Lobosphaera incisa* Contribute to Tolerance to Abiotic Stresses. *Plant and Cell Physiology*.

**DOI:**[10.1093/pcp/pcz013](https://doi.org/10.1093/pcp/pcz013)

KUSHWAHA, B. K., & SINGH, V. P. (2019). Glutathione and hydrogen sulfide are required for sulfur-mediated mitigation of Cr(VI) toxicity in tomato, pea and brinjal seedlings. *Physiologia Plantarum*.

**DOI:**[10.1111/ppl.13024](https://doi.org/10.1111/ppl.13024)

KVÍDEROVÁ, J., & KUMAR, D. (2019). Response of short-term heat shock on photosynthetic activity of soil crust cyanobacteria. *Protoplasma*.

**DOI:**[10.1007/s00709-019-01418-7](https://doi.org/10.1007/s00709-019-01418-7)

LEE CH-T., HOW-CHIUN W. (2019). Effect of Biofield Treatment on Growth and Physiology of Hydroponically-Grown Lettuce and Bok Choy Plants. *Agrivita*.

**DOI:**[10.17503/agrivita.v41i3.2337](https://doi.org/10.17503/agrivita.v41i3.2337)

LI H., LI H., LV Y., ET AL. (2019). Salt Priming Protects Photosynthetic Electron Transport against Low-Temperature-Induced Damage in Wheat. *Sensors*, 20(1), 62.

**DOI:**[10.3390/s20010062](https://doi.org/10.3390/s20010062)

LIU, Y., REN, X., & JEONG, B. R. (2019). Carbon Dioxide Enrichment Combined with Supplemental Light Improve Growth and Quality of Plug Seedlings of *Astragalus membranaceus* Bunge and *Codonopsis lanceolata* Benth. et Hook. f. *Agronomy*, 9(11), 715.

**DOI:**[10.3390/agronomy9110715](https://doi.org/10.3390/agronomy9110715)

LIU, M., MA, J., KANG, L., WEI, Y., HE, Q., HU, X., & LI, H. (2019). Strong turbulence benefits toxic and colonial cyanobacteria in water: A potential way of climate change impact on the expansion of Harmful Algal Blooms. *Science of The Total Environment*, 670, 613–622.

**DOI:**[10.1016/j.scitotenv.2019.03.253](https://doi.org/10.1016/j.scitotenv.2019.03.253)

LÓPEZ-JURADO, J., BALAO, F., & MATEOS-NARANJO, E. (2019). Polyploidy-mediated divergent light-harvesting and photoprotection strategies under temperature stress in a Mediterranean carnation complex. *Environmental and Experimental Botany*, 103956.

**DOI:**[10.1016/j.envexpbot.2019.103956](https://doi.org/10.1016/j.envexpbot.2019.103956)

MAAI E., NISHIMURA K., TAKISAWA R., ET AL. (2019): Light stress-induced chloroplast movement and midday depression of photosynthesis in sorghum leaves, *Plant Production Science*.

**DOI:**[10.1080/1343943X.2019.1673666](https://doi.org/10.1080/1343943X.2019.1673666)

MAREČKOVÁ, M., BARTÁK, M., & HÁJEK, J. (2019). Temperature effects on photosynthetic performance of Antarctic lichen *Dermatocarpon polyphyllum*: a chlorophyll fluorescence study. *Polar Biology*.

**DOI:**[10.1007/s00300-019-02464-w](https://doi.org/10.1007/s00300-019-02464-w)

MÍGUEZ, F., GÓMEZ-SAGASTI, M. T., HERNÁNDEZ, A., ARTETXE, U., BLANCO, F., ET AL. (2019). In situ phytomanagement with *Brassica napus* and bio-stabilised municipal solid wastes is a suitable strategy for redevelopment of vacant urban land. *Urban Forestry & Urban Greening*, 126550.

**DOI:**[10.1016/j.ufug.2019.126550](https://doi.org/10.1016/j.ufug.2019.126550)

MOGHIMI, N., DESAI, J. S., BHEEMANAHALLI, R., IMPA, S. M., ET AL. (2019). New candidate loci and marker genes on chromosome 7 for improved chilling tolerance in sorghum. *Journal of Experimental Botany*.

**DOI:**[10.1093/jxb/erz143](https://doi.org/10.1093/jxb/erz143)

MOHAN, R., KAUR, T., BHAT, H. A., KHAJURIA, M., PAL, S., & VYAS, D. (2019). Paclobutrazol Induces Photochemical Efficiency in Mulberry (*Morus alba L.*) Under Water Stress and Affects Leaf Yield Without Influencing Biotic Interactions. *Journal of Plant Growth Regulation*.

**DOI:**[10.1007/s00344-019-09975-0](https://doi.org/10.1007/s00344-019-09975-0)

MOSCHEN, S., MARINO, J., NICOSIA, S., HIGGINS, J., ET AL. (2019). Exploring gene networks in two sunflower lines with contrasting leaf senescence phenotype using a system biology approach. *BMC Plant Biology*, 19(1).

**doi:**[10.1186/s12870-019-2021-6](https://doi.org/10.1186/s12870-019-2021-6)

NUÑEZ, C., DUPRÉ, G., MUJICA, K., MELET, L., MEISEL, L., & ALMEIDA, A. M. (2019). Thinning alters the expression of the *PpeSUT1* and *PpeSUT4* sugar transporter genes and the accumulation of translocated sugars in the fruits of an early season peach variety. *Plant Growth Regulation*.

**DOI:**[10.1007/s10725-019-00507-0](https://doi.org/10.1007/s10725-019-00507-0)

OGBAGA C.C., ATHAR H.U.R. (2019). Inclusion of photoprotective parameters in photosynthesis-measuring systems to improve the interpretation of photosynthesis and productivity. *Photosynthetica* 57. (2).

**DOI:**[10.32615/ps.2019.041](https://doi.org/10.32615/ps.2019.041)

OGBAGA, C. C., & ATHAR, H.U.R. (2019). The need to incorporate fast and slow relaxation kinetic parameters into photosynthesis-measuring systems. *Scientific African*, 4, e00106.

**DOI:**[10.1016/j.sciaf.2019.e00106](https://doi.org/10.1016/j.sciaf.2019.e00106)

OTERO, M., SALCEDO, I., TXARTERINA, K., GONZÁLEZ-MURUA, C., & DUÑABEITIA, M. K. (2019). Quality assessment of *Pinus radiata* production under sustainable nursery management based on compost tea. *Journal of Plant Nutrition and Soil Science*.

**DOI:**[10.1002/jpln.201800309](https://doi.org/10.1002/jpln.201800309)

PÉREZ-ROMERO, J. A., BARCIA-PIEDRAS, J. M., REDONDO-GÓMEZ, S., & MATEOS-NARANJO, E. (2019). *Sarcocornia fruticosa* photosynthetic response to short-term extreme temperature events in combination with optimal and sub-optimal salinity concentrations. *Plant Physiology and Biochemistry*.

**DOI:**[10.1016/j.plaphy.2019.12.026](https://doi.org/10.1016/j.plaphy.2019.12.026)

PÉREZ-ROMERO, J. A., DUARTE, B., BARCIA-PIEDRAS, J.-M., MATOS, A. R., ET AL. (2019). Investigating the physiological mechanisms underlying *Salicornia ramosissima* response to atmospheric CO<sub>2</sub> enrichment under coexistence of prolonged soil flooding and saline excess. *Plant Physiology and Biochemistry*, 135, 149–159.

**DOI:**[10.1016/j.plaphy.2018.12.003](https://doi.org/10.1016/j.plaphy.2018.12.003)

PÉREZ-ROMERO, J. A., BARCIA-PIEDRAS, J.-M., REDONDO-GÓMEZ, S., & MATEOS-NARANJO, E. (2019). Impact of short-term extreme temperature events on physiological performance of *Salicornia ramosissima*. Woods under optimal and sub-optimal saline conditions. *Scientific Reports*, 9(1).

**DOI:**[10.1038/s41598-018-37346-4](https://doi.org/10.1038/s41598-018-37346-4)

PTUSHENKO, V. V., SOLOVCHENKO, A. E., BYCHKOV, A. Y., CHIVKUNOVA, O. B., GOLOVIN, A. V., ET AL. (2019). Cationic penetrating antioxidants switch off Mn cluster of photosystem II in situ. *Photosynthesis Research*.

**DOI:**[10.1007/s11120-019-00657-2](https://doi.org/10.1007/s11120-019-00657-2)

*QUIROGA, G., ERICE, G., AROCA, R., CHAUMONT, F., & RUIZ-LOZANO, J. M. (2019). Contribution of the arbuscular mycorrhizal symbiosis to the regulation of radial root water transport in maize plants under water deficit. Environmental and Experimental Botany, 103821.*

**DOI:**[10.1016/j.envexpbot.2019.103821](https://doi.org/10.1016/j.envexpbot.2019.103821)

*QUIROGA, G., ERICE, G., DING, L., CHAUMONT, F., AROCA, R., RUIZ-LOZANO, J.M. (2019). The arbuscular mycorrhizal symbiosis regulates aquaporins activity and improves root cell water permeability in maize plants subjected to water stress. Plant Cell Environ. 42: 2274– 2290.*

**DOI:**[10.1111/pce.13551](https://doi.org/10.1111/pce.13551)

*RAFIQUE, M., ORTAS, I., AHMED, I. A. M., RIZWAN, M., AFRIDI, M. S., SULTAN, T., & CHAUDHARY, H. J. (2019). Potential impact of biochar types and microbial inoculants on growth of onion plant in differently textured and phosphorus limited soils. Journal of Environmental Management, 247, 672–680.*

**DOI:**[10.1016/j.jenvman.2019.06.123](https://doi.org/10.1016/j.jenvman.2019.06.123)

*RUIZ DE LARRINAGA, L., RESCO DE DIOS, V., FABRIKOV, D., GUIL-GUERRERO, J. L., ET AL. (2019). Life after Harvest: Circadian Regulation in Photosynthetic Pigments of Rocket Leaves during Supermarket Storage Affects the Nutritional Quality. Nutrients, 11(7), 1519.*

**DOI:**[10.3390/nu11071519](https://doi.org/10.3390/nu11071519)

*SAKAIGAICHI, T., TSUCHIDA, H., ADACHI, K., ET AL. (2019). Phenological Changes in the Chlorophyll Content and Its Fluorescence in Field-Grown Sugarcane Clones Under Over-Wintering Conditions. Sugar Tech.*

**DOI:**[10.1007/s12355-018-0693-0](https://doi.org/10.1007/s12355-018-0693-0)

*SAN-EUFRASIO B., SÁNCHEZ-LUCAS R., LÓPEZ-HIDALGO C., ET AL. (2020). Responses and Differences in Tolerance to Water Shortage under Climatic Dryness Conditions in Seedlings from Quercus spp. and Andalusian Q. ilex Populations. Forests, 11(6), 707.*

**doi:**[10.3390/f11060707](https://doi.org/10.3390/f11060707)

*SAVCHENKO, T., ROLLETSCHER, H., HEINZEL, N., TIKHONOV, K., & DEHESH, K. (2019). Waterlogging tolerance rendered by oxylipin-mediated metabolic reprogramming in Arabidopsis. Journal of Experimental Botany.*

**DOI:**[10.1093/jxb/erz110](https://doi.org/10.1093/jxb/erz110)

*SEBELA, D., BHEEMANAHLI, R., TAMILSELVAN, A. ET AL (2019). Genetic dissection of photochemical efficiency under water-deficit stress in rice. Plant Physiol. Rep. 24, 328–339.*

**DOI:**[10.1007/s40502-019-00467-7](https://doi.org/10.1007/s40502-019-00467-7)

*SEIFIKALHOR, M., HASSANI, S. B., & ALINIAEIFARD, S. (2019). Seed Priming by Cyanobacteria (*Spirulina platensis*) and Salep Gum Enhances Tolerance of Maize Plant Against Cadmium Toxicity. Journal of Plant Growth Regulation.*

**DOI:**[10.1007/s00344-019-10038-7](https://doi.org/10.1007/s00344-019-10038-7)

*SHANKER A. K., COE R., SIRAUTX., ET AL. (2019). Integrated high-resolution phenotyping, chlorophyll fluorescence induction kinetics and photosystem II dynamics under water stress and heat in Wheat (*Triticum aestivum*). BioRxiv.*

**DOI:**[10.1101/510701](https://doi.org/10.1101/510701)

*SHAO, D., ZHOU, W., BOUMA, T. J., ASAEDA, T., ET AL. (2019). Physiological and biochemical responses of the salt-marsh plant *Spartina alterniflora* to long-term wave exposure. Annals of Botany.*

**DOI:10.1093/aob/mcz067**

*SINGH, A., PRASAD, S. M., & SINGH, S. (2019). Role of nano-powder of *Azadirachta indica* leaves to regulate the physiological responses and metal uptake in *Triticum aestivum* seedlings. Chemistry and Ecology, 1–17.*

**DOI:10.1080/02757540.2019.1579198**

*SINGH, S., & PRASAD, S. M. (2019). Management of chromium (VI) toxicity by calcium and sulfur in tomato and brinjal: implication of nitric oxide. Journal of Hazardous Materials.*

**DOI:10.1016/j.jhazmat.2019.01.044**

*SOUDEK, P., HRDINOVÁ, A., RODRIGUEZ VALSECA, I. M., LHOTÁKOVÁ, Z., ET AL. (2019). Thorium as an environment stressor for growth of *Nicotiana glutinosa* plants. Environmental and Experimental Botany.*

**DOI:10.1016/j.envexpbot.2019.03.027**

*SUSLICHENKO, I. S., & TIKHONOV, A. N. (2019). Photo-reducible plastoquinone pools in chloroplasts of *Tradescantia* plants acclimated to high and low light. FEBS Letters.*

**DOI:10.1002/1873-3468.13366**

*TAN, X., DAI, K., PARAJULI, K., HANG, X., DUAN, Z., & Hu, Y. (2019). Effects of Phenolic Pollution on Interspecific Competition between *Microcystis aeruginosa* and *Chlorella pyrenoidosa* and their Photosynthetic Responses. International Journal of Environmental Research and Public Health, 16(20), 3947.*

**DOI:10.3390/ijerph16203947**

*TEMME, A. A., KERR, K. L., & DONOVAN, L. A. (2019). Vigour/tolerance trade-off in cultivated sunflower (*Helianthus annuus*) response to salinity stress is linked to leaf elemental composition. Journal of Agronomy and Crop Science.*

**DOI:10.1111/jac.12352**

*TIWARI, P. K., SHWETA, SINGH, A. K., SINGH, V. P., PRASAD, S. M., ET AL. (2019). Liquid assisted pulsed laser ablation synthesized copper oxide nanoparticles (CuO-NPs) and their differential impact on rice seedlings. Ecotoxicology and Environmental Safety, 176, 321–329.*

**DOI:10.1016/j.ecoenv.2019.01.120**

*TRAN, T. M., MCCUBBIN, T. J., BIHMIDINE, S., JULIUS, B. T., BAKER, R. F., ET AL. (2019). Maize Carbohydrate partitioning defective33 encodes a MCTP protein and functions in sucrose export from leaves. Molecular Plant.*

**DOI:10.1016/j.molp.2019.05.001**

*UGHY, B., KARLICKÝ, V., DLOUHÝ, O., JAVORNIK, U., MATEROVÁ, Z., ZSIROS, O., ET AL. (2019). Lipid-polymorphism of plant thylakoid membranes. Enhanced non-bilayer lipid phases associated with increased membrane permeability. Physiol Plantarum, 166: 278-287.*

**DOI:10.1111/ppl.12929**

*WEIL, A., SOFER-ARAD, C., BAR-NOY, Y., LIRAN, O., & RUBINOVICH, L. (2019). Comparative study of leaf antioxidant activity as a possible mechanism for frost tolerance in "Hass" and "Ettinger" avocado cultivars. The Journal of Agricultural Science, 1–8.*

**DOI:10.1017/s0021859619000662**

XIA, Q., TAN, J., CHENG, S., JIANG, Y., & GUO, Y. (2019). *Sensing Plant Physiology and Environmental Stress by Automatically Tracking Fj and Fi Features in PSII Chlorophyll Fluorescence Induction*. *Photochemistry and Photobiology*.

**DOI:**[10.1111/php.13141](https://doi.org/10.1111/php.13141)

## 2018

ABDULMAJEED, A., ABO GAMAR, M., & QADERI, M. M. (2018). *Inter- and intra-varietal variation in aerobic methane emissions from environmentally-stressed pea plants*. *Botany*.

**DOI:**[10.1139/cjb-2018-0126](https://doi.org/10.1139/cjb-2018-0126)

ALEKSEEV, A. A., YAKOVLEVA, O. V., & MATORIN, D. N. (2018). *The fluorescence methods for an assessment photosynthetic capacity of plants under the anthropogenic load*.

**DOI:**[10.1063/1.5079382](https://doi.org/10.1063/1.5079382)

ALINIAEIFARD S., SEIF M., ARAB M., ET AL. (2018). *Growth and Photosynthetic Performance of Calendula officinalis under Monochromatic Red Light*. *IJHST. Volume 5, Page 123-132*.

**DOI:**[10.22059/IJHST.2018.261042.248](https://doi.org/10.22059/IJHST.2018.261042.248)

BALFAGÓN, D., ZANDALINAS, S. I., BALIÑO, P., ET AL. (2018). *Involvement of ascorbate peroxidase and heat shock proteins on citrus tolerance to combined conditions of drought and high temperatures*. *Plant Physiology and Biochemistry*, 127, 194–199.

**DOI:**[10.1016/j.plaphy.2018.03.029](https://doi.org/10.1016/j.plaphy.2018.03.029)

BASHRI, G., SINGH, M., MISHRA, R. K., KUMAR, J., ET AL (2018). *Kinetin Regulates UV-B-Induced Damage to Growth, Photosystem II Photochemistry, and Nitrogen Metabolism in Tomato Seedlings*. *Journal of Plant Growth Regulation*, 37(1), 233–245.

**DOI:**[10.1007/s00344-017-9721-7](https://doi.org/10.1007/s00344-017-9721-7)

BAYAT L, ARAB M, ALINIAEIFARD S, SEIF M, LASTOCKINA O, LI T. (2018). *Effects of growth under different light spectra on the subsequent high light tolerance in rose plants*. *AoB PLANTS* 10: ply052;

**DOI:**[10.1093/aobpla/ply052](https://doi.org/10.1093/aobpla/ply052)

BENKOV, M. A., YATSENKO, A. M., & TIKHONOV, A. N. (2018). *Light acclimation of shade-tolerant and sun-resistant Tradescantia species: photochemical activity of PSII and its sensitivity to heat treatment*. *Photosynthesis Research*.

**DOI:**[10.1007/s11120-018-0535-7](https://doi.org/10.1007/s11120-018-0535-7)

BUEZO, J., SANZ-SAEZ, Á., MORAN, J. F., SOBA, D., ARANJUELO, I., & ESTEBAN, R. (2018). *Drought tolerance response of high-yielding soybean varieties to mild drought: physiological and photochemical adjustments*. *Physiologia Plantarum*.

**DOI:**[10.1111/ppl.12864](https://doi.org/10.1111/ppl.12864)

CABRITA, M. T., DUARTE, B., CESÁRIO, R., ET AL. (2018). *Mercury mobility and effects in the salt-marsh plant Halimione portulacoides: Uptake, transport, and toxicity and tolerance mechanisms*. *Science of The Total Environment*.

**DOI:**[10.1016/j.scitotenv.2018.08.335](https://doi.org/10.1016/j.scitotenv.2018.08.335)

CAINE, R. S., YIN, X., SLOAN, J., ET AL. (2018). Rice with reduced stomatal density conserves water and has improved drought tolerance under future climate conditions. *New Phytologist*.

**DOI:**[10.1111/nph.15344](https://doi.org/10.1111/nph.15344)

CHEKANOV, K., VASILIEVA, S., SOLOVCHENKO, A., & LOBAKOVA, E. (2018). Reduction of photosynthetic apparatus plays a key role in survival of the microalga *Haematococcus pluvialis* (Chlorophyceae) at freezing temperatures. *Photosynthetica*.

**DOI:**[10.1007/s11099-018-0841-5](https://doi.org/10.1007/s11099-018-0841-5)

DUARTE, B., PRATA, D., MATOS, A. R., CABRITA, M. T., ET AL. (2019). Ecotoxicity of the lipid-lowering drug bezafibrate on the bioenergetics and lipid metabolism of the diatom *Phaeodactylum tricornutum*. *Science of The Total Environment*, 650, 2085–2094.

**DOI:**[10.1016/j.scitotenv.2018.09.354](https://doi.org/10.1016/j.scitotenv.2018.09.354)

FENG, S., FU, L., XIA, Q., TAN, J., JIANG, Y., & GUO, Y. (2018). Modelling and simulation of photosystem II chlorophyll fluorescence transition from dark-adapted state to light-adapted state . *IET Systems Biology*. **DOI:**[10.1049/iet-syb.2018.5003](https://doi.org/10.1049/iet-syb.2018.5003)

FIGLIOLI, F., SORRENTINO, M. C., MEMOLI, V., ARENA, C., ET AL. (2018). Overall plant responses to Cd and Pb metal stress in maize: Growth pattern, ultrastructure, and photosynthetic activity. *Environmental Science and Pollution Research*.

**DOI:**[10.1007/s11356-018-3743-y](https://doi.org/10.1007/s11356-018-3743-y)

FRY, E. L., JOHNSON, G. N., HALL, A. L., PRITCHARD, W. J., BULLOCK, J. M., & BARDGETT, R. D. (2018). Drought neutralises plant-soil feedback of two mesic grassland forbs. *Oecologia*, 186(4), 1113–1125.

**DOI:**[10.1007/s00442-018-4082-x](https://doi.org/10.1007/s00442-018-4082-x)

GÁLVEZ, S., MÉRIDA-GARCÍA, R., CAMINO, C., BORRILL, P., ET AL. (2018). Hotspots in the genomic architecture of field drought responses in wheat as breeding targets. *Functional & Integrative Genomics*.

**DOI:**[10.1007/s10142-018-0639-3](https://doi.org/10.1007/s10142-018-0639-3)

HANELT, D. (2018). Photosynthesis assessed by chlorophyll fluorescence. *Bioassays*, 169–198.

**DOI:**[10.1016/b978-0-12-811861-0.00009-7](https://doi.org/10.1016/b978-0-12-811861-0.00009-7)

HERNÁNDEZ-CLEMENTE R., NORTH P., HORNERO A. AND P. J. ZARCO-TEJADA. (2018). Monitoring Forest Health with Sun-Induced Chlorophyll Fluorescence Observations and 3-D Radiative Transfer Modeling. *IEEE International Geoscience and Remote Sensing Symposium, Valencia, 2018*, pp. 5999-6002.

**DOI:**[10.1109/IGARSS.2018.8519389](https://doi.org/10.1109/IGARSS.2018.8519389)

JACOTOT, A., MARCHAND, C., GENSOUS, S., & ALLENBACH, M. (2018). Effects of elevated atmospheric CO<sub>2</sub> and increased tidal flooding on leaf gas-exchange parameters of two common mangrove species: *Avicennia marina* and *Rhizophora stylosa*. *Photosynthesis Research*.

**DOI:**[10.1007/s11120-018-0570-4](https://doi.org/10.1007/s11120-018-0570-4)

KALHOR, M. S., ALINIAEIFARD, S., SEIF, M., ET AL. (2018). Enhanced salt tolerance and photosynthetic performance: Implication of  $\gamma$ -amino butyric acid application in salt-exposed lettuce (*Lactuca sativa* L.) plants. *Plant Physiology and Biochemistry*, 130, 157–172.

**DOI:**[10.1016/j.plaphy.2018.07.003](https://doi.org/10.1016/j.plaphy.2018.07.003)

KANECHI M. (2018). *Growth and Photosynthesis under Pulsed Lighting.*, IntechOpen,  
**DOI: 10.5772/intechopen.75519**

KAŇA, R. (2018). *Application of spectrally resolved fluorescence induction to study light-induced nonphotochemical quenching in algae. Photosynthetica.*  
**DOI: 10.1007/s11099-018-0780-1**

KIM, S. W., GUPTA, R., MIN, C. W., LEE, S. H., CHEON, Y. E., ET AL. (2018). *Label-free quantitative proteomic analysis of Panax ginseng leaves upon exposure to heat stress. Journal of Ginseng Research.*  
**DOI:10.1016/j.jgr.2018.09.005**

KUPPER, H., BENEDIKY, Z., MORINA, F., ANDRESEN, E., SHAIK MISHRA, A. S., & TRTILEK, M. (2018). *Analysis of OJIP chlorophyll fluorescence kinetics and QA re-oxidation kinetics by direct fast imaging. Plant Physiology,* pp.00953.2018.  
**DOI:10.1104/pp.18.00953**

KVÍDEROVÁ, J., SOUQUIERES, C.-E., & ELSTER, J. (2018). *Ecophysiology of photosynthesis of Vaucheria sp. mats in a Svalbard tidal flat. Polar Science.*  
**doi:10.1016/j.polar.2018.11.006**

LACALLE R. G., GÓMEZ-SAGASTI M. T., ARTETXE U., ET AL. (2018). *Brassica napus has a key role in the recovery of the health of soils contaminated with metals and diesel by rhizoremediation. Science of The Total Environment.* 618. Pages 347-356.  
**DOI: 10.1016/j.scitotenv.2017.10.334**

LI, HE., CHAPPELL, M., & ZHANG, D. (2018). *Evaluation of Twenty-one Mountain Laurel Cultivars for Container and Landscape Performance in the Southeastern United States, HORTTECHNOLOGY HORTTE, 28(6), 867-874.*  
**DOI: 10.21273/HORTTECH04174-18**

LI, Y., YANG, M., LIU, L., ZHANG, R., ET AL. (2018). *Effects of 1-butyl-3-methylimidazolium chloride on the photosynthetic system and metabolism of maize ( Zea mays L.) seedlings. Ecotoxicology and Environmental Safety,* 161, 648–654.  
**DOI:10.1016/j.ecoenv.2018.06.037**

MAZURENKO, S., BIDMANOVA, S., KOTLANOVA, M., DAMBORSKY, J., & PROKOP, Z. (2018). *Sensitive operation of enzyme-based biodevices by advanced signal processing. PLOS ONE, 13(6), e0198913.*  
**doi:10.1371/journal.pone.0198913**

MONTEIRO, D. R., MELO, H. F. DE, LINS, C. M. T., ET AL. (2018). *Chlorophyll a fluorescence in saccharine sorghum irrigated with saline water. Revista Brasileira de Engenharia Agrícola e Ambiental,* 22(10), 673–678.  
**DOI:10.1590/1807-1929/agriambi.v22n10p673-678**

NAVARRO-CERRILLO, R. M., RUIZ GÓMEZ, F. J., CABRERA-PUERTO, R. J., ET AL. (2018). *Growth and physiological sapling responses of eleven Quercus ilex ecotypes under identical environmental conditions. Forest Ecology and Management,* 415-416, 58–69.  
**DOI:10.1016/j.foreco.2018.01.004**

NIEWIADOMSKA, E., BRÜCKNER, K., MULISCH, M., ET AL. (2018). *Lack of tocopherols influences the PSII antenna and the functioning of photosystems under low light. Journal of Plant Physiology,* 223, 57–64.

DOI:[10.1016/j.jplph.2018.02.005](https://doi.org/10.1016/j.jplph.2018.02.005)

ODILBEKOV, F., ARMONIENÉ, R., HENRIKSSON, T., & CHAWADE, A. (2018). Proximal Phenotyping and Machine Learning Methods to Identify Septoria Tritici Blotch Disease Symptoms in Wheat. *Frontiers in Plant Science*, 9.

DOI:[10.3389/fpls.2018.00685](https://doi.org/10.3389/fpls.2018.00685)

OH D., RYU J. H., OH S., JEONG H., PARK J., ET AL. (2018). Optical Sensing for Evaluating the Severity of Disease Caused by *Cladosporium* sp. in Barley under Warmer Conditions. *Plant Pathol J*. 2018 Jun;34(3):236-240.

DOI: [10.5423/PPJ.NT.11.2017.0247](https://doi.org/10.5423/PPJ.NT.11.2017.0247).

OLARANONT, Y., STEWART, A. B., & TRAIPERM, P. (2018). Physiological and anatomical responses of a common beach grass to crude oil pollution. *Environmental Science and Pollution Research*.

doi:[10.1007/s11356-018-2808-2](https://doi.org/10.1007/s11356-018-2808-2)

OYIGA, B. C., OGBONNAYA, F. C., SHARMA, R. C., BAUM, M., LÉON, J., & BALLVORA, A. (2018). Genetic and transcriptional variations in NRAMP-2 and OPAQUE1 genes are associated with salt stress response in wheat. *Theoretical and Applied Genetics*.

DOI:[10.1007/s00122-018-3220-5](https://doi.org/10.1007/s00122-018-3220-5)

PARADISO, R., ARENA, C., ROUPHAEL, Y., d' AQUINO, L., MAKRIS, K., VITAGLIONE, P., & DE PASCALE, S. (2018). Growth, photosynthetic activity and tuber quality of two potato cultivars in controlled environment as affected by light source. *Plant Biosystems - An International Journal Dealing with All Aspects of Plant Biology*, 1–11.

DOI:[10.1080/11263504.2018.1549603](https://doi.org/10.1080/11263504.2018.1549603)

PÉREZ-ROMERO, J. A., IDASZKIN, Y. L., DUARTE, B., ET AL. (2018). Atmospheric CO<sub>2</sub> enrichment effect on the Cu-tolerance of the C<sub>4</sub> cordgrass *Spartina densiflora*. *Journal of Plant Physiology*, 220, 155–166.

DOI:[10.1016/j.jplph.2017.11.005](https://doi.org/10.1016/j.jplph.2017.11.005)

PONTES M. S., MONTEFUSCO-PEREIRA C. V., MISRA B. B., ET AL. (2018). High-throughput phenotyping by applying digital morphometrics and fluorescence induction curves in seeds to identifying variations: A case study of *Annona* (Annonaceae) species. *Information Processing in Agriculture*.

DOI: [10.1016/j.inpa.2018.07.001](https://doi.org/10.1016/j.inpa.2018.07.001)

QIAN X., JINGLU T., XUNSHENG J., ET AL. (2018) Modelling and simulation of chlorophyll fluorescence from photosystem II as affected by temperature. *IET Systems Biology*, 12, (6), p. 304-310.

DOI: [10.1049/iet-syb.2018.5030](https://doi.org/10.1049/iet-syb.2018.5030)

RIVERO, J., ÁLVAREZ, D., FLORS, V., AZCÓN-AGUILAR, C., & POZO, M. J. (2018). Root metabolic plasticity underlies functional diversity in mycorrhiza-enhanced stress tolerance in tomato. *New Phytologist*.

DOI:[10.1111/nph.15295](https://doi.org/10.1111/nph.15295)

RUIZ GÓMEZ, F., PÉREZ-DE-LUQUE, A., SÁNCHEZ-CUESTA, R., QUERO, J., & NAVARRO CERRILLO, R. (2018). Differences in the Response to Acute Drought and *Phytophthora cinnamomi* Rands Infection in *Quercus ilex* L. Seedlings. *Forests*, 9(10), 634.

DOI:[10.3390/f9100634](https://doi.org/10.3390/f9100634)

SANTAMARIA, M. E., DIAZ, I., & MARTINEZ, M. (2018). Dehydration Stress Contributes to the Enhancement of Plant Defense Response and Mite Performance on Barley. *Frontiers in Plant Science*, 9. DOI:[10.3389/fpls.2018.00458](https://doi.org/10.3389/fpls.2018.00458)

*SHANNON, C., QUINN, CH., STEBBING, PD ET AL. (2018) The practical application of hot water to reduce the introduction and spread of aquatic invasive alien species. Management of Biological Invasions, 9 (4). pp. 417-423. ISSN 1989-8649*

**DOI: 10.3391/mbi.2018.9.4.05**

*SINGH A., PRASAD S. M., SINGH S. (2018). Impact of nano ZnO on metabolic attributes and fluorescence kinetics of rice seedlings. Environmental Nanotechnology, Monitoring & Management. 9.*

**DOI: 10.1016/j.enmm.2017.11.006.**

*SINGH S., SINGH A., SRIVASTAVA P. K., ET AL. (2018). Cadmium toxicity and its amelioration by kinetin in tomato seedlings vis-à-vis ascorbate-glutathione cycle. Journal of Photochemistry and Photobiology B: Biology. 178.*

**DOI: 10.1016/j.jphotobiol.2017.10.025.**

*SOFRONOVA, V. E., ANTAL, T. K., DYMOVA, O. V., & GOLOVKO, T. K. (2018). Seasonal Changes in Primary Photosynthetic Events during Low Temperature Adaptation of Pinus sylvestris in Central Yakutia. Russian Journal of Plant Physiology, 65(5), 658–666.*

**DOI: 10.1134/s1021443718050163**

*STOJANOVA B, ŠURINOVÁ M, KLÁPŠTĚ J, KOLÁŘÍKOVÁ V, ET AL. (2018) Adaptive differentiation of Festuca rubra along a climate gradient revealed by molecular markers and quantitative traits. PLoS ONE 13(4).*

**DOI: 10.1371/journal.pone.0194670**

*TRAN, N.-H. T., OGUCHI, T., AKATSUKA, N., MATSUNAGA, E., ET AL. (2018). Development and Evaluation of Novel Salt-Tolerant Eucalyptus Trees by Molecular Breeding Using an RNA-Binding-Protein Gene Derived from Common Ice Plant (*Mesembryanthemum crystallinum* L.). Plant Biotechnology Journal.*

**DOI: 10.1111/pbi.13016**

*TŮMOVÁ L, TARKOWSKÁ D, ŘEHØŘOVÁ K, ET AL. (2018) Drought-tolerant and drought-sensitive genotypes of maize (*Zea mays* L.) differ in contents of endogenous brassinosteroids and their drought-induced changes. PLoS ONE 13(5).*

**DOI: 10.1371/journal.pone.0197870**

*URBAN, O., HLAVÁČOVÁ, M., KLEM, K., ET AL. (2018). Combined effects of drought and high temperature on photosynthetic characteristics in four winter wheat genotypes. Field Crops Research, 223, 137–149.*

**DOI: 10.1016/j.fcr.2018.02.029**

*VÍLCHEZ, J. I., NIEHAUS, K., DOWLING, D. N., GONZÁLEZ-LÓPEZ, J., & MANZANERA, M. (2018). Protection of Pepper Plants from Drought by *Microbacterium* sp. 3J1 by Modulation of the Plant's Glutamine and α-ketoglutarate Content: A Comparative Metabolomics Approach. Frontiers in Microbiology, 9.*

**DOI: 10.3389/fmicb.2018.00284**

*VIVES-PERIS, V., GÓMEZ-CADENAS, A., & PÉREZ-CLEMENTE, R. M. (2018). Salt stress alleviation in citrus plants by plant growth-promoting rhizobacteria *Pseudomonas putida* and *Novosphingobium* sp. Plant Cell Reports.*

**DOI: 10.1007/s00299-018-2328-z**

*WALKER, B. J., BUSCH, F. A., DRIEVER, S. M., KROMDIJK, J., & LAWSON, T. (2018). Survey of Tools for Measuring In Vivo Photosynthesis. Photosynthesis, 3–24.*

**DOI: 10.1007/978-1-4939-7786-4\_1**

WU X., TANG Y., LI CH., (2018). Individual and combined effects of soil waterlogging and compaction on physiological characteristics of wheat in southwestern China. *Field Crops Research*. Volume 215.  
**DOI: 10.1016/j.fcr.2017.10.016**

WIJEWARDANA, C., REDDY, K. R., SHANKLE, M. W., MEYERS, S., & GAO, W. (2018). Low and high-temperature effects on sweetpotato storage root initiation and early transplant establishment. *Scientia Horticulturae*, 240, 38–48.  
**DOI:10.1016/j.scientia.2018.05.052**

XIA Q., TAN J., CHENG S, ET AL. (2018). Sensing Plant Physiology and Environmental Stress by Automatically Tracking F<sub>j</sub> and F<sub>i</sub> Features in PSII Chlorophyll Fluorescence Induction. *bioRxiv* 362939;  
**DOI: <https://DOI.org/10.1101/362939>**

YARKHUNOVA, Y., GUADAGNO, C. R., RUBIN, M. J., DAVIS, S. J., EWERS, B. E., & WEINIG, C. (2018). Circadian rhythms are associated with variation in photosystem II function and photoprotective mechanisms. *Plant, Cell & Environment*.

**DOI:10.1111/pce.13216**

YILMAZ B., CIMEN B., INCESU M., ET AL. (2018). Rootstock influences on Rio Red grapefruit variety. *Applied Ecology and Environmental Research*. Volume 16(4). 4065-4080.  
**DOI: 10.15666/aeer/1604\_40654080**

ZARCO-TEJADA, P. J., CAMINO, C., BECK, P. S. A., CALDERON, R., HORNERO, A., ET AL.(2018). Previsual symptoms of *Xylella fastidiosa* infection revealed in spectral plant-trait alterations. *Nature Plants*, 4(7), 432–439.  
**DOI:10.1038/s41477-018-0189-7**

## 2017

AJIGBOYE O. O., LU CH., MURCHIE E. H., ET AL. (2017). Altered gene expression by sedaxane increases PSII efficiency, photosynthesis and growth and improves tolerance to drought in wheat seedlings. *Pesticide Biochemistry and Physiology*. Volume 137. Pages 49-61.  
**DOI: 10.1016/j.pestbp.2016.09.008.**

AL-HARRASI I., AL-YAHYAI R., YAISH M.W. (2018). Differential DNA methylation and transcription profiles in date palm roots exposed to salinity. *PLoS ONE* 13.  
**DOI: 10.1371/journal.pone.0191492**

ARENA C., FIGLIOLI F., SORRENTINO M. C., ET AL. (2017). Ultrastructural, protein and photosynthetic alterations induced by Pb and Cd in *Cynara cardunculus L.*, and its potential for phytoremediation. *Ecotoxicology and Environmental Safety*. 145.  
**DOI: 10.1016/j.ecoenv.2017.07.015.**

CHEKANOV K., SCHASTNAYA E., SOLOVCHENKO A., ET AL. (2017). Effects of CO<sub>2</sub> enrichment on primary photochemistry, growth and astaxanthin accumulation in the chlorophyte *Haematococcus pluvialis*. *Journal of Photochemistry and Photobiology B: Biology*. Volume 171.  
**DOI 10.1016/j.jphotobiol.2017.04.028.**

DUARTE B., PEDRO S., MARQUES J. C., ET AL. (2017). *Zostera noltii* development probing using chlorophyll a transient analysis (JIP-test) under field conditions: Integrating physiological insights into a photochemical stress index. *Ecological Indicators*. Volume 76.

**DOI:** [10.1016/j.ecolind.2017.01.023](https://doi.org/10.1016/j.ecolind.2017.01.023).

*DUARTE, B., CABRITA, M. T., GAMEIRO, C., ET AL. (2017). Disentangling the photochemical salinity tolerance in Aster tripolium L.: connecting biophysical traits with changes in fatty acid composition. Plant Biol J, 19.*

**DOI:** [10.1111/plb.12517](https://doi.org/10.1111/plb.12517)

*HERNÁNDEZ-CLEMENTE R., NORTH P.R.J., HORNERO A., ET AL. (2017). Assessing the effects of forest health on sun-induced chlorophyll fluorescence using the FluorFLIGHT 3-D radiative transfer model to account for forest structure, Remote Sensing of Environment,. Volume 193. Pages 165-179.*

**DOI:** [10.1016/j.rse.2017.02.012](https://doi.org/10.1016/j.rse.2017.02.012).

*KUMAR D., TRIPATHI D. K., LIU S., ET AL.(2017). Pongamia pinnata (L.) Pierre tree seedlings offer a model species for arsenic phytoremediation. Plant Gene. Volume 11.*

**DOI:** [10.1016/j.plgene.2017.06.002](https://doi.org/10.1016/j.plgene.2017.06.002).

*LEE M. W., HUFFAKER A., CRIPPEN D., ET AL. (2017). Plant Elicitor Peptides Promote Plant Defenses against Nematodes in Soybean. Molecular Plant Pathology.*

**DOI:** [10.1111/mpp.12570](https://doi.org/10.1111/mpp.12570)

*MARTEL A. B. AND QADERI M. M. (2017). Light quality and quantity regulate aerobic methane emissions from plants. Physiol Plantarum. Volume 159.*

**DOI:** [10.1111/ppl.12514](https://doi.org/10.1111/ppl.12514)

*MISHRA R. K., KUMAR J., SRIVASTAVA P. K., ET AL. (2017). PSII photochemistry, oxidative damage and anti-oxidative enzymes in arsenate-stressed Oryza sativa L. Seedlings. Chemistry and Ecology. 33.*

**DOI:** [10.1080/02757540.2016.1265516](https://doi.org/10.1080/02757540.2016.1265516)

*OLIVEIRA T. M., YAHMED J. B., DUTRA J. ET AL. (2017). Better tolerance to water deficit in doubled diploid 'Carrizo citrange' compared to diploid seedlings is associated with more limited water consumption. Acta Physiol Plant. 39.*

**DOI:** [10.1007/s11738-017-2497-3](https://doi.org/10.1007/s11738-017-2497-3)

*PARADISO R., ARENA C., DE MICCO V., ET AL. (2017). Changes in Leaf Anatomical Traits Enhanced Photosynthetic Activity of Soybean Grown in Hydroponics with Plant Growth-Promoting Microorganisms. Frontiers in Plant Science. Volume 8.*

**DOI:** [10.3389/fpls.2017.00674](https://doi.org/10.3389/fpls.2017.00674)

*PTUSHENKO V.V., PTUSHENKO O.S., SAMOILOVA O.P., ET AL. (2017). The analysis of photoprotection and apparent non-photochemical quenching of chlorophyll fluorescence in Tradescantia leaves based on the rate of irradiance-induced changes in optical transparency. Biochemistry (Moscow). Volume 82.*

**DOI:** [10.1134/S0006297917010072](https://doi.org/10.1134/S0006297917010072)

*PUGLIELLI G., REDONDO-GÓMEZ S., GRATANI L., ET AL. (2017). Highlighting the differential role of leaf paraheliotropism in two Mediterranean Cistus species under drought stress and well-watered conditions. Journal of Plant Physiology. Volume 213.*

**DOI:** [10.1016/j.jplph.2017.02.015](https://doi.org/10.1016/j.jplph.2017.02.015).

PUSHKAREVA E., KVÍDEROVÁ J., ŠIMEK M., ET AL. (2017). Nitrogen fixation and diurnal changes of photosynthetic activity in Arctic soil crusts at different development stage. *European Journal of Soil Biology*. Volume 79. Pages 21-30

**DOI:** [10.1016/j.ejsobi.2017.02.002](https://doi.org/10.1016/j.ejsobi.2017.02.002).

QUIROGA G., ERICE G., AROCA R., ET AL. (2017). Arbuscular mycorrhizal symbiosis and salicylic acid regulate aquaporins and root hydraulic properties in maize plants subjected to drought. *Agricultural Water Management*.

**DOI:** [10.1016/j.agwat.2017.12.012](https://doi.org/10.1016/j.agwat.2017.12.012).

REARDON M. E. AND QADERI M. M. (2017). Individual and interactive effects of temperature, carbon dioxide and abscisic acid on mung bean (*Vigna radiata*) plants. *Journal of Plant Interactions* Vol. 12.

**DOI:** [10.1080/17429145.2017.1353654](https://doi.org/10.1080/17429145.2017.1353654)

SCHERBAKOV, P., ISMAGULOVA, T., CHERNOV, T., GORELOVA, O., ET AL. (2017). A new subarctic strain of *Tetradesmus obliquus*. Part II: comparative studies of CO<sub>2</sub>-stress tolerance. *Journal of Applied Phycology*.

**DOI:** [10.1007/s10811-017-1334-9](https://doi.org/10.1007/s10811-017-1334-9)

SELVARAJ, M.G., ISHIZAKI, T., VALENCIA, M., ET AL. (2017). Overexpression of an ARABIDOPSIS THALIANA galactinol synthase gene improves drought tolerance in transgenic rice and increased grain yield in the field. *Plant Biotechnol. J.*

**DOI:** [10.1111/pbi.12731](https://doi.org/10.1111/pbi.12731)

SINGH M., KUSHWAHA K. B., SINGH, S., ET AL. (2017). Sulphur alters chromium (VI) toxicity in *Solanum melongena* seedlings: Role of sulphur assimilation and sulphur-containing antioxidants. *Plant Physiology and Biochemistry*. Volume 112.

**DOI:** [10.1016/j.plaphy.2016.12.024](https://doi.org/10.1016/j.plaphy.2016.12.024).

SINGH S. & PRASAD S. M. (2017) Effects of 28-homobrassinoloid on key physiological attributes of *SOLANUM LYCOPERSICUM* seedlings under cadmium stress: Photosynthesis and nitrogen metabolism. *Plant Growth Regul J.* Volume 82.

**DOI:** [10.1007/s10725-017-0248-5](https://doi.org/10.1007/s10725-017-0248-5)

SCHMIDT CH. S., MRNKA, FRANTÍK T., ET AL. (2017). Combined effects of fungal inoculants and the cytokinin-like growth regulator thidiazuron on growth, phytohormone contents and endophytic root fungi in *Miscanthus × giganteus*. *Plant Physiology and Biochemistry*. 120.

**DOI:** [10.1016/j.plaphy.2017.09.016](https://doi.org/10.1016/j.plaphy.2017.09.016).

SOUTH K. A., THOMAS P. A., VAN IERSEL M. W., ET AL. (2017). Ice Cube Irrigation of Potted *PHALAENOPSIS* Orchids in Bark Media Does Not Decrease Display Life. *HortScience*. 52.

**DOI:** [10.21273/HORTSCI12212-17](https://doi.org/10.21273/HORTSCI12212-17)

TAKAGI H., KIMOTO K., FUJIKI T. ET AL. (2017). Effect of nutritional condition on photosymbiotic consortium of cultured *GLOBIGERINOIDES SACCOLIFER* (*Rhizaria, Foraminifera*). *Symbiosis*

**DOI:** [10.1007/s13199-017-0530-3](https://doi.org/10.1007/s13199-017-0530-3)

TRIPATHI D. K., MISHRA R. K., SINGH S., ET AL. (2017). Nitric Oxide Ameliorates Zinc Oxide Nanoparticles Phytotoxicity in Wheat Seedlings: Implication of the Ascorbate–Glutathione Cycle. *Frontiers in Plant Science*. Volume 8.

**DOI:** [10.3389/fpls.2017.00001](https://doi.org/10.3389/fpls.2017.00001)

TRIPATHI D. K., SINGH S., SINGH S., ET AL. (2017). Nitric oxide alleviates silver nanoparticles (AgNps)-induced phytotoxicity in *Pisum sativum* seedlings. *Plant Physiology and Biochemistry*. Volume 110.

**DOI: 10.1016/j.plaphy.2016.06.015.**

TRIPATHI D. K., SINGH S., SINGH V. P., ET AL. (2017). Silicon nanoparticles more effectively alleviated UV-B stress than silicon in wheat (*Triticum aestivum*) seedlings, *Plant Physiology and Biochemistry*. Volume 110.

**DOI: 10.1016/j.plaphy.2016.06.026.**

ZANDALINAS S. I., BALFAGÓN D., ARBONA V., ET AL. (2017). Regulation of citrus responses to the combined action of drought and high temperatures depends on the severity of water deprivation. *Physiol Plantarum*.

**DOI: 10.1111/ppl.12643**

ZORIN B., PAL-NATH D., LUKYANOV A., ET AL. (2017). Arachidonic acid is important for efficient use of light by the microalga *lobosphaera incisa* under chilling stress. *Biochimica et Biophysica Acta - Molecular and Cell Biology of Lipids*.

**DOI 10.1016/j.bbapclip.2017.04.008**

## 2016

AHMED S., ARIYARATNE M., PATEL J., ET AL. (2016). Altered expression of polyamine transporters reveals a role for spermidine in the timing of flowering and other developmental response pathways., *Plant Science*.

**DOI: 10.1016/j.plantsci.2016.12.002**

AJIGBOYE O. O., BOUSQUET L., MURCHIE E. H. ET AL. (2016). Chlorophyll fluorescence parameters allow the rapid detection and differentiation of plant responses in three different wheat pathosystems. *Functional Plant Biology*. Volume 43. Pages 356–369.

**DOI: 10.1071/FP15280**

AJIGBOYE O.O., LU C., MURCHIE E. H. ET AL. (2016) Altered gene expression by sedaxane increases PSII efficiency, photosynthesis and growth and improves tolerance to drought in wheat seedlings. *Pesticide Biochemistry and Physiology*.

**DOI: 10.1016/j.pestbp.2016.09.008**

ATHAR H. R., AMBREEN S., JAVED M. ET AL. (2016) Influence of sub-lethal crude oil concentration on growth, water relations and photosynthetic capacity of maize (*Zea mays L.*) plants. *Environmental Science and Pollution Research*. Volume 23, Issue 18, Pages 18320–18331.

**DOI: 10.1007/s11356-016-6976-7**

BARÁNYIOVÁ I. AND KLEM K. (2016) Effect of application of growth regulators on the physiological and yield parameters of winter wheat under water deficit. *Plant, Soil and Environment*. Volume 62, No. 3, Pages 114–120.

**DOI: 10.17221/778/2015-PSE**

CHEKANOV K., LUKYANOV A., BOUSSIBA S. ET AL. (2016) Modulation of photosynthetic activity and photoprotection in *Haematococcus pluvialis* cells during their conversion into haematocysts and back. *Photosynthesis Research*. Volume 128, Issue 3, Pages 313–323.

**DOI: 10.1007/s11120-016-0246-x**

*CHOI H. G., MOON B. Y. AND KANG N. J. (2016). Correlation between Strawberry (*Fragaria ananassa* Duch.) Productivity and Photosynthesis-Related Parameters under Various Growth Conditions. *Frontiers in Plant Science*. Volume 7.*

**DOI:** [10.3389/fpls.2016.01607](https://doi.org/10.3389/fpls.2016.01607)

*DUARTE B., CABRITA M. T., GAMEIRO C. ET AL. (2016) Disentangling the photochemical salinity tolerance in *Aster tripolium* L. : Connecting biophysical traits with changes in the fatty acid composition. *Plant biology*.*

**DOI:** [10.1111/plb.12517](https://doi.org/10.1111/plb.12517)

*ESTEBAN R., ROYO B., URARTE E. ET AL. (2016) Both Free Indole-3-Acetic Acid and Photosynthetic Performance are Important Players in the Response of *Medicago truncatula* to Urea and Ammonium Nutrition Under Axenic Conditions. *Frontiers in Plant Science*. Volume 7.*

**DOI:** [10.3389/fpls.2016.00140](https://doi.org/10.3389/fpls.2016.00140)

*FRANCO-NAVARRO, J.D., BRUMÓS, J., ROSALES, M.A., CUBERO-FONT, P., ET AL. (2016). Chloride regulates leaf cell size and water relations in tobacco plants. *Journal of Experimental Botany*, 67 (3): 873-891.*

**DOI:** [10.1093/jxb/erv502](https://doi.org/10.1093/jxb/erv502)

*FROSI G., BARROS V. A., OLIVEIRA M. T., ET AL. (2016). Symbiosis with AMF and leaf Pi supply increases water deficit tolerance of woody species from seasonal dry tropical forest. *Journal of Plant Physiology*. Volume 207.*

**DOI:** [10.1016/j.jplph.2016.11.002](https://doi.org/10.1016/j.jplph.2016.11.002)

*HIDRI R., BAREA J.M., MAHMOUD O. MB. ET AL. (2016) Impact of microbial inoculation on biomass accumulation by *Sulla carnosa* provenances, and in regulating nutrition, physiological and antioxidant activities of this species under non-saline and saline conditions. *Journal of Plant Physiology*. Volume 201, Pages 28–41.*

**DOI:** [10.1016/j.jplph.2016.06.013](https://doi.org/10.1016/j.jplph.2016.06.013)

*KANECHI M., MAEKAWA A., NISHIDA Y. AND MIYASHITA, E. (2016). Effects of pulsed lighting based light-emitting diodes on the growth and photosynthesis of lettuce leaves. *Acta Hortic*. Volume 1134.*

**DOI:** [10.17660/ActaHortic.2016.1134.28](https://doi.org/10.17660/ActaHortic.2016.1134.28)

*Lv DW., ZHU GR., ZHU D. ET AL. (2016) Proteomic and phosphoproteomic analysis reveals the response and defense mechanism in leaves of diploid wheat *T. monococcum* under salt stress and recovery. *Journal of Proteomics*. Volume 143, Pages 93–105.*

**DOI:** [10.1016/j.jprot.2016.04.013](https://doi.org/10.1016/j.jprot.2016.04.013)

*LÓPEZ-LÓPEZ M., CALDERÓN R., GONZÁLEZ-DUGO V., ET L . (2016). Early Detection and Quantification of Almond Red Leaf Blotch Using High-Resolution Hyperspectral and Thermal Imagery. *Remote Sens*. Volume 8.*

**DOI:** [10.3390/rs8040276](https://doi.org/10.3390/rs8040276)

*MALIK V.M., LOBO J.M., STEWART C. ET AL. (2016). Growth irradiance affects ureide accumulation and tolerance to photoinhibition in *EUTREMA SALISUGINEUM* (*THELLUNGIELLA SALISUGINEA*). *Photosynthetica*. Volume 54.*

**DOI:** [10.1007/s11099-015-0164-8](https://doi.org/10.1007/s11099-015-0164-8)

*MARTEL A. B. AND QADERI M. M. (2016), Light quality and quantity regulate aerobic methane emissions from plants. *Physiol Plantarum*.*

**DOI:** [10.1111/ppl.12514](https://doi.org/10.1111/ppl.12514)

*MISHRA R. K. KUMAR J., SRIVASTAVA P. K., ET AL. (2016). PSII photochemistry, oxidative damage and anti-oxidative enzymes in arsenate-stressed *Oryza sativa* L. seedlings. Volume 33.*

**DOI:** [10.1080/02757540.2016.1265516](https://doi.org/10.1080/02757540.2016.1265516)

NAUŠ J., ŠMECKO S. AND ŠPUNDOVÁ M. (2016) *Chloroplast avoidance movement as a sensitive indicator of relative water content during leaf desiccation in the dark*. *Photosynthesis Research*. Volume 129, Issue 2, Pages 217–225.

**DOI:** [10.1007/s11120-016-0291-5](https://doi.org/10.1007/s11120-016-0291-5)

OYIGA B. C., SHARMA R. C., SHEN J., (2016), *Identification and Characterization of Salt Tolerance of Wheat Germplasm Using a Multivariable Screening Approach*. *J Agro Crop Sci*, 202: 472–485.

**DOI:** [10.1111/jac.12178](https://doi.org/10.1111/jac.12178)

PANEQUE M, DE LA ROSA J. M., FRANCO-NAVARRO J. D., ET AL. (2016). *Effect of biochar amendment on morphology, productivity and water relations of sunflower plants under non-irrigation conditions*, *CATENA*, Volume 147.

**DOI:** [10.1016/j.catena.2016.07.037](https://doi.org/10.1016/j.catena.2016.07.037).

PEDRANZANI H., RODRÍGUEZ-RIVERA M., GUTIÉRREZ M. ET AL. (2016) *Arbuscular mycorrhizal symbiosis regulates physiology and performance of Digitaria eriantha plants subjected to abiotic stresses by modulating antioxidant and jasmonate levels*. *Mycorrhiza*. Volume 26, Issue 2, Pages 141–152.

**DOI:** [10.1007/s00572-015-0653-4](https://doi.org/10.1007/s00572-015-0653-4)

PTUSHENKO V. V. AND SOLOVCHENKO, A. E. (2016). *Tolerance of the photosynthetic apparatus to acidification of the growth medium as a possible determinant of CO<sub>2</sub>-tolerance of the symbiotic microalga DESMODESMUS sp.* IPPAS-2014. *Biochemistry Moscow*. Volume 81.

**DOI:** [10.1134/S0006297916120142](https://doi.org/10.1134/S0006297916120142)

ROSALES, M.A., FRANCO-NAVARRO, J.D., DÍAZ-RUEDA, P., RIVERO-NÚÑEZ, C.M., ET AL. (2016). *Macronutrient chloride levels improve drought resistance by increasing water-use efficiency*. In: SEB'S 2019 ANNUAL MEETING - COSTA DEL SCIENCE. 2 al 5 de julio 2016. Sevilla, España.

RUIZ-LOZANO J. M., AROCA R., ZAMARREÑO Á. M. ET AL. (2016) *Arbuscular mycorrhizal symbiosis induces strigolactone biosynthesis under drought and improves drought tolerance in lettuce and tomato*. *Plant, Cell and Environment*. Volume 39, Pages 441–452.

**DOI:** [10.1111/pce.12631](https://doi.org/10.1111/pce.12631).

SOLOVCHENKO A., GORELOVA O., SELYAKH I., ET AL. (2016). *Nitrogen availability modulates CO<sub>2</sub> tolerance in a symbiotic chlorophyte*. *Algal Research*. 2016. 16. 177-188.

**DOI** [10.1016/j.algal.2016.03.002](https://doi.org/10.1016/j.algal.2016.03.002)

SRINIVASARAO CH., SHANKER A. K., KUNDU S. AND REDDY S. (2016) *Chlorophyll fluorescence induction kinetics and yield responses in rainfed crops with variable potassium nutrition in K deficient semi-arid alfisols*. *Journal of Photochemistry and Photobiology B: Biology*. Volume 160, Pages 86–95.

**DOI:** [10.1016/j.jphotobiol.2016.03.052](https://doi.org/10.1016/j.jphotobiol.2016.03.052)

TIMM C. M., PELLETIER D. A., JAWDY S. S. ET AL. (2016) *Two Poplar-Associated Bacterial Isolates Induce Additive Favorable Responses in a Constructed Plant-Microbiome System*. *Frontiers in Plant Science*. Volume 7.

**DOI:** [10.3389/fpls.2016.00497](https://doi.org/10.3389/fpls.2016.00497)

WATANABE T., ORIKASA T, SHONO H., ET AL. (2016). *The influence of inhibit avoid water defect responses by heat pretreatment on hot air drying rate of spinach*, *Journal of Food Engineering*, Volume 168.

**DOI: 10.1016/j.jfoodeng.2015.07.014.**

WEI J., YANG H., CAO H. AND TAN T. (2016) *Using polyaspartic acid hydro-gel as water retaining agent and its effect on plants under drought stress*. *Saudi Journal of Biological Sciences*. Volume 23, Pages 654–659.

**DOI: 10.1016/j.sjbs.2015.08.016**

MLINAS S. I., RIVERO R. M., MARTÍNEZ V., ET AL. (2016). *Tolerance of citrus plants to the combination of high temperatures and drought is associated to the increase in transpiration modulated by a reduction in abscisic acid levels*. *BMC Plant Biology* *BMC*. Volume 16.

**DOI: 10.1186/s12870-016-0791-7**

ZARCO-TEJADA P.J., GONZÁLEZ-DUGO M.V. AND FERERES E. (2016) *Seasonal stability of chlorophyll fluorescence quantified from airborne hyperspectral imagery as an indicator of net photosynthesis in the context of precision agriculture*. *Remote Sensing of Environment*. Volume 179. Pages 89–103.

**DOI: 10.1016/j.rse.2016.03.024**

## 2015

ANDERSON L. G., DUNN A. M. , ROSEWARNE P. J. AND STEBBING P. D. (2015) *Invaders in hot water: a simple decontamination method to prevent the accidental spread of aquatic invasive non-native species*. *Biological Invasions*. Volume 17, Issue 8, Pages 2287–2297.

**DOI: 10.1007/s10530-015-0875-6**

ARMADA E., BAREA J.M., CASTILLO P. ET AL. (2015) *Characterization and management of autochthonous bacterial strains from semiarid soils of Spain and their interactions with fermented agrowastes to improve drought tolerance in native shrub species*. *Applied Soil Ecology*. Volume 96, Pages 306–318.

**DOI: 10.1016/j.apsoil.2015.08.008**

ARMADA E., AZCÓN R., LÓPEZ-CASTILLO O. M. ET AL. (2015) *Autochthonous arbuscular mycorrhizal fungi and *Bacillus thuringiensis* from a degraded Mediterranean area can be used to improve physiological traits and performance of a plant of agronomic interest under drought conditions*. *Plant Physiology and Biochemistry*. Volume 90, Pages 64–74.

**DOI: 10.1016/j.plaphy.2015.03.004**

BARTÁK M., TRNKOVÁ K., HANSEN E. S. ET AL. (2015) *Effect of dehydration on spectral reflectance and photosynthetic efficiency in *Umbilicaria arctica* and *U. hyperborean**. *Biologia Plantarum*. Volume 59, Issue 2, Pages 357–365.

**DOI: 10.1007/s10535-015-0506-1**

BÁRZANA G., AROCA R. AND RUIZ-LOZANO J. M. (2015) *Localized and non-localized effects of arbuscular mycorrhizal symbiosis on accumulation of osmolytes and aquaporins and on antioxidant systems in maize plants subjected to total or partial root drying*. *Plant, Cell and Environment*. Volume 38, Issue 8, Pages 1613–1627.

**DOI: 10.1111/pce.12507**

DUARTE B., GOESSLING J. W., MARQUES J.C. AND CAÇADOR I. (2015) *Ecophysiological constraints of *Aster tripolium* under extreme thermal events impacts: Merging biophysical, biochemical and genetic insights*. *Plant Physiology and Biochemistry*. Volume 97, Pages 217–228.

**DOI: 10.1016/j.plaphy.2015.10.015**

DYAKOV, M. Y., INSAROVA, I. D., KHARABADZE, D. E. ET AL. (2015). *Influence of extreme ambient temperatures and anaerobic conditions on Peltigera aphthosa (L.) Willd. viability*. Life sciences in space research. Volume 7.  
**DOI:10.1016/j.lssr.2015.10.002**

FESENKO I. A., ARAPIDI G. P., SKRIPNIKOV A. Y., ET AL. (2015). *Specific pools of endogenous peptides are present in gametophore, protonema, and protoplast cells of the moss Physcomitrella patens*. Pesticide Biochemistry and Physiology. Volume 15, Pages 1-16.  
**DOI 10.1186/s12870-015-0468-7**

HUMPLÍK J. F., LAZÁR D., FÜRST T. ET AL. (2015). *Automated integrative high-throughput phenotyping of plant shoots: a case study of the cold-tolerance of pea (Pisum sativum L.)*. Plant Methods. Volume 11, Pages 1-11.  
**DOI 10.1186/s13007-015-0063-9**

JIMÉNEZ J. D. L. C., CARDOSO J. A., DOMINGUEZ M. ET AL. (2015) *Morpho-anatomical traits of root and non-enzymatic antioxidant system of leaf tissue contribute to waterlogging tolerance in Brachiaria grasses*. Grassland Science. Volume 61, Pages 243–252.  
**DOI:10.1111/grs.12095**

KHALID A., ATHAR H., ZAFAR Z. U. ET AL. (2015) *Photosynthetic capacity of canola (Brassica napus L.) plants as affected by glycinebetaine under salt stress*. Journal of Applied Botany and Food Quality. Volume 88, Pages 78- 86.  
**DOI:10.5073/JABFQ.2015.088.011**

KOSOVÁ K., VÍTÁMVÁS P., HLAVÁČKOVÁ I. ET AL. (2015) *Responses of two barley cultivars differing in their salt tolerance to moderate and high salinities and subsequent recovery*. Biologia Plantarum. Volume 59, Pages 106-114.

**DOI: 10.1007/s10535-014-0465-y**

MARQUEZ-GARCIA B., SHAW D., COOPER J. W. ET AL. (2015) *Redox markers for drought-induced nodule senescence, a process occurring after drought-induced senescence of the lowest leaves in soybean (Glycine max)*. Annals of Botany. Volume 116, Pages 497–510.

**DOI: 10.1093/aob/mcv030**

OREKHOVA D. I., YAKOVLEVAB O. V., GORYACHEVB S. N., ET AL. (2015). *The Use of Parameters of Chlorophyll a Fluorescence Induction to Evaluate the State of Plants under Anthropogenic Load*. Biophysics. Volume 60, Pages 330–336.

**DOI: 10.1134/S0006350915020128**

PTUSHENKO V. V., AVERCHEVA O. V., BASSARSKAYA E. M. ET AL. (2015) *Possible reasons of a decline in growth of Chinese cabbage under a combined narrowband red and blue light in comparison with illumination by high-pressure sodium lamp*. Scientia Horticulturae. Volume 194, Pages 267-277.

**DOI:10.1016/j.scienta.2015.08.021**

SOLOVCHENKO A., GORELOVA O., SELYAKH I., ET AL. (2015). *A novel CO<sub>2</sub>-tolerant symbiotic Desmodesmus (Chlorophyceae, Desmodesmaceae): acclimation to and performance at a high carbon dioxide level*. Algal Research. Volume 11.

**DOI 10.1016/j.algal.2015.04.011**

*ŠEBELA D., QUIÑONES C., OLEJNÍČKOVÁ J. AND JAGADISH K.S.V. (2015) Temporal chlorophyll fluorescence signals to track changes in optical properties of maturing rice panicles exposed to high night temperature. Field Crops Research. Volume 177, Pages 75–85.*

**DOI: 10.1016/j.fcr.2015.02.025**

*TRIPATHI D. K., SINGH V. P., PRASAD S. M. ET AL. (2015). Silicon-mediated alleviation of Cr(VI) toxicity in wheat seedlings as evidenced by chlorophyll fluorescence, laser induced breakdown spectroscopy and anatomical changes. Ecotoxicology and Environmental Safety, Volume 113, Pages 133-144.*

**DOI:10.1016/j.ecoenv.2014.09.029**

*WU X., TANG Y., LI C. ET AL. (2015) Chlorophyll Fluorescence and Yield Responses of Winter Wheat to Waterlogging at Different Growth Stages. Plant Production Science. Volume 18, Issue 3.*

**DOI: 10.1626/pps.18.284**

*ZMIENKO A., GORALSKI M., SAMELAK-CZAJKA A. ET AL. (2015) Time course transcriptional profiling of senescing barley leaves. Genomics Data. Volume 4, Pages 78–81.*

**DOI: 10.1016/j.gdata.2015.03.006**

## 2014

*AJIGBOYE O. O., MURCHIE E., RAY R. V. (2014). Foliar application of isopyrazam and epoxiconazole improves photosystem II efficiency, biomass and yield in winter beat. Pesticide Biochemistry and Physiology. Volume 114, Pages 52–60.*

**DOI:10.1016/j.pestbp.2014.07.003**

*FRANCO-NAVARRO, J.D., BRUMÓS, J., ROSALES, M.A., ET AL. (2014). Chloride nutrition regulates water balance in plants. In: Water to feed the World. Book of Proceedings of the XII Portuguese-Spanish Symposium on Plant Water Relations. pg. 71-75. ISBN 978-989-8096-52-4. 30 de septiembre al 3 de Octubre del 2014. University of Evora, Évora, Portugal.*

*PTUSHENKO V. V., PTUSHENKO O. S. AND TIKHONOV A. N. (2014) Chlorophyll Fluorescence Induction, Chlorophyll Content, and Chromaticity Characteristics of Leaves as Indicators of Photosynthetic Apparatus Senescence in Arboreous Plants. Biochemistry (Moscow). Volume 79, Issue 3, Pages 260-272.*

**DOI: 10.1134/S0006297914030122**

*SOLOVCHENKO A., LUKYANOVA, SOLOVCHENKO O., ET AL. (2014). Interactive effects of salinity, high light and nitrogen starvation on fatty acid and carotenoid profiles in *Nannochloropsis oceanica* CCALA 804. European Journal of Lipid Science and Technology. 2014. 116. 5. 635-644.*

**DOI:10.1002/ejlt.201300456**

*SHTAIDA N., KHOZIN-GOLDBERG I., SOLOVCHENKO A., ET AL. (2014). Downregulation of a putative plastid PDC E1 $\alpha$  subunit impairs photosynthetic activity and triacylglycerol accumulation in nitrogen starved photoautotrophic *Chlamydomonas reinhardtii*. Journal of Experimental Botany. Volume 65.*

**DOI: 10.1093/jxb/eru374**

*THWE A. A. AND KASEMSAP P. (2014). Quantification of OJIP Fluorescence Transient in Tomato Plants Under Acute Ozone Stress. Kasetsart Journal: Natural Science, Volume 48, Page 665 – 675.*

## 2013

AROCA R., RUIZ-LOZANO M. J., ZAMARREÑO A. M., ET AL. (2013). *Arbuscular mycorrhizal symbiosis influences strigolactone production under salinity and alleviates salt stress in lettuce plants*. *Journal of Plant Physiology*, Volume 170, Issue 1, Pages 47-55  
**DOI:10.1016/j.jplph.2012.08.020**

GAJEWSKA E., DROBIK D., WIELANEK M. ET AL. (2013). *Alleviation of nickel toxicity in wheat (*Triticum aestivum L.*) seedlings by selenium supplementation*. *Biological Letters*. Volume 50, Issue 2, Pages 65–78.  
**DOI: 10.2478/biolet-2013-0008**

PTUSHENKO V.V., PTUSHENKO E. A., SAMOILOVA O. P. ET AL. (2013). *Chlorophyll fluorescence in the leaves of TRADESCANTIA species of different ecological groups: Induction events at different intensities of actinic light*. *Biosystems*. Volume 114, Issue 2, Pages 85–97.

**DOI:10.1016/j.biosystems.2013.08.001**

SOLOVCHENKO A., SOLOVCHENKO O., KHOZIN-GOLDBERG I., ET AL. (2013). *Probing the effects of high-light stress on pigment and lipid metabolism in nitrogen-starving microalgae by measuring chlorophyll fluorescence transients: Studies with a Δ5 desaturase mutant of *Parietochloris incisa* (Chlorophyta, Trebouxiophyceae)*. *Algal Research*. Volume 2.

**DOI 10.1016/j.algal.2013.01.01**

## 2012

VREDENBERG W. AND PAVLOVIČ A. (2012). *Chlorophyll a fluorescence induction (Kautsky curve) in a Venus flytrap (*Dionaea muscipula*) leaf after mechanical trigger hair irritation*. *Journal of Plant Physiology*. Volume 170, Pages 242-250.

**DOI:10.1016/j.jplph.2012.09.009**

## 2011

CHYTYK, C. J., HUCL, P. J. AND GRAY, G. R. (2011). *Leaf photosynthetic properties and biomass accumulation of selected western Canadian spring wheat cultivars*. *Canadian Journal of Plant Science*. Volume 91, Pages 305-314.

**DOI: 10.4141/CJPS09163**

COWLEY R. AND LUCKETT D. (2011) *Chlorophyll fluorescence as a method to detect moisture-limiting stress in canola*. 17th Australian Research Assembly on Brassicas (ARAB)

KOCUREK V., VONDRA M. AND SMUTNÝ, V. (2011). *Efficacy of reduced doses of bentazone assessed by instruments based on measurement of chlorophyll fluorescence*. *Acta Universitatis Agriculturae et Silviculturae Mendelianae Brunensis*. Volume 59, Pages 137-144

**DOI: 10.11118/actaun201159010137**

KUVYKIN V., PTUSHENKO V. V., VERSHUBSKII A. V. ET AL. (2011). *Regulation of electron transport in C<sub>3</sub> plant chloroplasts *in situ* and *in silico*: Short-term effects of atmospheric CO<sub>2</sub> and O<sub>2</sub>*. *Biochimica et Biophysica Acta (BBA) - Bioenergetics*, Volume 1807, Issue 3, Pages 336-347.

**DOI:10.1016/j.bbabiobio.2010.12.012**

LUCIŃSKI R., MISZTAL L., SAMARDAKIEWICZ S. ET AL. (2011). *The thylakoid protease Deg2 is involved in stress-related degradation of the photosystem II light-harvesting protein Lhcb6 in Arabidopsis thaliana*. *New Phytologist*. Volume 192, Pages 74-86.

**DOI:** [10.1111/j.1469-8137.2011.03782.x](https://doi.org/10.1111/j.1469-8137.2011.03782.x).

RUÍZ-SÁNCHEZ, M., ARMADA, E., MUÑOZ, Y., ET AL. (2011). *Azospirillum and arbuscular mycorrhizal colonization enhance rice growth and physiological traits under well-watered and drought conditions*. *Journal of Plant Physiology*. Volume 168, Issue 10, Pages 1031-1037.

**DOI:** [10.1016/j.jplph.2010.12.019](https://doi.org/10.1016/j.jplph.2010.12.019)

SAMOILOVA O. P., PTUSHENKO V. V., KUVYKIN V. ET AL. (2011) *Effects of light environment on the induction of chlorophyll fluorescence in leaves: A comparative study of Tradescantia species of different ecotypes*. *Biosystems*. Volume 105, Issue 1, Pages 41–48.

**DOI:** [10.1016/j.biosystems.2011.03.003](https://doi.org/10.1016/j.biosystems.2011.03.003)

## 2010

CESSNA S., DEMMIG-ADAMS B. AND ADAMS III W. W. (2010). *Exploring Photosynthesis and Plant Stress Using Inexpensive Chlorophyll Fluorometers*. *Journal of Natural Resources and Life Sciences Education*. Volume 39, Pages 22-30.

**DOI:** [10.4195/jnrlse.2009.0024u](https://doi.org/10.4195/jnrlse.2009.0024u)

FERNANDEZ-MARIN B., BECERRIL J. M. AND GARCIA PLAZAOLA J. I. (2010). *Unravelling the roles of desiccation-induced xanthophyll cycle activity in darkness: A case study in Lobaria pulmonaria*. *Planta*. Volume 231, Pages 1335-1342.

**DOI:** [10.1007/s00425-010-1129-6](https://doi.org/10.1007/s00425-010-1129-6)

FROLEC J., ŘEBÍČEK J., LAZÁR D. ET AL. (2010). *Impact of two different types of heat stress on chloroplast movement and fluorescence signal of tobacco leaves*. *Plant Cell Reports*. Volume 29, Pages 705–714.

**DOI:** [10.1007/s00299-010-0856-2](https://doi.org/10.1007/s00299-010-0856-2)

PAVLOVIČ A., SLOVÁKOVÁ L., PANDOLFI C. ET AL. (2010). *On the mechanism underlying photosynthetic limitation upon trigger hair irritation in the carnivorous plant Venus flytrap (Dionaea muscipula Ellis)*. *Journal of Experimental Botany*, Volume 62, Pages 1991–2000.

**DOI:** [10.1093/jxb/erq404](https://doi.org/10.1093/jxb/erq404)

RUIZ-SÁNCHEZ M., AROCA R., MUÑOZ Y., ET AL. (2010). *The arbuscular mycorrhizal symbiosis enhances the photosynthetic efficiency and the antioxidative response of rice plants subjected to drought stress*. *Journal of Plant Physiology*. Volume 167, Pages 862-869.

**DOI:** [10.1016/j.jplph.2010.01.018](https://doi.org/10.1016/j.jplph.2010.01.018)

## 2009

HARDING S. A., JARVIE M. M., LINDROTH R. L. ET AL. (2009). *A comparative analysis of phenylpropanoid metabolism, N utilization, and carbon partitioning in fast- and slow-growing *POPULUS* hybrid clones*. *Journal of Experimental Botany*. Volume 60, Pages 3443-3452.

**DOI:** [10.1093/jxb/erp180](https://doi.org/10.1093/jxb/erp180)

KUVYKIN I.V., VERSHUBSKII A.V., PRIKLONSKII V.I. ET AL. (2009). Computer simulation study of pH-dependent regulation of electron transport in chloroplasts. *Biophysics*. Volume 54, Pages 455-464.

**DOI: 10.1134/S0006350909040101**

MACEK P., MACKOVÁ J. AND DE BELLO F., (2009). *Morphological and ecophysiological traits shaping altitudinal distribution of three Polylepis treeline species in the dry tropical Andes. Acta Oecologica*, Volume 35, Pages 778–785.

**DOI:10.1016/j.actao.2009.08.013**

RODESCU M. R. AND ANDREI M. (2009). *The study of photosystem II efficiency on selected synanthrophic plant species. Annals Food Science and Technology*. Volume 10, Pages 115-119.

## 2008

BARTÁK, M (2008) *Biophysical Methods and Approaches to Monitor In-situ Lichen Responses to Environmental Extremes. Coordination Action for Research Activities on life in Extreme Environments. Publication 2.*

KLEM K. AND BAJEROVA, E., (2008). *Adjustment of herbicide dose in sugar beet based on non-invasive chlorophyll fluorescence measurements. Agricultural And Biosystems Engineering For A Sustainable World: National Conference On Agricultural Engineering, Hersonissos, Crete, Greece, Pages 23-25.*

WOO N. S., BADGER M. R. AND POGSON B. J. (2008) *A rapid, non-invasive procedure for quantitative assessment of drought survival using chlorophyll fluorescence Plant Methods*, Volume 4, Issue 27, Pages 1-14.

**DOI:10.1186/1746-4811-4-27**