

Review Form 1.7

Journal Name:	Journal of Scientific Research and Reports
Manuscript Number:	Ms_JSRR_116427
Title of the Manuscript:	Investigation of photosynthetically active pigments in tomato (<i>Solanum lycopersicum</i>) crop leaves per growth stage for an optimum indoor crop cultivation
Type of the Article	

Review Form 1.7

	<p>Djibrilla, A. S. M., Rabani, A., Illyassou, K. M., Abdoukader, A. H., & Aissetou, D. Y. (2023). CFD Analysis of Photovoltaic Greenhouse Cooling System Through Natural Convection as a Nature-Based Solution to a Sustainable Agriculture in Niger, Sahel Region. In W. Leal Filho, G. J. Nagy, & D. Ayal (Eds.), Handbook of Nature-Based Solutions to Mitigation and Adaptation to Climate Change (Springer C, p. 18). Springer Nature Switzerland AG 2024. https://doi.org/https://doi.org/10.1007/978-3-030-98067-2_141-1</p> <p>Grossiord, C., Buckley, T. N., Cernusak, L. A., Novick, K. A., Poulter, B., Siegwolf, R. T. W., Sperry, J. S., & McDowell, N. G. (2020). Plant responses to rising vapor pressure deficit. <i>New Phytologist</i>, 226(6), 1550–1566. https://doi.org/10.1111/nph.16485</p> <p>Guichard, S., Gary, C., Leonardi, C., & Bertin, N. (2005). Analysis of growth and water relations of tomato fruits in relation to air vapor pressure deficit and plant fruit load. <i>Journal of Plant Growth Regulation</i>, 24(3), 201–213. https://doi.org/10.1007/s00344-005-0040-z</p> <p>Iraqi, D., Gauthier, L., Dorais, M., & Gosselin, A. (1997). Influence du déficit de pression de vapeur et de la photopériode sur la croissance , la productivité et la composition minérale de la tomate de serre. <i>Canadian Journal of Plant Science</i>, 77, 267–272.</p> <p>Kalaitzoglou, P., Ieperen, W. Van, Harbinson, J., Meer, M. Van Der, & Rousseaux, M. C. (2019). Effects of Continuous or End-of-Day Far-Red Light on Tomato Plant Growth , Morphology , Light Absorption , and Fruit Production. 10(March), 1–11. https://doi.org/10.3389/fpls.2019.00322</p> <p>Kishimoto, S., Maoka, T., Sumitomo, K., & Ohmiya, A. (2005). Analysis of carotenoid composition in petals of calendula (<i>Calendula officinalis</i> L.). <i>Bioscience, Biotechnology, and Biochemistry</i>, 69(11), 2122–2128. https://doi.org/10.1271/bbb.69.2122</p> <p>Kumar, K. S., Tiwari, K. N., & Jha, M. K. (2009). Design and technology for greenhouse cooling in tropical and subtropical regions : A review. <i>Energy and Buildings</i>, 41(2009), 1269–1275. https://doi.org/10.1016/j.enbuild.2009.08.003</p> <p>Lichtenthaler, H. K., & Buschmann, C. (2001). Chlorophylls and Carotenoids : Measurement and Characterization by UV-VIS Spectroscopy. <i>Food and Analytical Chemistry</i>, UNIT F4.3(2001), 1–8.</p> <p>Pharmawati, M., & Wrasianti, L. P. (2020). S phytochemical screening and ftir spectroscopy on crude extract from <i>Enhalus acoroides</i> leaves. <i>Malaysian Journal of Analytical Sciences</i>, 24(1), 70–77.</p> <p>Raymond, C., Matthews, T., & Horton, R. M. (2020). The emergence of heat and humidity too severe for human tolerance. <i>Science Advances</i>, 6(May 2020), 1–9.</p> <p>Sanda, M. D. A., Badu, M., Awudza, J. A. M., & Boadi, N. O. (2021). Development of TiO 2 -based dye-sensitized solar cells using natural dyes extracted from some plant-based materials. <i>Chemistry International</i>, 7(1), 9–20.</p> <p>Simkin, A. J., Kapoor, L., Priya, C. G., Tanja, D., & Tracy, A. H. (2021). The role of photosynthesis related pigments in light harvesting , photoprotection and enhancement of photosynthetic yield in planta. <i>Photosynthesis Research</i>, 6, 20. https://doi.org/10.1007/s11120-021-00892-6</p> <p>Strouse, C. E. (1973). The Crystal and Molecular Structure of Ethyl Chlorophyllide a * 2HO and Its Relationship to the Structure and Aggregation of Chlorophyll a *. <i>Proc. Nat. Acad. Sci.</i>, 71(2), 325–328. https://doi.org/10.1073/pnas.71.2.325</p> <p>Tomkins, S. P., & Miller, M. B. (1993). A rapid extraction and fast separation of leaf pigments using thin layer chromatography. <i>Science and Plants for Schools (SAPS) Programme</i>, 1–4.</p>	
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PART 2:

	Reviewer’s comment	Author’s comment (if agreed with reviewer, correct the manuscript and highlight that part in the manuscript. It is mandatory that authors should write his/her feedback here)
Are there ethical issues in this manuscript?	<i>(If yes, Kindly please write down the ethical issues here in details)</i>	

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Reviewer Details:

Name:	Hind Bushra Ahmed
Department, University & Country	School of Rural Extension Education and Development, Ahfad University for Women, Sudan