

DAFTAR PUSTAKA

- Bantis, F.& S.S.& O.T.& K.A.& N.N.& R.Kalliopi. (2018). Current status and recent achievements in the field of horticulture with the use of light-emitting diodes (LEDs)., *Scientia Horticulturae*, 235, pp. 437–451.
- Bayat, L. Bayat, Leyla & Arab, M. & Aliniaiefard, S. & Seif, M. & Lastochkina, O. & Li, T. (2018). Effects of growth under different light spectra on the subsequent high light tolerance in rose plants, *AoB PLANTS*, 10(5). <https://doi.org/10.1093/aobpla/ply052>.
- Bruggink, G.T. and Heuvelink, E. (1987). Influence of light on the growth of young tomato, cucumber and sweet pepper plants in the greenhouse: Effects on relative growth rate, net assimilation rate and leaf area ratio, *Scientia Horticulturae*, 31(3–4), pp. 161–174. [https://doi.org/10.1016/0304-4238\(87\)90043-4](https://doi.org/10.1016/0304-4238(87)90043-4).
- Campbell, N.A., Reece, J.B. and Mitchell, L.G. (2002). *Biology, fifth edition Indeks*. 5th edn. Jakarta: Erlangga.
- Chang, C.L. and Chang, K.P. (2014). The growth response of leaf lettuce at different stages to multiple wavelength-band light-emitting diode lighting, *Scientia Horticulturae*, 179, pp. 78–84. <https://doi.org/10.1016/j.scienta.2014.09.013>.
- Chicco, D., Warrens, M.J. and Jurman, G. (2021). The coefficient of determination R-squared is more informative than SMAPE, MAE, MAPE, MSE and RMSE in regression analysis evaluation, *PeerJ Computer Science*, 7, pp. 1–24. <https://doi.org/10.7717/PEERJ-CS.623>.
- Gebbers, R. and Adamchuk, V.I. (2010). Precision agriculture and food security, *Science*, 327(5967), pp. 828–831. <https://doi.org/10.1126/science.1183899>.
- Ghorbanzadeh, P. & Aliniaiefard, S. & Esmaeili, M. & Mashal, M. & Azadegan, B. & Seif, M.. (2021). Dependency of Growth, Water Use Efficiency, Chlorophyll Fluorescence, and Stomatal Characteristics of Lettuce Plants to Light Intensity, *Journal of Plant Growth Regulation*, 40(5), pp. 2191–2207. <https://doi.org/10.1007/s00344-020-10269-z>.
- Grange, R.I. and Hand, D.W. (1987). A review of the effects of atmospheric humidity on the growth of horticultural crops., *Journal of Horticultural Science*, 62(2), pp. 125–134. <https://doi.org/10.1080/14620316.1987.11515760>.
- Grant, R.H. and Slusser, J.R. (2004). Estimation of photosynthetic photon flux density from 368-nm spectral irradiance, *Journal of Atmospheric and Oceanic Technology*, 21(3), pp. 481–487. [https://doi.org/10.1175/1520-0426\(2004\)021<0481:EOPPDF>2.0.CO;2](https://doi.org/10.1175/1520-0426(2004)021<0481:EOPPDF>2.0.CO;2).
- He, Y. & Nie, P. & Zhang, Q. & Liu, F.. (2021). *Agricultural of Things Internet Technologies and Applications*. <http://www.springer.com/series/15728>.
- Hu, F., Zhang, Y. and Guo, J. (2023). Effects of drought stress on photosynthetic physiological characteristics, leaf microstructure, and related gene expression of yellow horn, *Plant Signaling and Behavior*, 18(1), pp. 1–10. <https://doi.org/10.1080/15592324.2023.2215025>.

- Huang, L. & Chen, Y. & Chen, Y. & Wang, C. & Hu, M. (2018). Food-energy interactive tradeoff analysis of sustainable urban plant factory production systems, *Sustainability (Switzerland)*, 10(2), pp. 1–12. <https://doi.org/10.3390/su10020446>.
- Jin, W. & Ji, Y. & Larsen, D. & Huang, Y. & Heuvelink, E. & Marcelis, L. (2023). Gradually increasing light intensity during the growth period increases dry weight production compared to constant or gradually decreasing light intensity in lettuce, *Scientia Horticulturae*, 311, p. 111807. <https://doi.org/10.1016/J.SCIENTA.2022.111807>.
- Kamrani, Y.Y. *et al.* (2022). Regulatory Role of Circadian Clocks on ABA Production and Signaling, Stomatal Responses, and Water-Use Efficiency under Water-Deficit Conditions, *Cells*, 11(7). <https://doi.org/10.3390/cells11071154>.
- Kelly H. Zou (2010). Correlation and simple linear regression, *Journal of Veterinary Clinics*, 27(4), pp. 427–434. <https://doi.org/10.4324/9781003442011-24>.
- Kikuchi, Y. *et al.* (2018). Environmental and resource use analysis of plant factories with energy technology options: A case study in Japan, *Journal of Cleaner Production*, 186, pp. 703–717. <https://doi.org/10.1016/J.JCLEPRO.2018.03.110>.
- Kim, J.-W. (2010). Trend and direction for plant factory system, *Journal of Plant Biotechnology*, 37(4), pp. 442–455. <https://doi.org/10.5010/jpb.2010.37.4.442>.
- Li, X. *et al.* (2019). Projecting Global Urban Area Growth Through 2100 Based on Historical Time Series Data and Future Shared Socioeconomic Pathways, *Earth's Future*, 7(4), pp. 351–362. <https://doi.org/10.1029/2019EF001152>.
- Lowenberg-DeBoer, J. (2015). The precision agriculture revolution: Making the modern farmer, *Foreign Affairs*, 94(3), pp. 105–112.
- Maria, C. and Csaba, C. (2002). Fundamentals of Spectroscopy, in *Environmental Sampling and Analysis for Metals*. 1st Editio. Boca Raton: Lewis Publishers, p. 408. <https://doi.org/10.1201/9781420032345>.
- Metsoviti, M.N. *et al.* (2020), Effect of light intensity and quality on growth rate and composition of *Chlorella vulgaris*, *Plants*, 9(1), pp. 1–17. <https://doi.org/10.3390/plants9010031>.
- Moe, R., Grimstad, S.O. and Gislerød, H.R. (2006). The use of artificial light in year round production of greenhouse crops in Norway, *Acta Horticulturae*, 711(1952), pp. 35–42. <https://doi.org/10.17660/ActaHortic.2006.711.2>.
- Nowak, B. (2021). Precision Agriculture: Where do We Stand? A Review of the Adoption of Precision Agriculture Technologies on Field Crops Farms in Developed Countries, *Agricultural Research*. Springer, pp. 515–522. <https://doi.org/10.1007/s40003-021-00539-x>.
- Ouzounis, T., Eva Rosenqvist and Carl-Otto Ottosen (2015). Spectral Effects of Artificial Light on Plant Physiology and Secondary Metabolism: A Review, *HORTSCIENCE*, 50(8)(1128–1135).
- Park, Y. and Runkle, E.S. (2017). Far-red radiation promotes growth of seedlings by increasing leaf expansion and whole-plant net assimilation, *Environmental*

- and Experimental Botany*, 136, pp. 41–49.
<https://doi.org/10.1016/j.envexpbot.2016.12.013>.
- Park, Y. and Runkle, E.S. (2018). Spectral effects of light-emitting diodes on plant growth, visual color quality, and photosynthetic photon efficacy: White versus blue plus red radiation, *PLoS ONE*, 13(8), pp. 1–14.
<https://doi.org/10.1371/journal.pone.0202386>.
- Ryu, D. & Chung, S. & Park, S. & Kim, S & Lim, Y. (2012). Construction and operational test of a plant factory, *American Society of Agricultural and Biological Engineers Annual International Meeting 2012, ASABE 2012*, 7(12), pp. 5497–5505. <https://doi.org/10.13031/2013.42051>.
- Swinton, Scott M. & Lupi, F.R. & G. Philip Hamilton, S.K. (2007). Ecosystem services and agriculture: Cultivating agricultural ecosystems for diverse benefits, *Ecological Economics*, 64(2), pp. 245–252.
<https://doi.org/10.1016/j.ecolecon.2007.09.020>.
- Toyoki Kozai (2015). *Plant Factory Basics, Applications and Advances*. Edited by N.J. Maragiotoglou. Megan R. Ball.
- Weber, J.A. & Tenhunen, J.D. & Gates, D.M. & Lange, O.L. (1987). Effect of Photosynthetic Photon Flux Density on Carboxylation Efficiency, *Plant Physiology*, 85(1), pp. 109–114. <https://doi.org/10.1104/pp.85.1.109>.
- Wilkinson, S., Clephan, A.L. and Davies, W.J. (2001). Rapid low temperature-induced stomatal closure occurs in cold-tolerant *Commelina communis* leaves but not in cold-sensitive tobacco leaves, via a mechanism that involves apoplastic calcium but not abscisic acid', *Plant Physiology*, 126(4), pp. 1566–1578. <https://doi.org/10.1104/pp.126.4.1566>.
- Zhang, M. & Ming, Y. & Wang, H.B. & Jin, H.L. (2024). Strategies for adaptation to high light in plants, *aBIOTECH*, 5(3), pp. 381–393.
<https://doi.org/10.1007/s42994-024-00164-6>.