DAFTAR PUSTAKA

Adam, W.W., and I. Terashima. 2018. The leaf: a platform for performing photosynthesis. Advance in Photosynthesis and Respiration. Spinger International Publishing.

Adebajo, O., P.O., Akintokun, A.E. Ojo, and L.A. Ajamu. 2019. Effect of rice husk biochar on the growth characteristics, rizospheric microflora and yield of tomato plants. Journal of Agricultural Science and Environment. 19(1): 60-72.

Adebajo, S.O., F. Oluwatobi, P.O. Akintokun, A.E. Ojo, A.K. Akintokun, and I.S. Gbodope. 2022. Impacts of rice husk biochar on soil mivrobial biomass and agronomic performance of tomato (*Solanum lycopersicum* L.). Nature Portofolio. 12:1787.

Ahmad, F., Fathurrahman, dan Bahrudin. 2016. Pengaruh media dan interval pemupukan terhadap pertumbuhan vigor cengkeh (*Syzygum aromaticum* L.). Jurnal Mitra Sains. 4(4): 36-47.

Ahmad, F., K. Kusmiyati, R.S. Sundari, M.R. Khan and S.M.A. Ali. 2023. Factor Influencing the dynamics of tomato crop: a review. Iksad Publications. Turkey.

Arzaqi, Roin Fathur. 2016. Pengaruh variasi jenis pupuk terhadap visitasi serangga penyerbuk pada tanaman tomat (*Lycopersicum esculentum* Mill.) Jurnal Biologi. 5(3): 51-63.

Astija. 2020 Soil pH influences the development of tomato root organ (*Solanum lycopersicum* L.). EurAsian Journal of BioSciences. 14: 6093-6908

Awasthi, J.P., Saha, B., Regon, P., Sahoo, S., Chowra, U., Pradhan, A., Roy, A., Panda, S.K. 2017. Morpho-physiological analysis of tolerance to aluminum toxicity in rice varieties of North East India. PLoS ONE.

Azizah, S., Vauzia, M. Chatri, I.L.E. Putri. 2025. Fenologi waktu berbunga dan lama berbunga tanaman tomat (*Solanum lycopersicum* L.) di Kabupaten Kamang Magek dan Kota Padang. Jurnal Biologi Tropis. 25(2): 1721-1726.

Badan Meteorologi, Klimatologi, dan Geofisika (BMKG). 2024. Probabilistik Curah Hujan 20 mm (tiap 24 jam). https://www.bmkg.go.id. Diakses tanggal 5 Mei 2024.

Badan Pusat Statistik. 2024. Angka Tetap Hortikultura Tahun 2023. Kementerian Pertanian. Direktorat Jenderal Hortikultura.

Blonska, E., M. Kempf and J. Lasota. 2022. Woody debris as a substrate for the growth of a new generation of forest trees. Forest Ecology and Management. 525: 1-7.

Damilola, O.O., G. Emmanuel. O. Nwite, U. Umoru. O.A. Oyekan, E.G. Ituen, and O. Adu. 2022. Effects of different growth media on the growth and yield of tomatoes (*Lycopersicon esculentum* L.). International Journal of Science and Applied Research. 5(2): 75-84.

Dermawan, R., I.R. Saleh, K. Mantja, H. Iswoyo, dan S. Salmiati. 2020. Pengendalian kejadian gugur bunga dan buah dengan aplikasi Indole Acetic Acid (IAA), Indole Butyric Acid (ABA) dan GA3 pada tanaman cabai (*Capsicum annuum* L.). Agrosaintek. 4(1): 35-40.

Dewi, A. Y., Eka, T, S, P., dan Sri, T. 2014. Indusi ketahanan kekeringan delapan hibrida kelapa sawit (*Elaeis guineensis* Jacq) dengan silika. Vegetalika. 3(3) : 1 – 13.

Duriat, A.S., W.W. Hadisoeganda, R.M. Sinaga, Y. Hilman, dan R.S. Basuki. 1997. Teknologi Produksi Tomat. Balai Penelitian Tanaman Sayuran, Pusat Penelitian dan Pengembangan Hortikultura, Badan Penelitian dan Pengembangan Pertanian. Bandung.

Dyduch J., Suszyna J., Sałata A. 2014. Bio-productivity of two cultivars of indeterminate tomato plants in the field expressed in the size and structure of the fruit yield. Electronic Journal of Polish Agricultural Universities. Horticulture 17(2): 1-8.

Eviati, Sulaeman, L. Herawaty, L. Anggria, Usman, H.E. Tantika, R. Prihatini, dan P. Wuningrum. 2023. Petunjuk Teknis Edisi 3: Analisis Kimia Tanah, Tanaman, Air dan Pupuk. Balai Pengujian Standar Instrumen Tanah dan Pupuk. Kementrian Pertanian.

Ezperanza, P., E. Suryadi dan K. Amaru. 2023. Penggunaan komposisi media tanam arang sekam cocopeat dan zeolit pada sistem irigasi tetes terhadap pertumbuhan dan hasil tanaman melon. Journal of Integrated Agricultural Socio Economics and Entrepreneurial Research. 1(2): 19-24.

Fauziah, N., dan M. Idris. 2022. Pengaruh limbah cair tahu dan media tanam terhadap pertumbuhan dan hasil panen tanaman kacang panjang (*Vigna sinensis* L.). Jurnal Bioteknologi dan Biosains Indonesia. 9(2): 217-226.

Gardiner, B., P. Berry, and B. Moulia. 2016. Review: wind impact on plant growth, mechanics and damage. Plant Science. 244: 94-118

Ghehsareh, A.M., H. Borji, and M. Jafarpour. 2011. Effect of some culture substrate (date-palm peat, cocopeat and perlite) on some growing indices and nutrient elements uptake in greenhouse tomato. African Journal of Microbiology Research. 5(12): 1437-1442.

Gulzar, M., S. Mufti, S. Kumar, L. Ahmad, R. Anayat, N. Nazir, and R. Kumar. 2024. Influence of various soilless media and fertigation levels on growth and yield of tomato (*Solanum lycopersicum* L.) under polyhouse conditions. Vegetos.

Gur, A., S. Osorio, E. Fridman, A.R. Fernie and D. Zamir. 2010. hi2-1 a QTL whick improves harvest index earliness and alters metabolite accumulation of processing tomato. Theor Appl Genet. 121: 1587-1599.

Gruda, N., M.M. Qaryouti, and C. Leonardi. 2013. Good Agriculture Practice for Greenhouse Vegetable Crops: Rome.

Hasibuan, H.S., B.R. Widiati, S. Numba, D.B. Pagalla. F. Rochman, P. Dewanti, R. Dewi, E. Oktatora, Warnita, E.Y. Hosang dan A.S. Nurwendah. 2024. Fisiologi Tanaman. Hei Publishing Indonesia. Padang.

Jeevitha, J., G.V. Rajalingam, T. Arumugam, and K.M. Sellamuthu. 2019. Standardization of growing media for tomato production in containers. International Journal of Chemical Studies. 7(3): 141-143.

Jo. W.J. and J.H. Shin. 2020. Effect of leaf area management on tomato plant growth in greenhouse. Horticulture Environment and Biotechnology. 61: 981-988.

Joshi, D., A. Nainabasti, R.B.P. Awasthi, D. Banjade, S. Malla, and B. Subedi. 2022. A review on soilless cultivation: the hope of urban agriculture. Archive of Agriculture and Environmental Science. 7(3): 473-481.

Kharisun, Fadillah, Mujiono dan Suciati. 2019. Composition of planting media and biological agents to improve physical and chemical properties of soil. IOP Conf Series: Earth and Environmental Science. 250: 1-6

Kolo, A. dan K. Tri. 2016. Pengaruh pemberian arang sekam padi dan frekuensi penyiraman terhadap pertumbuhan dan hasil tanaman tomat (*Lycopersicon esculentum* Mill). Savana Cendana. 1(3): 102-104.

Kordi, M., N. Farrokhi, M.I. Pech-Canul, and A. Ahmadikhah. 2024. Rice husk at a glance: from agro-industrial to modern application. Rice Science. 31(1): 14-32.

Kusumayati, N., Nurlaelih, E. E., dan Setyobudi, L. 2015. Tingkat keberhasilan pembentukan buah tiga varietas tanaman tomat (*Lycopersicon esculentum* Mill.) pada lingkungan yang berbeda. Jurnal Produksi Tanaman. 3(8): 683-688.

Lakhiar, I.A., H. Yan, T.N. Syed, C. Zhang, S.A. Shaikh, M. Rakibuzzaman and R.B. Vistro. 2025. Soilless agricultural systems: opportunities, challenges and applications for enhancing horticultural resilience to climate change and urbanization. Horticulture. 11: 1-47.

Leng, L., L. Wang, J. Lv, P. Xie, C. Zheng, W. Wu and C. Fan. 2024. Study on real-time detection of lightweight tomato plant height under improved YOLOv5 and visual features. Processes. 12, 2622: 1-10.

Lestari, D.A., dan A.P. Fiqa. 2020. Environmental factors influence on flowering and fruiting period of selected essential oil plants from Annonaceae. Biodiversitas. 21(3): 910-921.

Linacre, E. T. 1992. Climate data dan resources: a reference and guide. Routledge. Inggris.

Luo, Q., Zhou, W., & Zhang, L. 2022. Komposisi media dan kinerja akar pada mentimun yang ditanam dalam pot: Implikasi terhadap manajemen nutrisi. Jurnal Internasional Ilmu Hortikultura. 58(4), 290–300.

Mallick, S., C. Karak., B. Roy, B. Chakraborty, P. Das, and P. Bhutia. 2024. Effect of biostimulants on growth, yield and quality of tomato. International Journal of Economic Plants. 11(3): 347-352.

Malviya, N.K., R. Chaurasiya, and S. Maji. 2020. Use of cocopeat for soilless cultivation of tomato. South Asian Journal of Experimental Biology. 10(3): 169-175.

Mardaus, I. Sari, dan E.Y. Yusuf. 2019. Produksi tanaman tomat (*Solanum lycopersicum* L.) dengan pemberian SP-36 dan dolomit di tanah gambut. Jurnal Agroindragiri. 4(2): 25-35.

Maria, Yustiningsih. 2019. Intensitas cahaya dan efisiensi fotosintesis pada tanaman naungan dan tanaman terpapar cahaya langsung. BIOEDU. 4(2): 43-48.

Mehta, Sweta. 2023. Understanding the effects of environmental factors on crop plant cultivation and physiology. International Journal of Agriculture Environment and Sustainability. 5(1): 26-31.

Mukaromah, S.L., J. Prasetyo, dan B.D. Argo. 2019. Pengaruh pemaparan cahaya LED merah biru dan sonic bloom terhadap pertumbuhan dan produktivitas tanaman sawi sendok (*Brassica rapa* L.). Jurnal keteknikan Pertanian Tropis dan Biosistem. 7(2): 185-192.

Murdianingtyas, P.H., D. Indradewa, dan N. Gunadi. 2012. Pengaruh pengurangan daun terhadap pertumbuhan dan hasil dua varietas paprika (*Capsicum annum* var. Grossum) Hidroponik. Jurnal Vegetalika. 1(3): 1-11.

NASA POWER. Prediction of Worldwide Energy Resources. https://power.larc.nasa.gov. Diakses tanggal 5 Mei 2024

Nugroho, D. S., dan Sudarmadji, R. 2011. Cocopeat sebagai Media Tanam Alternatif. Yogyakarta: Andi Offset.

Olivar, V.T., O.G.V. Torres, M.L.D. Patino, H.S. Nava, A.R. Martinez, R.M.M. Aleman, L.A.V. Aguilar and I.A. Tejakal. 2014. Role of nitrogen and nutrients in crop nutrition. Journal of Agricultural Science and Technology. 4: 29-37.

Olle, M., M. Ngouajio, and A. Siomos. 2012. Vegetable quality and productivity as influenced by growing medium. Agriculture. 99(4): 399-408.

Olubanjo, O.O., and Alade, A.E. 2018. Growth and yield response of tomato plant grown under different substrate culture. Journal of Sustainable Technology. 9(2): 110-123.

Pareek, Ashwani. 2020. Mitigating the impact of climate change on plant productivity and ecosystem sustainability. Journal of Experimental Botany. 71(2): 451-456.

Pasaribu, R. P., H. Yetti, & Nurbaiti. 2015. Pengaruh pemangkasan cabang utama dan pemberian pupuk pelengkap cair organik terhadap pertumbuhan dan produksi tanaman tomat (*Lycopersicum esculentum* Mill.). Jurnal Online Mahasiswa Faperta. 2(2): 1–14.

Sachin, T.M., N. Thakur, and P. Sharma. 2020. Use of alternative growing media in ornamental plants. International Journal of Chemical Studies. 8(6): 188-194.

Sainju U.P., and R. Dris. 2006. Sustainable production of Tomato. Crops: Quality, Growth and Biotechnology. 190-216.

Saito, Yasuo. 1986. Food and Fertilizer Technology Center for the Asian and Pacific Region. Taiwan, Republic of China.

Sari, Y.P., D. Susanto, E.A. Hutauruk. 2013. Effect of planting media combination and fertilization on seed growth of ants nest plants (*Myrmecodia tuberosa* Jack.). Al-Kauniyah, 6:26-36.

Spehia, R.S., S.K. Singh, M. Devi, N. Chauhan, S. Singh, D. Sharma, and J.C. Sharma. 2020. Effect of soilless media on nutrient uptake and yield of tomato (*Solanum lycopersicum*). Indian Journal of Agricultural Sciences. 90(4): 732-735.

Subramani, T., B. Gangaiah, V. Baskaran, and S. Swain. 2020. Effect of soilless growing media on yield and quality of tomato (*Solanum lycopersicum* L.) under tropical island conditions. International Journal of Current Microbiology and Applied Sciences, 9:5): 2084-2090.

Suci, C.W. dan S. Heddy. 2018. Pengaruh intensitas cahaya terhadap keragaan tanaman puring (*Codiaeum variegetum*). Jurnal Produksi Tanaman. 6(1): 161-169.

Suryantini, N. N., Wijana, G., Suarna, I. W., dan Putra, I. M. S. A. P. 2023. Respons tiga jenis tanaman sayuran daun terhadap perbedaan konsentrasi Ca (NO3) 2 pada hidroponik DFT. Agro Bali: Agricultural Journal. 6(2): 446-458.

Sutrisna, Nana. 2020. Urban agriculture development for food security at the time of Covid-19 pandemies in Indonesia. Sumatra Journal of Disaster Geography and Geography Education. 4(2): 165-172.

Suzuki, M., H. Umeda, S. Matsuo, Y. Kawasaki, D. Ahn, H. Hamamoto, and Y. Iwasaki. 2015. Effect of relative humidity and nutrient supply on growth and nutrient uptake in greenhouse tomato production. Scientia Horticulturae. 187: 44-49.

Tarjiyo dan Elfis. 2023. Respons pertumbuhan dan produksi tanaman bawang merah (*Allium ascalonicum* L.) terhadap pupuk kotoran burung puyuh dan pupuk organik cair (POC) bonggol pisang. Jurnal agroteknologi Agribisnis dan Akuakultur. 3(2): 115-130.

Tiwari, Punita. 2015. Cocopeat: a new era of soilless urban farming. International Journal of Researches in Biosciences Agricultures and Technology. 2(7): 287-289.

Trimanto, T., Pitaloka, D. A., dan Metusala, D. 2020. Karakterisasi morfologi dan fenologi pembungaan dua aksesi kopsia pauciflora Hook.F. bunga putih dan merah muda di kebun raya Purwodadi, Jawa Timur. Buletin Plasma Nutfah, 26(2): 77–88.

Walida, H., F.S. Harahap, Migusnawati, and Ananto. 2023. Reaction creation of tomato (*Solanum lycopersicum* L.) by giving strong oil palm void organic product pack and charcoal rice husk. Jurnal Penelitian Berkelanjutan. 1(2): 46-50.

Wulansari, F.C., E. Purwanto, M. Rahayu and A.T. Sakya. 2024. The ret of net assimilation and the rate of relative growth of amarant (*Amaranthus tricolor* L.) varieties on urea fertilizer application. IOP Conf. Series: Earth and Environnemental Science. 1362: 1-9.

Xu, J., Wolters-Arts, M., Mariani, C., Huber, H., and Rieu, I. 2017. Heat stress affects vegetative and reproductive performance and trait correlations in tomato (*Solanum lycopersicum*). Euphytica. 213, 156.

Yuliana, E., Widyawati, N., dan Sutrisno, A. J. 2020. Pengaruh komposisi media tanam terhadap pertumbuhan dan hasil tanaman bunga gladiol (*Gladiolus hybridus* L.). Jurnal Teknik Pertanian Lampung. 9(4): 353–360.