

DAFTAR PUSTAKA

- Ade-Ademil, O. E., Iwaotan, T. O., & Osaji, T. C. 2009. Pre-Planting (Cold) Treatment of *Allium sativum* Cloves Improves its Growth and Yield Under Open Field and Open Shade Conditions. *Journal of Plant Sciences*, 4(3), pp. 49–58.
- Ahammed, G. J., Chen, Y., Liu, C., & Yang, Y. 2022. Light regulation of potassium in plants. *Plant Physiology and Biochemistry*, 170, pp. 316–324.
- Akratos, C. S., Tekerlekopoulou, A. G., Vasiliadou, I. A., & Vayenas, D. V. 2017. Composting of olive mill waste for the production of soil amendments. In *Olive Mill Waste Elsevier*, pp. 161–182.
- Akter, S., Kamruzzaman, Md., Sarder, Md. P., Amin, Md. S., Joardar, J. C., Islam, Md. S., Nasrin, S., Islam, M. U., Islam, F., Rabbi, S., & Halder, M. 2024. Mycorrhizal fungi increase plant nutrient uptake, aggregate stability and microbial biomass in the clay soil. *Symbiosis*, pp. 1–14.
- Albert, S. 2017. *How to Plant and Grow Garlic*. Harvest to Table, Plant Prepare Preserve.
https://harvesttotable.com/how_to_grow_garlic/#:~:text=the%20garden%20bed,Garlic%20planting%20temperature,established%20roots%20will%20overwinter%20best
- Al-Karaki, G. N. 2002. Field Response of Garlic Inoculated with Arbuscular Mycorrhizal Fungi to Phosphorus Fertilization. *Journal of Plant Nutrition*, 25(4), pp. 747–756.
- Alrajhei, K., Saleh, I., & Abu-Dieyeh, M. H. 2022. Biodiversity of arbuscular mycorrhizal fungi in plant roots and rhizosphere soil from different arid land environment of Qatar. *Plant Direct*, 6(1), pp. 1-16.
- Andriani, V., & Karmila, R. 2019. Pengaruh Temperatur Terhadap Kecepatan Pertumbuhan Kacang Tolo (*Vigna* sp.). *STIGMA: Jurnal Matematika Dan Ilmu Pengetahuan Alam Unipa*, 12(01), pp. 49–53.
- Anni, I. A., Saptiningsih, E., & Haryanti, S. 2013. Pengaruh Naungan terhadap Pertumbuhan dan Produksi Tanaman Bawang Daun (*Allium fistulosum* L.) di Bandungan, Jawa Tengah. *Jurnal Akademika Biologi*, 2(3), pp. 31–400.
- Anshar, M., Hendro Sunarminto, B., and Sulistyaningsih, E., 2011. Pengaruh Lugas Tanah terhadap Pertumbuhan dan Hasil Tiga Varietas Lokal Bawang Merah pada Ketinggian Tempat Berbeda. *J. Agroland*, 18: 8–14.
- Asbur, Y., Purwaningrum, Y., Rambe, R. D. H., Kusbiantoro, D., Hendrawan, D., & Khairunnisyah, K. 2019. Studi jarak tanam dan naungan terhadap pertumbuhan dan potensi *Asystasia gangetica* (L.) T. Anderson sebagai tanaman penutup tanah. *Kultivasi*, 18(3), pp. 969–976.
- Atif, M. J., Amin, B., Ghani, M. I., Ali, M., & Cheng, Z. 2020. Variation in Morphological and Quality Parameters in Garlic (*Allium sativum* L.) Bulb Influenced by Different Photoperiod, Temperature, Sowing and Harvesting Time. *Plants*, 9(2), pp. 1–16.

- Atmaja, I. W. D., & Dana, W. 2001. *Bioteknologi Tanah*. Jurusan Tanah Fakultas Pertanian Universitas Udayana.
- Balittanah Bogor. 2022. Hasil Analisis Jumlah Spora Mikoriza Dalam Tanah.
- Bapaume, L., & Reinhardt, D. 2012. How membranes shape plant symbioses: signaling and transport in nodulation and arbuscular mycorrhiza. *Frontiers in Plant Science*, 3(10), pp. 1–30.
- BAPPEDA Gunungkidul. 2011. *Publikasi Data Spasial Rencana Tata Ruang Wilayah 2010 Gunungkidul*. Badan Perencanaan Pembangunan Daerah Gunungkidul.
- Barmudoi, B., & Bharali, B. 2016. Effects of Light Intensity and Quality on Physiological Changes in Winter Rice (*Oryza Sativa* L.). *International Journal of Environmental & Agriculture Research (IJOEAR)*, 2(3), pp. 65–76.
- Bayan, L., Koulivand, P. H., & Gorji, A. 2014. Garlic: a review of potential therapeutic effects. *Avicenna Journal of Phytomedicine*, 4(1), pp. 1–14.
- Bhargava, P., Vats, S., & Gupta, N. 2019. Metagenomics as a Tool to Explore Mycorrhizal Fungal Communities. In A. Varma & D. K. Choudhary (Eds.), *Mycorrhizosphere and Pedogenesis*, Springer Singapore, pp. 207–219.
- Birhane, E., Sterck, F. J., Fetene, M., Bongers, F., & Kuyper, T. W. (2012). Arbuscular mycorrhizal fungi enhance photosynthesis, water use efficiency, and growth of frankincense seedlings under pulsed water availability conditions. *Oecologia*, 169(4), pp. 895–904.
- Bitu, C. E., & Gerats, T. 2013. Plant tolerance to high temperature in a changing environment: scientific fundamentals and production of heat stress-tolerant crops. *Frontiers in Plant Science*, 4(7), pp. 1–18.
- Bi, Y., Huili, Z., & Christie, P. 2020. Changes in peanut canopy structure and photosynthetic behavior resulting from arbuscular mycorrhizal association in a nutrient-poor environment, pp.1-30.
- BMKG. 2017. Normal Hujan Bulanan. BMKG Stasiun Klimatologi Deli Serdang. <https://bmkgsampali.net/normal-hujan-bulanan/>
- BMKG. 2019. Variabilitas Iklim Di Indonesia. Badan Meteorologi, Klimatologi, Dan Geofisika.
- BMKG. 2021. Data Curah Hujan BBI Gading Kab. Gunungkidul Tahun 2021.
- Bolly, Y. Y. 2020. Peningkatan Ketersediaan dan Serapan NPK serta Hasil Tanaman Jagung BISI-16 melalui Inokulasi Mmikoriza dan Pupuk NPK pada Alfisol. *AGRICIA*, 5(1), pp. 44–56.
- Bonfante, P., & Genre, A. 2010. Mechanisms underlying beneficial plant–fungus interactions in mycorrhizal symbiosis. *Nature Communications*, 1(1), pp. 1–11.
- BOPRC. 2011. Soil Organic Matter. In *Sustainable Options, Land Management Bay of Plenty Regional Council*, pp. 1–4.

- BPS. 2022a. Kabupaten Gunungkidul Dalam Angka 2022 (Endarto, Ed.). Badan Pusat Statistika Kabupaten Gunungkidul.
- BPS. 2022b. Produksi Tanaman Sayuran 2016-2020. Badan Pusat Statistika. <https://www.bps.go.id/indicator/55/61/7/produksi-tanaman-sayuran.html>
- BPT. 2005. Petunjuk Teknis Analisis Kimia Tanah, Tanaman, Air, dan Pupuk (B. H. Prasetyo, D. Santoso, & L. R. Widowati, Eds.; 1st ed.). Balai Penelitian Tanah, pp. 1-143.
- BPTP Yogyakarta. 2021. Hasil Analisis NPK Total dan NPK Tersedia Tanah.
- BPTP Yogyakarta. 2022. Hasil Analisis Tekstur 3 Fraksi Tanah.
- Brust, G. E. 2019. Management Strategies for Organic Vegetable Fertility. In *Safety and Practice for Organic Food* Elsevier, pp. 193–212.
- Bungard, R. A., Scholes, J. D., & Press, M. C. 2000. The influence of nitrogen on rain forest dipterocarp seedlings exposed to a large increase in irradiance. *Plant, Cell & Environment*, 23(11), pp. 1183–1194.
- Cartika, I., Suwarni Tri Rahayu, Rofik Sinung Basuki, & Thomas Agoes Soetiarso. 2022. Pertumbuhan dan Hasil Tanaman Bawang Putih pada Berbagai Penambahan Lama Penyinaran Lampu LED Putih. *Jurnal Agronomi Indonesia* (Indonesian Journal of Agronomy), 50(1), pp. 57–64.
- Carvalhais, L. C., Rincon-Florez, V. A., Brewer, P. B., Beveridge, C. A., Dennis, P. G., & Schenk, P. M. 2019. The ability of plants to produce strigolactones affects rhizosphere community composition of fungi but not bacteria. *Rhizosphere*, 9, pp. 18–26.
- Coombs, J., Hind, G., Leegood, R. C., Tieszen, L. L., & Vonshak, A. 1985. ANALYTICAL TECHNIQUES. In J. Coombs, D. O. Hall, S. P. Long, & J. M. O. Scurlock (Eds.), *Techniques in Bioproductivity and Photosynthesis*, Elsevier (2nd ed., Vol. 1, pp. 219–228).
- Cruz, P., Sierra, J., Wilson, J. R., Dulormne, M., & Tournebize, R. 1999. Effects of Shade on the Growth and Mineral Nutrition of Tropical Grasses in Silvopastoral Systems. *Annals of Arid Zone*, 38(4), pp. 335–361.
- De Coster, W., D’Hert, S., Schultz, D. T., Cruts, M., & Van Broeckhoven, C. 2018. NanoPack: visualizing and processing long-read sequencing data. *Bioinformatics*, 34(15), pp. 2666–2669.
- De la Haba, P., De la Mata, L., Molina, E., & Agüera, E. 2014. High temperature promotes early senescence in primary leaves of sunflower (*Helianthus annuus* L.) plants. *Canadian Journal of Plant Science*, 94(4), pp. 659–669.
- Deshmukh, I. 1986. *Ecology and Tropical Biology*. Blackwell Science Inc.
- Djukri, & Purwoko, B. S. 2003. Effect of Paranets Shade to Tolerance Characters of Taro (*Colocasia seculenta* (L.) Schott). *Ilmu Pertanian*, 10(2), pp. 17–25.

- Echer, F. R., Zanolini, P. R. L., Moreira, A. C. M., Santos, A. C. P., & Gorni, P. H. 2019. Root growth and carbohydrate partitioning in cotton subjected to shading in the initial phase. *Ciência Rural*, 49(1), pp. 1–8.
- Eckardt, N. A. 2009. A New Chlorophyll Degradation Pathway. *The Plant Cell*, 21(3), pp. 700.
- Ekawati, R., D. Susila, A., & G. Kartika, J. 2014. Pengaruh Naungan Tegakan Pohon Terhadap Pertumbuhan dan Produktivitas Beberapa Tanaman Sayuran Indigenous. *Jurnal Hortikultura Indonesia*, 1(1), pp. 46–52.
- Ekawati, R., & Saputri, L. H. 2020. The Effect of Different Shading Level on Growth and Plant Biomass Character of Dayak Union (*Eleutherine palmifolia* (L.) Merr). *Jurnal Hortikultura Indonesia*, 11(3), pp. 221–230.
- Etafa, A. T. 2022. Effect of dominant shade tree species on selected soil physicochemical properties and coffee production in Sayyo district, western Ethiopia. *Trees, Forests and People*, 8, pp. 1-8.
- Eviati, & Sulaeman. 2009. Petunjuk Teknis Edisi 2 Analisis Kimia Tanah, Tanaman, Air, dan Pupuk (B. H. Prasetyo, D. Santoso, & L. Retno W., Eds.; 2nd ed.). Balai Besar Litbang Sumber Daya Lahan Pertanian, pp. 1-251.
- Fall, A. F., Nakabonge, G., Ssekandi, J., Founoune-Mboup, H., Apori, S. O., Ndiaye, A., Badji, A., & Ngom, K. 2022. Roles of Arbuscular Mycorrhizal Fungi on Soil Fertility: Contribution in the Improvement of Physical, Chemical, and Biological Properties of the Soil. *Frontiers in Fungal Biology*, 3, pp. 1-11.
- FAOSTAT. 2021. Production Share of Garlic. Food and Agriculture Organization of the United Nations (FAO). <https://www.fao.org/>
- Fatchul Az, A., Indradewa, D., Cahyono, O., & Priyadi, S. 2018. Effect of Vesicular Arbuscular Mycorrhiza on the Growth and the Characteristics of Rice Varieties in Rainfed Lowland Rice Cultivation. *Journal of Agronomy*, 18(1), pp. 27–32.
- Fazlina, M. I. S., Azhar, A. T. S., Abdullah, M. E., Sunar, N. M., Embong, Z., & Aziman, M. 2018. Effect of Rainfall Patterns on Concentration of CO₂, Soil Temperature and Matric Suction for Acidic Barren Soil. *Journal of Physics: Conference Series*, 1049(1), pp. 1-7.
- Febrian Ramadhan, A., & Hariyono, D. 2019. Pengaruh Pemberian Naungan Terhadap Pertumbuhan dan Hasil Pada Tiga Varietas Tanaman Stroberi (*Fragaria chiloensis* L.) The Effect of Shade on Growth and Yield of Strawberry on Three Varieties (*Fragaria chiloensis* L.). *Jurnal Produksi Tanaman*, 7(1), pp. 1–7.
- Frey, S. D. 2019. Mycorrhizal Fungi as Mediators of Soil Organic Matter Dynamics. *Annual Reviews of Ecology, Evolution, and Systematics*, 50, pp. 237–259.
- Gagad Restu, P. 2010. Tanggap Pertumbuhan Tanaman Gandum terhadap Naungan. *Widyariset*, 13(2), pp. 37–45.
- Garcia, K., & Zimmermann, S. D. 2014. The role of mycorrhizal associations in plant potassium nutrition. *Frontiers in Plant Science*, 5(7), pp. 1-9.

- Gardenate. 2022. *Growing Garlic*. Gardenate.
<https://www.gardenate.com/plant/Garlic?zone=2>
- Gardner, F. P., Brent Pearce, R., & Mitchell, R. L. 2019. Physiology of crop plants (2nd ed.). Scientific Publishers, pp. 1-327.
- Genetika Science. 2022. Hasil Analisis Full Length ITS Barcode using Oxford Nanopore Platform.
- Ghignone, S., Tamietti, G., & Girlanda, M. 2003. Development of specific PCR primers for identification and detection of *Rhizopycnis vagum*. *European Journal of Plant Pathology*, 109(8), pp. 861–870.
- Gianinazzi-Pearson, V. 1984. Host-Fungus Specificity, Recognition and Compatibility in Mycorrhizae. In D. P. S. Verma & T. Hohn (Eds.), *Genes Involved in Microbe-Plant Interactions*. Plant Gene Research, Springer, pp. 225–253.
- Golubkina, N., Amagova, Z., Matsadze, V., Zamana, S., Tallarita, A., & Caruso, G. 2020. Effects of Arbuscular Mycorrhizal Fungi on Yield, Biochemical Characteristics, and Elemental Composition of Garlic and Onion under Selenium Supply. *Plants*, 9(1), pp. 1-15.
- Gross, K., Homlicher, A., Weinreich, A., & Wagner, E. 1996. Effect of shade on Stomatal Conductance, Net Photosynthesis, Photochemical Efficiency and Growth of Oak Saplings. *Annales Des Sciences Forestières*, 53(2–3), pp. 279–290.
- Guo, T., Zhang, J., Christie, P., & Li, X. 2006. Influence of Nitrogen and Sulfur Fertilizers and Inoculation with Arbuscular Mycorrhizal Fungi on Yield and Pungency of Spring Onion. *Journal of Plant Nutrition*, 29(10), pp. 1767–1778.
- Hajoeningtjas, O. D., Budi, G. P., & Watemin. 2012. *Mikrobiologi Pertanian* (1st ed.). Graha Ilmu.
- Hakim, S. S., Budi, S. W., & Turjaman, M. 2015. Phosphate Solubilizing and Antifungal Activity of Root Endophyte Isolated from *Shorea leprosula* Miq. And *Shorea selanica* (DC) Blume. *Jurnal Manajemen Hutan Tropika* (Journal of Tropical Forest Management), 21(3), pp. 138–146.
- Halderman, A. A., & Lane, A. P. 2017. Organism and Microbiome Analysis: Techniques and Implications for Chronic Rhinosinusitis. In *Otolaryngologic Clinics of North America*, W.B. Saunders, 50(3), pp. 521–532.
- Halid, E. 2017. Uji Efektivitas Pemberian Fungi Mikoriza Arbuskular (FMA) terhadap Cekaman Kekeringan Bibit Kakao Klon Lokal. *Agrokompleks*, 16(1), pp. 33–37.
- Hamdani, J. S., Sumadi, Suriadinata, Y. R., & Martins, L. 2016. Pengaruh Naungan dan Zat Pengatur Tumbuh terhadap Pertumbuhan dan Hasil Tanaman Kentang Kultivar Atlantik di Dataran Medium. *Jurnal Agronomi Indonesia* (Indonesian Journal of Agronomy), 44(1), pp. 33-39.
- Hammer, E. C., Pallon, J., Wallander, H., & Olsson, P. A. 2011. Tit for tat? A mycorrhizal fungus accumulates phosphorus under low plant carbon availability. *FEMS Microbiology Ecology*, 76(2), pp. 236–244.

- Hanba, Y. T., Kogami, H., & Terashima, I. 2002. The effect of growth irradiance on leaf anatomy and photosynthesis in *Acer* species differing in light demand. *Plant, Cell & Environment*, 25(8), pp. 1021–1030.
- Handriawan, A., Weny Respatie, D., & Tohari. 2016. Pengaruh Intensitas Naungan terhadap Pertumbuhan dan Hasil Tiga Kultivar Kedelai (*Glycine max* (L.) Merrill) di Lahan Pasir Pantai Bugel, Kulon Progo. *Vegetalika*, 5(3), pp. 1–14.
- Hartnett, D. C., Hetrick, B. A. D., Wilson, G. W. T., & Gibson, D. J. 1993. Mycorrhizal Influence on Intra- and Interspecific Neighbour Interactions among Co-Occurring Prairie Grasses. *The Journal of Ecology*, 81(4), pp. 787–795.
- Hashem, H., Ghassemi-Golez, K., Rahimzadeh Khoei, F., Valizadeh, M., & Reza Shakiba, M. 2006. Response of Common Bean (*Phaseolus vulgaris* L.) to Different Levels of Shade. *Journal of Agronomy*, 5(4), pp. 595–599.
- Hilman, Y., Hidayat, A., & Suwandi. 1997. *Budidaya Bawang Putih di Dataran Tinggi* (1st ed., Vol. 1). Balai Penelitian Tanaman Sayuran, pp.1-39.
- Huey, C. J., Gopinath, S. C. B., Uda, M. N. A., Zulhaimi, H. I., Jaafar, M. N., Kasim, F. H., & Yaakub, A. R. W. 2020. Mycorrhiza: a natural resource assists plant growth under varied soil conditions. *3 Biotech*, 10(5), pp. 1-9.
- Ingraffia, R., Amato, G., Sosa-Hernández, M. A., Frenda, A. S., Rillig, M. C., & Giambalvo, D. 2020. Nitrogen Type and Availability Drive Mycorrhizal Effects on Wheat Performance, Nitrogen Uptake and Recovery, and Production Sustainability. *Frontiers in Plant Science*, 11, pp. 1-12.
- Jahn, O. L., & Young, R. 1976. Changes in Chlorophyll a, b, and the a/b Ratio during Color Development in Citrus Fruit1. *Journal of the American Society for Horticultural Science*, 101(4), pp. 416–418.
- Javed, H. H., Hu, Y., Asghar, M. A., Brestic, M., Abbasi, M. A., Saleem, M. H., Peng, X., Ghafoor, A. Z., Ye, W., Zhou, J., Guo, X., & Wu, Y.-C. 2022. Effect of Intermittent Shade on Nitrogen Dynamics Assessed by ¹⁵N Trace Isotopes, Enzymatic Activity and Yield of *Brassica napus* L. *Frontiers in Plant Science*, 13, pp. 1-17.
- Jing, X., Chen, P., Jin, X., Lei, J., Wang, L., Chai, S., & Yang, X. 2023. Physiological, Photosynthetic, and Transcriptomics Insights into the Influence of Shading on Leafy Sweet Potato. *Genes*, 14(2112), pp. 1–15.
- Kabupaten Gunungkidul. 2016. *Gambaran Umum: Topografi*. Kabupaten Gunungkidul Daerah Istimewa Yogyakarta. <https://gunungkidulkab.go.id/D-74db63a914e6fb0f4445120c6fa44e6a-NR-100-0.html>
- Kaiser, D. E., & Rosen, C. J. 2018. Potassium for crop production. University of Minnesota Extension, pp. 1-15. <https://extension.umn.edu/phosphorus-and-potassium/potassium-crop-production>
- Kandhasamy, N., Ravichandran, K. R., & Thangavelu, M. 2020. Interactive Influence of Soil and Plant Genotypes on Mycorrhizal Dependency in Finger Millet. *Journal of Soil Science and Plant Nutrition*, 20(3), pp. 1287–1297.

- Karnilawati, Mulia Sari, C., & Husna, A. 2022. Efektivitas Penggunaan MOL Buah dan Jenis Media Tanam terhadap Pertumbuhan Tanaman Bawang Putih (*Allium sativum* L.). Jurnal Real Riset, 4(1), pp. 1–8.
- Kementan, 2018. Buku Saku Budidaya Sayuran Bawang Putih. Jakarta: Direktorat Sayuran dan Tanaman Obat, Direktorat Jendral Hortikultura, pp. 1-62.
- Kementan, 2023. Statistik Penunjang Data Ekonomi Pertanian, 2023. 1st ed. Jakarta: Pusat Data dan Sistem Informasi Pertanian Sekretariat Jenderal Kementerian Pertanian, pp. 1-158.
- Khoiroh, Y., Harijati, N., & Mastuti, R. 2014. Pertumbuhan Serta Hubungan Kerapatan Stomata Dan Berat Umbi Pada *Amorphophallus muelleri* Blume Dan *Amorphophallus variabilis* Blume. Jurnal Biotropika, 2(5), pp. 249-253.
- Kitajima, K., & Hogan, K. P. 2003. Increases of chlorophyll a/b ratios during acclimation of tropical woody seedlings to nitrogen limitation and high light. Plant, Cell & Environment, 26(6), pp. 857–865.
- Knegt, B., Jansa, J., Franken, O., Engelman, D. J. P., Werner, G. D. A., Bücking, H., & Kiers, E. T. 2016. Host plant quality mediates competition between arbuscular mycorrhizal fungi. Fungal Ecology, 20, pp. 233–240.
- Kobae, Y. 2019. Dynamic Phosphate Uptake in Arbuscular Mycorrhizal Roots Under Field Conditions. Frontiers in Environmental Science, 6(1), pp. 1-12.
- Koide, R. T., & Dickie, I. A. 2002. Effects of mycorrhizal fungi on plant populations. Plant and Soil, 244, pp. 307–317.
- Konvalinková, T., & Jansa, J. 2016. Lights Off for Arbuscular Mycorrhiza: On Its Symbiotic Functioning under Light Deprivation. Frontiers in Plant Science, 7(6), pp. 1–11.
- Kormanik, P. 1982. Quantification of Vesicular-Arbuscular Mycorrhizal in Plant Roots, Methods and Principles of Mycorrhizal Research. In N. C. Schenck (Ed.), Methods and Principles of Mycorrhizal Research. American Phytopathological Society, pp. 37-45.
- Kume, A., Akitsu, T., & Nasahara, K. N. 2018. Why is chlorophyll b only used in light-harvesting systems? Journal of Plant Research, 131(6), pp. 961–972.
- Lara-Victoriano, F., Castillo-Reyes, F., Flores-Gallegos, C., Aguilar, C. N., & Rodríguez-Herrera, R. 2011. Metagenomics in plant pathology Definition of the culture conditions for the production of bacterial tannases View project. In R. Rodríguez Herrera, C. N. Aguilar, J. Kilpatrick Simpson-Williamson, & G. Gutierrez Sanchez (Eds.), *Phytopathology in The Omics Era*. Research Signpost, pp. 1–9.
- Lee, E.-H., Eo, J.-K., Ka, K.-H., & Eom, A.-H. 2013. Diversity of Arbuscular Mycorrhizal Fungi and Their Roles in Ecosystems. Mycobiology, 41(3), pp. 121–125.
- Legowo, A. M., & Nurwantoro. 2004. Diktat Kuliah Analisis Pangan.

- Lima, M. C., Da-Silva, C. J., Mariot, M. P., Freitag, R. A., Serpa, R., Ribeiro, G. A., & Amarante, L. do. 2020. Effect of shading and nitrogen fertilization on nitrogen metabolism, essential oil content and antimicrobial activity of *Achillea millefolium*. *Acta Scientiarum. Biological Sciences*, 42, pp. 1-12.
- Li, M., Guo, W., Du, N., Xu, Z., & Guo, X. 2018. Nitrogen deposition does not affect the impact of shade on *Quercus acutissima* seedlings. *PLOS ONE*, 13(3), pp.1-7.
- Li, M., Han, X., & Li, L.-J. 2022. Total Nitrogen Stock in Soil Profile Affected by Land Use and Soil Type in Three Counties of Mollisols. *Frontiers in Environmental Science*, 10, pp. 1-14.
- Liu, J., Liu, J., Liu, J., Cui, M., Huang, Y., Tian, Y., Chen, A., & Xu, G. 2019. The Potassium Transporter SIHAK10 Is Involved in Mycorrhizal Potassium Uptake. *Plant Physiology*, 180(1), pp. 465–479.
- Malar C, M., Wang, Y., Stajich, J. E., Kokkoris, V., Villeneuve-Laroche, M., Yildirim, G., & Corradi, N. 2022. Early branching arbuscular mycorrhizal fungus *Paraglomus occultum* carries a small and repeat-poor genome compared to relatives in the Glomeromycotina. *Microbial Genomics*, 8(4), pp. 1-10.
- Maryani, A. T., & Gusmawartati, D. 2011. Pengaruh Naungan dan Pemberian Kieserit terhadap Pertumbuhan dan Produksi Tanaman Nilam (*Pogostemon cablin* Benth.) pada Medium Gambut. *Jurnal Agroteknologi*, 2(1), pp. 1–9.
- Maya Maharani, D., Malin Sutan, S., & Arimurti, P. 2018. Pengontrolan Suhu Dan Kelembaban (Rh) Terhadap Pertumbuhan Vegetatif Cabai Merah (*Capsicum Annuum* L.) Pada Plant factory. *Jurnal Keteknik Pertanian Tropis Dan Biosistem*, 6(2), pp. 120–134.
- Ma, Z., Yang, W., Wu, F., & Tan, B. 2017. Effects of light intensity on litter decomposition in a subtropical region. *Ecosphere*, 8(4), pp. 1-13.
- McCormack, M. L., & Guo, D. 2014. Impacts of environmental factors on fine root lifespan. *Frontiers in Plant Science*, 5(5), pp. 1-11.
- McHaffie, M. B., & Maherali, H. 2020. Variation in mycorrhizal growth response influences competitive interactions and mechanisms of plant species coexistence. *Oecologia*, 192(3), pp. 755–765.
- McNear Jr., D. H. 2013. The rhizosphere-roots, soil and everything in between. *Nature Education Knowledge*, 4(3), pp. 1–15.
- Medina, A., Probanza, A., Gutierrez Mañero, F. J., & Azcón, R. 2003. Interactions of Arbuscular-Mycorrhizal Fungi and *Bacillus* Strains and Their Effects on Plant Growth, Microbial Rhizosphere Activity (Thymidine and Leucine Incorporation) and Fungal Biomass (Ergosterol and Chitin). *Applied Soil Ecology*, 22(1), pp. 15–28.
- Menzel, P., Ng, K. L., & Krogh, A. 2016. Fast and sensitive taxonomic classification for metagenomics with Kaiju. *Nature Communications*, 7(1), pp. 1-9

- Monder, H., Maillard, M., Chérel, I., Zimmermann, S. D., Paris, N., Cuéllar, T., & Gaillard, I. 2021. Adjustment of K⁺ Fluxes and Grapevine Defense in the Face of Climate Change. *International Journal of Molecular Sciences*, 22(19), pp. 1-19.
- Morsy, E. M., Anwar, R. S., & Massoud, O. N. 2013. Response of garlic (*Allium sativum* L.) to inoculation with mycorrhizal fungi and *Bacillus megaterium* under different phosphorus levels in newly reclaimed sandy soil. *Research Journal of Agriculture and Biological Sciences*, 9(6), pp. 318–329.
- Mosaic. 2021. Five Benefits of Soil Organic Matter. Mosaic AgriSight; Wiley. <https://www.cropnutrition.com/resource-library/five-benefits-of-soil-organic-matter/#:~:text=The%20benefits%20of%20O.M.%20are%20summarized%20in%20the,Water%20Holding%20Capacity%20...%205%205.%20Erosion%20C%20control>
- Nadeem, S. M., Ahmad, M., Zahir, Z. A., Javaid, A., & Ashraf, M. 2014. The role of mycorrhizae and plant growth promoting rhizobacteria (PGPR) in improving crop productivity under stressful environments. *Biotechnology Advances*, 32(2), pp. 429–448.
- Nasaruddin, & Ridwan, I. 2017. Photosynthetic Apparatus of Soybean Exposed to Drought Due to Application of Arbuscular Mycorrhiza. *Asian Journal of Plant Sciences*, 17(1), pp. 37–46.
- Navarro J.M. and Morte, A .2024. Arbuscular Mycorrhizal Fungi as Biofertilizers to Increase the Plant Quality of Sour-Orange Seedlings. *Agronomy* 14(1). Multidisciplinary Digital Publishing Institute (MDPI), pp. 1-18.
- Notohadiprawiro, T., Soekodarmodjo, S., & Sukana, E. 1984. Pengelolaan Kesuburan Tanah dan Peningkatan Efisiensi Pemupukan. Seminar Pertemuan Alih Teknologi, Dinas Pertanian Tanaman Pangan Provinsi Dati 1 Jawa Tengah.
- Nusantara, A. D., Bertham, Y. H., & Mansur, I. 2012. Bekerja dengan Fungi Mikoriza Arbuskula (N. Januarini, Ed.; 1st ed.). Seameo Biotrop, pp. 1-78.
- Ortaş, I., & Rafique, M. 2017. The Mechanisms of Nutrient Uptake by Arbuscular Mycorrhizae. In A. Varma, R. Prasad, & N. Tuteja (Eds.), *Mycorrhiza - Nutrient Uptake, Biocontrol, Ecorestoration* (4th ed.). Springer International Publishing, pp. 1–19.
- Östbring, K., Rayner, M., Sjöholm, I., Otterström, J., Albertsson, P.-Å., Emek, S. C., & Erlanson-Albertsson, C. 2014. The effect of Heat Treatment of Thylakoids on their ability to inhibit in Vitro Lipase/Co-Lipase Activity. *Food & Function*, 5(9), pp. 2157–2165.
- Pan, S., Liu, H., Mo, Z., Patterson, B., Duan, M., Tian, H., Hu, S., & Tang, X. 2016. Effects of Nitrogen and Shading on Root Morphologies, Nutrient Accumulation, and Photosynthetic Parameters in Different Rice Genotypes. *Scientific Reports*, 6(1), pp. 1-14.
- Parniske, M. 2008. Arbuscular mycorrhiza: the mother of plant root endosymbioses. *Nature Reviews. Microbiology*, 6(10), pp. 763–775.

- Perez-Lamarque, B., Petrolli, R., Strullu-Derrien, C., Strasberg, D., Morlon, H., Selosse, M.-A., & Martos, F. 2022. Structure and specialization of mycorrhizal networks in phylogenetically diverse tropical communities. *Environmental Microbiome*, 17(38), pp.1-19.
- Permanasari, I., Sulistyaningsih, E., Kurniasih, B., & Indradewa, D. 2023. Morphophysiological and yield traits of soybean varieties tolerant of intercropping with maize. *Biodiversitas Journal of Biological Diversity*, 24(7), pp. 3872–3880.
- Phillippy, A., Koren, S., & Walenz, B. 2021. canu Documentation Release 2.2.
- Põldma, P., Merivee, A., Pae, A., & Justus, K. 2005. Influence of Planting Time on The Development, Yield and Quality of Garlic (*Allium Sativum* L.) In Estonia. *Acta Horticulturae*, 688, pp. 333–338.
- Prasetyo, B. H. 2007. Perbedaan Sifat-sifat Tanah Vertisol dari Berbagai Bahan Induk. *Jurnal Ilmu-Ilmu Pertanian Indonesia*, 9(1), pp. 20–31.
- Putra, D. F., Tyasmoro, S. Y., Wicaksono, K. P., & Vincie, L. 2015. Simulation of increasing night temperature on vegetative and generative of paddy (*Oryza sativa* L.). *Journal of Degraded and Mining Lands Management*, 3(1), pp. 469–475.
- Purwanto, Yuniarti, A. R., & Rokhminarsih, E. 2022. Uji kemampuan bakteri diazotrof asal perakaran bawang merah dalam mendukung pertumbuhan dan hasil tanaman bawang merah. *Kultivasi*, 21(2), pp. 181–189.
- Qu, L., Wang, M., & Biere, A. 2021. Interactive Effects of Mycorrhizae, Soil Phosphorus, and Light on Growth and Induction and Priming of Defense in *Plantago lanceolata*. *Frontiers in Plant Science*, 12, pp. 1-20.
- Ragel, P., Raddatz, N., Leidi, E. O., Quintero, F. J., & Pardo, J. M. 2019. Regulation of K⁺ Nutrition in Plants. *Frontiers in Plant Science*, 10, pp. 1-21.
- Rahim, M. A., & Fordham, R. 1990. Effect of shade and environmental conditions on the initiation and development of garlic cloves (*Allium sativum* L.). *Scientia Horticulturae*, 45(1–2), pp. 21–30.
- Rashwan, B., Ali, M., & Ferweez, H. 2018. Growth, Yield, Bulb Quality and Storability of Garlic (*Allium sativum* L.) as Affected by Using Poultry Manure, Sulphur and Different Levels of Phosphorus Fertilizer. *Journal of Soil Sciences and Agricultural Engineering*, 9(10), pp. 447–459.
- Rowell, D. L. 2014. *Soil Science, Methods & Applications* (1st ed.). Routledge, pp. 1-369.
- Sadhana, B. 2014. Arbuscular Mycorrhizal Fungi (AMF) as a Biofertilizer-a Review. *Int.J.Curr.Microbiol.App.Sci*, 3(4), pp. 384–400.
- Sadiqin, A., Danu Tuheteru, F., Arif, A., Husna, & Albasri. 2023. The Effectiveness of Hormone Growth Promoting Fertilizers on Increasing the Production of Arbuscular Mycorrhizal Fungi Spores. *Journal of Tropical Mycorrhiza*, 2(1), pp. 1–10.

- Salih Alkobaisy, J. 2023. Factors Affecting Mycorrhizal Activity. In *Arbuscular Mycorrhizal Fungi in Agriculture - New Insights*. IntechOpen, pp. 1–13.
- Samudera, A. A. 2022. Pengaruh Waktu Tanam dan Konsentrasi Gibberellin terhadap Pertumbuhan dan Hasil Bawang Putih (*Allium sativum* L.) di Dataran Rendah. Universitas Gadjah Mada. (Thesis)
- Sandrakirana, R., Fauzia, L., Nurfitri Alami, E., Aisyawati, L., Rahmawati, D., Handayati, W., Susanti, I., & Baswarsati. 2018. Panduan Budidaya Bawang Putih. Badan Penelitian dan Pengembangan Pertanian Jawa Timur, pp.1-31.
- Santosa, D. A. 1989. Teknik dan Metode Penelitian Mikoriza Vesikular-Arbuskular.
- Santoso, H. B. 2000. Bawang Putih (12th ed.). Penerbit Kanisius.
- Saraswati, R., Husen, Edi., & Simanungkalit, R. D. M. 2007. *Metode analisis biologi tanah* (R. Saraswati, E. Husen, & R. D. M. Simanungkalit, Eds.). Balai Besar Penelitian dan Pengembangan Sumberdaya Lahan Pertanian, pp.1-279.
- Sari Dewi, R., Sumarsono, & Fuskhah, E. 2021. Pengaruh Pembenah Tanah Terhadap Pertumbuhan Dan Produksi Tiga Varietas Padi Pada Tanah Asal Karanganyar Berbasis Pupuk Organik Bio-Slurry. *Jurnal Buana Sains*, 21(1), pp. 65–76.
- Setiadi, Y. 2002. Mycorrhizal Inoculum Production Technique for Land Rehabilitation. *Jurnal Manajemen Hutan Tropika*, 8(1), pp. 51–64.
- Setiawati, T., Ayalla, A., Nurzaman, M., & Mutaqin, A. Z. 2018. Influence of Light Intensity on Leaf Photosynthetic Traits and Alkaloid Content of Kiasahan (*Tetracera scandens* L.). *IOP Conference Series: Earth and Environmental Science*, 166(1), pp. 1-8.
- Shao, Y.-D., Zhang, D.-J., Hu, X.-C., Wu, Q.-S., Jiang, C.-J., Xia, T.-J., Gao, X.-B., & Kuča, K. 2018. Mycorrhiza-induced changes in root growth and nutrient absorption of tea plants. *Plant, Soil and Environment*, 64(6), pp. 283–289.
- Shimoda, Y., Ito, H., & Tanaka, A. 2012. Conversion of chlorophyll b to chlorophyll a precedes magnesium dechelation for protection against necrosis in Arabidopsis. *The Plant Journal*, 72(3), pp. 501–511.
- Shuab, R., Lone, R., Naidu, J., Sharma, V., Imtiyaz, S., & Koul, K. K. 2014. Corresponding Author: Rafiq Lone, School of Studies in Botany. *Journal Agriculture & Environment Science*, 14(6), pp. 527–535.
- Shukor Juraimi, A., S.H. Drennan, D., & Anuar, N. 2004. The Effects of Shading on the Growth, Development and Partitioning of Biomass in Bermudagrass (*Cynodon dactylon* (L.) Pers.). *Journal of Biological Sciences*, 4(6), pp. 756–762.
- SIG Bogor. 2023. Hasil Analisis Full Length ITS Barcode using Oxford Nanopore Platform.
- Solichatun, Anggarwulan, E., and Mudyantini, W., 2005. The Effect of Water Availability on Growth and Saponin Content of *Talinum paniculatum* Gaertn. *Biofarmasi Journal of Natural Product Biochemistry*, 3: 47–51.

- Song, Y., Feng, L., Alyafei, M. A. M., Jaleel, A., & Ren, M. 2021. Function of Chloroplasts in Plant Stress Responses. *International Journal of Molecular Sciences*, 22(24), pp. 1-17.
- Simanungkalit, R. D. M. 2006. Pupuk Organik dan Pupuk Hayati. In R. D. M. Simanungkalit, D. Ardi Suriadikarta, R. Saraswati, D. Setyorini, & W. Hartatik (Eds.), *Pupuk Organik dan Pupuk Hayati*. Balai Besar Penelitian dan Pengembangan Sumberdaya Lahan Pertanian, pp. 159–190.
- Singh, A. K., Zhu, X., Chen, C., Wu, J., Yang, B., Zakari, S., Jiang, X. J., Singh, N., & Liu, W. 2022. The role of glomalin in mitigation of multiple soil degradation problems. *Critical Reviews in Environmental Science and Technology*, 52(9), pp. 1604–1638.
- Siregar, Z. K., Fikrinda, F., & Alvisyahrin, T. 2020. Pengaruh Media Pembawa dalam Perbanyak Spora Fungi Mikoriza Arbuskula. *Jurnal Mikologi Indonesia*, 4(1), pp. 125-133.
- Srivastava, P., Saxena, B., & Giri, B. 2017. Arbuscular Mycorrhizal Fungi: Green Approach/Technology for Sustainable Agriculture and Environment. In *Mycorrhiza - Nutrient Uptake, Biocontrol, Ecorestoration*. Springer International Publishing, pp. 355–386.
- Subowo, Purwani, J., & Rochayati, S. 2013. Makalah REVIEW. *Jurnal Sumberdaya Lahan*, 7(1), pp. 1–12.
- Sukmasari, M. D., Dani, U., & Wijaya, A. A. 2021. Arbuscular Mycorrhiza inoculation for Increasing the Tolerance Index and Productivity of Soybean on Marginal Soils. *IOP Conference Series: Earth and Environmental Science*, 748(1), pp. 1-12.
- Sukmawati, S., Adnyana, I. M., Suprpta, D. N., & Proborini, M. W. 2020. The compatibility of arbuscular mycorrhizal fungi with corn and sorghum plant in the dry land of central lombok. *International Journal of Life Sciences*, 4(1), pp. 99-108.
- Sulaeman, Suparto, & Eviati. 2005. Petunjuk Teknis, Analisis Kimia Tanah, Tanaman, Air, dan Pupuk (B. H. Prasetyo, D. Santoso, & L. Retno Widowati, Eds.). Balai Penelitian Tanah, Badan Penelitian dan Pengembangan Pertanian Departemen Pertanian, pp. 1-143.
- Sunarminto, B. H., & Santosa, H. 2008. Daya Mengembang dan Mengerut Montmorillonit I: Pengaruh Intensitas Curah-Embun terhadap Pengolahan Tanah Vertisol di Kecamatan Tepus dan Playen, Pegunungan Seribu Wonosari - Riset Laboratorium. *Agritech*, 28(1), pp. 1–8.
- Sundari, T., Soemartono, Tohari, & Mangoendidjojo, M. 2008. Anatomi Daun Kacang Hijau Genotipe Toleran dan Sensitif Naungan. *Jurnal Agronomi Indonesia*, 36(3), pp. 221–228.
- Suryaningsih, D. R., & Mangera, Y. 2020. Study of Use Shade and Mulch of Micro Climate in Tomato Plants (*Lycopersicum esculentum* Mill). *Musamus AE Featuring Journal*, 2(2), pp. 61–73.

- Sutharsan, S., & Srikrishnah, S. 2015. Effect of Different Shade Levels on Growth and Tuber Yield of Turmeric (*Curcuma longa* L.) In the Batticaloa District of Sri Lanka. *J. Agric. & Environ. Sci*, 15(5), pp. 813–816.
- Syed Othman Thani, S. K., Nik Mohamad, N. H., & Syed Abdullah, S. M. 2017. Influence of Urban Landscapes to Microclimatic Variances in a Tropical City. *Asian Journal of Behavioural Studies*, 2(7), pp. 31-41.
- Tanaka, R., & Tanaka, A. 2000. Chlorophyll b is not just an accessory pigment but a regulator of the photosynthetic antenna.
- Tang, H., Hassan, M. U., Feng, L., Nawaz, M., Shah, A. N., Qari, S. H., Liu, Y., & Miao, J. 2022. The Critical Role of Arbuscular Mycorrhizal Fungi to Improve Drought Tolerance and Nitrogen Use Efficiency in Crops. *Frontiers in Plant Science*, 13, pp. 1–9.
- Tarudi, H. M., Kusnarta, IGM., & Mahrup. 2004. Dinamika Lepas Tanah dan Pertumbuhan Akar Tanaman Kedelai pada Berbagai Tingkat Kepadatan Tanah. *Agroteksos*, 13(4), pp. 188–159.
- Thepsilvisut, O., Iad-ak, R., & Chutimanukul, P. 2023. The Effects of Shading and Nutrient Management on Yield Quality of Vegetable Fern. *Horticulturae*, 9(2), pp. 1-18.
- Thomas, P. W., Woodward, F. I., & Quick, W. P. 2004. Systemic irradiance signalling in tobacco. *New Phytologist*, 161(1), pp. 193–198.
- Tian, F., Gong, J., Zhang, J., Feng, Y., Wang, G., Guo, Q., & Wang, W. 2014. Overexpression of monoubiquitin improves photosynthesis in transgenic tobacco plants following high temperature stress. *Plant Science*, 226, pp. 92–100.
- Tibbett, M., Daws, M. I., & Ryan, M. H. 2022. Phosphorus uptake and toxicity are delimited by mycorrhizal symbiosis in P-sensitive *Eucalyptus marginata* but not in P-tolerant *Acacia celastrifolia*. *AoB PLANTS*, 14(5), pp. 1-9.
- Titisari, A., Setyorini, E., Sutriswanto, S., & Heryati, S. 2019. Kiat Sukses Budi Daya Bawang Putih (E. Setyorini & N. Rachmawati, Eds.; 1st ed.). Pusat Perpustakaan dan Penyebaran Teknologi Pertanian.
- Triharyanto, E., Putri, G. F. A., Sulandjari, & Muliawati, E. S. 2021. The yield potency of various types of garlic planting materials. *IOP Conference Series: Earth and Environmental Science*, 824(1), pp. 1-7.
- Turfan, N. 2022. Comparison of Bulb Yield, Some Bioactive Compound, and Elemental Profile of Taşköprü Garlic (*Allium sativum* L.) Grown in Greenhouse and Open Field Conditions. *Tekirdağ Ziraat Fakültesi Dergisi*, 19(2), pp. 248–261.
- USDA-NRCS. 2014. *Soil Health Guides for Educators*. United States Department of Agriculture, Natural Resources Conservation Service.
- Usnawiyah, U., & Khaidir, K. 2019. Respon Pemberian Mikoriza Arbuskular Dalam Media Zeolit Terhadap Pertumbuhan Dan Hasil Tanaman Kedelai. *Jurnal Agrium*, 10(1), pp. 1-4.

- van der Heijden, M. G. A., Martin, F. M., Selosse, M., & Sanders, I. R. 2015. Mycorrhizal ecology and evolution: the past, the present, and the future. *New Phytologist*, 205(4), pp. 1406–1423.
- Vega-Frutis, R., Sánchez-Gallen, I., Guadarrama, P., Sandoval González, I., & Castillo-Argüero, S. 2011. Pattern of root colonization by arbuscular mycorrhizal fungi in *Verbena virgata* and their effects on plant growth and leaf physical attributes. *International Research Journal of Plant Science*, 2(1), pp. 10–015.
- Walworth, J. 2013. Nitrogen in Soil and the Environment. College of Agriculture and Life Science, Cooperative Extension, pp. 1-3.
- Wang, Y., Chen, Y., & Wu, W. 2021. Potassium and phosphorus transport and signaling in plants. *Journal of Integrative Plant Biology*, 63(1), pp. 34–52.
- Wang, Y., & Wu, W.-H. 2015. Genetic approaches for improvement of the crop potassium acquisition and utilization efficiency. *Current Opinion in Plant Biology*, 25, pp. 46–52.
- Warouw, V., & Kainde, R. P. 2010. Populasi Jamur Mikoriza Vesikular Arbuskular (MVA) pada Zone Perakaran Jati. *Eugenia*, 16(1), pp. 38–45.
- Wei, L., Vosátka, M., Cai, B., Ding, J., Lu, C., Xu, J., Yan, W., Li, Y., & Liu, C. 2019. The Role of Arbuscular Mycorrhiza Fungi in the Decomposition of Fresh Residue and Soil Organic Carbon: A Mini-Review. *Soil Science Society of America Journal*, 83(3), pp. 511–517.
- Whitehead, M., & Isaac, M. E. 2012. Effects of Shade on Nitrogen and Phosphorus Acquisition in Cereal-Legume Intercropping Systems. *Agriculture*, 2(1), pp. 12–24.
- Wibowo, H., & Kasno, A. 2021. Soil organic carbon and total nitrogen dynamics in paddy soils on the Java Island, Indonesia. *IOP Conference Series: Earth and Environmental Science*, 648(1), pp. 1-9.
- Widiasmadi, N. 2021. Simulation of the Number of Microbial Populations for Fertility Optimization in Gromosol Soils Using Digital Smart Biosoidam Technology. *Systematic Review Pharmacy*, 12(4), pp. 154–159.
- Widiati, R., Izzdin Idrus, Muh., & Nur Imran, A. 2015. Isolasi dan Identifikasi Mikoriza Vesikular Arbuskular (MVA) pada Rhizosphere Tanaman Jagung (*Zea mays* L.) Di Desa Samanki Kecamatan Simbang Kabupaten Maros. *Agrokompleks*, 14(1), pp. 1–6.
- Yang, M., Liu, M., Lu, J., & Yang, H. 2019. Effects of shading on the growth and leaf photosynthetic characteristics of three forages in an apple orchard on the Loess Plateau of eastern Gansu, China. *PeerJ*, 7(8), pp. 1-16.
- Yang, Q., Xu, L., Xia, W., Liang, L., Bai, X., Li, L., Xu, L., & Liu, L. 2021. Mycorrhizal Compatibility and Germination-Promoting Activity of *Tulasnella* Species in Two Species of Orchid (*Cymbidium mannii* and *Epidendrum radicans*). *Horticulturae*, 7(11), pp. 1-15.

- Yang, Y., Han, X., Liang, Y., Ghosh, A., Chen, J., & Tang, M. 2015. The Combined Effects of Arbuscular Mycorrhizal Fungi (AMF) and Lead (Pb) Stress on Pb Accumulation, Plant Growth Parameters, Photosynthesis, and Antioxidant Enzymes in *Robinia pseudoacacia* L. PLOS ONE, 10(12), pp. 1-24.
- Yan, Z., Ma, T., Guo, S., Liu, R., & Li, M. 2021. Leaf anatomy, photosynthesis and chlorophyll fluorescence of lettuce as influenced by arbuscular mycorrhizal fungi under high temperature stress. Scientia Horticulturae, 280, pp. 1-8.
- Yondra, & Nelvia, W. 2017. Kajian Sifat Kimia Lahan Gambut Pada Berbagai Landuse. AGRIC, 29(2), pp. 103–112.
- Zabowski, D., & Sletten, R. S. 1991. Carbon Dioxide Degassing Effects on the pH of Spodosol Soil Solutions. Soil Science Society of America Journal, 55(5), pp. 1456–1461.
- Zainuddin, R., Yusuf N, M., Usnawiyah, U., Ismadi, I., & Nazaruddin, M. 2022. Uji Adaptasi Morfo-Fisiologis Beberapa Varietas Kedelai (*Glycine max* L.) Akibat Perlakuan Tingkat Naungan. Jurnal Ilmiah Mahasiswa Agroekoteknologi, 1(2), pp. 28-33.