

DAFTAR PUSTAKA

- Adisti, H.Y., dan Vauzia. 2025. Literature review: respon morfologi daun tumbuhan terhadap faktor lingkungan. *Symbiotic: Journal of Biological Education and Science*, 6(1): 23-60.
- Ali, H.B. 2017. Seasonal population abundance of the chrysanthemum aphids (Homoptera, Aphididae) in the middle of Iraq with pictorial key to species. *Bulletin of The Iraq Natural History Museum*, 14(4): 315-328.
- Aroniadou-Anderjaska, V., Figueiredo, T.H., Furtado M.D.A., Pidoplichko V.I, and Braga M.F.M. Mechanisms of organophosphate toxicity and the role of acetylcholinesterase inhibition. *Toxics*, 11(10): 866.
- Bashan, Y., Huang, P., Kloepper, J. W., and De-Bashan, L. 2016. A proposal for avoiding fresh-weight measurements when reporting the effect of plant growth-promoting (rhizo)bacteria on growth promotion of plants. *Biology and Fertility of Soils*, 53(1): 1-2.
- Beck, C.B. 2010. *An Introduction to Plant Structure and Development Plant Anatomy for the Twenty-First Century Second Edition*. Cambridge University Press, New York.
- Boonupara, T., Udomkun, P., Khan, E., and Kajitvichyanukul, P. 2023. Airborne pesticides from agricultural practices: a critical review of pathways, influencing factor, and human health implications. *Toxics*, 11(10): 858.
- BPS, 2024. *Produksi Tanaman Florikultura (Hias), 2021-2023*. URL: [Produksi Tanaman Florikultura \(Hias\) - Tabel Statistik - Badan Pusat Statistik Indonesia](#). Dilihat pada 23 Maret 2025.
- Brown, W.W., and Ormrod, D.P. 1980. Response of the chrysanthemum to soil heating. *Scientific Horticulturae*, 13(1): 67-75.
- Burrows, G.E., Boag, T.S., and Stewart, W.P. 1992. Changes in leaf, stem, and root anatomy of Chrysanthemum cv. Lilian Hoek following paclobutrazol application. *Journal Plant Growth Regulation*, 11(4): 189-194.
- Cao, K. 2000. Leaf anatomy and chlorophyll content of 12 woody species in contrasting light conditions in a Bornean heath forest. *Canadian Journal of Botany*, 78(10): 1245-1253.
- Chen, H., Zhao, J., Jiang, J., Zhao, Z., Guan, Z., Chen, S., Chen, F., Fang, W., and Zhao, S. 2021. Effects of inorganic, organic and bio-organic fertilizer on growth, rhizosphere soil microflora and soil function sustainability in chrysanthemum monoculture. *Agriculture*, 11(12): 1214.
- Chourday, D.K., Prakash, A., and Johri, B.N. 2008. Induced systemic resistance (ISR) in plants: mechanism of action. *Indian Journal Microbiology*, 11(47): 287-297.
- Dalaila, I., Kusrinah, dan Lianah. 2019. Morfologi dan anatomi *Chrysanthemum morifolium* Ramat. var. Puspita Nusantara dan var. tirta ayuni serta *Chrysanthemum indicum* L.var. mustika kaniya. *Al-Hayat: Journal of Biology and Applied Biology*, 2(2): 53-58.
- Damanik, R.N., Armita, D., dan Koesriharti. 2019. Pengaruh kerapatan naungan dan dosis pupuk nitrogen pada pertumbuhan hasil dan kandungan antosianin pada bayam merah (*Amaranthus tricolor* L.). *Jurnal Produksi Tanaman*, 7(8): 1521-1529.
- Das, D., Riamei, M., Paul, P., Singh, N., Ingti, B., Sarkar, R.D., Rose, R., Sharma, P.L., and Paul. 2025. Understanding the role of soil microorganisms in

- alleviating hydric and edaphic stress towards sustainable agriculture. *Discover Soil*, 2(47).
- Dixit, S., Panday, A.K., and Bajpay, A. 2021. Effect of bio-fertilizers on foliage and floral traits of *Chrysanthemum* cv Litle Pink. *International Journal of Agricultural Sciences*, 17(2): 162-166.
- Doublet, J., Mamy, L., and Barriuso, E. 2009. Delayed degradation in soil of foliar herbicides glyphosate and sulcotrione previously absorbed by plants: Consequences on herbicide fate and risk assessment. *Chemosphere*, 77(4): 582-589.
- Fatimah, Putri, E.N.M., Salsbila, S., Rahyuningtyas, N.D., Soelistyo, N.P., Armeni, W.D., Febrianny, P.N., Supriyanto, A., Nimatuzahroh, and Geraldi, A. 2025. Evaluation of biomeFert biofertilizer for growth and yield improvement in *Glycine max* L. Varieties Dega-1. *Agrivita Journal of Agricultural Science*, 47(1): 110-120.
- Ford, K.A., Casida, J.E., Chandran, D., and Wildermuth, M.C. 2010. Neonicotinoid insecticides induce salicylate-associated plant defense responses. *Proceedings of the National Academy of Sciences of the United States of America*, 107(41): 17527-17532.
- GBIF Backbone Taxonomy. URL: <https://doi.org/10.15468/39omei>. Dilihat pada 23 Maret 2025.
- Grigoras, C.D., and Toma, F. 2021. Photoperiodism, an important element for the growth and flowering of chrysanthemums. *Scientific Papers, Series B, Horticulture*. 65(2): 215-221.
- Grover, M., Bodhankar, S., Sharma, A., Sharma, P., Singh, J. and Nain, L. 2021. PGPR mediated alterations in root traits: way toward sustainable crop production. *Frontiers Sustainable Food System*, 4: 618230.
- Hoang, T.K., Wang, Y., Hwang, Y.J., and Lim, J.H. 2020. Analysis of the morphological characteristics and karyomorphology of wild *Chrysanthemum* species in Korea. *Horticulture, Environment, and Biotechnology*.
- Horak, H. 2025. Functional and developmental differences between adaxial and abaxial stomata in amphistomatous leaves. *New Phytologist*.
- Humami, D.W., Sujono, P.A.W., dan Desmawati, I. 2020. Densitas dan morfologi stomata daun *Pterocarpus indicus* di Jalan Arif Rahman Hkim dan Kampus ITS, Surabaya. *Rekayasa*, 13(3): 240-245.
- Indrajati, S.B., Saputro, L.D., dan Yuniar, A.R. 2023. *Panduan teknis Budidaya Krisan Potong*. Pertanian Press, Bogor.
- Julianti, M.A., Darmanti, S., dan Haryanti, S. 2024. Karakteristik stomata dan trikoma lima spesies gulma familia Asteraceae di Waduk Pendidikan Universitas Diponegoro. *Buletin Anatomi dan Fisiologi*, 9(1): 39-47.
- Kaur, M., Vyas, P., Rahi, P., and Sharma, S. 2021. Chlorpyrifos-and carbofuran-tolerant phosphate-solubilising *Arthrobacter oxydans* and *Bacillus flexus* improved growth and phosphorus content in potato in pesticide-amended soils. *Potato Research*.
- Komicho J.D. and Tipayno S.C., 2025. Organophosphate degradation and plant growth-promoting activity of soil bacteria isolated from vegetable farms in Benguet, Philippines. *Journl Pure and Applied Microbiology*, 19(3): 2184-2199.

- Kumral, A.Y., Kumral, N.A., and Gurbuz, O. 2020. Chlorpyrifos and deltamethrin degradation potentials of two *Lactobacillus plantarum* (Orla-Jensen, 1919) (Lactobacillales: Lactobacillaceae) strains. *Turkish Journal of Entomology*, 44(2): 165-176.
- Laia, M., dan Laia, J. 2024. Pengaruh kadar air dan porositas tanah terhadap efisiensi pemberian pupuk pada tanaman jagung. *PENARIK: Jurnal Ilmu Pertanian dan Perikanan*, 1(2): 7-13.
- Lailaty, I.Q., and Nugroho, L.H. 2021. Vegetative anatomy of three potted *Chrysanthemum* varietas under various paclobutrazol concentrations. *Biodiversitas*, 22(2): 563-570.
- Laishram, B., Devi, O.R., Dutta, R., Senthilkumar, T., Goyal, G., Paliwal, D.K., Panotra, N., and Rasool, A. 2025. Plant-microbe interactions: PGPM as microbial inoculants/biofertilizers for sustaining crop productivity and soil fertility. *Current Research in Microbial Sciences*, 8: 100333.
- Lambers, H. Pons, T.L., and Chapin, F.S. 2008. *Plant Physiological Ecology*. Springer, New York.
- Lestari, E.G. 2006 Hubungan antara kerapatan stomata dengan ketahanan kekeringan pada somaklon padi Gajahmungkur, Towuti, dan IR 64. *Biodiversitas*, 7(1): 44-48.
- Lestari, N.I., and Siswanti, D.U. 2021. Physiological and anatomical responses of red onion (*Allium cepa* L.) to drought stress after biofertilizer application. *Jurnal Biodjati*, 9(2): 359-372.
- Liu, C., Chen, Y., Chen, P., Kuo, C., Chen, K., Chen, C., Su, T., Chen, I., and Chang, Y. 2025. Impact of temperature on growth, photosynthetic efficiency, yield, and functional components of bud-leaves and flowers in edible chrysanthemum (*Chrysanthemum morifolium* Ramat.). *Horticulturae*, 11(5).
- Liu, C., Zhao, C., Wang, L., Du, X., Zhu, L., Wang, J, Kim, Y.M., and Wang, J. 2023. Biodegradation mechanism of chlorpyrifos by *Bacillus* sp. H27: Degradation enzymes, products, pathways and whole genome sequencing analysis. *Environmental Research*, 239(1): 117315.
- Liu, Y., Li, S., Ni, Z., Qu, M., Zhong, D., Ye, C., and Tang, F. 2016. Pesticides in persimmons, jujubes and soil from China: Residue levels, risk assessment and relationship between fruits and soils. *Science of The Total Environment*, 542: 620-628.
- Lobatto, V.L., Argüello, C.A., and Buján, E.I. 2019. Photolysis of chlorpyrifos-methyl, chlorpyrifos-methyl oxon, and 3,5,6-trichloro-2-pyridinol. *Journal of Physical Organic Chemistry*, 32(8): 1-8.
- Ludang, Y., Supriyati, W., dan Alpian. 2022. Distribusi biomassa dan karbon tingkat semai jenis manggis, lengkung, sengon dan jelutung. *Jurnal Hutan Tropika*, 17(1): 61-67.
- Lysenko, E.A., Kozuleva, M.A., Klaus, A.A., Pshybytko, N.L., and Kusnetsov, V.V. 2023. Lower air humidity reduced both the plant growth and activities of photosystems I and II under prolonged heat stress. *Plant Physiology and Biochemistry*, 194: 246-262.
- Maneghetti, L.A.M., Silva, E.M.B., Silva, T.J.A.D., Duarte, T.F.D., Pinheiro, E.A.R., and Oliveira, J.R.D. 2023. Biomass and water use efficiency of chrysanthemum under organic, mineral, and organomineral fertilization.

Brazilian Journal of Agricultural and Environmental Engineering, 27(7): 505- 511.

- Mardiana, L., and Siswanti, D.U. 2025. Biofertilizers improve growth rate, nitrate reductase activity, and productivity of shallot (*Allium cepa* L.) under drought stress. *Biogenesis Jurnal Ilmiah Biologi*, 12(2): 28-39.
- Maulidan, K., dan Putra, B.P. 2024. Pentingnya unsur hara fosfor untuk pertumbuhan tanaman padi. *Journal of Biopesticide and Agriculture Technology*, 1(2): 47-54.
- Miliou, A., Petrus-vancea, A., Adrian, T., and Borza, I. 2009. Morpho-anatomical changes of plant vegetative organs of olive (*Olea europaea*) tree culture treated with pesticides. *TOM*, 14(2): 85-90.
- Mondal, S., Karmakar, S., Panda, D., Pamanik, K., Bose, B., and Singhal, R.K. 2023. Crucial plant processes under heat stress and tolerance through heat shock proteins. *Plant Stress*, 10: 100227.
- Müller, I., Schmid, B., and Weiner, J. 2000. The effect of nutrient availability on biomass allocation patterns in 27 species of herbaceous plants. *Perspectives in Plant Ecology, Evolution and Systematics*, 3(2), 0–127.
- Mutaqin, A.Z., Budiono, R., Setiawati, T., Nurzaman, M., dan Fauzia, R.S. 2016. Studi anatomi stomata daun mangga (*Mangifera indica*) berdasarkan perbedaan lingkungan. *Jurnal Biodjati*, 1(1): 13-18.
- Nicolai, J., Aires, E.S., Junior, F., Marques, I., Putti, F.F., Ono, E.O., and Rodrigues, T.M. 2023. Leaves from two Solanaceae species with different leaf morphological traits respond differently to imidacloprid foliar spray. *Research Square*.
- Nining, E., Nazli, R.S.S., Mas'ud, Z.A., Machfud, dan Sobir. 2019. Profil residu insektisida organofosfat di kawasan produksi bawang merah (*Allium ascalonicum* L.) kabupaten brebes jawa tengah. *Journal of Natural Resources and Environmental Management*, 9(4) : 999-1009.
- Octavia, A.M.N., Wisudanti, D.D., and Wulandari, P. 2023. The correlation between organophosphate pesticide exposure and incidence of prostate cancer: a systematic review. *Indonesian Journal of Cancer*, 18(4): 501-506.
- Ore, O.T., Adeola, A.O., Bayode, A.A., Adedipe, D.T., and Namngongo, P.N. 2023. Organophosphate pesticide residues in environmental and biological matrices: Occurrence, distribution and potential remedial approaches. *Environmental Chemistry and Ecotoxicology*, 5: 9-23.
- Pane, R.D.P., Ginting, E.N., dan Hidayat, F. 2022. Mikroba pearut fosfat dan potensi dalam meningkatkan pertumbuhan tanaman. *Warta PPKS*, 27(1): 50-59.
- Pandey, B., Bhattacharya, C., and Singh, S. 2013. Effect of pesticides and insecticides on biofertilizer. *International Journal of Advanced Biological Research*. 3(4): 563-566.
- Parasa, R., Raman, D.N.S., and Abhishek, A. 2018. Leaf and seed esterases of Agathi (*Sesbania grandiflora* L.); Purification and characterization. *Biocatalysis and Agricultural Biotechnology*, 16: 308-313.
- Pei, B., Liu, T., Xue, Z., Cao, J., Zhang, Y., Yu, M., Liu, E., Xing, J., Wang, F., Ren, X., and Zhang, Z. 2025. Effects of biofertilizer on yield and quality of crops and properties of soil under field conditions in China: a meta-analysis. *Agriculture*, 15(10).



- Poniman, Ardiwinata, A.N., Muanisah, U., dan Wahyuni, S. 2021. Remediasi residu insektisida klorpirifos pada pertanaman cabai merah (*Capsicum annum* L.) di tanah tekstur ringan dan tekstur berat. *Jurnal Litbang Provinsi Jawa Tengah*, 19(1): 1-11.
- Ramzan, M., Akram, M., Rahi, A.A., Mubashir, M., Ali, L., Fahad, S., Krucky, J., Obaid, S.A., and Ansari, M.J. 2022. Physio-biochemical, anatomical and functional responses of *Helianthus annuus* L. and *Brassica juncea* (Linn) to cypermethrin pesticide exposure. *Journal of King Saud University – Science*, 34: 102210.
- Rani, M.S., Lakshmi, K., Devi, P.S., Madhuri, R.J., Aruna, S., Jyothi, K., Narasimha, G., and Venkateswarlu, K. 2008. Isolation and characterization of a chlorpyrifos-degrading bacterium from agricultural soil and its growth response. *African Journal Microbiology*, 2: 26-31.
- Ratnawati, Sjam, S., Rosmana, A., tresnaputra, U.S., and Jaya, K. 2020. Impact of pestisida application in high frequency on stomatal number at local shallot in Palu valley. *IOP Conf. Series: Earth and Environmental Science*, 486: 1-7.
- Redza-Dutordoir, M., and Averill-Bates, D.A. 2016. Activation of apoptosis signalling pathways by reactive oxygen species. *Biochimica et Biophysica Acta – Molecular Cell Research*, 1863(12): 2977-2992.
- Ribeiro, V.H.V., Coutinho, I.A.C., Cabral, B.T.C.M., Santos, J.B.D., and Francino, E.A.F.D.M.T. 2020. Morphoanatomical injuries in *Pistia stratiotes* L. (Araceae) as a result of exposure to clomazone in water. *Annals of the Brazilian Academy of Sciences*, 92 (1): 1-15.
- Riesty, O.S., and Siswanti, D.U. 2021. Effect of biofertilizer on growth and metaxylem diameter of *Amaranthus tricolor* L. in salinity stress condition. *Biogenesis Jurnal Ilmiah Biologi*, 9(2): 178-188.
- Rindyastuti, R., dan Hapsari, L. 2017. Adaptasi ekofisiologi terhadap iklim tropis kering: studi anatomi daun sepuluh jenis tumbuhan berkayu. *Jurnal Biologi Indonesia*, 13(1): 1-14.
- Ruan, J., Li, G., Lu, X., Wang, D., Yang, Z., Wang, S., and Ji, X. 2023. Monitoring residue levels of multiple types pesticides in chrysanthemum (*Chrysanthemum morifolium* Ramat.) and its residue pattern in diet consumption. *Journal of Food Composition and Analysis*, 121: 105403.
- Rulianto, V.R., Srijono, dan Husein, S. 2010. Perkembangan karstifikasi daerah Nglipar - Karangmojo, provinsi Daerah Istimewa Yogyakarta dalam perspektif pengembangan wilayah. *Proceedings PIT IAGI Lombok 2010 The 39th IAGI Annual Convention and Exhibition*.
- Saiya, A., Gumolung, D., and Caroles, J.D.S. 2018. Analisis residu pestisida dalam tomat, cabai rawit, dan wortel dari beberapa pasar tradisional di Sulawesi Utara. *Fullerene Journal of Chemistry*, 3(2): 63-69.
- Saiya, A., Gumolung, D., dan Howan, D.H.O. 2017. Analisis residu klorpirifos dalam sayuran kubis dengan metode HPLC di beberapa pasar tradisional di Sulawesi Utara. *Ekstrakta*, 18(2): 77-85.
- Sami, S.A., Akter, B., Nirob, M.N.H., Jahan, I., Lokman, M., Khatun, M.H., Hossain, M.K., and Barmon, J. 2025. A comprehensive review on environmental dynamics of chlorpyrifos: Fate, toxicity, remediation, and regulatory aspects. *Ecotoxicology and Environmental Safety*, 308: 119484.



- Sanchez-Santed, F., Colomia, M.T., and Hernandez, E.H. 2016. Organophosphate pesticide exposure and neurodegeneration. *Cortex*, 74: 417-426.
- Sapalina, F., Ginting, E.V., dan Hidayat, F. 2022. Bakteri penambat nitrogen sebagai agen biofertilizer. *Warta PPKS*, 27(1): 41-50.
- Saputri, A.A., Rahayu, Widijanto, H., Cahyani, V.R., and Rosariastuti, R. 2025. Effect of biological agents on chlorpyrifos content in soil and bulbs, soil fertility, and shallot (*Allium ascalonicum* L.) yield. *Journal of Defraded and Mining Land Management*, 12(5): 2502-2458.
- Scherer, T., Franzen, D., and Cihacek, L. 2013. *Soil, water and plant characteristics important to irrigation*. North Dakota State University, North Dakota.
- Setiyo, Y., Sumiyati, dan Yuliasih, N.P. 2019. Analisis iklim mikro di greenhouse dengan atap tipe arch untuk budidaya bunga krisan potong. *Jurnal Ilmiah Teknologi Pertanian Agrotechno*, 4(1): 24-34.
- Shakir, S.K., Irfan, S., Akhtar, B., Rehman, S.U., Daud, M.K., Taimur, N., and Azizullah, A. 2018. Pesticide-induced oxidative stress and antioxidant responses in tomato (*Solanum lycopersicum*) seedlings. *Ecotoxicology*, 27: 919-935.
- Sharma, A., Kumar, V., Kumar, R., Shahzad, B., Thukral, A.K., and Bhardwaj, R. 2018. Brassinosteroid-mediated pesticide detoxification in plants: A mini-review. *Cogent Food & Agriculture*, 4(1).
- Siegfried, B.D., and Scharf, M.E. 2001. *Mechanisms of Organophosphate Resistance in Insects*. In: Ishaaya, I. (eds) *Biochemical Sites of Insecticide Action and Resistance*. Springer, Berlin, Heidelberg.
- Singh, J., Yadava, L.P., and Singh, R.N. 2024. Influence of foliar application of salicylic acid on growth and yield of chia (*Salvia hispanica*). *International Journal of Environment, Agriculture and Biotechnology*, 9(1): 140-145.
- Siswanti, D.U., Daryono, B.S., Petrus, H.T.B.M., and Suyono E. 2023. Bioremediation of Mercury- Polluted Water in Free Water Surface-Constructed Wetland System by *Euglena* sp. and *Echinodorus palifolius* (Nees & Mart.) J.F. Macbr. *Journal of Tropical Biodiversity and Biotechnology*, 8(3): 88143.
- Siswanti, D.U., and Riesty, O.S. 2021. Effects of biofertilizer and manure application on growth rate and chlorophyll content of spinach (*Amaranthus tricolor* L.) under salinity stress condition. *BIO Web of Conferences*, 33: 1-10.
- Siswanti, D.U., and Umah, N. 2020. Effect of biofertilizer and salinity on growth and chlorophyll content of *Amaranthus tricolor* L. *IOP Conference Series: Earth and Environmental Science*, 662: 1-10.
- Smith Edu. Smith Chrysanthemum Hybrid Alums. Tersedia di URL: <https://www.smith.edu/garden/pastexhibits/alummumexhibit/mumalumsforms.html>. Dilihat pada 15 Januari 2016.
- Sofiyanti, N., Wahudi, O.I., and Iriani, D. 2021. Stomatal characteristics of 5 *Citrus* L. Species (Rutaceae) From Pekanbaru, Riau Province. *Jurnal Biologi Tropis*, 22(1): 173-178.
- Tanveer, S., Ilyas, N., Akhtar, N., Akhtar, N., Bostan, N., Hasnain, Z., Niaz, A., Zengin, G., Gafur, A., and Fitriatin, B.N. 2024. Unlocking the interaction of organophosphorus pesticide residues with ecosystem: Toxicity and bioremediation. *Environmental Research*. 248: 118291.

- Terry, A.V. 2012. Functional consequences of repeated organophosphate exposure: Potential non-cholinergic mechanisms. *Pharmacology & Therapeutics*, 134(3): 355-365.
- Toscano, S., Ferrante, A., Tribulato, A., and Romano, D. 2018. Leaf physiological and anatomical responses of Lantana and Ligustrum species under different water availability. *Plant Physiology and Biochemistry*, 127: 380-392.
- Tudi, M., Ruan, H.D., Wang, L., Lyu, J., Sadler, R., Connell, D., Chu, C., and Phung, D.T. 2021. Agriculture development, pesticide application and its impact on the environment. *International Journal of Environmental Research and Public Health*, 18(3): 1112.
- Tulva, I., Koolmeister, K., and Horak, H. 2024. Low relative air humidity and increased stomatal density independently hamper growth in young Arabidopsis. *The Plant Journal*, 19(6): 2718-2736.
- Urry, L.A., Cain, M.L., Minorsky, P.V., Wasserman, S.A., and Orr, R.B. 2020. *Campbell Biology Twelfth Edition*. Pearson, New York.
- Vermeer, J.G., and Berendse, F. 1983. The relationship between nutrient availability, shoot biomass and species richness in grassland and wetland communities. *Vegetatio*, 53(2): 121-126.
- Wani, M.S., Tantray, Y.R., Malik, N.A., Dar, M.I., and Ahmad, T. 2021. Microbial Bioremediation of Pesticides/Herbicides in Soil. In book: *Microbiota and Biofertilizers*, 2: 21-60.
- Wang, L., Qin, Z., Li, X., Yang, J., and Min, M. 2022. Persistence behavior of chlorpyrifos and biological toxicity mechanism to cucumbers under greenhouse conditions. *Ecotoxicology and Environmental Safety*, 242: 113894.
- Wang, X., Wang, Z., Yu, J., Zhang, X., Luo, F., Chen, Z., and Zhou, L. 2023. Method validation for multi-pesticide residue determination in chrysanthemum. *Molecules*, 28(3): 1291.
- Wang, Y., Liesche, J., Crivellaro, A., Doležal, J., Altman, J., Chiatante, D., Dimitrova, A., Fan, Z., Fu, P., Forest, F., and Gričar, J., 2025. Physical constraints and environmental factors shape phloem anatomical traits in woody angiosperm species. *New Phytologist*, 248(5): 2316-2330.
- Warsiti, Kusdiono, Risman, dan Ristiawan, A. 2020. Kajian karakteristik nilai cbr campuran tanah merah dengan kapur. *Bangun Rekaprima*, 6(1): 58-68.
- Widayana, I.G.N.S., Tika, I.W., dan Wijaya, I.M.A.S. 2019. Analisis kebutuhan air dan finansial tanaman krisan (*Chrysanthemum* sp.) dengan metode guludan dan pot. *Jurnal Beta (Biosistem dan Teknik Pertanian)*, 7(1): 193-203.
- Woelke, J.B., Bouw, M., Cusumano, A., and Messelink, G.J. 2020. *Lygus rugulipennis* on chrysanthemum: supplemental prey effects and an evaluation of trap plants. *Journal of Applied Entomology*, 147(2): 157-166.
- Wu, S., and Zhao, B. 2017. Using Clear Nail Polish to Make Arabidopsis Epidermal Impressions for Measuring the Change of Stomatal Aperture Size in Immune Response. In *Methods in Molecular Biology* (Vol. 1578, Issue February, pp. 5-8).
- Xia, X.J., Huang, Y.Y., Wang, L., Huang, L.F., Yu, Y.L., Zhou, Y.H., and Yu, J.Q. 2006. Pesticides-induced depression of photosynthesis was alleviated by 24-epibrassinolide pretreatment in *Cucumis sativus* L. *Pesticide Biochemistry and Physiology*, 86(1): 42-48.



- Yunita, E., Dasumiati, Widyastuti, A.M., dan Irda, I. 2023. Akumulasi logam timbal (pb) pada tanaman bayam (*Amaranthus tricolor* l.) dengan aplikasi pupuk mikoriza. *Al-Kaunyah: Jurnal Biologi*, 16(2): 444-445.
- Zhang, B., Lv, F., and Yang, J. 2024. Pesticide toxicity, removal and detoxification in plants: a review. *Agronomy*, 14 (6): 1260.
- Zhang, H., Zhao, Y., and Zhu, J. 2020. Thriving under stress: how plants balance growth and the stress response. *Developmental Cell*, 55(5): 529-543.
- Zhao, L., Wang, F., and Zhao, J. 2014. Identification and functional characteristics of chlorpyrifos-degrading and plant growth promoting bacterium *Acinetobacter calcoaceticus*. *Journal of Basic Microbiology*, 54(5): 457–463.
- Zilfa, Yusuf, Y., Putri, M.A., dan Heysha F. 2024. Pengukuran kadar residu pestisida klorpirifos dan pengaruh pencucian pada cabai, buncis, dan sawi putih serta nilai risiko kesehatan pada manusia. *Jurnal Zarah*, 12(1): 7-15.
- Zulfahmi, Siregar, R.A., dan Siregar, E.J. 2025. Pemanfaatan pupuk biofertilizer dalam sistem pertanian berkelanjutan dan dampaknya pada pertumbuhan dan hasil tanaman kedelai (*Glycine max* L.). *Jurnal Pendidikan Tambusai*, 9(1): 6336-6345.