

DAFTAR PUSTAKA

- Arengga, D. 2025. Growth and Production Response Of Tobacco (*Nicotiana Tabacum* L.) Na-Oogst To The Administration Of Amino Acid POC. Politeknik Negeri Jember.
- Badan Standardisasi Instrumen Pertanian. 2024. *Pedoman Standar Perbenihan Tembakau*. Malang: Badan Standardisasi Instrumen Pertanian.
- Bailey, A., D. Reed, dan B. Pearce. 2020. *Topping and Sucker Control Tobacco*. University of Kentucky.
- Colla, G., L. Hoagland, M. Ruzzi, M. Cardarelli, P. Bonini, R. Canaguier, dan Y. Rouphael. 2017. Biostimulant action of protein hydrolysates: unraveling their effects on plant physiology and microbiome. *Frontiers in Plant Science*. 8(December):1–14.
- Djufry, F. 2021. Pembuangan Bunga (Topping) Dan Wiwilan Tembakau. Bogor. 2021.
- El-Beltagi, H. S., M. E. Abuarab, M. A. M. Fahmy, S. M. Abdelaziz, S. G. Abdel-Hakim, E. A. Abdeldaym, dan G. A. Tawfic. 2023. Impact of biostimulants based amino acids and irrigation frequency on agro-physiological characteristics and productivity of broccoli plants. *Notulae Botanicae Horti Agrobotanici Cluj-Napoca*. 51(4):1–21.
- Fatiha, C. Z., R. Suntari, R. Eka, dan S. Putri. 2024. Evaluasi efektivitas berbagai pupuk npk terhadap pertumbuhan tanaman tembakau (*nicotiana tabacum*). *Jurnal Citra Widya Edukasi*. 16(3):201–208.
- Fernandez, V. dan T. Eichert. 2009. Uptake of hydrophilic solutes through plant leaves: current state of knowledge and perspectives of foliar fertilization. *Critical Reviews in Plant Sciences*. 28(1–2):36–68.
- Food and Agriculture Organization. 2026. Tobacco
- Ginting, A. R., S. Sitorus, dan W. Astuti. 2017. Determination of amino acids essential's content (methionine, leucine, isoleucine and lysine) on turtle eggs and duck eggs. *Jurnal Kimia Mulawarman*. 14:91–99.
- Gui, Z.-Q., X.-L. Yuan, J. Yang, Y.-M. Du, dan P. Zhang. 2024. An updated review on chemical constituents from *nicotiana tabacum* l.: chemical diversity and pharmacological properties. *Industrial Crops and Products*. 214:118497.
- Halpern, M., A. Bar-Tal, M. Ofek, D. Minz, T. Muller, dan U. Yermiyahu. 2015. *The Use of Biostimulants for Enhancing Nutrient Uptake*. *Advances in*

Agronomy.

- Hardigaluh, E. A., Radian, dan F. Rianto. 2023. Pengaruh pengaturan pengairan dan pemberian asam amino terhadap pertumbuhan dan hasil tembakau. *Partner*. 28(1):83–94.
- Henderson, B. C. R., J. M. Sanderson, dan A. Fowles. 2025. A review of the foliar application of individual amino acids as biostimulants in plants. *Discover Agriculture*. 3(1)
- Hidayat, P. Dewanti, dan K. Hariyono. 2022. Toleransi tanaman tembakau (*nicotiana tabacum* l .) terhadap cekaman genangan pada berbagai aplikasi pupuk kalsium. *Agron Indonesia*. 50(2):226–233.
- Kuo, A. J., P. Cheung, K. Chen, B. M. Zee, M. Kioi, J. Laurant, Y. Xi, B. H. Park, X. Shi, B. A. Garcia, W. Li, dan O. Gozani. 2011. NSD2 links dimethylation of histone h3 at lysine 36 to oncogenic programming. *Molecular Cell*. 44(4):609–620.
- Kurniawan, B. A., S. Fajriani, A. Jurusan, B. Pertanian, dan F. Pertanian. 2014. Pengaruh jumlah pemberian air terhadap respon pertumbuhan dan hasil tanaman tembakau (*nicotiana tabacum* l.). *Jurnal Produksi Tanaman*. 2:59–64.
- Kusuma, M. D. 2023. Uji Macam Kandungan Dan Total Kadar Asam Amino Berbahan Ikan Lemuru (*Sardinella Longiceps*). Politeknik Negeri Jember.
- Kusumawati, D. A., S. Humaida, U. Fisdiana, dan S. Safitri. 2022. Pengaruh pemberian kompos limbah batang tembakau terhadap pertumbuhan dan produksi tanaman tembakau (*nicotiana tabacum* l.,) kasturi. *Agropross : National Conference Proceedings of Agriculture*. 65–78.
- Li, T., X. Chen, S. Cao, Z. Liu, L. Tian, Z. Gao, M. Sun, H. Zong, D. Wang, M. A. El-Sheikh, M. Yang, dan P. Liu. 2024. Integrated physiological and transcriptome analyses of the effects of water-soluble amino acid fertilizer on plant growth. *Journal of King Saud University - Science*. 36(11):103504.
- Lucini, L., Y. Rouphael, M. Cardarelli, R. Canaguier, P. Kumar, dan G. Colla. 2015. The effect of a plant-derived biostimulant on metabolic profiling and crop performance of lettuce grown under saline conditions. *Scientia Horticulturae*. 182:124–133.
- Lutfiana, S., A. S. Perdana, dan M. Habibullah. 2022. Benefit test of liquid organic fertilizer application technique and plant spacing on growth and yield of dry edamame soybean seeds. *JAGROS Journal of Agrotechnonogy and Science*. 7(1):10–15.

- Mallikarjuna, P. B., D. S. Guru, dan C. Shadaksharaiah. 2021. *Ripeness Evaluation of Tobacco Leaves for Automatic Harvesting: An Approach Based on Combination of Filters and Color Models*. Dalam *Data Science: Theory, Algorithms, and Applications*. Editor G. K. Verma, B. Soni, S. Bourennane, dan A. C. B. Ramos. Singapore: Springer Singapore.
- Maulana, A. J. Y., M. M. Fakuroji, S. D. Angga, N. I. Wardah, W. Ulfa, dan J. Jumiatun. 2024. Respon pertumbuhan tanaman edamame terhadap aplikasi biofertilizer berbasis asam amino ikan lemuru dan pgpr akar edamame. *Tabela Jurnal Pertanian Berkelanjutan*. 2(2):44–52.
- Mohammadipour, N. dan M. K. Souiri. 2019. Beneficial effects of glycine on growth and leaf nutrient concentrations of coriander (*coriandrum sativum*) plants. *Journal of Plant Nutrition*. 42(14):1637–1644.
- Papenfus, H. dan N. Billenkamp. 2019. CORESTA guide n ° 7 - a scale for coding growth stages in tobacco crops. *Coresta*. (December):17.
- Polo, J., S. Atero-calvo, E. Navarro-leo, dan J. M. Ruiz. 2025. Physiological efficacy of the amino acid-based biostimulants pepton 85 / 16 , pepton origin , and nutriterra in lettuce grown under optimal and reduced synthetic nitrogen fertilization. (September):1–14.
- Popko, M., I. Michalak, R. Wilk, M. Gramza, K. Chojnacka, dan H. Górecki. 2018. Effect of the new plant growth biostimulants based on amino acids on yield and grain quality of winter wheat. *Molecules*. 23(2):470.
- Qadri, S. N., M. Yamin, dan D. Darwis. 2023. Pertumbuhan bibit tembakau (*nicotiana tabacum* L.) beberapa varietas lokal dan unggul dengan media polibag. *Jurnal Galung Tropika*. 12(3):400–407.
- Rafi, F. Al, D. Wulanjari, S. Barbara, P. Sembiring, P. S. I. Pertanian-perkebunan, U. Jember, J. T. Indonesia, P. Korespondensi, dan T. Tembakau. 2025. *Technologica. Technologica*. 4(1):53–62.
- Reynolds, B., B. McGarvey, dan J. Todd. 2022. Agronomics of high density tobacco (*nicotiana tabacum*) production for protein and chemicals in canada. *Biocatalysis and Agricultural Biotechnology*. 42:102357.
- Rouphael, Y. dan G. Colla. 2020. Editorial: biostimulants in agriculture. *Frontiers in Plant Science*. 11(February):1–7.
- Santi, C., A. Zamboni, Z. Varanini, dan T. Pandolfini. 2017. Growth stimulatory effects and genome-wide transcriptional changes produced by protein hydrolysates in maize seedlings. *Frontiers in Plant Science*. 8

- Sestili, F., Y. Rouphael, M. Cardarelli, A. Pucci, P. Bonini, R. Canaguier, dan G. Colla. 2018. Protein hydrolysate stimulates growth in tomato coupled with n-dependent gene expression involved in n assimilation. *Frontiers in Plant Science*. 9(August):1–11.
- Souza-Moreira, T. M., C. Navarrete, X. Chen, C. F. Zanelli, S. R. Valentini, M. Furlan, J. Nielsen, dan A. Krivoruchko. 2018. Screening of 2a peptides for polycistronic gene expression in yeast. *FEMS Yeast Research*. 18(5)
- Syukur, A. 2021. Asam Amino Dan Manfaatnya Bagi Tanaman. 02-02-2026
- Tahapary, P. R., H. Rehatta, dan H. Kesaulya. 2020. Pengaruh aplikasi biostimulant terhadap pertumbuhan dan produksi tembakau. *Jurnal Budidaya Pertanian*. 16(2):109–117.
- Talaat, I. M., H. I. Khattab, dan A. M. Ahmed. 2014. Changes in growth, hormones levels and essential oil content of ammi visnaga l. plants treated with some bioregulators. *Saudi Journal of Biological Sciences*. 21(4):355–365.
- Talaat, R. M., A. M. Elmaghraby, S. S. Barakat, dan M. EL-Shahat. 2014. Alterations in immune cell subsets and their cytokine secretion profile in childhood idiopathic thrombocytopenic purpura (itp). *Clinical and Experimental Immunology*. 176(2):291–300.
- Tarigan, R., J. Ginting, dan Meiriani. 2021. Respons pertumbuhan dan produksi tembakau deli (nicotiana tabacum l.) terhadap pemberian kompos eceng gondok dan pupuk n. *Agropos*. 32(3):167–186.
- Teixeira, W. F., E. B. Fagan, L. H. Soares, R. C. Umburanas, K. Reichardt, dan D. D. Neto. 2017. Foliar and seed application of amino acids affects the antioxidant metabolism of the soybean crop. *Frontiers in Plant Science*. 8(March):1–14.
- Tian, F., L. Zhang, L. Niu, X. Fan, Y. Han, Y. Liu, J. Qian, S. Huang, X. Ou, dan Q. Li. 2025. Non-targeted metabolomics reveals tobacco metabolites associated with roasted tobacco quality under organic substitution. *Agronomy*. 15(2)
- Tirtosastro, S. dan W. Musholaeni. 2015. Penanganan panen dan pasca panen tembakau di kabupaten bojonegoro. *Buana Sains*. 15(2):155–164.
- Tong, Z., M. Xu, Q. Zhang, F. Lin, D. Fang, X. Chen, T. Zhu, Y. Liu, H. Xu, dan B. Xiao. 2023. Construction of a high-density genetic map and dissection of genetic architecture of six agronomic traits in tobacco (nicotiana tabacum l .). *Frontiers in Plant Sciencen*. 15(February):1–12.

- Youssef, S. M., R. S. El-Serafy, K. Z. Ghanem, A. Elhakem, dan A. A. Abdel Aal. 2022. Foliar spray or soil drench: microalgae application impacts on soil microbiology, morpho-physiological and biochemical responses, oil and fatty acid profiles of chia plants under alkaline stress. *Biology*. 11(12)
- Zhang, K., C. Wang, D. Chen, X. Zhang, H. Sun, J. Long, dan H. Li. 2025. Quantitative trait loci mapping for agronomic and leaf chemistry traits using high density linkage map in flue - cured tobacco (*nicotiana tabacum* l .). *Euphytica*. 221(1):1–17.