

DAFTAR PUSTAKA

- Amna, S., H. Alharby, K. H. Hakeem, and M. I. Qureshi. 2019. Weed control through herbicide-loaded nanoparticles. *Nanomater Plant Potential*: 507 – 527.
- Apriyadi, R., dan T. Lestari. 2021. Pengaruh teknik pengendalian gulma dan frekuensi aplikasi insektisida dan terhadap kelimpahan populasi dan intensitas serangan hama utama pada tanaman lada (*Piper nigrum* L.). *Agrosaintek*. 5(1): 64-71.
- Assefa, Y., K. Roozeboom, C. Thompson, A. Schlegel, L. Stone, and J. Lingenfelter. 2014. *Corn and Grain Sorghum Comparison: All Things Considered*. Academic Press, Kidlington.
- Astuti, H. S., S. Darmanti, dan S. Haryanti. 2017. Pengaruh alelokimia ekstrak gulma *Pilea microphylla* terhadap kandungan superoksida dan perkecambahan sawi hijau (*Brassica rapa* var. *Parachinensis*). *Buletin Anatomi dan Fisiologi*. 2(1): 86 – 93.
- BPS. 2025. Luas Panen, Produksi, dan Produktivitas Jagung Menurut Provinsi. <<https://www.bps.go.id/id/statistics-table/2/MjIwNCMy/luas-panen--produksi--dan-produktivitas-jagung-menurut-provinsi.html>> Diakses pada 15 Februari 2025.
- Bucher, S. F., K. Auerswald, C. Wenzel, S. I. Higgins, J. G. Jorge, and C. Römermann. 2017. Stomatal traits relate to habitat preferences of herbaceous species in a temperate climate. *Flora*. 229: 107 – 115.
- Buckman, H. O., dan N. C. Brady. 1987. *Ilmu Tanah*. Terjemahan Soegiman. Bhratara Karya Aksara, Jakarta.
- Campos, F. M., J. A. Couto, A. R. Figueiredo, I. V. Tóth, A. O. S. S. Rangel, T. A. Hogg. 2009. Cell membrane damage induced by phenolic acids on wine lactic acid bacteria. *International Journal of Food Microbiology*. 135(2): 144-151. DOI: <https://doi.org/10.1016/j.ijfoodmicro.2009.07.031>
- Chauhan, B.S., H. H. Ali, and S. Florentine. 2019. Seed germination of *Bidens pilosa* and its implications for weed management. *Scientific Reports*. 9(1): 1-8.
- Chen, L., X. Guan, Q. Wang, Q. Yang, W. Zhang, and S. Wang. 2020. Effects of phenolic acids on soil nitrogen mineralization over successive rotations in Chinese fir plantations. *Jurnal of Forestry Research*. 31(1): 303 – 311. DOI: <https://doi.org/10.1007/s11676-018-0842-z>
- Chon, S-U. and C. J. Nelson. 2010. Allelopathy in composite plants: A review. *Agronomy for Sustainable Development*. 30: 349 – 358.
- Chou, C-H. 2006. Chapter 1 Introduction to Allelopathy. *Allelopathy: A Physiological Process with Ecological Implications*. Springer, AA Dordrecht, Netherlands.

- Darmanti, S. 2018. Interaksi alelopati dan senyawa alelokimia: potensinya sebagai bioherbisida. *Buletin Anatomi dan Fisiologi*. 3(2): 181-187.
- Deba, F., T. D. Xuan, M. Yasuda, and S. Tawata. 2007. Herbicidal and fungicidal activities and identification of potential phytotoxins from *Bidens pilosa* L. var. *radiata* Scherff. *Weed Biology and Management*. 7(2): 77 – 83.
- Devi, S. and M. Prasad. 1992. Effect of ferulic acid on growth and hydrolytic enzyme activities of germinating maize seeds. *Journal of Chemical Ecology*. 18:1981 – 1990. DOI: <https://doi.org/10.1007/BF00981921>
- Dias, M., E. Santarém, and R. Nozari. 2017. Herbicide activity of natural compounds from *Baccharis* spp on the germination and seedlings growth of *Lactuca sativa* and *Bidens pilosa*. *Allelopathy Journal*. 42: 21 – 36.
- Dinata, A., S. Sudiarso, dan H. T. Sebayang. 2017. Pengaruh waktu dan metode pengendalian gulma terhadap pertumbuhan dan hasil tanaman jagung (*Zea mays* L.). *Jurnal Produksi Tanaman*. 5(2): 191 – 197.
- Einhellig, F. A. and J. A. Rasmussen. 1979. Effects of three phenolic acids on chlorophyll content and growth of soybean and grain sorghum seedlings. *Journal of Chemical Ecology*. 5: 815 – 824.
- El-Gawad, A. M., I. A. Mashaly, M. E. A. Ziada, and M. R. Deweeb. 2015. Phytotoxicity of three *Plantago* species on germination and seedling growth of hairy heggarticks (*Bidens pilosa* L.). *Egyptian Journal of Basic and Applied Sciences*. 2(4): 303 – 309.
- Fauzi, M. A., T. M. Hasna, D. Setiadi, dan H. A. Adinugraha. 2020. Variasi morfologi empat spesies jati (*Tectona* Sp) di Asia Tenggara: Potensi pemuliaan pohon dan bioteknologinya. *Biota*. 5(2): 115-123.
- Ferreira, P. F., P. C. Zonetti, A. J. P. Albrecht, I. G. Rosset, A. F. M. Silva, L. P. Albrecht, ... et al. 2020. *Conyza sumatrensis* allelopathy effect on *Bidens pilosa* (Asteraceae) seed germination. *Botanical Sciences*. 98(2). Abstract.
- Ferioli, F., E. Giambanelli, V. D'Allesandro, L. F. D'Antuana. 2020. Comparison of two extraction methods (high pressure extraction vs. maceration) for the total and relative amount of hydrophilic and lipophilic organosulfur compounds in garlic cloves and stems. An application to the Italian ecotype “*Aglio Rosso di Sulmona*” (Sulmona Red Garlic). *Food Chemistry*. 312: 1-9.
- Finch, S. and Collier, R. H. 2000. Host-plant selection by insects – a theory based on ‘appropriate/innapropriate landings’ by pest insects of cruciferous plants. *Entomologia Experimentalis et Applicata*. 96: 91-102. DOI: <https://doi.org/10.1046/j.1570-7458.2000.00684.x>
- Friedman, M. and H. Jürgens. 2000. Effect of pH on the stability of plant phenolic compounds. *Journal of Agricultural and Food Chemistry*. 48(6): 2101 -2110. Abstract. DOI: <https://doi.org/10.1021/jf990489j>

- Fu, Y. H., W. X. Quan, C. C. Li, C. Y. Qian, F. H. Tang, and X. J. Chen. 2019. Allelopathic effects of phenolic acids on seedling growth photosynthesis in *Rhododendron delavayi* Franch. *Photosynthetica*. 57(2): 377 – 387.
- Gardner, F.P., B.Pearce, and R. L. Mitchell. 1983. *Physiology of Crop Plants*. The Iowa State University Press, Iowa.
- Gesteiro, N., A. Butrón, S. Estévez, and R. Santiago. 2021. Unraveling the role of maize (*Zea mays* L.) cell-wall phenylpropanoids in stem-borer resistance. *Phytochemistry*. 105: 1 – 9.
- Ghimire, B. K., B. Ghimire, C. Yeon Yu, and I. M. Chung. 2019. Allelopathic and autotoxic of *Medicago sativa* – derived allelochemicals. *Plants*. 8(233): 1 – 18.
- Gomes, R. P. Silva, dan J. Oliveira. 2020. Sweet corn cultivation in South America. *Agricultural Journal*. 45(3): 150 – 162.
- Harborne, A. J. 1998. *Phytochemical Methods A Guide to Modern Techniques of Plant Analysis*. Springer Dordrecht, Germany.
- Hegab, M. M., M. A. Gabr, S. A. M. Al-Wakeel, and B. A. Hamed. 2016. Allelopathic potential of *Eucalyptus rostrata* leaf residue on some metabolic activities of *Zea mays* L.. *Universal Journal of Plant Science*. 4(2): 11 – 21.
- Hirase, K. 1997. Effects of water electric conductivity and water temperature on properties of Naproanilide 1 kg granules. *Journal of Weed Science and Technology*. 42: 256 – 261. DOI: <https://doi.org/10.3719/WEED.42.256>
- Hulme, P. E. 2023. Weed resistance to different herbicide modes of action is driven by agricultural intensification. *Fields Crops Research*. 292: 1-10.
- Ibrahim, F. K., I. R. Jasim, H. F. A. Shihab, and F. K. M. Salih. 2024. Allelopathic activity of *Zea mays* extracts on some physiological and anatomical features of corn and wheat cultivars. *Journal of Applied and Natural Science Foundation*. 16(3): 1281 – 1294.
- Ibrahim, M., H. Jaafar, A. Rahmat, and Z. Rahman. 2011. Effects of nitrogen fertilization on synthesis of primary and secondary metabolites in three varieties of kacip fatimah (*Labisia pumila blume*). *International Journal of Molecular Sciences*. 12: 5238 – 5254.
- Islam, A. K. M. M., S. M. R. Karim, S. A. Kheya, and S. Yeasmin. 2024. Unlocking the potential of bioherbicides for sustainable and environment friendly weed management. *Heliyon*. 10: 1-13.
- Janovicek, K. J., T. J. Vyn, R. P. Voroney, and O. B. Allen. 1997. Early corn seedling growth response to phenolic acids. *Canadian Journal of Plant Science*. 77: 391 – 393.

- Khan, W., B. Prithiviraj., and D. L. Smith. 2003. Photosynthetic response of corn and soybean to foliar application of salicylates. *Journal of Plant Physiology*. 160(5): 485 – 492. DOI: <https://doi.org/10.1078/0176-1617-00865>
- Lamm, F. R., R. M. Aiken, and A. A. Abou Kheira. 2009. Corn yield and water use characteristics by tillage, plant density, and irrigation. *Trans. ASABE*. 52(1): 133 – 143.
- Lanka, S., and P. Parimala. 2017. Antimicrobial activities of *Tectona grandis* leaf and bark extracts. *European Journal of Pharmaceutical and Medical Research*. 4(12): 245-248.
- Li, Q., J. Guo, H. Zhang, M. Zhao. 2024. The competition between *Bidens pilosa* and *Setaria viridis* alters soil microbial composition and soil ecological function. *Journal of Integrative Agriculture*. 23(1): 267 – 282.
- Li, Z. and G. J. Ahammed. 2023. Plant stress response and adaptation via anthocyanins: A review. *Plant Stress*. 10: 1-13.
- Ma, H., W. Qin, B. Guo and P. Li. 2022. Effect of plant tannin and glycerol on thermoplastic starch: mechanical, structural, antimicrobial and biodegradable properties. *Carbohydrate Polymers*. 295(1): 1-11.
- Martin, J. N. 1920. *Botany with Agricultural Applications*. John Wiley & Sons, New York.
- Molisch, H. 1937. *Der Einfluss einer Pflanze auf die andere-Allelopathie*. Fischer, Jena.
- Muller, C. H. 1966. The role of chemical inhibition (allelopathy) in vegetational composition. *Bull Torrey Bot Club*. 93: 332 – 351.
- Muller, C. H. 1969. Allelopathy as a factor in ecological process. *Vegetario*. 18: 348-357.
- Murti, D. A., N. Sriyani, dan S. D. Utomo. 2015. Efikasi herbisida parakuat diklorida terhadap gulma umum pada tanaman ubi kayu (*Manihot esculenta* Crantz.). *Jurnal Agrotek Tropika*. 3(3): 341 – 347.
- Muscolo, A., M. R. Panuccio, and M. Sidari. 2001. The effect of phenols on respiratory enzymes in seed germination. *Plant Growth Regulation*. 35: 31 – 35.
- Niamké, F. B., N. Amusani, J. P. Charpentier, G. Chaix, Y. Baissac, N. Boutahar, A. A. Adima, S. K. Coulibaly, and C. J. Allemand. Relationships between biochemical attributes (non-structural carbohydrates and phenolics) and natural durability against fungi in dry teak wood (*Tectona grandis* L. f.). *Annals of Forest Science*. 68(1): 201-211.
- Nuri, N, E. Puspitasari, M. A. Hidayat, I. Y. Ningsih, B. Triatmoko, dan D. Dianasari. Pengaruh metode ekstraksi terhadap kadar fenol dan flavonoid total, aktivitas antioksidan serta antilipase daun jati Belanda (*Guazuma ulmifolia*). *Jurnal Sains & Farmasi Klinis*. 7(2): 143 – 150.

- Opoku, G., T. J. Vyn, and R. P. Voroney. 1997. Wheat straw placement effects on total phenolic compounds in soil and corn seedling growth. *Canadian Journal of Plant Science*. 77(3): 301 – 305. DOI: <https://doi.org/10.4141/P96-165>
- Padang, W. J., E. Purba, dan E. S. Bayu. 2017. Periode kritis pengendalian gulma pada tanaman jagung (*Zea mays* L.). *Jurnal Agroteknologi FP USU*. 5(2): 409 – 414.
- Parven, A., I. Md Meftaul, K. Venkateswarlu, M. Megharaj. 2024. Herbicides in modern sustainable agriculture: environmental fate, ecological implications, and human health concerns. *International Journal of Environmental Science and Technology*: 1- 22.
- Piperno, D. R. and K. V. Flannery. 2001. The earliest archaeological maize (*Zea mays* L.) from highland Mexico: new accelerator mass spectrometry dates and their implications. *Proceedings of The National Academy of Sciences*. 98(4): 2101 – 2103.
- Pismarović, L., V. Šoštarčić, K. Kijak, B. Lazarević, and M. Šćepanović. 2024. Three inhibitory phenolic acids against common ragweed (*Ambrosia artemisiifolia* L.) had a minimal effect on maize growth in vitro and in vivo. *Plos One*. 19(9): 1 – 19.
- Prasetyo, T. 2017. Persebaran dan produksi jagung manis di Indonesia. *Jurnal Agronomi Indonesia*. 25(1): 45 – 55.
- Putnam, A.R. and W. B. Duke. 1978. Allelopathy in agroecosystems. *Annual Review of Phytopathology*. 16: 431 – 451.
- Radhakrishnan, R., J. M. Park, and I. J. Lee. 2016. *Enterobacter* sp. I-3, a bio-herbicide inhibits gibberellins biosynthetic pathway and regulates abscisic acid and amino acids synthesis to control plant growth. *Micorbiological Research*. 193: 132-139.
- Ribeiro, R. C., R. B. B. Feitoza, H. R. P. Lima, and M. Geraldo de Carvalho. 2015. Phytotoxic effects of phenolic compounds on *Calopogonium mucunoides* (Fabaceae) roots. *Australian Journal of Botany*. 63(8): 679-686. DOI: 10.1071/BT15097
- Rice, E. L. 1984. “Allelopathy” 2nd Ed. Academic Press, New York.
- Sari, V. I. 2020. Perbedaan perubahan kondisi gulma rumput pahit (*Axonopus compressus*) pada aplikasi herbisida sistemik dan kontak. *Jurnal Citra Widya Edukasi*. 12(1): 57-62.
- Sarker, S. D. and L. Nahar. Chemistry for Pharmacy Students: General, Organic, and Natural Product Chemistry. John Wiley & Sons, West Sussex England.
- Serrasolsas, I., and P. Khanna. 1995. Changes in heated and autoclaved forest soils of S.E. Australia. I. carbon and nitrogen. *Biogeochemistry*. 29: 3 – 24. DOI: <https://doi.org/10.1007/BF00002591>

- Setiawan, A. N. dan S. Sarjiyah. 2021. Keanekaragaman dan kelimpahan gulma pada tumpangsari jagung manis dengan kacang. *Bioeksperimen*. 7(2): 143 – 153.
- Sharma, A., A. Kaur, R. K. Kohli, H. P. Singh, and D. R. Batish. *Bidens pilosa* (Asteraceae) invasion reshapes the pattern of plant communities and edaphic properties across the north-western Himalayan landscape. *Ecological informatics*. 77: 1-10.
- Singh, V., Van Oosterom, E. J. Jordan. C. D. Messina, M. Copper, L. Graene. *et al.* 2010. Morphological and architectural development of root system in sorghum and maize. *Plant Soil*. 333: 287 – 299.
- Stitt, M. 1996. *Photosynthesis and The Environment: Metabolic Regulation of Photosynthesis*. Springer Dordrecht, Germany.
- Swift, D. E. 1993. *Nutrients Deficiencies and Toxicities in Crop Plants*. APS Press, St. Paul, Minnesota.
- Tantrayana, P.B. dan E. Zubaidah. 2015. Karakteristik fisika-kimia dari ekstrak salak gula pasir dengan metode maserasi. *Jurnal Pangan dan Agroindustri*. 3(4): 1608-1619.
- Taupik, S. A., S. N. A. Aani, P. W. Chia, and T. S. Chuah. 2023. Phytotoxic compounds of cassava leaf extracts for weed inhibition in aerobic rice. *South African Journal of Botany*. 159: 563-570.
- Truog, E. 1948. Lime in relation to availability of plant nutrients. *Soil Science*. 65: 1 – 7.
- USDA. 2024. Classification for Kingdom Plantae Down to Species *Zea mays* L. <<https://acir.aphis.usda.gov/s/cird-taxon/a0ut0000000mLhNAAU/zea-mays>>. Diakses pada 12 Desember 2024.
- Uyun, Q., D. W. Respatie, and D. Indradewa. 2024. Unveiling the allelopathic potential of Wedelia leaf extract as a bioherbicide against purple nutsedge: A promising strategy for sustainable weed management. *Sustainability*. 16(479): 1 – 18.
- Vanstone, D. and E. Stobbe. 1977. Electolytic conductivity – a rapid measure of herbicide injury. *Weed Science*. 25: 352 – 354. DOI: <https://doi.org/10.1017/S0043174500033610>.
- Vaughn, S. F. and R. A. Holser. 2007. Evaluation of biodiesels from several oilseed sources as environmental friendly contact herbicides. *Industrial Crops and Products*. 26(1): 63-68.
- Wardani, F. R., T. Islami, H. T. Sebayang. 2016. Pengaruh pemberian jenis pupuk dan waktu pengendalian gulma pada pertumbuhan dan hasil tanaman jagung manis (*Zea mays saccharata*). *Jurnal Produksi Tanaman*. 4(6): 462-467. DOI: 10.21176/protan.v4i6.317
- Wattimena, G.A. 1987. *Zat Pengatur Tumbuh*. PAU Bioteknologi IPB, Bogor.

- Wirosoedarmo, R., A. T. Sutanhaji, E. Kurniati, dan R. Wijayanti. 2011. Evaluasi kesesuaian lahan untuk tanaman jagung menggunakan metode analisis spasial. *Agritech*. 31(1): 71 – 78.
- Wulandari, P., R. R. A. Tarigan, dan S. Sajar. 2024. Penerapan GAP (*Good Agricultural Practices*) dalam Berbudidaya Jagung (*Zea mays* L.). Tahta Media, Surakarta.
- Yudiawati, E., T. S. Sari, dan Setiono. 2022. Pengaruh lama penyimpanan terhadap viabilitas benih kakao (*Theobroma cacao* L.) varietas Criollo. Baselang: Jurnal Ilmu Pertanian, Peternakan, Perikanan, dan Lingkungan. 2(2): 101 – 107.