

DAFTAR PUSTAKA

- Abbas, S., Sulandari, S., Hartono, S., & Trisyono, Y. A. (2020). Molecular detections and resistance response of six rice varieties to tungroviruses from south sulawesi. *Jurnal Perlindungan Tanaman Indonesia*, 24(1), 89-97.
- Adhikari, P., Araya, H., Aruna, G., Balamatti, A., Banerjee, S., Baskaran, P., Barah, B. C., Behera, D., Berhe, T., Boruah, P., Dhar, S., Edwards, S., Fulford, M., Gujja, B., Ibrahim, H., Kabir, H., Kassam, A., Khadka, R. B., Koma, Y. S., Natarajan, U. S., Perez, R., Shen, D., Sharif, A., Singh, G., Styger, E., Thakur, A. K., Tiwari, A., Uphoff, N., Verma, A. (2018). System of crop intensification for more productive, resource-conserving, climate-resilient, and sustainable agriculture: Experience with diverse crops in varying agroecologies. *International Journal of Agricultural Sustainability*, 16(1), 1-28.
- Amalia, Anugerah Fitri., Heni SP. Rahayu., Muchtar. (2020). Komparasi kinerja alat tanam jagung dan tugal pada lahan kering kabupaten sigi sulawesi tengah. *Jurnal Agritechno*, 13 (2), 97-104.
- Amalia, A. F., & Syafruddin. (2022). Performance of planting tools (seed planter) on rice land, Palu City, Central Sulawesi. *Jurnal AgriTechno*, 15(2), 103-108.
- Ani, O. A., Uzoejinwa, B. B., & Anochili, N. F. (2016). Design, construction and evaluation of a vertical plate maize seed planter for gardens and small holder farmers. *Nigerian Journal of Technology*, 35(3), 647-655.
- Ansar, M. A., Ansar, & De Side, G. N. (2025). Design and performance test of corn seeder integrated with fertilizer applicator. *Jurnal Teknik Pertanian Lampung*, 14(3), 911-919.
- Ashtiani, H. A., Sadeghi, M., & Hemmat, A. (2010). Physical properties of two rough rice varieties affected by moisture content. *International Agrophysics*, 24(3), 205-210.
- Badan Standardisasi Instrumen Pertanian. (2023). *Deskripsi varietas unggul baru padi*. Balai Besar Pengujian Standar Instrumen Padi, Kementerian Pertanian.
- Balas, P. R., Lakhani, A. L., Pargi, S. J., Mehta, T. D., & Makavana, J. M. (2024). Performance evaluation of manual seeder machine for precision farming. *Journal of Experimental Agriculture International*, 46(2), 68-77.
- Bintoro, N., & Zahra, A. I. (2022). Effects of moisture content and grain type on mechanical properties of white rice: Literature review and experiment. *Indonesian Journal of Science & Technology*, 7(2), 337-362.
- Budiman, D. A., & Hidayat, M. (2015). Evaluasi kinerja mesin tanam benih padi untuk lahan sawah. In *Prosiding Seminar Nasional Pengembangan Teknologi Pertanian*.
- Chaudhary, A., Venkatramanan, V., Mishra, A. K., & Sharma, S. (2023). Agronomic and environmental determinants of direct seeded rice in South Asia. *Circular Economy and Sustainability*, 3(1), 253-290.

- Dewi, T. K. (2015). Pengaruh kombinasi kadar air benih dan lama penyimpanan terhadap viabilitas dan sifat fisik benih padi sawah kultivar Ciherang. *Agrorektan*, 2(1).
- Farooq, M., Basra, S. M. A., & Wahid, A. (2011). Direct seeding of rice: Experiences, challenges and opportunities. *Field Crops Research*.
- Ferdianto, D. (2023). *Karakterisasi morfologi kultivar padi (Oryza sativa L.) lokal di Kabupaten Lamongan Jawa Timur* (Doctoral dissertation, Universitas Islam Negeri Maulana Malik Ibrahim).
- Gathala, M. K., Timsina, J., Islam, M. S., Rahman, M. M., Hossain, M. I., Harun-Ar-Rashid, M., Ghosh, A. K., Krupnik, T. J., Tiwari, T. P., & McDonald, A. (2016). Conservation agriculture based tillage and crop establishment options can maintain farmers' yields and increase profits in South Asia's rice-maize systems: Evidence from Bangladesh. *Field Crops Research*, 196, 85-98.
- Gharde, Y., Singh, P. K., Dubey, R. P., & Gupta, P. K. (2018). Assessment of yield and economic losses in agriculture due to weeds in India. *Crop Protection*, 107, 12-18.
- Hu, C., Shi, J., Quan, S., Cui, B., Kleessen, S., Nikoloski, Z., Tohge, T., Alexander, D., Guo, L., Lin, H., Wang, J., Cui, X., Rao, J., Luo, Q., Zhao, X., Fernie, A. R., & Zhang, D. (2014). Metabolic variation between japonica and indica rice cultivars as revealed by non-targeted metabolomics. *Scientific reports*, 4(1).
- Jamaluddin, J., Syam, H., Lestari, N., & Rizal, M. (2019). *Alat dan mesin pertanian*. Badan Penerbit UNM, Makassar.
- Kamgar, S., Noei-Khodabadi, F., & Shafaei, S. M. (2015). Design, development and field assessment of a controlled seed metering unit to be used in grain drills for direct seeding of wheat. *Information Processing in Agriculture*, 2(3-4), 169-176.
- Karimah, N., Sugandi, W. K., Thoriq, A., & Yusuf, A. (2020). Analisis efisiensi kinerja pada aktivitas pengolahan tanah sawah secara manual dan mekanis. *Jurnal Keteknikan Pertanian Tropis dan Biosistem*, 8(1), 1-13.
- Kim, J., Angella, E. N. M., Susanto, A. J., & Saptaji, K. (2025). Tugal vs push-type planter: A comparative study in a tropical country. *Mechanical Science Reports*, 3(1), 1-10.
- Kobarsih, M., & Indrasari, S. D. (2021). Physical and milling quality of milled rice in Indonesia. *Kaunia: Integration and Interconnection Islam and Science Journal*, 17(2), 33-40.
- Kumari, N., Pandey, S. B. S., Upadhyay, K., Bhatnagar, P., VC, P., & Tippannavar, A. (2024). Growth performance and seed yield of fennel (*Foeniculum vulgare* Mill.) varieties under shisham (*Dalbergia sissoo* Roxb.) based agroforestry system in south-eastern rajasthan, india. *International Journal of Environment and Climate Change*, 14(8), 582-590.
- Lai, Q., Hua, Z., Xing, J., & Ma, W. (2018). Simulation and verification for seed-filling performance of cell wheel precision seed metering device based on discrete element method. *MATEC Web of Conferences* 169.

- Li, H., Ling, L., Wen, C., Liu, H., Wu, G., An, X., Meng, Z., & Yan, B. (2023). Structural optimization method of rice precision direct seed-metering device based on multi-index orthogonal experimental. *Frontiers in Plant Science*, 14.
- Liu, Q., He, X., Yang, L., Zhang, D., Cui, T., Qu, Z., Yan, B., Wang, M., & Zhang, T. (2017). Effect of travel speed on seed spacing uniformity of corn seed meter. *International Journal of Agricultural and Biological Engineering*, 10(4), 267–275.
- Maqueira-Lopez, L. A., Morejon-Rivera, R., Rojan-Herrera, O., & Torres-de-la-Noval, W. (2019). Relationship between growth traits and yield formation in Indica-type rice crop. *Agronomía Mesoamericana*, 30(1), 79-100.
- Marulloh, Wiyono, J., Harsono, & Tajalli, M. (2020). Uji kinerja mesin penanam pneumatik pada sistem tanam tumpang sari. *Jurnal Enjiniring Pertanian*, 12 (1).
- Mazza, M., Abubakar, L. G., Hamisu, M. M., Akangbe, O., Jahun, B. G., Aminu, M., & Jilima, A. A. (2023). Effects of moisture content on physical properties of paddy and dehusked rice. *Nigerian Journal of Tropical Engineering*, 17(1), 72-88.
- Muhtar, G. A., & Purwandhi, I. (2019). Perubahan fase pertumbuhan padi sawah tadah hujan saat el nino di Kabupaten Gorontalo. *Jurnal Azimut: Geografi dan Lingkungan*, 2(1), 95–106.
- Mukhlis, M., Ismawati, I., Sillia, N., Fitrianti, S., Ukrita, I., Wisra, R. F., Rafliis, H., Hendriani, R., Hanum, L., Ibrahim, H., Nofianti, S., Marta, A., & Sari, N. (2024). Characteristics of production factors and production of zero tillage system rice farming. *Jurnal Penelitian Pendidikan IPA*, 10(8), 6013–6019.
- Ngatiman, Supriyadi, & Isnaini. (2018). Karakterisasi morfologi malai plasma nutfah padi lokal asal Kabupaten Rokan Hilir, Riau. *Unri Conference Series: Agriculture and Food Security*, 1, 1-7.
- Normita, M., and Cruz, D. (2002). Rice grain quality evaluation procedures. *Graham R. A Proposal for IRRI to establish a grain quality and nutrition research centre: IRRI discussion paper series*, 44, 7-12.
- Nurlina, N., Irmayani, I., & Yusriadi, Y. (2022). Persepsi dan respon petani terhadap pemanfaatan teknologi tabela usahatani padi di Desa Batulappa Kecamatan Batulappa Kabupaten Pinrang. *Jurnal Agribis*, 10(2), 109-120.
- Pangalila, N. D. E., Rantung, R. A., & Ludong, D.P.M. (2020). Rancang bangun dan uji teknis alat tanam benih jagung (*Zea Mays L.*) tipe TP CSM 16 dengan tenaga penarik traktor tangan. *Jurnal Teknologi Pertanian*, 11(2), 140-149.
- Patria, D. G., & Sukamto, S. (2021). Rice science and technology. *Literasi Nusantara*.
- Patria, D. G., Sukamto, & Sumarji. (2021). *Rice Science and Technology (Ilmu dan Teknologi Beras)*. Literasi Nusantara.

- Poojitha, K., Pravalika, K. M., Theerthana, T., & Prashanth, D. V. (2024). Transplanted V/S Direct-Seeded Method of Rice: A Review. *Journal of Experimental Agriculture International*, 46(5), 681–685.
- Pradhan, D. D., Rawal, S., Asif, M., Behera, S. R., & Panda, U. (2024). Effect of zero tillage and different weed management practices in direct seeded rice (*Oryza sativa* L.) in indo gangetic plains: a review. *Journal of Scientific Research and Reports*, 30(6), 543–557.
- Prasetyo, O. R., & Kadir, K. (2019). Teknik penanaman jajar legowo untuk peningkatan produktivitas padi sawah di jawa tengah. *Jurnal Litbang Sukowati: Media Penelitian dan Pengembangan*, 3(1).
- Purwansyah, T. S., Rosanti, D., & Kartika, T. (2021). Morfometri beberapa varietas tanaman padi (*Oryza sativa* L.) di Kecamatan Pulau Rimau Banyuasin. *Jurnal Indobiosains*, 3(2), 28–38.
- Qian, C., He, S., Qin, W., Jiang, Y., Huang, Z., Zhang, M., Zhang, M., Yang, W., & Zang, Y. (2024). Influence of shaped hole and seed disturbance on the precision of bunch planting with the double-hole rice vacuum seed meter. *Agronomy*, 14(4), 768.
- Rajendran, M., & Ranganathan, T. (2025). Advancements in paddy transplanter mechanization implications for sustainable agriculture. *Sustainable Futures*, 10.
- Ramayana, A. S. (2024). *Buku referensi padi ladang spesifik wilayah tropika basah*. Penerbit NEM.
- Rathod, S., Ramappa, K. T., Nidoni, U., & Hiregoudar, S. (2020). Study on physical properties of IR-64 rice (*Oryza sativa* L.) at different thermal conditions. *Journal of Farm Sciences*, 33(4), 562–566.
- Salisa, H. D., Kristanti, N. E., & Sukartiko, A. C. (2021). The quality analysis of “JOSS” (Jatisarano Organik Sehat Sejahtera) organic rice. *BIO Web of Conferences*, 1–5.
- Sianipar, T. P., & Fatoni, Z. (2019). Perancangan alat penanam benih jagung dan penyiraman. *Jurnal Teknik Mesin*, 2(1), 25–32.
- Sulianti, N. W. S., Dewi, S. M., & Indraeni, M. R. N. (2020). *Kapita selekta produksi benih dan bibit tanaman pangan*. LPPM Unram Press.
- Syam, I. S., & Taher, A. (2023). Dampak penggunaan teknologi pertanian modern terhadap kesejahteraan petani sawah di Desa Tengah Peulumat, Kecamatan Labuhan Haji Timur. *Jurnal Pendidikan Geosfer*, 8(2), 215–226.
- Tang, H., Xu, C., Guo, F., Yao, Z., Jiang, Y., Guan, R., Sun, X., & Wang, J. (2022). Analysis and experiment on the seed metering mechanism of multi-grain cluster air suction type rice (*Oryza sativa* L.) hill direct seed metering device. *Agriculture*, 12(8).
- Umar, S., Hidayat, A. R., & Pangaribuan, S. (2017). Pengujian mesin tanam padi sistem jajar legowo (Jarwo Transplanter) di lahan rawa pasang surut. *Jurnal Teknik Pertanian Lampung*, 6(1).
- Usman, I. (2018). Pengembangan seeder semi mekanis tipe dorong untuk penanaman padi. *Skripsi, Universitas Hasanuddin*.

- Waruwu, I. P., & Lase, N. K. (2025). Pengaruh Lama Perendaman Air Terhadap Perkecambahan Jagung. *Jurnal Ilmu Pertanian dan Perikanan*, 2(2), 110-115.
- Wibowo, P., Kusbiantoro, B., Indrasari, S. D., & Handoko, D. D. (2009). Karakteristik fisik, fisikokimia, dan tanak beras beberapa varietas padi aromatik. In *Prosiding Seminar Nasional Hasil Penelitian Padi, Subang, Indonesia*.
- Widata, S. (2015). Uji kapasitas kerja dan efisiensi hand traktor untuk pengolahan tanah lahan kering. *Agro UPY*, 6(2), 64-70.
- Xu, H., Liu, W., Liu, H., Liu, Z., & Zhang, G. (2025). Design and performance test of a combined and adjustable precise rice seed metering device. *International Journal of Agricultural and Biological Engineering*, 18(1), 101-114.
- Zakky, M., Prayoga, A., & Indrayanti, T. (2021). Unjuk kerja walking rice transplanter 4 baris dengan sistem tanam jajar legowo 2: 1 di balai penyuluhan pertanian sepatan, kabupaten tangerang, banten. *Agrica Ekstensi*, 15(1), 76-81.
- Zareiforush, H., Komarizadeh, M. H., & Alizadeh, M. R. (2009). Effect of moisture content on some physical properties of paddy grains. *Research Journal of Applied Sciences, Engineering and Technology*, 1(3), 132-139.
- Zulfakri, Fachruddin, & Defrian, A. (2019). Pengaruh pemberian bahan organik dan kapur terhadap kapasitas kerja dan efisiensi traktor pada lahan kering. *Jurnal Rona Teknik Pertanian*, 12(2).