

## DAFTAR PUSTAKA

- Ahmed, A., Saleam, A., & Shaban, K. (2015). The Effect of Irrigation Scheduling and Compost Fertilizer Levels on Yield and Water Productivity of Wheat Crop Grown on Newly Reclaimed Loamy Sand Soil. *Journal of American Science*, 11(5), 8–15.
- Aini, L., Soenarminto, B., Hanudin, E., & Sartohadi, J. (2019). Plant Nutritional Potency of Recent Volcanic Materials From The Southern Flank of Mt. Merapi, Indonesia. *Bulgarian Journal of Agricultural Science*, 25(3).
- Ainia, D., & Jirzanah, J. (2021). Analisis Deep Ecology Arne Naess terhadap Aktivitas Penambangan Pasir (Studi Kasus: Penambangan Pasir Merapi di Sekitar Sungai Gendol Cangkringan Sleman Yogyakarta). *Jurnal Ilmu Lingkungan*, 19(1), 98–106.
- Ampong, K., Thilakarithna, M., & Gorim, L. (2022). Understanding the Role of Humic Acids on Crop Performance and Soil Health. *Frontiers in Agronomy*, 4(848621).
- Apriyani, M., & Murtalaksono, A. (2020). Pengaruh Kondisi Kapasitas Lapang Yang Berbeda Terhadap Pertumbuhan Vegetatif Varietas Kacang Hijau (*Vigna radiata* L.). *Agropross: National Conference Proceedings of Agriculture*, 8–9.
- Ariska, N., & Rachmawati, D. (2017). Pengaruh Ketersediaan Air Berbeda terhadap Pertumbuhan dan Hasil Tiga Kultivar Bawang Merah (*Allium cepa* L.). *Agroteknologi. Universitas Gadjah Mada Fakultas Biologi*, 4(2), 42–50.
- Arsyadmunir, A. (2016). Periode Kritis Kekeringan Pada Pertumbuhan dan Produksi Kacang Hijau (*Vigna radiata* L.). *Agrovigor*, 9(2), 132–140.
- Bangar, P., Chaudhury, A., Tiwari, B., Kumar, S., Kumari, R., & Bhat, K. (2019). Morphophysiological and Biochemical Response of Mungbean (*Vigna radiata* (L.) Wilczek) Varieties at Different Developmental Stages Under Drought Stress. *Turkish Journal of Biology*, 43(1).
- Basavaraj, P., Jangid, K., Babar, R., Gowdra, V., Gangurde, A., Shinde, S., Tripathi, K., Patil, D., Boraiah, K., Rane, J., Harisha, C., Halli, H., Reddy, K., & Prabhakar, M. (2024). Adventitious Root Formation Confers Waterlogging Tolerance in Cowpea (*Vigna unguiculata* (L.) Walp.). *Frontiers in Sustainable Food Systems*, 8(1373183).
- Blanco, H., & Lal, R. (2023). *Soil Conservation and Management* (2nd ed.). Springer Nature Switzerland.
- Candra, R., Sumardi, S., & Hermansyah, H. (2020). Pertumbuhan dan Hasil Empat Varietas Tanaman Kacang Hijau (*Vigna radiata* L.) Pada Pemberian Dosis Pupuk Kandang Ayam di Ultisol. *Jurnal Ilmu Pertanian Indonesia*, 22(2).
- Castro, T., Berbara, R., Tavares, O., Mello, D., Pereira, E., Souza, C., Espinosa, L., & García, A. (2021). Humic Acids Induce A Eustress State Via Photosynthesis and Nitrogen Metabolism Leading to A Root Growth Improvement in Rice Plants. *Plant Physiology and Biochemistry*, 162.
- Chen, D., Wang, S., Cao, B., Cao, D., & Leng, G. (2016). Genotypic Variation in Growth and Physiological Response to Drought Stress and Re-Watering Reveals the Critical Role of Recovery in Drought Adaptation in Maize

- Seedlings. *Frontiers in Plant Science*, 6(1241), 1–15.
- Collins, A., Ryan, M., Adams, H., Dickman, L., Garcia-Forner, N., Grossiord, C., Powers, H., Sevanto, S., & McDowell, N. (2021). Foliar Respiration is Related to Photosynthetic, Growth and Carbohydrate Response to Experimental Drought and Elevated Temperature. In *Plant Cell and Environment*. 44(12).
- Cosgrove, D. (2018). Diffuse Growth of Plant Cell Walls. *Plant Physiology*, 176.
- Dinas Pertanian dan Ketahanan Pangan DIY. (2023). *VIMA-4*. Dinas Pertanian dan Ketahanan Pangan.
- Duarte, S. D. J., Hubach, A., & Glaser, B. (2022). Soil water balance and wettability methods in soil treated with biochar and/or compost. *Carbon Research*, 1–16.
- Evelyn, C. (2023). Karakter Morfologi dan Anatomi Sebagai Kriteria Seleksi terhadap Toleransi Cekaman Kekeringan Pada Beberapa Genotipe Cabai. *Repository UIN Syarif Hidayatullah*.
- Evizal, R., & Prasmatiwi, F. (2022). Gejala Produktivitas Rendah dan Pertanian Degeneratif. *Jurnal Agrotropika*, 21(2), 75.
- Firsta, E., & Saputro, T. (2019). Respon Morfologi Kedelai (*Glycine max* L.) Varietas Anjasmoro Hasil Iradiasi Sinar Gamma pada Cekaman Genangan. *Jurnal Sains Dan Seni ITS*, 7(2).
- Gani, R., Purwanto, S., & Sukarman, S. (2021). Karakteristik Tanah Vulkanik di Kabupaten Wonosobo dan Pengelolaannya untuk Pertanian. *Jurnal Tanah Dan Iklim*, 45(1).
- Guo, Y., Zhang, S., Ai, J., Zhang, P., Yao, H., Liu, Y., & Zhang, X. (2023). Transcriptomic and Biochemical Analyses of Drought Response Mechanism in Mung Bean (*Vigna radiata* (L.) Wilczek) Leaves. *PLoS ONE*, 18(5), 1–19.
- Habibi, F., Liu, T., Shahid, M., Schaffer, B., & Sarkhosh, A. (2023). Physiological, Biochemical, and Molecular Responses of Fruit Trees to Root Zone Hypoxia. *Environmental and Experimental Botany*, 206(105179).
- Hasibuan, A. (2015). Pemanfaatan Bahan Organik dalam Perbaikan Beberapa Sifat Tanah Pasir Pantai Selatan Kulon Progo. *Planta Tropika Journal of Agro Science*, 3(1), 31–40.
- Hata, F., Spagnuolo, F., Paula, M., Moreira, A., Ventura, M., Fregonezi, G., & Oliveira, A. (2020). Bokashi Compost and Biofertilizer Increase Lettuce Agronomic Variables in Protected Cultivation and Indicates Substrate Microbiological Changes. *Emirates Journal of Food and Agriculture*, 32(9).
- Hendrati, R., Rachmawati, D., & Pamuji, A. (2016). Respon Kekeringan terhadap Pertumbuhan, Kadar Prolin, dan Anatomi Akar *Acacia auriculiformis* Cunn., *Tectona grandis* L., *Alstonia spectabilis* Br., dan *Cedrela odorata* L. *Jurnal Penelitian Kehutanan Wallacea*, 5(2), 123.
- Husein, M., Mindari, W., & Santoso, S. (2023). Dampak Pemberian Bahan Organik dan Pasir terhadap Sifat Fisika Tanah Vertisol Bojonegoro. *Agro Bali*, 6(2).
- Huybrechts, M., Cuypers, A., Deckers, J., Iven, V., Jozefczak, M., & Hendrix, S. (2019). Cadmium and Plant Development: An Agony from Seed to Seed. *International Journal of Molecular Sciences*, 20(3971), 1–30.
- Ifadah, N., Kusuma, Z., & Soemarno, S. (2023). Perbaikan Kualitas Tanah Berpasir untuk Kebun Kopi dengan Penambahan Tanah Liat dan Kompos di Desa Bambang, Kecamatan Wajak. *Agromix*, 14(1), 125–134.

- Januardi, R., Afandi, A., & Banuwa, I. (2024). Pengaruh Pemberian Asam Humat terhadap Sifat Fisik Tanah Ultisol Perkebunan Nanas Lampung Timur. *Jurnal Agrotek Tropika*, 12(1), 29–34.
- Kaya, C., Şenbayram, M., Akram, N., Ashraf, M., Alyemini, M., & Ahmad, P. (2020). Sulfur-Enriched Leonardite and Humic Acid Soil Amendments Enhance Tolerance To Drought and Phosphorus Deficiency Stress in Maize (*Zea mays* L.). *Scientific Reports*, 10(6432), 1–13.
- Kusmiyati, S., Setyowati, N., & Turmudi, E. (2020). Dinamika Komunitas Gulma pada Sistem Tumpang sari Jagung dan Kacang Hijau Hubungannya dengan Produktivitas Lahan. *Prosiding Seminar Nasional Lahan Suboptimal Ke-8*.
- Lamichaney, A., Tewari, K., Katiyar, P., Parihar, A., & Pratap, A. (2023). Implications of Exposing Mungbean (*Vigna radiata* L.) Plant to Higher -CO<sub>2</sub> Concentration on its Growth and Yield. *National Academy Science Letters*, 47(2), 195–198.
- Lestari, N., & Sukri, M. (2020). Aplikasi Asam Humat terhadap Pertumbuhan dan Produksi Tanaman Jagung Manis (*Zea mays saccharata* Sturt.). *Agropross: National Conference Proceedings of Agriculture*, 145–152.
- Libohova, Z., Seybold, C., Wysocki, D., Wills, S., Schoeneberger, P., Williams, C., Lindbo, D., & Stott, D. (2018). Reevaluating the Effects of Soil Organic Matter and Other Properties on Available Water-Holding Capacity Using the National Cooperative Soil Survey Characterization Database. *Journal of Soil and Water Conservation*, 73(4), 411–421.
- Mahdalena, Z. (2020). Pengaruh Tingkat Kekeringan terhadap Pertumbuhan Generatif Kultivar Kacang Tunggak (*Vigna unguiculata* L.). *Ziraa 'ah*, 45(3).
- Mariyammal, I., Seram, D., Samyuktha, S., Karthikeyan, A., & Dhasarathan, M. (2019). QTL Mapping in *Vigna radiata* × *Vigna umbellata* Population Uncovers Major Genomic Regions Associated with Bruchid Resistance. *Mol Breeding*, 39(110), 1–13.
- Maryani, Y., Sudrajat, I. S., Prasetyowati, S., Widiatmi, S., & Widata, S. (2022). Kajian Rhizobakteria dan Pupuk Kompos terhadap Hasil dan Kandungan Protein Kacang Hijau (*Vigna radiata* L.) di Lahan Pasir Pantai. *Jurnal Pertanian Agros*, 24(3), 1247–1255.
- Mudhor, M., Dewanti, P., Handoyo, T., & Ratnasari, T. (2022). Pengaruh Cekaman Kekeringan Terhadap Pertumbuhan dan Produksi Tanaman Padi Hitam Varietas Jeliteng. *Jurnal Agrikultura*, 33(3), 247–256.
- Naimnule, M. (2016). Pengaruh Takaran Arang Sekam dan Guano terhadap Pertumbuhan dan Hasil Kacang Hijau (*Vigna radiata* L.). *Savana Cendana*, 1(4), 121–124.
- Nasar, J., Khan, W., Khan, M., Gitari, H., Gbolayori, J., Moussa, A., & Mandozai, A. (2021). Photosynthetic Activities and Photosynthetic Nitrogen Use Efficiency of Maize Crop Under Different Planting Patterns and Nitrogen Fertilization. *Journal of Soil Science and Plant Nutrition*, 21(3), 2274–2284.
- Ningrum, A., Nuraini, A., Suminar, E., & Mubarok, S. (2020). Respons Dua Mutan Tomat terhadap Cekaman Kekeringan. *Jurnal Kultivasi*, 19.
- Novanursandy, N., & Rachmawati, D. (2023). Pengaruh Osmopriming Benih terhadap Perkecambahan dan Pertumbuhan Tanaman Cabai Rawit (*Capsicum*

- frutescens* L.) Pada Cekaman Kekeringan. *Bioscientist: Jurnal Ilmiah Biologi*, 11(2), 1001–1016.
- Nugraheni, F., Haryanti, S., & Prihastanti, E. (2018). Pengaruh Perbedaan Kedalaman Tanam dan Volume Air terhadap Perkecambahan dan Pertumbuhan Benih Sorgum (*Sorghum bicolor* (L.) Moench). *Buletin Anatomi Dan Fisiologi*, 3(2).
- Nur, H., Mulyani, C., & Marnita, Y. (2023). Pengaruh Pemberian Dosis Pupuk Organik Cap 3 Kelapa dan Berbagai Jenis Mulsa Organik terhadap Pertumbuhan dan Produksi Tanaman Kacang Hijau (*Vigna radiata* L.). *Jurnal Agrium*, 20(3).
- Oguz, M., Aycan, M., Oguz, E., Poyraz, I., & Yildiz, M. (2022). Drought Stress Tolerance in Plants: Interplay of Molecular, Biochemical and Physiological Responses in Important Development Stages. *Physiologia*, 2(4), 180–197.
- Pahlevi, M., & Kurniahu, H. (2022). Gangguan Fase Generatif Akibat Genangan Berulang Pada Cabai Rawit. *Biosaintropis (Bioscience-Tropic)*, 7(2), 84–93.
- Patriyawaty, N., & Anggara, G. (2020). Pertumbuhan dan Hasil Genotipe Kedelai (*Glycine max* (L.) Merrill) Pada Tiga Tingkat Cekaman Kekeringan. *Agromix*, 11(2), 151–165.
- Purwanto, P., Wijonarko, B., & Tarjoko, T. (2019). Perubahan Karakter Biokimia dan Fisiologi Tanaman Kacang Hijau Pada Berbagai Kondisi Cekaman Kekeringan. *Jurnal Kultivasi*, 18(1), 827–836.
- Puspitasari, A., & Lukito, A. (2021). Pengaruh Biostimulan, Asam Humat, Mikoriza dan Kombinasi Dosis Pemupukan Terhadap Pertumbuhan Tebu (*Saccharum officinarum* L.) dan Produksi Tebu Pada Tanah Eutropepts Pasuruan. *Indonesian Sugar Research Journal*, 1(1), 32–45.
- Rezky, F. (2018). Pengaruh Jumlah Pemberian Air dengan Sistem Irigasi Tetes terhadap Pertumbuhan dan Hasil Tanaman Terung Ungu (*Solanum melongena* L.). *Jurnal Agrohita*, 2(2).
- Ristiyana, S., Saputra, T., Subroto, G., & Setiyono, S. (2023). Peningkatan Pertumbuhan dan Hasil Panen Mentimun (*Cucumis sativus* L.) dengan Pemberian Kompos Limbah Baglog dan Pupuk Kandang Pada Media Kombinasi Tanah Pasir dan Tanah Sawah. *Jurnal Agrotek UMAT*, 10(3).
- Rossi, R., Amato, M., & Claps, S. (2023). Sulla (*Hedysarum coronarium* L.) Response to Drought Stress during Early Vegetative Stage. *Plants*, 12(3396).
- Saima, S., Li, G., & Wu, G. (2018). Effects of Drought Stress on Hybrids of *Vigna radiata* at Germination Stage. *Acta Biologica Hungarica*, 69(4).
- Sakinah, N., Bariyyah, K., & Hadi, A. (2023). Respon Perkembangan Buah Pada Tanaman Semangka terhadap Pemberian Asam Humat Sebagai Dasar Budidaya Smart Farming. *Agrotekma*, 7(2), 31–40.
- Saptiningsih, E., Dewi, K., Santosa, S., & Purwestri, Y. (2015). Adaptasi Morfologi *Wedelia trilobata* L. Pada Kondisi Penggenangan. *Prosiding Konser Karya Ilmiah*, 1, 75–82.
- Saptiningsih, E., Kurnianto, I., & Suedy, S. (2024). Pengaruh Aplikasi Kompos dan Asam Humat terhadap Produktivitas Tanah Pasir dan Pertumbuhan Sawi Hijau (*Brassica juncea* L.). *Buletin Anatomi Dan Fisiologi*, 9(1), 102–110.
- Saputra, D., Sari, R., Hairiah, K., Suprayogo, W., & Noordwijk, M. (2022).

- Recovery After Volcanic Ash Deposition: Vegetation Effects on Soil Organic Carbon, Soil Structure and Infiltration Rates. *Plant and Soil*, 474(1).
- Siedt, M., Teggers, E., Linnemann, V., Schäffer, A., & Dongen, J. (2023). Microbial Degradation of Plant Residues Rapidly Causes Long-Lasting Hypoxia in Soil upon Irrigation and Affects Leaching of Nitrogen and Metals. *Soil Systems*, 7(2).
- Sugiarto, R., Kristanto, B. A., & Lukiwati, D. R. (2018). Respon Pertumbuhan dan Produksi Padi Beras Merah (*Oryza nivara*) terhadap Cekaman Kekeringan Pada Fase Pertumbuhan Berbeda dan Pemupukan Nanosilika. *Journal of Agro Complex*, 2(2), 169.
- Sun, N., Wu, H., Chen, H., Shen, X., & Deng, C. (2019). Advances in Hydrophilic Nanomaterials for Glycoproteomics. *Chemical Communications*, 55(70).
- Sutradhar, S., & Fatehi, P. (2023). Latest development in the Fabrication and Use of Lignin-Derived Humic Acid. *Biotechnology for Biofuels and Bioproducts*, 16(1), 1–20.
- Tabrizian, S., Hajilou, J., Bolandnazar, S., & Dehghan, G. (2022). Silicon Improves Strawberry Ability to Cope with Water Deficit Stress. *International Journal of Horticultural Science and Technology*, 9(2).
- Umayana, R., Hardjanto, H., Soekmadi, R., & Sunito, S. (2020). Livelihood Adaptation Patterns of Sub Villages Community in the Slope of Merapi Volcano. *Earth and Environmental Science*, 528.
- Utama, D., Gofar, N., & Napoleon, A. (2018). Perbaikan Stabilitas Agregat Tanah Pasir Berlempung Menggunakan Bakteri Pemantap Agregat dan Bahan Organik. *Jurnal Tanah Dan Iklim*, 42(2), 161–167.
- Wahyono, N., & Rahayu, S. (2014). Aplikasi Pupuk Biourine Pada Beberapa Varietas Kacang Hijau (*Vigna radiata* L.) terhadap Produksi Kacang Hijau. *Jurnal Ilmiah Inovasi*, 14(1), 110–116.
- Widowati, W., Sutoyo, S., Karamina, H., & Fikrinda, W. (2020). Soil Amendment Impact to Soil Organic Matter and Physical Properties on the Three Soil Types after Second Corn Cultivation. *Agriculture and Food*, 5(1), 150–168.
- Wingler, A. (2018). Transitioning to the Next Phase: The Role of Sugar Signaling throughout the Plant Life Cycle. *Plant Physiology*, 176, 1075–1084.
- Zahra, N., Hafeez, M., Shaukat, K., Wahid, A., Hussain, S., Naseer, R., Raza, A., Iqbal, S., & Farooq, M. (2021). Hypoxia and Anoxia Stress: Plant Responses and Tolerance Mechanisms. *Journal of Agronomy and Crop Science*, 207(2).
- Zgallai, H., Zoghalmi, R., Annabi, M., Zarrouk, O., Jellali, S., & Hamdi, H. (2023). Mitigating Soil Water Deficit Using Organic Waste Compost and Commercial Water Retainer: A Comparative Study Under Semiarid Conditions. *Euro-Mediterranean Journal for Environmental Integration*, 1–15.