

## DAFTAR PUSTAKA

- Agati, G., E. Azzarello, S. Pollastri, and M. Tattini. 2012. Flavonoids as antioxidants in plants: Location and functional significance. *Plant Science* 196: 67-76.
- Agrios, G. N. 2005. *Plant Pathology*. Academic Press, New York.
- Agyeman, K., J.N. Berchie, E. Gaisie, and J. Adomako. 2013. Synchronization of nutrient release from *Gliricidia sepium* with nutrient uptake by Maize through biomass decomposition. *International Journal of Science and Advanced Technology* 3(3): 49-57.
- Akhter, A., K. Hage-Ahmed, G. Soja, and S. Steinkellner. 2016. Potential of *Fusarium* wilt-inducing chlamydospores, in vitro behaviour in root exudates and physiology of tomato in biochar and compost amended soil. *Plant and Soil* 406(1): 425-440.
- Alamu, E.O., M. Adesokan, S. Fawole, B. Maziya-Dixon, T. Mehreteab and D. Chikoye. 2023. *Gliricidia sepium* (Jacq.) Walp applications for enhancing soil fertility and crop nutritional qualities: A review. *Forest* 14(635): 1-13.
- Anis, S.D., D.A. Kaligis, B. Tulung, and Aryanto. 2016. Leaf quality and yield of *Gliricidia sepium* (Jacq) Steud under different population density and cutting interval in coconut plantation. *Journal of the Indonesian Tropical Animal Agriculture* 41(2): 91-98.
- Aprilia, I., A. Maharijaya, Sobir, dan S. Wiyono. 2020. Keragaman genetik dan ketahanan terhadap penyakit layu fusarium (*Fusarium oxysporum* f.sp *cepae*) bawang merah (*Allium cepa* L. var. *aggregatum*) Indonesia. *Jurnal Hortikultura Indonesia* 11(1): 32-40.
- Aroonluk, S., T. Prasertkul, S. Tongchure, C. Phitchayapon, and C. Talubnak. 2020. The utilization of leguminous *Gliricidia sepium* as natural fertilizers to improve soil fertility. *International Journal of Agricultural Technology* 16(3): 545-552.
- Arsy, F.S., M. Chatri, dan I. Des. 2023. Pemanfaatan flavonoid sebagai bahan pestisida nabati. *Jurnal Embrio* 15(1): 36-45.
- Asmuruf, F., A. Ali, dan M.H. Soekamto. 2023. Rekayasa brakata sebagai pupuk organik terhadap pertumbuhan tanaman kacang tanah (*Arachis hypogea* L.). *Agriva* 1(2): 1-7.
- Audi, R.F. 2016. Pengaruh Berbagai Macam Sumber Bahan Organik untuk Meningkatkan Pertumbuhan dan Hasil Tanaman Jagung di Lahan Pasir Pantai Samas. Fakultas Pertanian. Universitas Muhammadiyah Yogyakarta. Skripsi.
- Bahtiar, J., Kharisun, dan W.S. Suharti. 2021. Pengaruh ragam sumber silika terhadap pertumbuhan dan ketahanan tanaman padi terinfeksi *Rhizoctonia solani*. *Jurnal Pertanian Terpadu* 9(1): 26-39.
- Becklund, K., J. Powers, and L. Kinkel. 2016. Tree species effects on pathogen-suppressive capacities of soil bacteria across two tropical dry forests in Costa Rica. *Oecologia* 182: 789-802.
- Bhat, G., A. Rajakumara, S. Bhangigoudra, U. Karthik, G. Shivakumar, B.B. Madalageri, P. Noojibail, and R. Anandalakshmi. 2023. *Fusarium acutatum* is a major pathogen contributing to basal rot of onion in India. *New Disease Reports* 47: 1-4.
- Bonanomi, G., V. Antignani, C. Pane, and F. Scala. 2007. Suppression of soilborne fungal diseases with organic amendments. *Journal of Plant Pathology* 89(3): 311-324.

- Bonanomi, G., V. Antignani, M. Capodilupo, and F. Scala. 2010. Identifying the characteristics of organic soil amendments that suppress soilborne plant diseases. *Soil Biology & Biochemistry* 42: 136-144.
- BPS - Badan Pusat Statistik. 2024. *Statistik Indonesia 2024: Statistical Yearbook of Indonesia 2023 Volume 52*. Badan Pusat Statistik, Jakarta.
- BPS - Badan Pusat Statistik Kabupaten Bantul. 2024. *Kabupaten Bantul dalam Angka: Bantul Regency in Figures 2024 Volume 44*. Badan Pusat Statistik, Yogyakarta.
- Bunemann, E.K. 2015. Assessment of gross and net mineralization rates of soil organic phosphorus e A review. *Soil Biology & Biochemistry* 89: 82-98.
- Chatri, M., Jumjunidang, Z. Aini, dan F.D. Suryendra. 2022. Aktivitas antifungi ekstrak daun *Melastoma malabathricum* terhadap *Fusarium oxysporum* dan *Sclerotium rolfsii* secara *in vitro*. *Jurnal Agrotek Tropika* 10(3): 395-401.
- Ciju, R.J. 2019. *Bulbous Vegetables: Onion, Garlic, and Leek*. Agrihortico.
- Crous, P.W., L. Lombard, M. Sandoval-Denis, *et al.* 2021. *Fusarium*: more than a node or a foot-shaped basal cell. *Studies in Mycology* 98: 1-184.
- Curran-Howes and J.L. Schafer. 2019. Effect of *Casuarina equisetifolia* litter on CO<sub>2</sub> assimilation and aboveground biomass of cauliflower (*Brassica oleracea* var. *botrytis*). *Bios* 90(3): 172-182.
- Damanik, M.M.B.D., B.E. Hasibuan, Fauzi, Sarifuddin, dan H. Hamidah. 2011. *Kesuburan Tanah dan Pemupukan*. USU Press, Medan.
- Dewi, T., E. Martono, E. Hanudin, and R. Harini. 2021. Source identification and spatial distribution of heavy metal concentrations in shallot fields in Brebes Regency, Central Java, Indonesia. *Hindawi*: 1-10.
- Djoko, R. 2006. Sinkronisasi mineralisasi nitrogen dan fosfor biomasa tumbuhan dominan di lahan kering. *Buana Sains* 6(2): 137-146.
- Dutta, R., K. Jayalakshmi, S. Kumar, A. Radhakrishna, D.C. Manjunathagowda, M.N. Sharath, V.S. Gurav, and V. Mahajan. 2024. Insights into the cumulative effect of *Colletotrichum gloeosporioides* and *Fusarium acutatum* causing anthracnose-twister disease complex of onion. *Scientific Reports* 14:1-11.
- Elias, K.A. 1997. A fast and easy method to obtain pure cultures of *Fusarium oxysporum*. *Fungal Genetics Reports* 44(23): 1-3.
- Eryani, Fenti, Muswita, and U. Yelianti. 2020. Effect of green fertilizer of gamal plant (*Gliricidia sepium* (Jacq) DC.) on the growth of duku (*Lansium domesticum* Corr.). *International Journal of Ecophysiology* 2(1): 55-61.
- Eviati, Sulaeman, L. Herawaty, L. Anggria, Usman, H.E. Tantika, R. Prihatini, dan P. Wuningrum. 2023. *Analisis Kimia Tanah, Tanaman, Air, dan Pupuk*. Ed ke-3. Kementerian Pertanian Republik Indonesia, Bogor.
- Falconnier, G.N., R. Cardinael, M. Corbeels, F. Baudron, P. Chivenge, A. Couedel, A. Ripoche, F. Affholder, K. Naudin, E. Benailon, L. Rusinamhodzi, L. Leroux, B. Vanlauwe, and K.E. Giller. 2023. The input reduction principle of agroecology is wrong when it comes to mineral fertilizer use in sub-Saharan Africa. *Outlook on Agriculture*: 1-16.
- Farid, A.I.N., N. Helilusiatiningsih, and T. Handayani. 2022. Effect of planting media composition and NPK dosage on the growth and production of shallots (*Allium cepa* L.) Thailand varieties. *Journal of Soilscape and Agriculture* 1(1): 22-31.
- Fatmawaty, A. A., S. Ritawati, dan L. N. Said. 2015. Pengaruh pemotongan umbi dan pemberian beberapa dosis pupuk NPK majemuk terhadap pertumbuhan dan hasil tanaman bawang merah (*Allium ascolanium* L.). *Agrologia* 4(2): 69-77.

- Fitriana, N. and R. Susandarini. 2019. Short communication: Morphology and taxonomic relationships of shallot (*Allium cepa* L. group *aggregatum*) cultivars from Indonesia. *Biodiversitas* 20(10): 2809-2814.
- Gani, S.N., R. Yunginger, G.H. Tamutuan, dan M. Demulawa. 2023. Identifikasi karakteristik mineral magnetik berdasarkan analisis XRF di lahan pertanian sekitar Sungai Biyonga Kabupaten Gorontalo. *Jurnal Natural Scientiae* 3(2): 8-15.
- Gao, J., H. Pei, and H. Xie. 2020. Synergistic effects of organic fertilizer and corn straw on microorganisms of pepper continuous cropping soil in China. *Bioengineered* 11(1): 1258-1268.
- Ginanjjar, A., H. Yetti, dan S. Yoseva. 2016. Pemberian pupuk tricho kompos jerami jagung terhadap pertumbuhan dan produksi bawang merah (*Allium ascalonicum* L.). *JOM Faperta* 3(1): 1-11.
- Gonzalez, G., M.F. Barberena-Arias, W. Huang, and C.M. Ospina-Sanchez. 2021. Sampling methods for soil and litter fauna. Springer Nature Switzerland: 495-522.
- Gopalakrishnan, S., M.H. Beale, J.L. Ward, and R.N. Strange. 2005. Chickpea wilt: identification and toxicity of 8-O-methyl-fusarubin from *Fusarium acutatum*. *Phytochemistry* 66: 1536-1539.
- Gutierrez, J.A. and C.S. Cramer. 2005. Screening short-day onion cultivars for resistance to *Fusarium* basal rot. *HortScience* 40(1): 157-160.
- Hadiwiyono, K. Sari, and S.H. Poromarro. 2020. Yields losses caused by basal plate rot (*Fusarium oxysporum* f.sp. *cepae*) in some shallot varieties. *Caraka Tani: Journal of Sustainable Agriculture* 35(2): 250-257.
- Hamidou, S.K., K. Kadidia, O. Alassane, S. Mohamed, K.A. Itolou, S. Harouna, and C. Claudine. 2022. Pathogenic characterization of three *Fusarium* species associated with onion (*Allium cepa* L.) in Burkina Faso. *International Journal of Phytopathology* 11(3): 267-276.
- Hanafiah. 2008. *Dasar-Dasar Ilmu Tanah*. Raja Grafindo Press. Jakarta.
- Hao, J. and K. Ashley. 2021. Irreplaceable role of amendment-based strategies to enhance soil health and disease suppression in potato production. *Microorganisms* 9(1660): 1-18.
- Hatfield, R. and R.S. Fukushima. 2005. Can lignin be accurately measured? *Crop Science* 45(3): 832-839.
- Herlina, L., B. Istiaji, and S. Wiyono. 2021. The causal agent of *Fusarium* disease infested shallots in Java Islands of Indonesia. *E3S Web of Conferences* 232.
- Herlina, L., Reflinur, Sobir, A. Maharijaya, and S. Wiyono. 2019. The genetic diversity and population structure of shallots (*Allium cepa* var. *aggregatum*) in Indonesia based on *R gene*-derived markers. *Biodiversitas* 20(3): 696-703.
- Huber, D.M. and J.B. Jones. 2012. The role of magnesium in plant disease. *Plant Soil*: 1-13.
- Hunshal, C.S., H.T. Channal, A.R. Alagawadi, and R.H. Patil. 2000. Allelopathy research in agroforestry systems of South India. *Allelopathy in Ecological Agriculture and Forestry*: 209-227.
- Hussein, L.F. and A.A.M. Saadullah. 2023. DNA marker identification of *Trichoderma* and *Fusarium* level species. *IOP Conf. Series: Earth and Environmental Science* 1252: 1-12.
- Ilma, H.N.A. 2021. Pengayaan Bahan Organik dengan *Trichoderma asperellum* untuk Pengelolaan Penyakit Moler (*Fusarium* spp.) pada Bawang Merah. Pascasarjana. Fakultas Pertanian. Tesis.

- Inayati, A., L. Sulistyowati, L.Q. Aini, and E. Yusnawan. 2020. *Trichoderma virens*-Tv4 enhances growth promoter and plant defenserelated enzymes of mungbean (*Vigna radiata*) against soil-borne pathogen *Rhizoctonia solani*. *Biodiversitas* 21(6): 2410-2419.
- Islami, A.P., Y.C. Ginting, dan A. Karyanto. 2014. Menentukan konsentrasi molibdenum terbaik untuk pertumbuhan dan produksi dua varietas tanaman melon (*Cucumis melo* L.) pada sistem hidroponik. *Jurnal Agrotek Tropika* 2(3): 347-352.
- Istomo dan C. Susanti. 2023. Pengaruh kualitas tempat tumbuh terhadap pertumbuhan cemara udang (*Casuarina equisetifolia* L.) di Pantai Cemara Tuban. *Jurnal Hutan Tropika* 18(2): 236-243.
- Jumardin, A.S. Rizal, Minarti, A.M. Thariq, N. Turayni, dan Wahyullah. 2023. Identifikasi unsur tanah litosol dengan metode XRF (*X-Ray Fluorescence*) dan FTIR (*Fourier Transform Infra Red*) berdasarkan titik elevasi di Desa Samangki Kecamatan Simbang Kabupaten Maros. *Karst: Jurnal Pendidikan Fisika dan Terapannya* 6(1): 33-41.
- Kalman, B., D. Abraham, S. Graph, R. Perl-Treves, Y.M. Harel, and O. Degani. 2020. Isolation and identification of *Fusarium* spp., the causal agents of onion (*Allium cepa*) basal rot in Northeastern Israel. *Biology* 9(69): 1-19.
- Karina, T.P., W. Arianto, dan Wiryono. 2022. Laju dekomposisi serasah daun di Kawasan hutan dengan tujuan khusus (KHDTK) Universitas Bengkulu, Bengkulu Utara. *Jurnal of Global Forest and Environmental Science* 2(2): 106-112.
- Karlsson, I., W. Edel-Hermann, N. Gautheron, M.B. Durling, A. Kolseth, C. Steinberg, P. Persson, and H. Friberg. 2016. Genus-specific primers for study of *Fusarium* communities in field samples. *Applied and Environmental Microbiology* 82(2): 491-501.
- Kasi, P.D., S. Cambaba, I.N. Surya, dan Faisal. 2020. Analisis unsur hara karbon organik dan nitrogen pada tanah sawah di Kecamatan Seko, Kabupaten Luwu Utara. *Cokroaminoto Journal of Biological Science* 2(1): 12-16.
- Kasno, A. dan D.S. Effendi. 2013. Penambahan klorida dan bahan organik pada beberapa jenis tanah untuk pertumbuhan bibit kelapa sawit. *Jurnal Littri* 19(2): 78-87.
- Klein, E., J. Katan, and A. Gamliel. 2016. Soil suppressiveness by organic amendment to *Fusarium* disease in cucumber: effect on pathogen and host. *Phytoparasitica* 44(2): 239-249.
- Kumar, V., D.J. Mills, J.D. Anderson, and A.K. Matto. 2004. An alternative agriculture system is defined by a distinct expression profile of select gene transcripts and proteins. *The Proceedings of the National Academy of Sciences (PNAS)* 101(29):10535-10540.
- Kurniasih, R. 2015. Pengaruh Pemupukan Nitrogen dan Kalium Terhadap Serapan Hara dan Penyakit Layu *Fusarium* pada Bawang Merah. Fakultas Pertanian. Universitas Gadjah Mada. Tesis.
- Lemanceau, P. and C. Alabouvette. 2008. Suppression of fusarium wilts by fluorescent pseudomonads: Mechanisms and applications. *Biocontrol Sci. Technol* 3:219–234.
- Leslie, J.F. and B.A. Summerell. 2006. *The Fusarium Laboratory Manual*. 1<sup>st</sup> ed. Blackwell Publishing, Iowa USA.
- Lestari, A., Henri, E. Sari, and T. Wahyuni. 2021. Microscopic characterization of *Fusarium* sp. associated with yellow disease of pepper (*Piper nigrum* L.) in South

- Bangka Regency. *Planta Tropika: Jurnal Agrosains (Journal of Agro Science)* 9(1): 1-9.
- Lestiyani, A., A. Wibowo, S. Subandiyah, C. Gambey, and S. Harper. 2016. Identification of *Fusarium* spp., the causal agent of twisted disease shallot. *Acta Horticulturae* 1128: 155-160.
- Lestiyani, A., A. Wibowo, and S. Subandiyah. 2021. Pathogenicity and detection of phytohormone (gibberellic acid and indole acetic acid) produced by *Fusarium* spp. that causes twisted disease in shallot. *Jurnal Proteksi Tanaman* 5(1): 24-33.
- López-Moral, A., B.I. Antón-Domínguez, M. Lovera, O. Arquero, A. Trapero, and C. Agustí-Brisach. 2024. Identification and pathogenicity of *Fusarium* species associated with wilting and crown rot in almond (*Prunus dulcis*). *Scientific Reports* 14: 1-16.
- Ma, T., C. Yang, F. Cai, and R. Osei. 2023. Molecular identification and characterization of *Fusarium* associated with walnut branch blight disease in China. *Pathogens* 12: 1-12.
- Malone, Z., A.A. Berhe, and R. Ryals. 2023. Impacts of organic matter amendments on urban soil carbon and soil quality: A meta-analysis. *Journal of Cleaner Production* 419: 1-13.
- Matrood, A.A.A. and A. Rhouma. 2021. *Penicillium* and *Aspergillus* species characterization: adaptation to environmental factors and sensitivity to aqueous medicinal plants extracts. *Review of Plant Studies* 8(1): 1-11.
- Mesa, R.B.C.D., I.R. Espinosa, M.C.R.R. Agcaoili, M.A.T. Calderon, M.V.BB. Pangilinan, J.C.D. Padua, and T.E.E.d. Cruz. 2020. Antagonistic activities of needle-leaf fungal endophytes against *Fusarium* spp. *MycosAsia* 6: 1-11.
- Mirhendi, H., A. Ghiasian, H.F. Vismer, M.R. Asgary, N. Jalalizand, M.C. Arendrup, and K. Makimura. 2010. Preliminary identification and typing of pathogenic and toxigenic *Fusarium* species using restriction digestion of ITS1-5.8S rDNA-ITS2 region. *Iranian Journal Publication Health* 39(4): 35-44.
- Mohammed, A.L., E.K. Nartey, F. Addai, S. Arthur, and E. Bawah. 2023. Effect of *Gliricidia sepium* leafy biomass and NPK (15:15:15) fertiliser on the growth and yield of tomato, *Solanum lycopersicum* (L.). *Journal of Applied Life Sciences and Environment* 56(2): 273-288.
- Mooshammer, M., W. Wanek, I. Hammerle, L. Fuchslueger, F. Hofhansl, A. Knoltsch, J. Schneckner, M. Takriti, M. Watzka, B. Wild, K.M. Keiblinger, S. Zechmeister-Boltenstern, and A. Richter. 2014. Adjustment of microbial nitrogen use efficiency to carbon:nitrogen imbalances regulates soil nitrogen cycling. *Nature Communications* 5: 1-7.
- Nam, M. H., S.K. Jeong, Y.S. Lee, J.M. Choi, and H.G. Kim. 2006. Effects of nitrogen, phosphorus, potassium and calcium nutrition on strawberry anthracnose. *Plant Pathology* 55: 246-249.
- Namira, N., R. Rahmaniah, dan A. Wahyuni. 2021. Identifikasi unsur penyusunan tanah Desa Babange Kabupaten Bantaeng menggunakan metode *X-Ray Fluorescence* (Xrf). *Teknosains: Media Informasi Sains dan Teknologi* 15(3): 280.
- Nisa, C., M. Idris, and Rahmadina. 2024. The effect of gamal leaf (*Gliricidia sepium* (Jacq.) Kunth ex Walp)-based liquid organic fertilizer on the vegetative growth of lettuce (*Lactuca sativa* L.). *Sciscitatio* 5(1): 20-27.
- Nitschke, E., M. Nihlgard, and M. Varrelmann. 2009. Differentiation of eleven *Fusarium* spp. isolated from sugar beet, using restriction fragment analysis of a polymerase

- chain reaction–amplified translation elongation factor 1 $\alpha$  gene fragment. *Mycology* 99(8): 921-929.
- Nosratabadi, M., R. Kachuel, S. Rezaie, and R.B. Harchegani. 2018. Beta-tubulin gene in the differentiation of *Fusarium* species by PCR-RFLP analysis. *Le Infezioni in Medicina* 1:52-60.
- Nurmasyitah, Sudirman, Hendrival, M.M. Munauwar, dan N.P. Putri. 2023. Pemanfaatan *Trichoderma* sp pada tanaman bawang merah dengan benih true shallot seed (TSS) varietas sangren di Desa Awe Kecamatan Syamtalira Aron Kabupaten Aceh Utara. *Jurnal Nauli* 2(3): 1-7.
- Pareek, S., N.A. Sagar, S. Sharma, and V. Kumar. 2018. Onion (*Allium cepa* L.). *Fruit and Vegetable Phytochemicals: Chemistry and Human Health* 2: 1145-1161.
- Perković, J., N. Major, D. Ban, D. Cvitan, and S.G. Ban. 2021. Shallot species and subtypes discrimination based on morphology descriptors. *Plants* 10(60): 1-17.
- Permana, D.F.W., A.H. Mustofa, L. Nuryani, P.S. Kristiaputra, dan Y. Alamudin. Budidaya bawang merah di Kabupaten Brebes. *Jurnal Bina Desa* 3(2): 125-132.
- Poromarto, S.H., Supyani, Supriyadi, S.A. Indriani, and Hadiwiyono. 2021. *Trichoderma* and *Bacillus* as combined biocontrol agent of moler disease on shallots. *Advances in Biological Sciences Research* 13: 92-95.
- Pranata, Y. 2018. Uji efektivitas ekstrak daun gamal (*Gliricidia maculata*) sebagai biofungisida terhadap cendawan patogen *Colletotrichum capsica*, *Fusarium oxysporum*, dan *Cercospora capsici* penyebab penyakit pada tanaman cabai merah (*Capsicum annum* L.) secara *in-vitro*. Fakultas Pertanian. Universitas Medan Area. Skripsi.
- Putra, C.R., I. Wahyudi, dan U. Hasanah. 2015. Serapan N (Nitrogen) dan produksi bawang merah (*Allium ascallonicum* L) varietas Lembah Palu akibat pemberian bokashi *Titonia* (*Titonia diversifolia*) pada entisol guntarano. *E-Journal Agrotekbis* 3(4): 448-454.
- Putra, J.P.H., K.P. Wicaksono, dan N. Herlina. 2017. Studi sistem tumpangsari jagung (*Zea mays* L.) dan bawang prei (*Allium porrum* L.) pada berbagai jarak tanam. *Jurnal Produksi Tanaman* 5(5): 748-755.
- Putri, N.H., A. Wibowo, and T. Joko. 2023. Potential of compost enriched with *Bacillus velezensis* B-27 and *Bacillus cereus* RC76 for the management of twisted disease on shallots. *Jurnal Perlindungan Tanaman Indonesia* 27(2): 93-102.
- Qadri, R. Semaun, dan B. Nohong. 2015. Kandungan kalsium dan fosfor kombinasi tumpi jagung dan jerami kacang tanah yang terfermentasi. *Jurnal Galung Tropika* 4(1): 28-35.
- Rahayu, E. dan N.B.V. Ali. 2004. Bawang Merah. Penebar Swadaya, Jakarta.
- Rahayu, Mujiyo, and R.U. Arini. 2018. Land suitability evaluation of shallot (*Allium ascalonicum* L.) at production centres in Losari District, Brebes. *Journal of Degraded and Mining Lands Management* 6(1): 1505-1511.
- Rahmaniah, R., Reskywijaya, R., Wahyuni, A. S., dan Jayadi, H. 2020. Analisis mineral tanah rawan longsor menggunakan *X-Ray Diffraction* di Desa Sawaru Kabupaten Maros. *Jambura Geoscience Review* 2(1): 41-49.
- Rahmawati, A.S. 2018. Aplikasi Bahan Organik dan *Trichoderma* spp. untuk Menekan Perkembangan Penyakit Moler pada Bawang Merah. Fakultas Pertanian. Universitas Gadjah Mada. Skripsi.
- Ramadhan, S., V.M.A. Tiwow, dan I. Said. 2016. Analisis kadar unsur nitrogen (N) dan posforus (P) dalam lamun (*Enhalus acoroides*) di wilayah perairan pesisir

- Kabonga Besar Kecamatan Banawa Kabupaten Donggala. *Jurnal Akademi Kimia* 5(1): 37-43.
- Ravindran, P.N. 2017. *The Encyclopedia of Herbs and Spices Volume 1*. Bell and Bain Ltd, Glasgow, London, UK.
- Robert, N., M. Tanguy, J. Riss, and R. Gallois. 2014. Effects of ramial chipped wood amendments on weed control, soil properties and tomato crop yield. *Acta Horticulture* 1018: 383-390.
- Roidah, I.S. 2013. Manfaat penggunaan pupuk organik untuk kesuburan tanah. *Jurnal Universitas Tulungagung Bonorowo* 1(1): 30-42.
- Rutkowska, B., W. Szulc, E.S. Fabisiak, and N. Pior. 2017. Prediction of molybdenum availability to plants in differentiated soil conditions. *Plant Soil Environment* 63(11): 491-497.
- Salli, M.K, Y.I. Ismael, and Y. Lewar. 2015. Study of apical shoot pruning and KNO<sub>3</sub> fertilization on tomato plant yield. *Agricultural Journal of the Kupang State Agricultural Polytechnic* 4(2): 85- 98.
- Saraswathi, T., V.A. Sathiyamurthy, N.A. Tamilselvi, and S. Harish. 2017. Review on *Aggregatum* onion (*Allium cepa* L. var. *aggregatum* Don.). *International Journal of Current Microbiology and Applied Sciences* 6(4): 1649-1667.
- Sayed, W.F., H.M. El-Sharouny, H.H. Zharan, and W.M. Ali. 2002. Composition of *Casuarina* leaf litter and its influence on *Frankia-Casuarina* symbiosis in soil. *Folia Microbiol* 47(4): 429-434.
- Schlatter, D., L. Kinkel, L. Thomashow, D. Weller, and T. Paulitz. 2017. Disease suppressive soils: New insight from the soil microbiome. *Phytopathology* 107: 1284-1297.
- Shahrajabian, M.H., W. Sun, and Q. Cheng. 2020. Chinese onion, and shallot, originated in Asia, medicinal plants for healthy daily recipes. *Notulae Scientia Biologicae* 12(2): 197-207.
- Sholihah, A., A. Sugianto, and M.W. Lestari. 2023. Compost of peanuts residue and rice straw compost on soil Nitrogen forms and upland rice yield. *Sains Tanah – Journal of Soil Science and Agroclimatology* 20(2): 187-198.
- Siddiqui, S., S.A. Alamri, S.A. Alrumman, M.K. Meghvansi, K.K. Chaudhary, M. Kilany, and K. Prasad. 2015. Role of soil amendment with micronutrients in suppression of certain soilborne plant fungal disease: A review. *Soil Biology* 46: 363-380.
- Sitorus, A.R., Ismadi, R.S. Handayani, dan M.Y. Nurdin. 2023. Respon pertumbuhan dua varietas tanaman bawang merah (*Allium ascalonicum* L.) akibat pengaplikasian beberapa jenis pupuk. *Jurnal Ilmiah Mahasiswa Agroekoteknologi* 2(1): 5-11.
- Sittisart, P., S. Yossan, and P. Prasertsan. 2017. Antifungal property of chili, shallot and garlic extracts against pathogenic fungi, *Phomopsis* spp., isolated from infected leaves of para rubber (*Hevea brasiliensis* Muell. Arg.). *Agriculture and Natural Resources* 51: 485-491.
- Somala, M.U.A. 2015. Nutrient Budgeting and Soil Bacterial Diversity of Shallot (*Allium cepa* L. *Aggregatum* group) in Central Java and East Java. Universitas Gadjah Mada. Thesis.
- Sopiana, R., R.A. Suwignyo, M.U. Harun, and Susilawati. 2023. Seedling performance, growth and yield of onion sown by direct seeding in tropical riparian soil. *Agrivita Journal of Agricultural Science* 45(1): 11-19.

- Soumare, M.D., P.N.S. Mnkeni, and M. Kouma. 2002. Effects of *Casuarina equisetifolia* compostd litter and ramial-wood chips on tomato growth and soil properties in Niayes, Senegal. *Biological Agriculture & Gorticulture* 20(2): 111-123.
- Su, Y., Z. He, Y. Yang, S. Jia, M. Yu, X. Chen, and A. Shen. 2020. Linking soil microbial community dynamics to straw-carbon distribution in soil organic carbon. *Scientific Reports* 10(5526): 1-12.
- Sufaati, S., dan R.E.D. Ayuni. 2009. Peranan fungi mikoriza arbuskular (FMA) dan serasah daun gamal (*Gliricidia sepium* L.) terhadap pertumbuhan bawang merah (*Allium cepa* L.) pada tanah podzolik merah kuning. *Jurnal Biologia Papua* 1(1): 1-6.
- Suhaili. 2023. Budi Daya Tanaman Bawang Merah Organik. Penerbit NEM. Pekalongan, Jawa Tengah.
- Suliasih, S. Widawati, dan A. Muharram. 2010. Aplikasi pupuk organik dan bakteri pelarut fosfat untuk meningkatkan pertumbuhan tanaman tomat dan aktivitas mikrob tanah. *Jurnal Hortikultura* 20(30): 241-246.
- Sun, W., M.H. Shahrajabian, and Q. Cheng. 2019. The insight and survey on medicinal properties and nutritive components of shallot. *Journal of Medicinal Plants Research* 13(18): 452-457.
- Sundari, D., A. Wibowo, T. Joko, A. Widiastuti, and A.B. Pustika. 2023. Diversity of shallot rhizomicrobiome and twisted disease suppression with the application of *Bacillus* spp. and *Trichoderma asperellum*. *Jurnal Fitopatologi Indonesia* 19(4): 156-165.
- Suntari, R., S.M. Hapsari, dan S. Kurniawan. 2023. Upaya peningkatan serapan unsur hara dan hasil bawang merah di inceptisols Malang melalui optimalisasi dosis pupuk majemuk. *Agrika: Jurnal Ilmu-Ilmu Pertanian* 17(1): 104-118.
- Supriyadi, Supyani, S.H. Poromarto, and Hadiwiyono. 2021. Moler disease and cultivation practiced by shallot farmers in Brebes Central Java. *IOP Conf. Series: Earth and Environmental Science* 883(1): 1-5.
- Suryadi, Y., D.N. Susilowati, I.M. Samudra, A. Akhdiya, J. Kosasih, and S. Aminah. 2023. Effect of antagonistic bacteria and its formulation to control fusarium wilt disease on shallot. *E3S Web of Conferences* 373: 1-6.
- Sutardi. 2017. Kajian *minus one test* dan kesuburan lahan pasir untuk budidaya tanaman bawang merah. *Jurnal Pengkajian dan Pengembangan Teknologi Pertanian* 20(1): 25-34.
- Syafruddin, A. Irmadamayanti, dan Saidah. 2018. Adaptasi bawang merah dan kacang tanah pada lahan kering di Parigi Moutong, Sulawesi Selatan. *Jurnal Pengkajian dan Pengembangan Teknologi Pertanian* 21(1): 25-35.
- Syahbudin, A., D.T. Adriyanti, H. Bai, I. Ninomiya, and K. Osozawa. 2013. New social values on the establishment of cemara udang (*Casuarina equisetifolia*) in the Southern Coast of Yogyakarta. *Procedia Environmental Sciences* 17: 79-88.
- Taj-Aldeen, S.J., J. Gene, I.A. Bozom, W. Buzina, J.F. Cano, and J. Guarro. 2006. Gangrenous necrosis of the diabetic foot caused by *Fusarium acutatum*. *Medical Mycology* September 44: 547-552.
- Tayyab, M., W. Islam, C.G. Lee, Z. Pang, F. Khalil, S. Lin, W. Lin, and H. Zhang. 2019. Short-term effects of different organic amendments on soil fungal composition. *Sustainability* 11(198): 1-13.

- Teshika, J.D., AM. Zakariyyah, Z. Toorabally, G. Zengin, K.RR. Rengasamy, S.K. Pandian, and F.M. Mahomoodally. Critical Reviews in Food Science and Nutrition; 1-76.
- Tilahun, T., S. Abate, T. Tilahun, and M. Taye. 2024. Morphological variability of *Fusarium oxysporum* f. sp. *capsici* (FOC) isolates infecting pepper (*Capsicum annum* L.) landraces in West Gojjam Zone, Ethiopia. Cogent Food & Agriculture 10(1): 1-15.
- Tripathi, R., R. Tewari, K.P. Singh, C. Keswani, T. Minkina, A.K. Srivastava, U.D. Corato, and E. Sansinenea. 2022. Plant mineral nutrition and disease resistance: A significant linkage for sustainable crop protection. Frontiers in Plant Science 13: 1-12.
- Tuhuteru, S., E. Sulistyaningsih, dan A. Wibowo. 2019. Aplikasi *Plant Growth Promoting Rhizobacteria* dalam meningkatkan produktivitas bawang merah di lahan pasir pantai. Jurnal Agronomi Indonesia 47(1): 53-60.
- Vanholme, R., B. Demedts, K. Morreel, J. Ralph, and W. Boerjan. 2010. Lignin biosynthesis and structure. Plant Physiology 153: 895-905.
- Wafaey, A.A., S.S. El-Hawary, M.F. Abdelhameed, M.A. El Raey, S.S. Abdelrahman, A.M. Ali, and F.N. Kirolos. 2024. Green synthesis of zinc oxide nanoparticles using ethanolic extract of *Gliricidia sepium* (Jacq.) Kunth. ex. Walp., stem: Characterizations and their gastroprotective effect on ethanol-induced gastritis in rats. Bioorganic Chemistry 145.
- Wang, P., H. Wang, C. Cai, H. Wang, F. Kong, J. Yuan, H. Dai, L. Li, and W. Mei. 2020. Three new compounds from the litters of *Casuarina equisetifolia*. Phytochemistry Letters 35: 58-62.
- Wang, Y., J. Li, M. Li, X. Jia, Y. Cai, M. Hu, Q. Zhang, P. Cheng, S. Lin, W. Lin, H. Wang, and Z. Wu. 2023. Effect of continuous planting on *Casuarina equisetifolia* rhizosphere soil physicochemical indexes, microbial functional diversity and metabolites. Frontiers in Plant Science 14: 1-12.
- Warrier, K.C.S., A. Suganthi, and B.G. Singh. 2013. A new record of abnormal phylloclad modification in *Casuarina equisetifolia*. International Journal of Agricultural Science Research 2(1): 8-11.
- Whitman, T., S. DeCiucies, K. Hanley, A. Enders, J. Woollet, and J. Lehmann. 2021. Microbial community shifts reflect losses of native soil carbon with pyrogenic and fresh organic matter additions and are greatest in low-carbon soils. Applied and Environmental Microbiology 87(8): 1-16.
- Wibowo, A., E. Kaeni, T. Toekidjo, S. Subandiyah, E. Sulistyaningsih, and S. Harper. 2016. Responses of four shallot (*Allium cepa* L. Aggregatum Group) cultivars to moler disease (*Fusarium* spp.) after bulb treatment. Acta Horticulturae 1443: 69-76.
- Wibowo, A., I.A. Santika, L.M. Syafitri, A. Widiastuti, S. Subandiyah, and S. Harper. 2023. Incidence of twisted disease and cultivation practice of shallot farmers in Bantul coastal area, Yogyakarta, Indonesia. Journal of Tropical Plant Pests Disease 23(1): 23-30.
- Widodo, A.S., S. Hartono, D.H. Darwanto, dan Masyhuri. 2018. Optimalisasi usahatani konservasi lahan pantai di Kabupaten Bantul. Jurnal Ekonomi Kuantitatif Terapan 11(2): 174-180.

- Wijoyo, R.B., E. Sulistyarningsih, and A. Wibowo. 2020. Growth, yield and resistance responses of three cultivars on true seed shallots to twisted disease with salicylic acid application. *Caraka Tani: Journal of Sustainable Agriculture* 35(1): 1-11.
- Woudenberg, J.H.C., M.M. Aveskamp, J. de Gruyter, A.G. Spiers, and P.W. Crous. 2009. Multiple *Didymella* teleomorphs are linked to the *Phoma clematidina* morphotype. *Persoonia* 22: 56-62.
- Xiong, W., R. Li, Y. Ren, C. Liu, Q. Zhao, H. Wu, A. Jousset, and Q. Shen. 2017a. Distinct roles for soil fungal and bacterial communities associated with the suppression of vanilla *Fusarium* wilt disease. *Soil Biology & Biochemistry* 107: 198-207.
- Xiong, W., S. Guo, A. Jousset, Q. Zhao, H. Wu, R. Li, G.A. Kowalchuk, and Q. Shen. 2017b. Bio-fertilizer application induces soil suppressiveness against *Fusarium* wilt disease by reshaping the soil microbiome. *Soil Biology & Biochemistry* 114: 238-247.
- Yang, Y., H. Liu, Y. Dai, H. Tian, W. Zhou, and J. Lv. 2021. Soil organic carbon transformation and dynamics of microorganisms under different organic amendments. *Science of the Total Environment* 750: 1-9.
- Yeshiwas, Y., Z. Temsegen, M. Wubie, and T. Wagneu. 2020. Effects of varieties and different environments on growth and yield performance of shallot (*Allium cepa* var. *aggregatum*). *Hindawi International Journal of Agronomy*: 1-12.
- Yunita, T.E., Dinar, dan I. Marina. 2020. Intensitas penggunaan lahan kering pada tanaman jagung (*Zea mays*) dan faktor-faktor yang mempengaruhinya. *Jurnal Ilmu Pertanian dan Peternakan* 8(2): 39-45.
- Zhang, J., X. Liu, and Q. Wang. 2023. Effects of maize straw biochar application on soil physical properties, morph-physiological attributes, yield and water use efficiency of greenhouse tomato. *International Journal of Agricultural and Biology Engineering* 16(3): 151-159.
- Zhang, L., C. Tang, J. Yang, R. Yao, X. Wang, W. Xie, and A. Ge. 2023. Salinity-dependents potential soil fungal decomposers under straw amendment. *Science of the Total Environment* 891: 1-11.
- Zhang, S., Y. Fang, Y. Luo, Y. Li, T. Ge, Y. Wang, H. Wang, B. Yu, X. Song, J. Chen, J. Zhou, Y. Li, and S.X. Chang. 2021. Linking soil carbon availability, microbial community composition and enzyme activities to organic carbon mineralization of a bamboo forest soil amended with pyrogenic and fresh organic matter. *Science of the Total Environment* 801: 1-13.