

DAFTAR PUSTAKA

- Alemu, M.M. 2015. Ecological benefits of trees as windbreaks and shelterbelts. *International Journal of Ecosystems*. 6 (1): 10-13.
- Al-Fahdawi, A.J.J., Allawi, M.M. 2019. Impact of biofertilizers and nano potassium on growth and yield of eggplant (*Solanum melongena* L.). *Plant Archives*. 19 (2): 1809-1815.
- AL-Khazrji, O.A.R., Al-Saedi, S.A., Alkhateb, B.A.A.H. 2020. Leaf area, proline, and relative water content in the leaves of maize plant under the effect of soil bacteria, organic matter and water stress. *Plant Archives*. 20 (2): 405-412.
- Almeselmani, M., Deshmukh, P.S., Chinnusamy, V. 2012. Effects of prolonged high temperature stress on respiration, photosynthesis, and gene expression in wheat (*Triticum aestivum* L.) varieties differing in their thermotolerance. *Plant Stress*. 6 (1): 25-32
- Amiri Rodan, M., Hassandokht, M.R., Sadeghzadeh-Ahari, D., Mousavi, A. 2020. Mitigation of drought stress in eggplant by date straw and plastic mulches. *Journal of the Saudi Society of Agricultural Sciences*. 19:492–498. <https://doi.org/10.1016/j.jssas.2020.09.006>
- Anggraini, N., Faridah, E., Indrioko, S. 2015. Pengaruh cekaman kekeringan terhadap perilaku fisiologis dan pertumbuhan bibit *black locust* (*Robinia pseudoacacia*). *Jurnal Ilmu Kehutanan*. 9 (1): 40-56.
- Anjum, S.A., Xie, X., Wang, L., Saleem, M.F., Man, C., Lei, W. 2011. Morphological, physiological, and biochemical responses of plants to drought stress. *African Journal of Agricultural Research*. 6 (9): 2026-2032
- Astutik, D. 2017. Pengaruh kerapatan jagung manis (*Zea mays saccharata*) sebagai tanaman pagar (*shelter*) terhadap pertumbuhan dan hasil dua kultivar kacang hijau (*Vigna radiata* L.) di lahan pasir pantai Samas, Bantul. Tesis. Universitas Gadjah Mada. Yogyakarta.
- Astutik, D., Yudhono, P., Waluyo, S. 2017. The growth of two cultivars mung bean under different sweet corn shelter density in sandy soil coastal area. *Ilmu Pertanian (Agricultural Science)*. 2 (3): 106-111.
- Astutik, D., Yudhono, P., Waluyo, S. 2020. Karakteristik perakaran tanaman kacang hijau pada tanah pasir dengan tingkat kerapatan tanaman pagar jagung manis. *Jurnal Pertanian Agros*. 2 (2): 158-167.
- Bader, B.R., Abood, M.A., Aldulaimy, S.E.H., Al-Mehmdya, S.M.H., Hamdi, G.J. 2020. Effect of water deficit and foliar application of amino acids on growth and yield of eggplant irrigated by two drip systems under greenhouse conditions. *Journal of Agricultural Science*. 2 (31): 131-138. <https://doi.org/10.15159/JAS.20.20>
- Baker, T.P., Moroni, M.T., Mendham, D.S., Smith, R., Hunt, M.A. 2018. Impacts of windbreak shelter on crop and livestock production. *Crop Pasture Science*. 69:785-796. <https://doi.org/10.1071/CP17242>
- Blum, A. 2017. Osmotic adjustment is a prime drought adaptive engine in support of plant production. *Plant, Cell and Environment*. 40: 4-10. <https://doi.org/10.1111/pce.12800>
- BPS. 2021. Statistik Hortikultura. Jakarta. 05100/2202 ISSN 2745-679X

- Brandle, J.R., Hodges, L., Tyndall, J., Sudmeyer, R.A. 2009. Windbreak practices in Garret HE, Rietveld WE, Fisher RF North American Agroforestry: an Integrated Science and Practice. American Society of Agronomy Madison: 75-104.
- Brandle, J.R., Hodges, L., Zhou, X.H. 2004. Windbreaks in North American agricultural systems. *Agroforestry Systems*. 61:65-79.
- Budiyanto, G. 2011. Teknologi konservasi lanskap gumuk pasir Parangtritis, Bantul, DIY. *Jurnal Lanskap Indonesia*. 3 (2): 97-101.
- Cakir, Z., Balkaya, A., Saribas, S., Kandemir, D. 2017. The morphological diversity and fruit characterization of Turkish eggplant (*Solanum melongena* L.) Populations. *Journal of Crop Breeding and Genetics*. 3 (2): 34-44.
- Canatoy, R.C. 2018. Dry matter yield and NPK update of sweet corn as influenced by fertilizer application. *Asian Journal of Soil Science and Plant Nutrition*. 3 (3): 1-10.
- Chakraborty, K., Singh, A. L., Kalariya, K. A., Goswami, N., Zala, P. V. 2015. Physiological responses of peanut (*Arachis hypogea* L.) cultivars to water deficit stress: status of oxidative stress and antioxidant enzyme activities. *Acta Botanica Croatica*. 74 (1): 123-142
- Cleugh, H.A., Miller, J.M., Böhm, M. 1998. Direct mechanical effects of wind on crops. *Agroforestry Systems*. 41:85-112.
- Cordeiro, Y.E.M., Pinheiro, H.A., Filho, B.G.S. 2009. Physiological and morphological responses of young mahogany (*Swietenia macrophylla* King) plants to drought. *Forest Ecology Management*. 258: 1449-1455.
- Dai, K., Bergot, A., Liang, C., Xiang, W.-N., Huang, Z. 2015. Environmental issues associated with wind energy – A review. *Renewable Energy*. 75:911–921. <https://doi.org/10.1016/j.renene.2014.10.074>
- Das, M., Barua, N. 2013. Pharmacological activities of *Solanum melongena* Linn. (brinjal plant). *International Journal Green Pharmacy*. 7:274-277. <https://doi.org/10.4103/0973-8258.122049>
- Dheng, R., Li, Y., Zhangm S., Wang, W., Shi, X. 2011. Assessment of the effects of shelterbelt on the soil temperature regional scale based on MODIS data. *Journal of Forestry Research*. 22 (1): 65-70.
- Duanghathaipornsuk, S., Farrell, E.J., Alba-Rubio, A.C., Zelenay, P., Kim, D.-S., 2021. Detection technologies for reactive oxygen species: fluorescence and electrochemical methods and their applications. *Biosensors*. 11, 30: 1-41 <https://doi.org/10.3390/bios11020030>
- Ermansyah, Ariska N. 2022. Efektivitas dosis pupuk kandang terhadap pertumbuhan dan hasil tanaman kangkung. *Jurnal Sosial dan Sains*. 2 (2): 216-222.
- FAO. 1989. Title: Arid Zone Forestry: A Guide for Field Technicians. ISBN 92-5-102809-5, Delle Terme di Caracalla, 00100 Rome, Italy.
- Faozi, K., Yudono, P., Indradewa, D., Ma'as, A. 2019. Effectiveness of phosphorus fertilizers on soybean plants in coastal sands soil. *IOP Conference Series: Earth and Environmental Science* 250 012060.
- Febriyono, R., Susilowati, Y.E., Suprpto, A. 2017. Peningkatan hasil tanaman kangkung darat (*Ipomoea reptans* L) melalui perlakuan jarak tanam dan

- jumlah tanaman per lubang. Jurnal Ilmu Pertanian Tropika dan Subtropika. 2 (1): 22- 27.
- Ferdiansyah, E., Handoko, H., Impron, I. 2020. Model simulasi pertumbuhan tanaman jagung manis hibrida pada jarak tanam yang berbeda. Jurnal Ilmu Pertanian Indonesia. 25:396–404. <https://doi.org/10.18343/jipi.25.3.396>
- Fiasconaro, M.L., Lovato, M.E., Antolín, M.C., Clementi, L.A., Torres, N., Gervasio, S., Martín, C.A. 2019. Role of proline accumulation on fruit quality of pepper (*Capsicum annuum* L.) grown with a K-rich compost under drought conditions. Scientia Horticulturae 249: 280–288. <https://doi.org/10.1016/j.scienta.2019.02.002>
- Fikri, M.S., Indradewa, D., Putra, E.T.S. 2015. Pengaruh pemberian kompos limbah media tanam jamur pada pertumbuhan dan hasil kangkung darat. Vegetalika. 4 (2): 36-47.
- Firmansyah, Argosubekti, N., 2020. A review of heat stress signaling in plants. IOP Conf. Ser.: Earth Environ. Sci. 484, 012041. <https://doi.org/10.1088/1755-1315/484/1/012041>
- Fitriani, S.R., Daningsih, E., Yokhebed. 2017. Pengaruh perbedaan konsentrasi fosfor terhadap pertumbuhan kangkung darat (*Ipomoea reptans*) pada hidroponik super mini. Jurnal Khatulistiwa. 6 (5): 1-10.
- Furlan, A.L., Bianucci, E., Giordano, W., Castro, S., Becker, D.F. 2020. Proline metabolic dynamics and implications in drought tolerance of peanut plants. Plant Physiology and Biochemistry 151:566–578. <https://doi.org/10.1016/j.plaphy.2020.04.010>
- Gao, Y., Guo, Y.K., Lin, S.H., Fang, Y.Y., Bai, J.G. 2010. Hydrogen peroxide pretreatment alters the activity of antioxidant enzyme protects chloroplast ultrastructure in heat stressed cucumber leaves. Scientia Horticulturae. 126: 20-26. <https://doi.org/10.1016/j.scienta.2010.06.006>
- Gardiner, B., Berry, P., Moulia, B. 2016. Review: Wind impacts on plant growth, mechanics, and damage. Plant Science. 245:94–118. <https://doi.org/10.1016/j.plantsci.2016.01.006>
- Ghaderi, N., Siosemardeh, A. 2011. Response to drought stress of two strawberry cultivars (cv. Kurdistan and Selva). Horticulture Environment Biotechnology. 52: 6–12. <https://doi.org/10.1007/s13580-011-0019-6>
- Gosavi, G.U., Jadhav, A.S., Kale, A.A., Gadakh, S.R., Pawar, B.D., Chimote, V.P. 2014. Effect of heat stress on proline, chlorophyll content, heat shock proteins and antioxidant enzyme activity in sorghum (*Sorghum bicolor*) at seedlings stage. Indian Journal of Biotechnology. 12:356-363
- Guzbuz, N., Uluisik, S., Frary, A., Doganlar, S. 2018. Health benefits and bioactive compounds of eggplant. Food Chemistry. 268: 602-610.
- Habibie, H. 2020. Pengaruh pemberian pupuk cangkang dan pupuk organik cair hormonik terhadap pertumbuhan dan hasil tanaman terong ungu (*solanum melongena* L.) varietas Yuvita F1. Jurnal Agriflor. 19 (1): 135-148. <https://doi.org/10.31293/af.v19i1.4622>
- Hanson, P.M., Yang, R.-Y., Tsou, S.C.S., Ledesma, D., Engle, L., Lee, T.-C. 2006. Diversity in eggplant (*Solanum melongena*) for superoxide scavenging

- activity, total phenolics, and ascorbic acid. *Journal of Food Composition and Analysis*. 19: 594–600. <https://doi.org/10.1016/j.jfca.2006.03.001>
- Hasanuzzaman, Md., Shabala, L., Brodribb, T.J., Zhou, M. Understanding physiological and morphological traits contributing to drought tolerance in barley. 2018. *Journal Agronomy Crop Science*. 00: 1-12. <https://doi.org/10.1111/jac.12307>
- Hasibunan, A.S.Z. 2015. Pemanfaatan bahan organik dalam perbaikan beberapa sifat tanah pasir pantai selatan Kulon Progo. *Planta Tropical Journal of Agro Science*. 391: 31-40.
- Ilahi, R.N.K., Isda, M.N., Rosmaina. 2018. Morfologi permukaan daun tanaman terung (*Solanum melongena* L.) sebagai respons terhadap cekaman kekeringan. *Journal of Biology*. 11 (1): 41-48.
- Imanuel, R., Priyono, S., Hartanti, L. 2019. Kajian substitusi tepung terigu dengan pasta jagung manis (*Zea mays saccharate sturt*) pada pembuatan kue bingke. *Jurnal Teknologi Pangan*. 2 (1): 48-58.
- Ipaulle, Q.H., Indradewa, D., and Irwan, S.N.R. (2023). Effects of rice husk charcoal on the resistance of jali (*Coix lacryma-jobi* L.) to drought stress during generative phase. *Ilmu Pertanian (Agricultural Science)*. 8 (1): 32-38.
- Iskandar, A. 2016. Optimalisasi sekam padi bekas ayam petelur terhadap produktivitas tanaman kangkung darat (*Ipomoea reptans*). *Mimbar Agribisnis*. 1 (3): 245-252.
- Istiyanti, E., Khasanah, U., Anjarwati, A. 2015. Pengembangan usaha tani cabai merah di lahan pasir pantai Kecamatan Temon Kabupaten Kulon Progo. *Jurnal Agraris*. 1 (1): 6–11. <https://doi.org/10.18196/agr.112>
- Iwasaki, K., Torita, H., Abe, T., Uraike, T., Touze, M., Fukuchi, M., Sato, H., Iijima, T., Imaoka, K., Igawa, H. 2019. Spatial pattern of windbreak effects on maize growth evaluated by unmanned aerial vehicle in Hokkaido, northern Japan. *Agroforestry Systems*. 93:1133-1145. <https://doi.org/10.1007/s10457-018-0217-7>
- Kaur, A., Singh, S.P. 2014. Effect of different shelterbelts on growth and yield of brinjal (*Solanum melongena* L) under different environments. *International Journal of Farm Sciences*. 4 (1): 35-41.
- Keyvan, S. 2010. The effects of drought stress on yield, relative water content, proline, soluble carbohydrates, and chlorophyll of bread wheat cultivars. *Journal of Animal and Plant Sciences*. 8 (3): 1051-1060.
- Khan, M.B.M., Arifin, A.Z., Ratna Z. 2021. Pengaruh pemberian pupuk kandang sapi terhadap pertumbuhan dan hasil tanaman jagung manis (*Zea mays Saccharata*). *Agroscript*. 3 (2): 113-120.
- Kumar, R.R., Goswami, S., Sharma, S.K., Singh, K., Gadpayle, K.A., Kumar, N., Rai, G.K., Singh, M., Rai, R.D. 2012. Protection against heat stress in wheat involves change in cell membrane stability, antioxidant enzymes, osmolyte, H₂O₂. And transcript of heat shock protein. *International Journal of Plant Physiology and Biochemistry*. 4(4): 83-91.
- Kurniawati, S., Khumaida, N., Ardie, S.W., Hartati, N.S. 2014. Pola akumulasi prolin dan poliamin beberapa aksesi tanaman terung pada cekaman kekeringan. *Jurnal Agronomi Indonesia*. 42 (2): 136-141.

- Kusumasiwi, A.W.P., Muhartini, S., Trisnowati, S. 2012. Pengaruh warna mulsa plastik terhadap pertumbuhan dan hasil terung (*Solanum melongena* L.) tumpang Sari dengan kangkung darat (*Ipomoea reptans* Poir.). Jurnal Vegetalika. 1 (4): 1-10.
- Kusvuran, S., Dasgan, H.Y. 2017. Effects of drought stress on physiological and biochemical changes in *Phaseolus vulgaris* L. Legume Research. 40 (1): 55-62. <https://doi.org/10.18805/lr.v0i0.7025>
- Laepo, K.D., Pas, A.A., Idris, I. 2019. Respons pemberian berbagai dosis mol daun kelor dengan penambahan kulit buah pisang terhadap pertumbuhan dan hasil tanaman jagung manis. Jurnal Agrotech. 9 (1): 12-18. <https://doi.org/10.31970/agrotech.v9i1.28>
- Li, X., Schmid, B., Wang, F., Paine, C.E.T. 2016. Net assimilation rate determines the growth rates of 14 species of subtropical forest trees. PLOS ONE. 11:1-13. e0150644. <https://doi.org/10.1371/journal.pone.0150644>
- Mariay, I.F., Segoro, B.I., Tuhumena, V.L. 2022. Nisbah daun batang, nisbah berat daun dan nisbah akar tajuk tanaman sawi pagoda (*Brassica narinosa* L.) akibat pemberian pupuk organik cair kascing, papua nutrient dan MA-11. Jurnal Agrotek. 10 (2): 84-91.
- Martin, J., Markus, R., Philippe, C. 2010. Recent decline in the global land evapotranspiration due to limited moisture supply. Nature. 467:951-954. <https://doi.org/10.1038/nature09396>
- Martinez-Vilalta, J., Anderegg, W.R.L., Sapes, G., Sala, A., 2019. Greater focus on water pools may improve our ability to understand and anticipate drought induce mortality in plant. New Phytologists. 223:22-32.
- Mawardi, I. 2008. Produksi tanaman cabe (*Capsicum annum*) pada lahan berpasir. Jurnal Hidrosfir Indonesia. 3 (1): 41-49.
- Mayrinch, R.C., Colin, P.L., Beyhan, Y.A., Ken, V.R. 2019. Above and belowground carbon sequestration in shelterbelt trees in Canada: A Review. Forest. 10 (922): 1-17. <http://dx.doi.org/10.3390/f10100922>
- Muchtar, Soelaeman, Y. 2010. Effects of green manure and clay on the soil characteristics, growth, and yield of peanut at the coastal sandy soil. Journal of Tropical Soils. 15 (2): 139-146. <https://doi.org/10.5400/jts.2010.15.2.139>
- Naeem, M.Y., Ugur, S. 2019. Nutritional content and health benefit of eggplant. Turkish Journal of Agriculture Food Science and Technology. 7 (3): 31-36. DOI: <https://doi.org/10.24925/turjaf.v7isp3.31-36.3146>
- Nazirah, L., Damanik, S.J. 2015. Pertumbuhan dan hasil tiga varietas padi gogo pada perlakuan pemupukan. Jurnal Floratek. 10:54-60
- Ningrum, S.M., Tohari, T., Respatie, D.W. 2020. Pengaruh tingkat naungan dan takaran pupuk kandang kambing etawa terhadap pertumbuhan dan hasil kedelai (*Glycine max* (L.) Merrill) di Lahan Pasir Pantai. Vegetalika. 9 (2): 373-387. <https://doi.org/10.22146/veg.34876>
- Nuberg, I.K. 1998. Effect of shelter on temperate crops: a review to define research for Australian conditions. Agroforestry Systems. 41:3-34.
- Nugroho, S.W., Kartono, D. 2022. Tanggapan kangkung darat (*Ipomoea reptans* Poir.) terhadap monosodium glutamate (MSG) berbagai konsentrasi. Vegetalika. 11 (1): 19-26. DOI: <https://doi.org/10.22146/veg.47801>

- Nurcholidah, L., Susanti, I. 2018. Pemberdayaan ekonomi masyarakat melalui inovasi pengolahan kangkung yang bernilai ekonomi rendah menjadi produk nugget yang bergizi dan bernilai ekonomi tinggi di desa bakalanpule kecamatan tikung kabupaten lamongan. *Abdimas Berdaya: Jurnal Pengabdian Masyarakat*. 1 (2): 109-115.
- Nurhayati, D.R., Siswadi. 2019. Growth of sesame (*Sesamum indicum* L.) plants with mediated compost biochar on coastal sandy land area in Bantul Regency Indonesia. *EurAsian Journal of BioSciences*. 13:673-679.
- Nurhayati, D.R., Yudhono, P., Taryono, Hannidun, E. 2015. Application of biotechnology agricultural by manure, effort of sesame production in coastal sandy soil. *International Congress Challenges of Research in Food and Health*. Saturday, November 15, 2014.
- Osman, H.K., Mahjoub, R.H., Hussein, S.G. 2014. Effect of shelterbelt on soil temperature, soil moisture, and vegetation yield in a semi desert environment along the river Nile State, Sudan. <https://core.ac.uk/download/pdf/71671997.pdf>
- Paiman, Sukhemi, Widyaningsih, N. 2021. Weed control technology to increase growth and yield of mungbean (*Vigna radiata* L.) in soils types. *Journal of Physics Conference Series*. 1823. 012022. <https://doi.org/10.1088/1742-6596/1823/1/012022>
- Partoyo. 2005. Analisis indeks kualitas tanah pertanian di lahan pasir pantai Samas, Yogyakarta. *Ilmu Pertanian*. 12 (2): 140-151.
- Parwata, I. G. M.A., Indradewa, D., Yudono, P. 2010. Pengelompokan genotip jarak pagar berdasarkan ketahanannya terhadap kekeringan pada fase pembibitan di lahan pasir pantai. *Jurnal Agronomi Indonesia*. 38 (2): 156-162.
- Parwata, I. G. M.A., Indradewa, D., Yudono, P., Kertonegoro, B. D., Kusmarwiyah, R. 2014. Respons pertumbuhan dan hasil tanaman jarak pagar (*Jatropha curcas* L.) terhadap cekaman kekeringan di lahan pasir pantai pada tahun pertanaman siklus produksi. *Jurnal Agronomi Indonesia*. 42 (1): 59-65.
- Parwata, I.G. M. A., Indradewa, D., Yudono, P., Kertonegoro, B. D., Kusmarwiyah, R. 2012. Physiological responses of *Jatropha* to a drought stress in coastal sandy land conditions. *Makara Journal of Science*. 16 (2): 115-121.
- Paulina, M., Lumbantoruan, S.M. 2022. Respon pertumbuhan dan hasil tanaman jagung manis (*Zea mays* L. *saccharata*) terhadap biochar dan fungi mikoriza arbuskula di lahan pesisir. *Jurnal Pertanian Agros*. 24 (1): 193-201.
- Peri, P.L., Bloomberg, M. 2002. Windbreaks in southern Patagonia, Argentina: A review of research on growth models, windspeed reduction, and effects on crops. *Agroforestry Systems*. 56: 129-144.
- Pirasteh-Anosheh, H., Saed-Moucheshi, A., Pakniyat, H., Pessarakli, M., 2016. Stomatal responses to drought stress, in: Ahmad, P. (Ed.), *Water Stress and Crop Plants*. John Wiley & Sons, Ltd, Chichester, UK, pp. 24–40. <https://doi.org/10.1002/9781119054450.ch3>
- Poorter, H., Böhler, J., van Dusschoten, D., Climent, J., Postma, J.A. 2012. Pot size matters: a meta-analysis of the effects of rooting volume on plant growth. *Functional Plant Biology*. 39:839-850. <https://doi.org/10.1071/FP12049>

- Purwanto, Widiatmoko, T., Wijonarko, B.R. 2021. Net assimilation rate, growth and yield of rice (*Oryza sativa* L cv Inpago Unsoed 1) with the application of PGPR in different rate of nitrogen. IOP Conference Series: Earth Environment Science. 653, 012064. <https://doi.org/10.1088/1755-1315/653/1/012064>
- Putra, F.P., Yudono, P., Waluyo, S. 2017. Growth and yield of upland rice under intercropping system with soybean in sandy coastal area. Ilmu Pertanian. 2 (3): 130-136. <https://doi.org/10.22146/ipas.25215>
- Putra, S.S., Putra, E.T.S., Widada, J., 2020. The effects of types of manure and mycorrhizal applications on sandy soils on the growth and yield of curly red chili (*Capsicum annum* L.). Caraka Tani Journal of Sustainable Agriculture. 35 (2): 258-267. <https://doi.org/10.20961/carakatani.v35i2.34971>
- Qonita, S.A. 2017. Pengaruh tingkat naungan dan residu kacang hijau terhadap pertumbuhan dan hasil terung (*Solanum melongena* L.) di lahan pasir pantai Bugel, Yogyakarta. Skripsi. Universitas Gadjah Mada. Yogyakarta.
- Rahmandhias, D.T., Rachmawati, D. 2020. Pengaruh asam humat terhadap produktivitas dan serapan nitrogen tanaman kangkung darat (*Ipomoea reptans* Poir). Jurnal Ilmu Pertanian Indonesia. 25 (2): 316-322. DOI: 10.18343/jipi.25.2.316
- Rajiman, Yudono, P., Sulistyaningsih, E. 2008. Pengaruh pembenah tanah terhadap sifat fisika dan hasil bawang merah pada lahan pasir pantai Bugel. Jurnal Agrin. 12 (1): 67-77.
- Rivest, D., Vézina, A. 2015. Maize yield patterns on the leeward side of tree windbreaks are site-specific and depend on rainfall conditions in eastern Canada. Agroforestry Systems. 89:237–246. <https://doi.org/10.1007/s10457-014-9758-6>
- Sahetapy, M., 2012. Respon terong (*Solanum melongena* L.) terhadap perlakuan dosis pupuk herbafarm. Jurnal Ilmiah Unklab. 16 (1): 1-7.
- Sainz, M., Díaz, P., Monza, J., Borsani, O. 2010. Heat stress results in loss of chloroplast Cu/Zn superoxide dismutase and increased damage to Photosystem II in combined drought-heat stressed *Lotus japonicus*. Physiologia Plantarum. 140:46–56. <https://doi.org/10.1111/j.1399-3054.2010.01383.x>
- Saparso, Sudarmaji, A., Rivandi, M.A. 2020. Respons pertumbuhan dan hasil kangkung darat (*Ipomoea reptans* Poir.) pada berbagai konsentrasi pupuk nitrogen secara fertigasi di lahan pasir pantai. Seminar Nasional dalam Rangka Dies Natalis ke-44 UNS Tahun 2020. “Strategi Ketahanan Pangan Masa New Normal Covid-19.” 4 (1): 172-181.
- Saparso, Tohari, Shiddieq, D., Setiadi, B. 2009. Karakterisasi berbagai jenis bahan lapisan kedap, ketebalan, dan nisbah bentonit dengan pasir: konsep dasar pengelolaan lahan pasir pantai. Jurnal Tanah Tropika. 14 (2): 167-176.
- Selim, D.A.-F.H., Nassar, R.M.A., Boghdady, M.S., Bonfill, M. 2019. Physiological and anatomical studies of two wheat cultivars irrigated with magnetic water under drought stress conditions. Plant Physiology and Biochemistry. 135: 480–488. <https://doi.org/10.1016/j.plaphy.2018.11.012>
- Setyaningrum, T., Indradewa, D., Priyatmojo, A., Sulistyaningsih, E. 2019. *Trichoderma asperellum* inoculation on shallots productivity in coastal sand

lands. IOP Conference Series: Earth Environment Science. 250:012094.
<https://doi.org/10.1088/1755-1315/250/1/012094>

- Setyaningrum, T., Indradewa, D., Priyatmono, A., Sulistyaningsih, E. 2018. Physiological properties, growth, and yield of shallor (*Allium cepa* var. *Aggregatum*) in coastal sand land with inoculation of *Trichoderma asperellum* and cow manure. American Eurasian Journal of Sustainable Agriculture. 12 (4): 25-33.
- Shin, M.-H., Hwang, H.-S., Lee, I.-B., Seo, Y.-H., Kim, M.-K. 2013. Dust collection and nutrient absorption by halophyte communities in Saemanguem reclaimed land. Journal of the Korean Society Applied Biological Chemistry. 56:679–686.
<https://doi.org/10.1007/s13765-013-3281-8>
- Su, W., Raza, A., Gao, A., Jia, Z., Zhang, Y., Hussain, M.A., Mehmood, S.S., Cheng, Y., Lv, Y., Zou, X., 2021. Genome-wide analysis and expression profile of Superoxide Dismutase (SOD) gene family in rapeseed (*Brassica napus* L.) under different hormones and abiotic stress conditions. Antioxidants. 10 1182: 1-21. <https://doi.org/10.3390/antiox10081182>
- Subekti, N.A., Syafruddin, Roy, E., Sri, S. 2010. Morfologi tanaman dan fase pertumbuhan jagung. Maros: Balai Penelitian Tanaman Serealia.
- Sukri, M.Z., Sugiyarto, Firgiyanto, R. 2019. The growth response of chili plant in sand land with provision of organic material, zeolite, and cane blotong. IOP Conference Series: Earth and Environmental Science. 411:012006.
[doi:10.1088/1755-1315/411/1/012006](https://doi.org/10.1088/1755-1315/411/1/012006)
- Sumajow, A.Y.M., Rogi, J.E.X., Tumbelaka, S. 2016. Pengaruh pemangkasan daun bagian bawah terhadap produksi jagung manis (*Zea mays* var. *saccharata* Sturt). Agrisocioekonomi. 12 (1): 65-72.
<https://doi.org/10.35791/agrsosek.12.1A.2016.11537>
- Sun, Q., Zheng, B., Liu, T., Zhu, L., Hao, X., Han, Z. 2022. The optimal spacing interval between principal shelterbelts of the farm-shelter forest network. Environmental Science Pollution Research. 29: 12680–12693.
<https://doi.org/10.1007/s11356-021-17272-1>
- Sunaryo, Y. 2010. Review: Crop cultivation strategies in coastal sandy area especially in Yogyakarta. The International Seminar on Development of Coastal Sandy Area Towards Sustainable Agriculture. Gadjah Mada University. Yogyakarta. 13-14 Februari 2010.1-11.
- Sunghening, W., Tohari, Shiddieq, D. 2012. Pengaruh mulsa organik terhadap pertumbuhan dan hasil tiga varietas kacang hijau (*Vigna radiata* L. Wilczek) di lahan pasir pantai Bugel, Kulon Progo. Vegetalika. 1 (2): 1-13.
- Syhabudin, A., Adriyanti, D.T., Handayani, A., Bai, H., Osozawa, K., Nimomiya, I. 2012. The use of cemara udang (*Casuarina equisetifolia*) for agricultural purpose in the southern coast of Yogyakarta. ICAM. Jember, Indonesia. 25-26 Juni 2012.129-143.
- Syam, D.W., Kamaliah, Handriyani, N. 2021. Pengaruh jumlah biji dan tanah kompos terhadap pertumbuhan tanaman kangkung darat (*Ipomoea reotans* Poir) di kebun opal dinas pertanian kabupaten aceh selatan. Journal of Biological Sciences and Applied Biology. 1 (2): 43-50.
<https://doi.org/10.22373/kenanga.v1i2.1917>

- Tamang, B., Andreu, M.G., Rockwood, D.L. 2010. Microclimate patterns on the leeward side of single-row tree windbreaks during different weather conditions in Florida farms: implications for improved crop production. *Agroforest System*. 79: 111–122. <https://doi.org/10.1007/s10457-010-9280-4>
- Tando, E. 2019. Review : pemanfaatan teknologi greenhouse dan hidroponik sebagai solusi menghadapi perubahan cuaca dalam budidaya tanaman hortikultura. *Buana Sains*. 19 (1): 91-102. <https://doi.org/10.33366/bs.v19i1.1530>
- Thevs, N., Streng, E., Aliev, K., Eraaliev, M., Lang, P., Baibagysov, A., Xu, J. 2017. Tree Shelterbelts as an Element to Improve Water Resource Management in Central Asia. *Water*. 9 (842):1-11. <https://doi.org/10.3390/w9110842>
- UM (University of Minnesota). 2012. Selecting trees and shrubs in Windbreaks. Minnesota, USA.
- USDA. 1997. Windbreak/Shelterbelt, Conservation Practice Job Sheet. Natural Resources Conservation Service (NRCS), USA.
- Van Thuyet, D., Van Do, T., Sato, T., Thai Hung, T. 2014. Effects of species and shelterbelt structure on wind speed reduction in shelter. *Agroforestry Systems*. 88:237–244. <https://doi.org/10.1007/s10457-013-9671-4>
- Vendruscolo, E.C.G., Schuster, I., Pileggi, M., Scapim, C.A., Molinari, H.B.C., Marur, C.J., Viera, L.G.E. 2007. Stress induced synthesis of proline confers tolerance to water deficit in transgenic wheat. *Journal Plant Physiology*. 164: 1367-1376
- Vidasari, N., Sardi, A., Rosmeri. Pengaruh pemberian dosis pupuk urea terhadap pertumbuhan tanaman kangkung darat (*Ipomoea reptans* Poir). *Journal of Biological Sciences and Applied Biology*. 1 (20): 51-60. <https://doi.org/10.22373/kenanga.v1i2.1918>
- Wakchaure, G.C., Minhas, P.S., Meena, K.K., Kumar, S., Rane, J. 2020. Effect of plant growth regulators and deficit irrigation on canopy traits, yield, water productivity and fruit quality of eggplant (*Solanum melongena* L.) grown in the water scarce environment. *Journal of Environmental Management*. 262: 110320. <https://doi.org/10.1016/j.jenvman.2020.110320>
- Wardana, L.A., Muharam, Syafii, M. 2021. Respon beberapa galur jagung manis (*Zea mays saccharata*) mutan generasi M3 berdasarkan karakter morfologi dan daya hasilnya. *Jurnal Agrotek Indonesia*. 6 (1): 73-79.
- Wisardja, I.P., Lana, I.W., Karnata, I.N. 2019. Pertumbuhan dan hasil jagung manis varietas sweet boy pada berbagai kerapatan dan dosis pupuk nitrogen di lahan kering. *Majalah Ilmiah Untab*. 16 (1): 53-58.
- Wu, T., Yu, M., Wang, G., Wang, Z., Duan, X., Dong, Y., Cheng, X. 2013. Effects of stand structure on wind speed reduction in a *Metasequoia glyptostroboides* shelterbelt. *Agroforestry Systems*. 87: 251–257. <https://doi.org/10.1007/s10457-012-9540-6>
- Xu, Z. Zhou, G., Shimizu, H. 2010. Plant responses to drought and rewatering. *Plant Signaling and Behavior*. 5 (6): 649-654.
- Yama, D.I. 2018. Analisis pertumbuhan pembibitan pueraria javanica pada komposisi media seresah dalam ketiak pelepah pada batang kelapa sawit. *Jurnal Citra Widya Edukasi*. 10 (3): 199-206.
- Yuwono, N.W. 2009. Membangun kesuburan tanah di lahan marginal. *Jurnal Ilmu Tanah dan Lingkungan*. 9 (2): 137-141.

- Zheng, X., Zhu, J., Xing, Z. 2016. Assessment of the effect of shelterbelts on crop yields at the regional scale in Northeast China. *Agricultural Systems*. 143:49-60.
- Zhuang, J.-Y., Zhang, J.-C., Yang, Y., Zhang, B., Li, J., 2017. Effect of forest shelterbelt as a regional climate improver along the old course of the Yellow River, China. *Agroforestry Systems*. 91:393–401. <https://doi.org/10.1007/s10457-016-9928-9>
- Zulfita, D. 2012. Kajian fisiologi tanaman lidah buaya dengan pemotongan ujung pelepah pada kondisi cekaman kekeringan. *Jurnal Perkebunan dan Lahan Tropika*. 2 (1): 7-14.