

DAFTAR PUSTAKA

- Apriliana, Wahyu Ika, Frida Purwanti, dan Nurul Latifah. 2021. Estimasi Kandungan Biomassa dan Simpanan Karbon Hutan Mangrove, Mangunharjo, Semarang. *Life Science* .10 (2).
- Arifanti, Virni Budi, Frida Sidik, Budi Mulyanto, et al. 2022. Challenges and Strategies for Sustainable Mangrove Management in Indonesia: A Review. *Forests*. 13, 695.
- Baskoro, D. P. T. dan Manurung, H. D. 2005. Pengaruh Metode Pengukuran dan Waktu Pengayakan Basah Terhadap Nilai Indeks Stabilitas Agregat Tanah. *Jurnal Tanah dan Lingkungan*. 7(2), 54–57.
- Bengen, D.G. 2001. Sinopsis Ekosistem dan Sumberdaya Alam Pesisir dan Laut. Pusat Kajian Sumberdaya Pesisir dan Laut. Institut Pertanian Bogor.
- Budiadi, Budiadi, Widiyatno Widiyatno, Handojo Hadi Nurjanto, Habib Hasani dan Aqmal Nur Jihad. 2022. Seedling Growth and Quality of *Avicennia marina* (Forssk.) Vierh. under Growth Media Composition and Controlled Salinity in an Ex-Situ Nursery. *Forests*.13, 684.
- Da Costa CT, Offringa R, Fett-Neto AG. 2019. The role of auxin transporters and receptors in adventitious rooting of *Arabidopsis thaliana* pre-etiolated flooded seedlings. *Plant Science*. 290(2020): 110294
- Dickson, A., Leaf, AL, and Hosner, J.F. 1960. Quality Appraisal of White Spruce and White Pine Seedling Stock in Nurseries. *The Forestry Chronicle* 36: 10-13.
- Effendi, H., 2003, *Telaah Kualitas Air Bagi Pengelolaan Sumber Daya Lingkungan Perairan*. Yogyakarta: Kanisius.
- Endah, I. J., dan Abidin, Z.2002. *Membuat Tanaman Buah Kombinasi*. AgroMedia. Jakarta.
- Erinnovita, M. Sari, D. Guntoro. 2008. Invigorsi benih untuk memperbaiki perkecambahan kacang panjang (*Vigna unguiculata* Hask ssp *sesquipedalis*) pada cekaman salinitas. *Bul. Agro* (36) 214-220.
- Eshel, A. dan Grunzweig J.M. 2012. Root-Shoot Allometry of Tropical Forest Trees Determined in A Large-Scale Aeroponic System. *Annals of Botany* 112:291 –296.
- Farlee, Lenny D. 2013. Direct seeding of fine hardwood tree species. *Proceedings of the Seventh Walnut Council Research Symposium*.
- Fatikhasari, Zidny., Intani Quarta lailatu, Dian Sartika, dan Muhammad Aldian Ubaidi. 2022. Viabilitas dan Vigor Benih Kacang Tanah (*Arachis hypogaea* L.), Kacang Hijau (*Vigna radiata* (L.) R. Wilczek), dan Jagung (*Zea mays* L.) pada Temperatur dan Tekanan Osmotik Berbeda. *Jurnal Ilmu Pertanian Indonesia*. Vol. 27 (1): 7-17.
- Fukuoka M. 1992. *The One-Straw Revolution*. India: Other India Press.
- Gunarto. 2004. Konservasi Mangrove Sebagai Pendukung Sumber Hayati Perikanan Pantai. *Jurnal Litbang Pertanian*. 23(1),15-21.
- Halidah. 2014. *Avicennia marina* (Forssk.) Vierh Jenis Mangrove yang Kaya Manfaat. *Info Teknis Eboni*. 11. (1): 37 –44.



- Hutahean EE, Kusmana C, Dewi HR. 1999. Studi kemampuan tumbuh anakan mangrove *Avicennia marina* pada berbagai tingkat salinitas. *Jurnal Manajemen Hutan Tropika*. 5(1):77–85.
- Ilman, Muhammad., Paul Dargusch, Peter Dart, Onrizal. 2016. A historical analysis of the drivers of loss and degradation of Indonesia's mangroves. *Land Use Policy* 54: 448–459
- Indriyanto. 2010. *Ekologi Hutan*. Jakarta: PT. Bumi Aksara
- Kementrian Lingkungan Hidup dan Kehutanan. 2022. *Enhanced Nationally Determined Contribution Republic of Indonesia*.
- Kusmana, Cecep. 2014. Distribution and Current Status of Mangrove Forests in Indonesia. *Mangrove Ecosystems of Asia*. 37-59. DOI 10.1007/978-1-4614-8582-7.
- Kusmana, C. 2017. Lesson learned from mangrove rehabilitation program in indonesia. J. *Pengelolaan Sumberd. Alam Lingkung*. 7,89–97.
- Kusmana, C & Fadlilatul, H. 2021. Pengaruh Media Tanam Dan Intensitas Naungan Terhadap Pertumbuhan Bibit Api-Api (*Avicennia Alba*). *Jurnal Silvicultura Tropika Institut Pertanian Bogor* 12(2), 43-50.
- Lee, S.Y., Hamilton, S., Barbier, E.B. *et al.* 2019. Better restoration policies are needed to conserve mangrove ecosystems. *Nat Ecol Evol* 3, 870–872.
- Lin, Kuan-Hung, Chun-Wei WU3, dan Yu-Sen CHANG. 2019. Applying Dickson Quality Index, Chlorophyll Fluorescence, and Leaf Area Index for Assessing Plant Quality of *Pentas lanceolata*. *Not Bot Horti Agrobo*, 47(1):169-176
- Mangena, Phetole dan Phatlane William Mokwala. 2019. The Influence of Seed Viability on the Germination and In Vitro Multiple Shoot Regeneration of Soybean (*Glycine max* L.). *Agriculture*. 9(2), 35.
- Matatula, J., Poedjirahajoe, E., Pudyatmoko, S., dan Sadono, R., 2019. Keragaman Kondisi Salinitas Pada Lingkungan Tempat Tumbuh Mangrove di Teluk Kupang, NTT. *Jurnal Ilmu Lingkungan*. 17(3): 425-434.
- Mohan, M.; Richardson, G.; Gopan, G.; Aghai, M.M.; Bajaj, S.; Galgamuwa, G.A.P.; Vastaranta, M.; Arachchige, P.S.P.; Amorós, L.; Corte, A.P.D.; *et al.* 2021. UAV-Supported Forest Regeneration: Current Trends, Challenges and Implications. *Remote Sens.*, 13, 2596.
- Nwankwo C I, Jan Mühlana, Konni Biegert, Diana Butzer, Günter Neumann, Ousmane Sc, dan Ludger Herrmann. Physical and chemical optimization of the *seed ball* technology addressing pearl millet under Sahelian conditions. *Journal of Agriculture and Rural Development in the Tropics and Subtropics*. 2018;119(2): 67–79.
- Nyoka, B.I., Kamanga, R., Njoloma, J., Jamnadass, R., Mng'omba, S., dan Muwanje, S. 2018. Quality of tree seedlings produced in nurseries in Malawi: An assessment of morphological attributes. *For. Trees Livelihoods*, 27, 103–117.
- Onrizal. 2010. Perubahan Tutupan Hutan Mangrove di Pantai Timur Sumatera Utara Periode 1977-2006. *Jurnal Biologi Indonesia*. 6(2): 163-172.



- Pala, Gloria Matalia, Wilhelmina Seran, dan Mamie E. Pellondo'u. 2022. Peranan Berbagai Komposisi Media Tanam Organik Terhadap Pertumbuhan Bibit Jabon Merah (*Anthocephalus macrophyllus*). *Jurnal Wana Lestari*. Vol. 04 No. 01: 012 -021.
- Paravar, Arezoo., Ramin Piri, Hamidreza Balouchi, dan Ying Ma. 2023. Microbial seed coating: An attractive tool for sustainable agriculture. *Biotechnology Reports* 37.
- Parmar, Samirsinh P. 2023. *Seed Ball Campaign: An Effective Implementation Tool against Global Warming and Deforestation*. *Journal of Environmental Engineering and Studies*. Volume-8, Issue-1.
- Patel, Neha Tusharbai, Ajit Gupta, dan Amar Nath Pandey. 2010. Salinity Tolerance of *Avicennia marina* (Forssk.) Vierh. from Gujarat Coasts of India. *Aquatic Botany*. 93(1):9–16.
- Putri KP, dan Nurhasybi. 2010. Pengaruh jenis media organik terhadap kualitas bibit takir (Duabanga moluccana). *Jurnal Penelitian Hutan Tanaman* 7(3):141-146.
- Priadi, D. 2010. Aplikasi Teknik Enkapsulasi pada benih sengon (*Paraserienthes falcataria*). *Teknologi Indonesia* 33(2): 92-99.
- Pyke, David A.; Wirth, Troy A.; Beyers, Jan L. 2013. Does seeding after wildfires in rangelands reduce erosion or invasive species? *Restoration Ecology*. 21: 415-421.
- Rahadian, A.; Prasetyo, L.B.; Setiawan, Y.; Wikantika, K. Tinjauan historis data dan informasi luas mangrove Indonesia (A Historical Review of Data and Information of Indonesian Mangroves Area). *Media Konserv.* 2019,24, 163–178.
- Robianto, Rahmad., Gusti Muhammad Hatta, dan Eva Prihatiningtya. 2020. Adaptasi Pohon Api-Api (*Avicennia marina*) untuk Mempertahankan Hidupnya di Hutan Mangrove Kecamatan Kusan Hilir Kabupaten Tanah Bumbu Kalimantan. *Jurnal Sylva Scientiae*. Vol. 03: No. 1.
- Salisbury, FB & Ross, CW, 1995, *Fisiologi Tumbuhan Jilid II*, ITB, Bandung
- Samekto, R. 2006. *Pupuk Kompos*. Citra Aji Pratama. Yogyakarta.
- Sari, Diah Permata, Maiser Syaputra, dan Kornelia Webliana B. 2022. Biomassa dan Serapan Karbon Hutan Mangrove Tanjung Batu, Desa Sekotong Tengah, Kabupaten Lombok Barat. *Journal of Forest Science Avicennia*. Vol. 05 No.02.
- Sarief, S. 1989. *Fisika-Kimia Tanah Pertanian*. Pustaka Buana. Bandung.
- Sasmito, S.D., Basyuni, M., Kridalaksana, A. *et al.* 2023. Challenges and opportunities for achieving Sustainable Development Goals through restoration of Indonesia's mangroves. *Nat Ecol Evol* 7, 62–70. <https://doi.org/10.1038/s41559-022-01926-5>
- Sopandie, Didy. 2013. *Fisiologi Adaptasi Tanaman*. IPB Press. Bogor
- Suryawan, Ady. 2014. Pengaruh Media dan Penanganan Benih terhadap Pertumbuhan Semai Nyamplung (*Calopyllum inophyllum*). *Jurnal WASIAN* Vol.1 No.2:57-64.
- Tan, W.K., Lin, Q., Lim, T.M., Kumar, P., Loh, C.S. 2013. Dynamic secretion changes in the salt glands of the mangrove tree species *Avicennia officinalis* in response to a changing saline environment. *Plant Cell Environ.* (36): 1410-1422.



UNIVERSITAS
GADJAH MADA

PENGARUH KOMPOSISI MEDIA SEED BALL DAN TINGKAT SALINITAS AIR TEMPAT TUMBUH TERHADAP PERTUMBUHAN

Avicennia marina (API-API PUTIH)

Irvina Foila Para Martiani, Prof. Ir. Widiyatno, S.Hut., M.Sc., Ph.D., IPM.; Dr. Dra. Ir. Winastuti Dwi Atmanto, M. P., IP

Universitas Gadjah Mada, 2024 | Diunduh dari <http://etd.repository.ugm.ac.id/>

- Tamiliarasan, C., R Jerlin dan K Raja. 2021. *Seed ball* technique for enhancing the establishment of subabul (*Leucaena leucocephala*) under varied habitats. *Journal of Tropical Forest Science*. 33(3), 349-355.
- Tobing, Atia N. L., Sri Darmanti, Endah Dwi Hastuti, dan Munifatul Izzati. 2021. Struktur Anatomi Daun Mangrove Api-api Putih [*Avicennia marina* (Forsk.) Vierh] di Pantai Mangunharjo, Semarang. *Buletin Anatomi dan Fisiologi*. Vol 6 No.1:96-103.
- Tefa, A. 2017. Uji viabilitas dan Vigor Benih Padi (*Oryza sativa* L.) Selama Penyimpanan pada Tingkat Kadar Air yang Berbeda. *Savana Cendana*, 2(03),48-50.
- Utami, S.N. dan Handayani, S. 2003. *Sifat kimia Entisol pada sistem pertanian organik*. Ilmu Pertanian, 10 (2): 63-69.
- William, Joshian Nicolas. 2018. Distribusi Dan Karakteristik Kualitas Perairan Ekosistem Mangrove Pulau Kecil Taman Nasional Bunaken. *Majalah Geografi Indonesia*, Vol. 32, No. 1: 40 – 49.
- Wulandari, Arum Sekar dan Sri Susanti. 2012. Aplikasi Pupuk Daun Organik untuk Meningkatkan Pertumbuhan Bibit Jabon (*Anthocephalus cadamba* Roxb. Miq.). *Jurnal Silvikultur Tropika*. Vol. 03 No 02: 137-142.
- Zhou, Jinghang, Jingjun Yang, Jie Qin, Jinhua Li, Xiu Liu, dan Penglia Wei. 2024. Nursery Cultivation Strategies for a Widespread Mangrove (*Kandelia obovata* Sheue & al.): Evaluating the Influence of Salinity, Growth Media, and Genealogy. *Forests*, 15, 574.
- Zubaidah, S., I Mansur, S.W. Budi, dan A Yusmur. 2022. *Seed ball* Coating Material Formulation to Enhance Germination and Growth of Fruit and Forest Seeds. *IOP Conference: Earth Environment Science*. Vol. 959.