

## DAFTAR PUSTAKA

- Aber, J. D., & Melillo, J. M. (2001). *Terrestrial Ecosystems*: Harcourt Academic Press. *San Diego, California*.
- Adame, M. F., Kauffman, J. B., Medina, I., Gamboa, J. N., Torres, O., Caamal, J. P., Reza, M., & Herrera-Silveira, J. A. (2013). Carbon stocks of tropical coastal wetlands within the karstic landscape of the Mexican Caribbean. *PloS One*, 8(2), e56569.
- Adams, J. A., Campbell, A. S., & Cutler, E. J. B. (1975). Some properties of a chrono-toposequence of soils from granite in New Zealand, 1. profile weights and general composition. *Geoderma*, 13(1), 23–40.
- Adams, J. A., & Walker, T. W. (1975). Some properties of a chrono-toposequence of soils from granite in New Zealand, 2. Forms and amounts of phosphorus. *Geoderma*, 13(1), 41–51.
- Addo-Fordjour, P., & Rahmad, Z. B. (2013). Development of Allometric Equations for Estimating Above-Ground Liana Biomass in Tropical Primary and Secondary Forests, Malaysia. *International Journal of Ecology*, 2013, 658140. <https://doi.org/10.1155/2013/658140>
- Agus, F. (2013). Konservasi tanah dan karbon untuk mitigasi Perubahan iklim mendukung keberlanjutan Pembangunan pertanian. *Pengembangan Inovasi Pertanian*, 6(Maret 2013), 23–33.
- Ahmad, N., Qureshi, R. H., & Qadir, M. (1990). Amelioration of a calcareous saline-sodic soil by gypsum and forage plants. *Land Degradation & Development*, 2(4), 277–284.
- Ahmad, S. S. S., Mushar, S. H. M., Shari, N. H. Z., & Kasmin, F. (2020). A Comparative study of log volume estimation by using statistical method. *EDUCATUM Journal of Science, Mathematics and Technology*, 7(1), 22–28.
- Ahmed, N., & Adnan, M. (2021). Method to Estimate above Ground Biomass and Carbon Stock of *Artocarpus heterophyllus* in Java, Special Region of Yogyakarta, Indonesia. *Journal of Biology and Today's World*, 10(4), 1–4.
- Aitken, S. N. (2004). *GENETICS AND GENETIC RESOURCES | Genecology and Adaptation of Forest Trees* (J. B. T.-E. of F. S. Burley (ed.); pp. 197–204). Elsevier. <https://doi.org/https://doi.org/10.1016/B0-12-145160-7/00086-7>
- Ashton, M. S., Tyrrell, M. L., Spalding, D., & Gentry, B. (2012). *Managing forest carbon in a changing climate*. Springer Science & Business Media.
- Ashton, P. S., & Hall, P. (1992). Comparisons of structure among mixed dipterocarp forests of north-western Borneo. *Journal of Ecology*, 459–481.
- Austin, A. T., & Ballaré, C. L. (2010). Dual role of lignin in plant litter decomposition in terrestrial ecosystems. *Proceedings of the National Academy of Sciences*, 107(10), 4618–4622.
- Awang, S. A., Wiyono, E. B., & Sadiyo, S. (2007). Unit Manajemen Hutan Rakyat: Proses Kontruksi Pengetahuan Lokal. Banyumili Art Network bekerja sama

dengan Pusat Studi Hutan Rakyat (PKHR). UGM. Yogyakarta.

- Azam, M. M., Waris, A., & Nahar, N. M. (2005). Prospects and potential of fatty acid methyl esters of some non-traditional seed oils for use as biodiesel in India. *Biomass and Bioenergy*, 29(4), 293–302.
- Balesdent, J., & Arrouays, D. (1999). Usage des terres et stockage de carbone dans les sols du territoire français. Une estimation des flux nets annuels pour la période 1900-1999. *Comptes Rendus de l'Académie d'Agriculture de France*, 85(6), 265–277.
- Banaticla, M., Regina, N., Sales, R. F., & Lasco, R. D. (2007). Biomass equations for tropical tree plantation species in young stands using secondary data from the Philippines. *Annals of Tropical Research; Special Issue on Smallholder Forestry*, 29(3), 73–90.
- Bardgett, R. D., Bowman, W. D., Kaufmann, R., & Schmidt, S. K. (2005). A temporal approach to linking aboveground and belowground ecology. *Trends in Ecology & Evolution*, 20(11), 634–641.
- Barner, H., & Willan, R. L. (1983). *Seed Collection Units: Seed Zones*. Danida Forest Seed Centre.
- Baskerville, G. L. (1972). Use of logarithmic regression in the estimation of plant biomass. *Canadian Journal of Forest Research*, 2(1), 49–53.
- Basuki, T. M., Leksono, B., Baral, H., Andini, S., Wahyuni, N. S., Artati, Y., Choi, E., Shin, S., Kim, R., & Yang, A.-R. (2022). Allometric Equations for the Biomass Estimation of *Calophyllum inophyllum* L. in Java, Indonesia. *Forests*, 13(7), 1057.
- Basuki, T. M., Van Laake, P. E., Skidmore, A. K., & Hussin, Y. A. (2009). Allometric equations for estimating the above-ground biomass in tropical lowland Dipterocarp forests. *Forest Ecology and Management*, 257(8), 1684–1694.
- Batjes, N. H. (1996). Total carbon and nitrogen in the soils of the world. *European Journal of Soil Science*, 47(2), 151–163.
- Beerling, D., & Woodward, F. I. (2001). *Vegetation and the terrestrial carbon cycle: the first 400 million years*. Cambridge University Press.
- Bemmelen, R. W. van. (1949). The Geology of Indonesia, Vol. IA: General Geology of Indonesia and Adjacent Archipelagoes. *Government Printing Office, The Hague*.
- Berg, B., & McClaugherty, C. (2020). *Plant litter: decomposition, humus formation, carbon sequestration*. Springer Nature.
- Birdsey, R., Pregitzer, K., & Lucier, A. (2006). Forest carbon management in the United States: 1600–2100. *Journal of Environmental Quality*, 35(4), 1461–1469.
- Birouste, M., Kazakou, E., Blanchard, A., & Roumet, C. (2012). Plant traits and decomposition: are the relationships for roots comparable to those for leaves? *Annals of Botany*, 109(2), 463–472.
- Boitt, G., Simpson, Z. P., Tian, J., Black, A., Wakelin, S. A., & Condrón, L. M. (2018). Plant biomass management impacts on short-term soil phosphorus dynamics in a temperate grassland. *Biology and Fertility of Soils*, 54(3), 397–409.

- Bonan, G. B. (2008). Forests and climate change: forcings, feedbacks, and the climate benefits of forests. *Science*, 320(5882), 1444–1449.
- Bonser, S. P., & Aarssen, L. W. (2009). Interpreting reproductive allometry: individual strategies of allocation explain size-dependent reproduction in plant populations. *Perspectives in Plant Ecology, Evolution and Systematics*, 11(1), 31–40.
- Boshier, D., Broadhurst, L., Cornelius, J., Gallo, L., Koskela, J., Loo, J., Petrokofsky, G., & St Clair, B. (2015). Is local best? Examining the evidence for local adaptation in trees and its scale. *Environmental Evidence*, 4(1), 20. <https://doi.org/10.1186/s13750-015-0046-3>
- Brady, N. C., & Weil, R. R. (2008). *The nature and properties of soils 14th ed Pearson Prentice Hall Upper Saddle River*. NJ.
- Britto, D. T., & Kronzucker, H. J. (2005). Nitrogen acquisition, PEP carboxylase, and cellular pH homeostasis: new views on old paradigms. *Plant, Cell & Environment*, 28(11), 1396–1409.
- Brouwer, R. (1963). Some aspects of the equilibrium between overground and underground plant parts. *Jaarboek van Het Instituut Voor Biologisch En Scheikundig Onderzoek Aan Landbouwgewassen*, 1963, 31–39.
- Brown, S. (1997). *Estimating biomass and biomass change of tropical forests: a primer* (Vol. 134). Food & Agriculture Org.
- Brown, S. (2002). Measuring carbon in forests: current status and future challenges. *Environmental Pollution*, 116(3), 363–372.
- Brown, S., Gillespie, A. J. R., & Lugo, A. E. (1989). Biomass estimation methods for tropical forests with applications to forest inventory data. *Forest Science*, 35(4), 881–902.
- Brown, S. L., Schroeder, P., & Kern, J. S. (1999). Spatial distribution of biomass in forests of the eastern USA. *Forest Ecology and Management*, 123(1), 81–90.
- Brown, S., & Lugo, A. E. (1984). Biomass of tropical forests: a new estimate based on forest volumes. *Science*, 223(4642), 1290–1293.
- Buol, S. W., Southard, R. J., Graham, R. C., & McDaniel, P. A. (2011). *Soil genesis and classification*. John Wiley & Sons.
- Burke, I. C., Yonker, C. M., Parton, W. J., Cole, C. V., Flach, K., & Schimel, D. S. (1989). Texture, climate, and cultivation effects on soil organic matter content in US grassland soils. *Soil Science Society of America Journal*, 53(3), 800–805.
- Burton, A. J., & Pregitzer, K. S. (2008). Measuring forest floor, mineral soil, and root carbon stocks. In *Field measurements for forest carbon monitoring* (pp. 129–142). Springer.
- Bustomi, S., Rostiwati, T., Sudradjat, R., Kosasih, A. S., Anggraeni, I., Leksono, B., Irawanti, S., Kurniaty, R., Syamsuwida, D., Effendi, R., Mahfudz, & Hendra, D. (2008). *Nyamplung (*Calophyllum inophyllum* L.): sumber energi biofuel yang potensial*. Badan Penelitian dan Pengembangan Kehutanan, Pusat Penelitian dan ....
- Callow, J. A. (1999). *Advances in botanical research*. Elsevier.

- Canadell, J. G., Le Quéré, C., Raupach, M. R., Field, C. B., Buitenhuis, E. T., Ciais, P., Conway, T. J., Gillett, N. P., Houghton, R. A., & Marland, G. (2007). Contributions to accelerating atmospheric CO<sub>2</sub> growth from economic activity, carbon intensity, and efficiency of natural sinks. *Proceedings of the National Academy of Sciences*, 104(47), 18866–18870. <https://doi.org/10.1073/pnas.0702737104>
- Canadell, J., Jackson, R. B., Ehleringer, J. B., Mooney, H. A., Sala, O. E., & Schulze, E.-D. (1996). Maximum rooting depth of vegetation types at the global scale. *Oecologia*, 108(4), 583–595.
- Carlson, C. A., Bates, N. R., Hansell, D. A., & Steinberg, D. K. (2001). Carbon cycle. In *Encyclopedia of Ocean Sciences: Second Edition* (pp. 477–486). Elsevier Inc.
- Centritto, M., & Jarvis, P. G. (1999). Long-term effects of elevated carbon dioxide concentration and provenance on four clones of Sitka spruce (*Picea sitchensis*). II. Photosynthetic capacity and nitrogen use efficiency. *Tree Physiology*, 19(12), 807–814.
- Chapin, F. S., Matson, P. A., Mooney, H. A., & Vitousek, P. M. (2002). *Principles of terrestrial ecosystem ecology*.
- Chapin, F. S., Woodwell, G. M., Randerson, J. T., Rastetter, E. B., Lovett, G. M., Baldocchi, D. D., Clark, D. A., Harmon, M. E., Schimel, D. S., & Valentini, R. (2006). Reconciling carbon-cycle concepts, terminology, and methods. *Ecosystems*, 9(7), 1041–1050.
- Chaturvedi, R. K., & Raghubanshi, A. S. (2015). Allometric Models for Accurate Estimation of Aboveground Biomass of Teak in Tropical Dry Forests of India. *Forest Science*, 61(5), 938–949. <https://doi.org/10.5849/forsci.14-190>
- Chave, J., Andalo, C., Brown, S., Cairns, M. A., Chambers, J. Q., Eamus, D., Fölster, H., Fromard, F., Higuchi, N., & Kira, T. (2005). Tree allometry and improved estimation of carbon stocks and balance in tropical forests. *Oecologia*, 145(1), 87–99.
- Chave, J., Condit, R., Aguilar, S., Hernandez, A., Lao, S., & Perez, R. (2004). Error propagation and scaling for tropical forest biomass estimates. *Philosophical Transactions of the Royal Society of London. Series B: Biological Sciences*, 359(1443), 409–420.
- Chave, J., Coomes, D., Jansen, S., Lewis, S. L., Swenson, N. G., & Zanne, A. E. (2009). Towards a worldwide wood economics spectrum. *Ecology Letters*, 12(4), 351–366.
- Chave, J., Réjou-Méchain, M., Búrquez, A., Chidumayo, E., Colgan, M. S., Delitti, W. B. C., Duque, A., Eid, T., Fearnside, P. M., & Goodman, R. C. (2014). Improved allometric models to estimate the aboveground biomass of tropical trees. *Global Change Biology*, 20(10), 3177–3190.
- Chen, H., Li, D., Gurmesa, G. A., Yu, G., Li, L., Zhang, W., Fang, H., & Mo, J. (2015). Effects of nitrogen deposition on carbon cycle in terrestrial ecosystems of China: A meta-analysis. *Environmental Pollution*, 206, 352–360.
- Chen, P., Yan, K., Shao, H., & Zhao, S. (2013). Physiological mechanisms for high salt tolerance in wild soybean (*Glycine soja*) from Yellow River Delta, China: photosynthesis, osmotic regulation, ion flux and antioxidant capacity. *PloS One*,

8(12), e83227.

- Chen, S., Yao, F., Mi, G., Wang, L., Wu, H., & Wang, Y. (2022). Crop rotation increases root biomass and promotes the correlation of soil dissolved carbon with the microbial community in the rhizosphere. *Frontiers in Bioengineering and Biotechnology*, 10. <https://doi.org/10.3389/fbioe.2022.1081647>
- Chen, Y., Katan, J., Gamliel, A., Aviad, T., & Schnitzer, M. (2000). Involvement of soluble organic matter in increased plant growth in solarized soils. *Biology and Fertility of Soils*, 32(1), 28–34. <https://doi.org/10.1007/s003740000209>
- Chojnacky, D. C., Heath, L. S., & Jenkins, J. C. (2014). Updated generalized biomass equations for North American tree species. *Forestry*, 87(1), 129–151.
- Ciais, P., Sabine, C., Bala, G., Bopp, L., Brovkin, V., Canadell, J., Chhabra, A., DeFries, R., Galloway, J., & Heimann, M. (2014). Carbon and other biogeochemical cycles. In *Climate change 2013: the physical science basis. Contribution of Working Group I to the Fifth Assessment Report of the Intergovernmental Panel on Climate Change* (pp. 465–570). Cambridge University Press.
- Clark, D. A., Brown, S., Kicklighter, D. W., Chambers, J. Q., Thomlinson, J. R., & Ni, J. (2001). Measuring net primary production in forests: concepts and field methods. *Ecological Applications*, 11(2), 356–370.
- Clausen, J. C., Keck, D. D., & Hiesey, W. M. (1940). *Effect of varied environments on western North American plants*. Carnegie Institution Washington, DC, USA.
- Cole, T. G., & Ewel, J. J. (2006). Allometric equations for four valuable tropical tree species. *Forest Ecology and Management*, 229(1–3), 351–360.
- Conant, R. T., Paustian, K., & Elliott, E. T. (2001). Grassland management and conversion into grassland: effects on soil carbon. *Ecological Applications*, 11(2), 343–355.
- Conant, R. T., Ryan, M. G., Ågren, G. I., Birge, H. E., Davidson, E. A., Eliasson, P. E., Evans, S. E., Frey, S. D., Giardina, C. P., & Hopkins, F. M. (2011). Temperature and soil organic matter decomposition rates—synthesis of current knowledge and a way forward. *Global Change Biology*, 17(11), 3392–3404.
- Cornwell, W. K., Cornelissen, J. H. C., Allison, S. D., Bauhus, J., Eggleton, P., Preston, C. M., Scarff, F., Weedon, J. T., Wirth, C., & Zanne, A. E. (2009). Plant traits and wood fates across the globe: rotted, burned, or consumed? *Global Change Biology*, 15(10), 2431–2449.
- Cornwell, W. K., Cornelissen, J. H. C., Amatangelo, K., Dorrepaal, E., Eviner, V. T., Godoy, O., Hobbie, S. E., Hoorens, B., Kurokawa, H., & Pérez-Harguindeguy, N. (2008). Plant species traits are the predominant control on litter decomposition rates within biomes worldwide. *Ecology Letters*, 11(10), 1065–1071.
- Cotrufo, M. F., Wallenstein, M. D., Boot, C. M., Denef, K., & Paul, E. (2013). The Microbial Efficiency-Matrix Stabilization (MEMS) framework integrates plant litter decomposition with soil organic matter stabilization: do labile plant inputs form stable soil organic matter? *Global Change Biology*, 19(4), 988–995.
- Croft-Cusworth, C. (2016). *Growing new energy - CIFOR Forests News*. <https://forestsnews.cifor.org/45603/growing-new-energy?fnl=en> (accessed on



21-10-2022)

- Crow, T. R. (1978a). Biomass and production in three contiguous forests in northern Wisconsin. *Ecology*, 59(2), 265–273.
- Crow, T. R. (1978b). Common regressions to estimate tree biomass in tropical stands. *Forest Science*, 24(1), 110–114.
- Daba, D. E., & Soromessa, T. (2019). The accuracy of species-specific allometric equations for estimating aboveground biomass in tropical moist montane forests: case study of *Albizia grandibracteata* and *Trichilia dregeana*. *Carbon Balance and Management*, 14(1), 1–13.
- De Deyn, G. B., Cornelissen, J. H. C., & Bardgett, R. D. (2008). Plant functional traits and soil carbon sequestration in contrasting biomes. *Ecology Letters*, 11(5), 516–531.
- de Groot, C. C., Marcelis, L. F. M., van den Boogaard, R., & Lambers, H. (2002). Interactive effects of nitrogen and irradiance on growth and partitioning of dry mass and nitrogen in young tomato plants. *Functional Plant Biology*, 29(11), 1319–1328.
- De Vries, F. T., Manning, P., Tallowin, J. R. B., Mortimer, S. R., Pilgrim, E. S., Harrison, K. A., Hobbs, P. J., Quirk, H., Shipley, B., & Cornelissen, J. H. C. (2012). Abiotic drivers and plant traits explain landscape-scale patterns in soil microbial communities. *Ecology Letters*, 15(11), 1230–1239.
- DeLaune, R. D., Buresh, R. J., & Patrick Jr, W. H. (1979). Relationship of soil properties to standing crop biomass of *Spartina alterniflora* in a Louisiana marsh. *Estuarine and Coastal Marine Science*, 8(5), 477–487.
- DeWalt, S. J., & Chave, J. (2004). Structure and biomass of four lowland Neotropical forests. *Biotropica*, 36(1), 7–19.
- Díaz, S., Lavorel, S., de Bello, F., Quétier, F., Grigulis, K., & Robson, T. M. (2007). Incorporating plant functional diversity effects in ecosystem service assessments. *Proceedings of the National Academy of Sciences*, 104(52), 20684–20689.
- Dignac, M.-F., Derrien, D., Barré, P., Barot, S., Céillon, L., Chenu, C., Chevallier, T., Freschet, G. T., Garnier, P., Guenet, B., Hedde, M., Klumpp, K., Lashermes, G., Maron, P.-A., Nunan, N., Roumet, C., & Basile-Doelsch, I. (2017). Increasing soil carbon storage: mechanisms, effects of agricultural practices and proxies. A review. *Agronomy for Sustainable Development*, 37(2), 14. <https://doi.org/10.1007/s13593-017-0421-2>
- Djomo, A. N., Ibrahima, A., Saborowski, J., & Gravenhorst, G. (2010). Allometric equations for biomass estimations in Cameroon and pan moist tropical equations including biomass data from Africa. *Forest Ecology and Management*, 260(10), 1873–1885.
- Dlugokencky, E., & Tans, P. (2018). *Trends in atmospheric carbon dioxide*, National Oceanic & Atmospheric Administration, Earth System Research Laboratory (NOAA/ESRL).
- Dominguez, J., Negrín, M. A., & Rodriguez, C. M. (2001). Aggregate water-stability, particle-size and soil solution properties in conducive and suppressive soils to

- Fusarium wilt of banana from Canary Islands (Spain). *Soil Biology and Biochemistry*, 33(4–5), 449–455.
- Du, Z., Wang, W., Zeng, W., & Zeng, H. (2014). Nitrogen deposition enhances carbon sequestration by plantations in northern China. *PLoS One*, 9(2), e87975.
- Edouard Rambaut, L.-A., Vayssières, J., Versini, A., Salgado, P., Lecomte, P., & Tillard, E. (2022). 15-year fertilization increased soil organic carbon stock even in systems reputed to be saturated like permanent grassland on andosols. *Geoderma*, 425, 116025. <https://doi.org/https://doi.org/10.1016/j.geoderma.2022.116025>
- Eggleston, S., Buendia, L., Miwa, K., Ngara, T., & Tanabe, K. (2006). *IPCC guidelines for national greenhouse gas inventories*.
- Eglin, T., Ciais, P., Piao, S. L., Barre, P., Bellassen, V., Cadule, P., Chenu, C., Gasser, T., Koven, C., Reichstein, M., & Smith, P. (2010). Historical and future perspectives of global soil carbon response to climate and land-use changes. *Tellus B: Chemical and Physical Meteorology*, 62(5), 700–718. <https://doi.org/10.1111/j.1600-0889.2010.00499.x>
- Eissenstat, D. M., & Yanai, R. D. (2002). Root life span, efficiency, and turnover. In *Plant Roots* (pp. 367–394). CRC Press.
- Eldridge, K., Davidson, J., Harwood, C., & Wyk, G. van. (1994). *Eucalypt domestication and breeding*. Clarendon Press.
- Elser, J. J., Bracken, M. E. S., Cleland, E. E., Gruner, D. S., Harpole, W. S., Hillebrand, H., Ngai, J. T., Seabloom, E. W., Shurin, J. B., & Smith, J. E. (2007). Global analysis of nitrogen and phosphorus limitation of primary producers in freshwater, marine and terrestrial ecosystems. *Ecology Letters*, 10(12), 1135–1142.
- Fahey, T. J., Siccama, T. G., Driscoll, C. T., Likens, G. E., Campbell, J., Johnson, C. E., Battles, J. J., Aber, J. D., Cole, J. J., & Fisk, M. C. (2005). The biogeochemistry of carbon at Hubbard Brook. *Biogeochemistry*, 75(1), 109–176.
- Faida, L. R. W., Sutikno, S., Fandeli, C., & Sunarto, S. (2011). Rekonstruksi hutan purba di kawasan Karst Gunungsewu dalam periode sejarah manusia. *Jurnal Ilmu Kehutanan*, 5(2), 79–90.
- Fang, J., Guo, Z., Hu, H., Kato, T., Muraoka, H., & Son, Y. (2014). Forest biomass carbon sinks in East Asia, with special reference to the relative contributions of forest expansion and forest growth. *Global Change Biology*, 20(6), 2019–2030.
- Fang, J., Tang, Y., & Son, Y. (2010). Why are East Asian ecosystems important for carbon cycle research? *Science China. Life Sciences*, 53(7), 753.
- Feldpausch, T. R., Banin, L., Phillips, O. L., Baker, T. R., Lewis, S. L., Quesada, C. A., Affum-Baffoe, K., Arets, E. J. M. M., Berry, N. J., & Bird, M. (2011). Height-diameter allometry of tropical forest trees. *Biogeosciences*, 8(5), 1081–1106.
- Feng, W., Plante, A. F., & Six, J. (2013). Improving estimates of maximal organic carbon stabilization by fine soil particles. *Biogeochemistry*, 112(1), 81–93.
- Fernández, F. G., & Hoefft, R. G. (2009). Managing soil pH and crop nutrients. *Illinois Agronomy Handbook*, 24, 91–112.

- Finkeldey, R., & Hattemer, H. H. (2007). *Tropical forest genetics*. Springer.
- Fonweban, J. N. (1997). Effect of log formula, log length and method of measurement on the accuracy of volume estimates for three tropical timber species in Cameroon. *The Commonwealth Forestry Review*, 114–120.
- Fortunel, C., Violle, C., Roumet, C., Buatois, B., Navas, M.-L., & Garnier, E. (2009). Allocation strategies and seed traits are hardly affected by nitrogen supply in 18 species differing in successional status. *Perspectives in Plant Ecology, Evolution and Systematics*, 11(4), 267–283.
- Friday, J. B., & Okano, D. (2006). *Calophyllum inophyllum* (kamani) Clusiaceae (syn. Guttiferae) (mangosteen family) Species Profiles for Pacific Island Agroforestry [www.traditionaltree.org](http://www.traditionaltree.org). *Doc-Developpement-Durable.Org*, April. [www.traditionaltree.org](http://www.traditionaltree.org)
- Friedlingstein, P., O'sullivan, M., Jones, M. W., Andrew, R. M., Hauck, J., Olsen, A., Peters, G. P., Peters, W., Pongratz, J., & Sitch, S. (2020). Global carbon budget 2020. *Earth System Science Data*, 12(4), 3269–3340.
- Garcia-Pausas, J., Casals, P., Camarero, L., Huguet, C., Sebastia, M.-T., Thompson, R., & Romanya, J. (2007). Soil organic carbon storage in mountain grasslands of the Pyrenees: effects of climate and topography. *Biogeochemistry*, 82(3), 279–289.
- Gardiner, D. T., & Miller, R. W. (2004). *Soils in our environment*. NJ.
- Ghai, S. K., Rao, D. L. N., & Batra, L. (1988). Nitrogen contribution to wetland rice by green manuring with *Sesbania* spp. in an alkaline soil. *Biology and Fertility of Soils*, 6(1), 22–25.
- Gholz, H. L., Wedin, D. A., Smitherman, S. M., Harmon, M. E., & Parton, W. J. (2000). Long-term dynamics of pine and hardwood litter in contrasting environments: toward a global model of decomposition. *Global Change Biology*, 6(7), 751–765.
- Gogoi, A., Sahoo, U. K., & Singh, S. L. (2017). Assessment of biomass and total carbon stock in a tropical wet evergreen rainforest of Eastern Himalaya along a disturbance gradient. *J Plant Biol Soil Health*, 4(1), 1–8.
- Goodale, C. L., Apps, M. J., Birdsey, R. A., Field, C. B., Heath, L. S., Houghton, R. A., Jenkins, J. C., Kohlmaier, G. H., Kurz, W., & Liu, S. (2002). Forest carbon sinks in the Northern Hemisphere. *Ecological Applications*, 12(3), 891–899.
- Graber, E. R., Fine, P., & Levy, G. J. (2006). Soil stabilization in semiarid and arid land agriculture. *Journal of Materials in Civil Engineering*, 18(2), 190–205.
- Grandy, A. S., & Neff, J. C. (2008). Molecular C dynamics downstream: the biochemical decomposition sequence and its impact on soil organic matter structure and function. *Science of the Total Environment*, 404(2–3), 297–307.
- Grandy, S., & Jilling, A. (2018). Quantifying potential priming mechanisms providing plants and microbes access to mineral-associated organic carbon and nitrogen. *AGU Fall Meeting Abstracts*, 2018, B32C-05.
- Groß, J. (2003). Variance inflation factors. *R News*, 3(1), 13–15.
- Guppy, C. N., Menzies, N. W., Moody, P. W., & Blamey, F. P. C. (2005). Competitive sorption reactions between phosphorus and organic matter in soil: a review. *Soil*



*Research*, 43(2), 189–202.

- Gupta, R. K., & Abrol, I. P. (1990). Salt-affected soils: their reclamation and management for crop production. *Advances in Soil Science*, 223–288.
- Hair Joseph, F., Anderson Rolph, E., Tatham Ronald, L., & Black William, C. (1994). *Multivariate data analysis with readings*. Macmillan Publishing Company.
- Hall, S. J., Silver, W. L., Timokhin, V. I., & Hammel, K. E. (2015). Lignin decomposition is sustained under fluctuating redox conditions in humid tropical forest soils. *Global Change Biology*, 21(7), 2818–2828.
- Hani, A., & Rachman, E. (2016). Pertumbuhan Tanaman Nyamplung sampai umur 4 (empat) tahun pada tiga pola tanam dan dosis pupuk di lahan Pantai Berpasir Pangandaran, Jawa Barat. *Jurnal Penelitian Kehutanan Wallacea* 5 (2), 151–158.
- Hartmann, J., & Kempe, S. (2008). What is the maximum potential for CO<sub>2</sub> sequestration by “stimulated” weathering on the global scale? *Naturwissenschaften*, 95(12), 1159–1164.
- Hathurusingha, S., & Ashwath, N. (2007). Beauty Leaf (*Calophyllum inophyllum* L.), tree: a tree with great economic potential. *Proceedings of International Forestry and Environment Symposium*.
- Hathurusingha, S., & Ashwath, N. (2011). Variations in bark thickness and sapwood density of *Calophyllum inophyllum* provenances in Australia and in Sri Lanka. *Journal of Forestry Research*, 22(3), 399–402. <https://doi.org/10.1007/s11676-011-0114-7>
- Hathurusingha, S., Ashwath, N., & Midmore, D. (2011). Provenance variations in seed-related characters and oil content of *Calophyllum inophyllum* L. in northern Australia and Sri Lanka. *New Forests*, 41(1), 89–94.
- Hayes, A. J. (1965). Studies on the Decomposition of Coniferous leaf litter1: I. Physical and chemical changes. *Journal of Soil Science*, 16(1), 121–140.
- Heath, L. S., Hansen, M., Smith, J. E., & Miles, P. D. (2009). Investigation into calculating tree biomass and carbon in the FIADB using a biomass expansion factor approach. In: McWilliams, Will; Moisen, Gretchen; Czaplowski, Ray, Comps. *Forest Inventory and Analysis (FIA) Symposium 2008; October 21-23, 2008; Park City, UT. Proc. RMRS-P-56CD. Fort Collins, CO: US Department of Agriculture, Forest Service, Rocky Mountain Resea*, 56.
- Hedges, J. I., Eglinton, G., Hatcher, P. G., Kirchman, D. L., Arnosti, C., Derenne, S., Evershed, R. P., Kögel-Knabner, I., de Leeuw, J. W., & Littke, R. (2000). The molecularly-uncharacterized component of nonliving organic matter in natural environments. *Organic Geochemistry*, 31(10), 945–958.
- Hein, L., & van der Meer, P. J. (2012). REDD+ in the context of ecosystem management. *Current Opinion in Environmental Sustainability*, 4(6), 604–611.
- Hepler, P. K., Vidali, L., & Cheung, A. Y. (2001). Polarized cell growth in higher plants. *Annual Review of Cell and Developmental Biology*, 17, 159.
- Hidayah, Z., & Andriyani, L. (2019). Carbon Stock Analysis of Mangrove Ecosystems in Paliat Island Sumenep East Java. *IOP Conference Series: Earth and Environmental Science*, 276(1), 12034.

- Hossain, M., Saha, C., Rubaiot Abdullah, S. M., Saha, S., & Siddique, M. R. H. (2016). Allometric biomass, nutrient and carbon stock models for *Kandelia candel* of the Sundarbans, Bangladesh. *Trees*, 30(3), 709–717. <https://doi.org/10.1007/s00468-015-1314-0>
- Hou, E., Luo, Y., Kuang, Y., Chen, C., Lu, X., Jiang, L., Luo, X., & Wen, D. (2020). Global meta-analysis shows pervasive phosphorus limitation of aboveground plant production in natural terrestrial ecosystems. *Nature Communications*, 11(1), 1–9.
- Houghton, R. A. (2007). Balancing the global carbon budget. *Annu. Rev. Earth Planet. Sci.*, 35, 313–347.
- Houghton, R. A. (2012). Historic changes in terrestrial carbon storage. In *Recarbonization of the Biosphere* (pp. 59–82). Springer.
- Houghton, R. A. (2014). *The contemporary carbon cycle*.
- Houghton, R. A., Lawrence, K. T., Hackler, J. L., & Brown, S. (2001). The spatial distribution of forest biomass in the Brazilian Amazon: a comparison of estimates. *Global Change Biology*, 7(7), 731–746.
- Hu, W., Jiang, N., Yang, J., Meng, Y., Wang, Y., Chen, B., Zhao, W., Oosterhuis, D. M., & Zhou, Z. (2016). Potassium (K) supply affects K accumulation and photosynthetic physiology in two cotton (*Gossypium hirsutum* L.) cultivars with different K sensitivities. *Field Crops Research*, 196, 51–63.
- Huang, Y., Zhao, X., Zhou, D., Zhao, H., Zhang, H., Zuo, X., & Mao, W. (2009). Allometry of *Salsola collina* in response to soil nutrients, water supply and population density. *Nordic Journal of Botany*, 27(6), 539–547.
- Hui, W., Jun, Z. H. U., Qing-Ling, F. U., XIONG, J.-W., Can, H., Hong-Qing, H. U., & Violante, A. (2015). Adsorption of phosphate onto ferrihydrite and ferrihydrite-humic acid complexes. *Pedosphere*, 25(3), 405–414.
- Ilyas, M., Qureshi, R. H., & Qadir, M. A. (1997). Chemical changes in a saline-sodic soil after gypsum application and cropping. *Soil Technology*, 10(3), 247–260.
- IPCC. (2007). Climate change 2007: synthesis report. In *Contribution of working groups I, II and III to the fourth assessment report of the intergovernmental panel on climate change* (p. 104). IPCC Geneva, Switzerland.
- IPCC. (2013). *Climate Change 2013: The Physical Science basis*.
- IPCC, G. P. G. (2003). Good practice guidance for land use, land-use change and forestry. *Institute for Global Environmental Strategies (IGES)*.
- Iwasaki, S., Endo, Y., & Hatano, R. (2017). The effect of organic matter application on carbon sequestration and soil fertility in upland fields of different types of Andosols. *Soil Science and Plant Nutrition*, 63(2), 200–220.
- Jachowski, N. R. A., Quak, M. S. Y., Friess, D. A., Duangnamon, D., Webb, E. L., & Ziegler, A. D. (2013). Mangrove biomass estimation in Southwest Thailand using machine learning. *Applied Geography*, 45, 311–321.
- Jarvis, P. G., Ibrom, A., & Linder, S. (2004). ‘Carbon forestry’: managing forests to conserve carbon. *The Carbon Balance of Forest Biomes*, 331–349.

- Jatav, B. K., Sharma, T. K., & Dassani, S. (n.d.). *BIODEGRADATION AND ESTIMATION OF CELLULOSE, HEMICELLULOSE AND LIGNIN CONTENT OF ANOGEISSUS PENDULA LEAF LITTER IN DATIA, MADHYA PRADESH, INDIA*.
- Jenkins, J. C., Chojnacky, D. C., Heath, L. S., & Birdsey, R. A. (2003). National-scale biomass estimators for United States tree species. *Forest Science*, 49(1), 12–35.
- Jenny, H. (1980). The soil resource: origin and behavior. *Ecological Studies*, 37, 276–304.
- Jenny, H. (1994). *Factors of soil formation: a system of quantitative pedology*. Courier Corporation.
- Jensen, N. F. (1988). *Plant breeding methodology*. John Wiley & Sons, Inc.
- Jobbágy, E. G., & Jackson, R. B. (2000). The vertical distribution of soil organic carbon and its relation to climate and vegetation. *Ecological Applications*, 10(2), 423–436.
- Jones, D. L., Nguyen, C., & Finlay, R. D. (2009). Carbon flow in the rhizosphere: carbon trading at the soil–root interface. *Plant and Soil*, 321(1), 5–33.
- Joos, F., & Spahni, R. (2008). Rates of change in natural and anthropogenic radiative forcing over the past 20,000 years. *Proceedings of the National Academy of Sciences*, 105(5), 1425–1430.
- Jury, W. A., Jarrell, W. M., & Devitt, D. (1979). Reclamation of saline-sodic soils by leaching. *Soil Science Society of America Journal*, 43(6), 1100–1106.
- Kaiser, W. M. (1982). Correlation between changes in photosynthetic activity and changes in total protoplast volume in leaf tissue from hygro-, meso- and xerophytes under osmotic stress. *Planta*, 154(6), 538–545.
- Kenzo, T., Furutani, R., Hattori, D., Kendawang, J. J., Tanaka, S., Sakurai, K., & Ninomiya, I. (2009). Allometric equations for accurate estimation of above-ground biomass in logged-over tropical rainforests in Sarawak, Malaysia. *Journal of Forest Research*, 14(6), 365–372.
- Kimmins, J. P. (2004). Forest ecology. *Fishes and Forestry: Worldwide Watershed Interactions and Management*, 17–43.
- Kindermann, G., McCallum, I., Fritz, S., & Obersteiner, M. (2008). A global forest growing stock, biomass and carbon map based on FAO statistics. *Silva Fennica*, 42(3), 387–396.
- Kira, T., & Shidei, T. (1967). Primary production and turnover of organic matter in different forest ecosystems of the western Pacific. *Japanese Journal of Ecology*, 17(2), 70–87.
- KLHK. (2021). The State of the World's Forests 2020. In *The State of the World's Forests 2020*. <https://doi.org/10.4060/ca8642en>
- KLHK. (2022). *Enhanced Nationally Determined Contribution (Endc)\_ Komitmen Indonesia Untuk Makin Berkontribusi Dalam Menjaga Suhu Global*.
- Kögel-Knabner, I. (2002). The macromolecular organic composition of plant and

- microbial residues as inputs to soil organic matter. *Soil Biology and Biochemistry*, 34(2), 139–162.
- Körner, C. (2006). Plant CO<sub>2</sub> responses: an issue of definition, time and resource supply. *New Phytologist*, 172(3), 393–411.
- Koskela, J., Buck, A., & du Cros, E. T. (2007). *EUFORGEN Climate change and forest genetic diversity*. Bioversity International.
- Kozlowski, T. T., Kramer, P. J., & Pallardy, S. G. (1991). How woody plants grow. *The Physiological Ecology Of Woody Plants*. Academic Press. San Diego, CA, 4–29.
- Kramer, P. J. (1981). Carbon dioxide concentration, photosynthesis, and dry matter production. *BioScience*, 31(1), 29–33.
- Krisnawati, H., Adinugroho, W. C., & Imanuddin, R. (2012). *Monograph: Allometric Models for Estimating Tree Biomass at Various Forest Ecosystem Types in Indonesia*. Research and Development Center for Conservation and Rehabilitation, Forestry Research and Development Agency – Ministry of Forestry. <https://doi.org/DOI: 10.13140/RG.2.1.4139.2161>
- Kronzucker, H. J., Siddiqi, M. Y., & Glass, A. D. M. (1997). Conifer root discrimination against soil nitrate and the ecology of forest succession. *Nature*, 385(6611), 59–61.
- Kumar, R., Mehta, H., Kumar, A., Bhardwaj, A. K., Kaushal, R., Dobhal, S., Gupta, A. K., Banyal, R., Kumar, M., Kumar, S., & Verma, K. (2021). Seed source variation affects the growth, biomass, carbon stock, and climate resilience potential: A case study of *Celtis australis* in Indian Himalayas. *Global Ecology and Conservation*, 26, e01469. <https://doi.org/https://doi.org/10.1016/j.gecco.2021.e01469>
- Kuyah, S., Dietz, J., Muthuri, C., Jamnadass, R., Mwangi, P., Coe, R., & Neufeldt, H. (2012). Allometric equations for estimating biomass in agricultural landscapes: II. Belowground biomass. *Agriculture, Ecosystems & Environment*, 158, 225–234.
- Kuyah, S., Sileshi, G. W., & Rosenstock, T. S. (2016). Allometric Models Based on Bayesian Frameworks Give Better Estimates of Aboveground Biomass in the Miombo Woodlands. In *Forests* (Vol. 7, Issue 2). <https://doi.org/10.3390/f7020013>
- Lado, M., Paz, A., & Ben-Hur, M. (2004). Organic matter and aggregate-size interactions in saturated hydraulic conductivity. *Soil Science Society of America Journal*, 68(1), 234–242.
- Lal, R. (2010). Managing soils and ecosystems for mitigating anthropogenic carbon emissions and advancing global food security. *BioScience*, 60(9), 708–721.
- Lal, R. (2011). Sequestering carbon in soils of agro-ecosystems. *Food Policy*, 36, S33–S39.
- Lal, R., Kimble, J. M., Stewart, B. A., & Eswaran, H. (1999). *Global climate change and pedogenic carbonates*.
- Lal, R., Lorenz, K., Hüttl, R. F., Schneider, B. U., & von Braun, J. (Eds.). (2012). *Recarbonization of the Biosphere*. Springer Netherlands. <https://doi.org/10.1007/978-94-007-4159-1>

- Lamichhane, U., & Ghimire, P. (2022). Vertical distribution of soil properties and soil organic carbon in community managed forest of Siwalik Hill, Nepal. *Asian Journal of Forestry*, 6(2).
- Lamlom, S. H., & Savidge, R. A. (2003). A reassessment of carbon content in wood: variation within and between 41 North American species. *Biomass and Bioenergy*, 25(4), 381–388.
- Laurance, W. F., Fearnside, P. M., Laurance, S. G., Delamonica, P., Lovejoy, T. E., Rankin-de Merona, J. M., Chambers, J. Q., & Gascon, C. (1999). Relationship between soils and Amazon forest biomass: a landscape-scale study. *Forest Ecology and Management*, 118(1–3), 127–138.
- Lehmann, J., Solomon, D., Kinyangi, J., Dathe, L., Wirick, S., & Jacobsen, C. (2008). Spatial complexity of soil organic matter forms at nanometre scales. *Nature Geoscience*, 1(4), 238–242.
- Leksono, B. (1998). Analisis Kombinasi Uji Provenansi dan Ras Lahan Sengon (*Paraserianthes falcataria*) Umur 6 Bulan di Muara Teweh, Kalimantan Tengah. *Buletin Kehutanan= Forestry Bulletin*, 1998.
- Leksono, B., E., W., T.M., H., H.A., A., & A.I., P. (2019). Bunga Rampai Inovasi Penyediaan Feedstock Energi Terbaru dari Sektor Kehutanan Menuju Kemandirian Energi Nasional. In W. D. G., E. Widyati, L. Abdullah, M. Yulianti, B. H. Narendra, D. Yuniati (Ed.), *Journal of Chemical Information and Modeling* (Cet. I. De, Vol. 53, Issue 9, pp. 1689–1699). Percetakan IPB.
- Leksono, B., Hendrati, R. L., Windyarini, E., & Hasnah, T. (2014). Variation in Biofuel Potential of Twelve *Calophyllum inophyllum* Populations in Indonesia. *Indonesian Journal of Forestry Research*, 1(2), 127–138.
- Leksono, B., Hendrati, R., Windyarini, E., & Hasnah, T. (2013). Coumarins content of seed and crude oil of nyamplung (*Calophyllum inophyllum*) from forest stands in Indonesia. *Proceedings of the Forests And Medicinal Plants For Better Human Welfare*, 107–118.
- Leksono, B., Sukartiningsih, Windyarini, E., Adinugraha, H. A., Artati, Y., Kwon, J., & Baral, H. (2021). Growth performance of *Calophyllum inophyllum* at a bioenergy trial plot in Bukit Soeharto Research and Education Forest, East Kalimantan. *IOP Conference Series: Earth and Environmental Science*, 749(1), 12059. <https://doi.org/10.1088/1755-1315/749/1/012059>
- Leksono, B., Windyarini, E., & Hasnah, T. M. (2014). Budidaya tanaman Nyamplung (*Calophyllum inophyllum* L.) Untuk bioenergi dan prospek pemanfaatan lainnya. *IPB Press*, 8.
- Leksono, B., Windyarini, E., & Hasnah, T. M. (2015). Growth, flowering, fruiting and biofuel content of *Calophyllum inophyllum* in provenance seed stand. *Proceedings of the International Conference of Indonesia Forestry Researchers III-2015, Bogor, Indonesia*, 21–22.
- Leksono, B., Windyarini, E., Hasnah, T. M., Rahman, S., & Baral, H. (2018). *Calophyllum inophyllum* for green energy and landscape restoration: plant growth, biofuel content, associate waste utilization and agroforestry prospect. *2018 International Conference and Utility Exhibition on Green Energy for Sustainable Development (ICUE)*, 1–7.



- Lewis, S. L., Lopez-Gonzalez, G., Sonké, B., Affum-Baffoe, K., Baker, T. R., Ojo, L. O., Phillips, O. L., Reitsma, J. M., White, L., Comiskey, J. A., K., M.-N. D., Ewango, C. E. N., Feldpausch, T. R., Hamilton, A. C., Gloor, M., Hart, T., Hladik, A., Lloyd, J., Lovett, J. C., ... Wöll, H. (2009). Increasing carbon storage in intact African tropical forests. *Nature*, 457(7232), 1003–1006. <https://doi.org/10.1038/nature07771>
- Li, C., Sidders, D., Barclay, H. J., & Hans, H. (2015). *Estimation of log volumes: a comparative study* (Issue FI-X-11). Natural Resources Canada, Canadian Forest Service, Canadian Wood Fibre ....
- Li, J., Nie, M., Powell, J. R., Bissett, A., & Pendall, E. (2020). Soil physico-chemical properties are critical for predicting carbon storage and nutrient availability across Australia. *Environmental Research Letters*, 15(9), 94088.
- Li, S., Su, J., Liu, W., Lang, X., Huang, X., Jia, C., Zhang, Z., & Tong, Q. (2015). Changes in biomass carbon and soil organic carbon stocks following the conversion from a secondary coniferous forest to a pine plantation. *PLOS One*, 10(9), e0135946.
- Li, X.-G., Li, F.-M., Zed, R., & Zhan, Z.-Y. (2007). Soil physical properties and their relations to organic carbon pools as affected by land use in an alpine pastureland. *Geoderma*, 139(1–2), 98–105.
- Liang, C., Kästner, M., & Joergensen, R. G. (2020). Microbial necromass on the rise: The growing focus on its role in soil organic matter development. In *Soil Biology and Biochemistry* (Vol. 150, p. 108000). Elsevier.
- Liebisch, F., Keller, F., Huguenin-Elie, O., Frossard, E., Oberson, A., & Bünemann, E. K. (2014). Seasonal dynamics and turnover of microbial phosphorus in a permanent grassland. *Biology and Fertility of Soils*, 50(3), 465–475.
- Lindgren, D. (2016). The role of tree breeding in reforestation. *Reforesta*, 1(1), 221–237.
- Lindgren, D., & Persson, A. (1997). *Vitalization of results from provenance tests*. na.
- Liu, C., Lu, M., Cui, J., Li, B., & Fang, C. (2014). Effects of straw carbon input on carbon dynamics in agricultural soils: a meta-analysis. *Global Change Biology*, 20(5), 1366–1381.
- Liu, M., Li, C., Xu, X., Wanek, W., Jiang, N., Wang, H., & Yang, X. (2017). Organic and inorganic nitrogen uptake by 21 dominant tree species in temperate and tropical forests. *Tree Physiology*, 37(11), 1515–1526.
- Logsdon, S. D., Parker, J. C., & Reneau, R. B. (1987). Root growth as influenced by aggregate size. *Plant and Soil*, 99(2), 267–275. <https://doi.org/10.1007/BF02370873>
- Lorenz, K., & Lal, R. (2009). *Carbon sequestration in forest ecosystems*. Springer. <https://doi.org/10.1007/978-94-007-4159-1>
- Lorenz, K., & Lal, R. (2022). *Soil Organic Carbon Stocks BT - Soil Organic Carbon Sequestration in Terrestrial Biomes of the United States* (K. Lorenz & R. Lal (Eds.); pp. 33–54). Springer International Publishing. [https://doi.org/10.1007/978-3-030-95193-1\\_2](https://doi.org/10.1007/978-3-030-95193-1_2)

- Losi, C. J., Siccama, T. G., Condit, R., & Morales, J. E. (2003). Analysis of alternative methods for estimating carbon stock in young tropical plantations. *Forest Ecology and Management*, 184(1), 355–368. [https://doi.org/https://doi.org/10.1016/S0378-1127\(03\)00160-9](https://doi.org/https://doi.org/10.1016/S0378-1127(03)00160-9)
- Luo, X., Mazer, S. J., Guo, H., Zhang, N., Weiner, J., & Hu, S. (2016). Nitrogen: phosphorous supply ratio and allometry in five alpine plant species. *Ecology and Evolution*, 6(24), 8881–8892.
- Luo, Z., Feng, W., Luo, Y., Baldock, J., & Wang, E. (2017). Soil organic carbon dynamics jointly controlled by climate, carbon inputs, soil properties and soil carbon fractions. *Global Change Biology*, 23(10), 4430–4439.
- Lützow, M. v, Kögel-Knabner, I., Ekschmitt, K., Matzner, E., Guggenberger, G., Marschner, B., & Flessa, H. (2006). Stabilization of organic matter in temperate soils: mechanisms and their relevance under different soil conditions—a review. *European Journal of Soil Science*, 57(4), 426–445.
- Machinet, G. E., Bertrand, I., Barrière, Y., Chabbert, B., & Recous, S. (2011). Impact of plant cell wall network on biodegradation in soil: role of lignin composition and phenolic acids in roots from 16 maize genotypes. *Soil Biology and Biochemistry*, 43(7), 1544–1552.
- Maimunah, S., Rahman, S. A., Samsudin, Y. B., Artati, Y., Simamora, T. I., Andini, S., Lee, S. M., & Baral, H. (2018). Assessment of suitability of tree species for bioenergy production on burned and degraded peatlands in Central Kalimantan, Indonesia. *Land*, 7(4), 115.
- Manuri, S., Putra, C. A. S., & Saputra, A. D. (2011). Teknik pendugaan cadangan karbon hutan. *Merang REDD Pilot Project, German International Cooperation—GIZ. Palembang*.
- Marschner, H. (2011). *Marschner's mineral nutrition of higher plants*. Academic press.
- Matthews, E. (1997). Global litter production, pools, and turnover times: Estimates from measurement data and regression models. *Journal of Geophysical Research: Atmospheres*, 102(D15), 18771–18800.
- Matthews, E., Payne, R., Rohweder, M., & Murray, S. (2000). Forest ecosystem: carbon storage sequestration, carbon sequestration in soil. *Global Climate Change Digest*, 12(2), 19–99.
- McKinley, D. C., Ryan, M. G., Birdsey, R. A., Giardina, C. P., Harmon, M. E., Heath, L. S., Houghton, R. A., Jackson, R. B., Morrison, J. F., & Murray, B. C. (2011). A synthesis of current knowledge on forests and carbon storage in the United States. *Ecological Applications*, 21(6), 1902–1924.
- Meinshausen, M., Meinshausen, N., Hare, W., Raper, S. C. B., Frieler, K., Knutti, R., Frame, D. J., & Allen, M. R. (2009). Greenhouse-gas emission targets for limiting global warming to 2 C. *Nature*, 458(7242), 1158–1162.
- Melson, S. L., Harmon, M. E., Fried, J. S., & Domingo, J. B. (2011). Estimates of live-tree carbon stores in the Pacific Northwest are sensitive to model selection. *Carbon Balance and Management*, 6(1), 2. <https://doi.org/10.1186/1750-0680-6-2>
- Mengel, K., & Kirkby, E. A. (2012). *Principles of plant nutrition*. Springer Science &

Business Media.

- Mertz, O., Müller, D., Sikor, T., Hett, C., Heinimann, A., Castella, J.-C., Lestrelin, G., Ryan, C. M., Reay, D. S., & Schmidt-Vogt, D. (2012). The forgotten D: challenges of addressing forest degradation in complex mosaic landscapes under REDD+. *Geografisk Tidsskrift-Danish Journal of Geography*, 112(1), 63–76.
- Mi, N. A., Wang, S., Liu, J., Yu, G., Zhang, W., & Jobbagy, E. (2008). Soil inorganic carbon storage pattern in China. *Global Change Biology*, 14(10), 2380–2387.
- Minasny, B., Malone, B. P., McBratney, A. B., Angers, D. A., Arrouays, D., Chambers, A., Chaplot, V., Chen, Z.-S., Cheng, K., & Das, B. S. (2017). Soil carbon 4 per mille. *Geoderma*, 292, 59–86.
- Misra, R. K., Dexter, A. R., & Alston, A. M. (1986). Penetration of soil aggregates of finite size. *Plant and Soil*, 94(1), 59–85.
- Montagu, K. D., Düttmer, K., Barton, C. V. M., & Cowie, A. L. (2005). Developing general allometric relationships for regional estimates of carbon sequestration—an example using *Eucalyptus pilularis* from seven contrasting sites. *Forest Ecology and Management*, 204(1), 115–129.
- Mooney, H. A. (1972). The carbon balance of plants. *Annual Review of Ecology and Systematics*, 315–346.
- Moorhead, D. L., & Sinsabaugh, R. L. (2006). A theoretical model of litter decay and microbial interaction. *Ecological Monographs*, 76(2), 151–174.
- Muhartanto, A., Hidartan, Djohor, D. S., & Mukti, N. (2007). *Kawasan karst gunung sewu & potensinya*.
- Mukaka, M. M. (2012). Statistics corner: A guide to appropriate use of correlation coefficient in medical research. *Malawi Medical Journal: The Journal of Medical Association of Malawi*, 24(3), 69–71.
- Müller, I., Schmid, B., & Weiner, J. (2000). The effect of nutrient availability on biomass allocation patterns in 27 species of herbaceous plants. *Perspectives in Plant Ecology, Evolution and Systematics*, 3(2), 115–127.
- Mulyana, B., Purwanto, R. H., & Reorita, R. (2021). Allometric model to estimate biomass of leave-twigs cajuput (*Melaleuca cajuput*) at KPH Yogyakarta, Indonesia. *IOP Conference Series: Earth and Environmental Science*, 724(1), 12084.
- Mulyana, B., Soeprijadi, D., & Purwanto, R. H. (2020). Allometric Model Of Wood Biomass And Carbon For *Gliricidia* (*Gliricidia Sepium* (Jacq.) Kunth Ex Walp.) At Bioenergy Plantation In Indonesia. *Forestry Ideas*, 26(1), 153–164.
- Murdiyarso, D., Brockhaus, M., Sunderlin, W. D., & Verchot, L. (2012). Some lessons learned from the first generation of REDD+ activities. *Current Opinion in Environmental Sustainability*, 4(6), 678–685.
- Nguyen, C. (2009). Rhizodeposition of organic C by plant: mechanisms and controls. *Sustainable Agriculture*, 97–123.
- Nogueira, E. M., Fearnside, P. M., Nelson, B. W., & França, M. B. (2007). Wood density in forests of Brazil's 'arc of deforestation': Implications for biomass and flux of carbon from land-use change in Amazonia. *Forest Ecology and*

*Management,*

248(3),

119–135.

<https://doi.org/https://doi.org/10.1016/j.foreco.2007.04.047>

- Nolan, T., Troy, S. M., Healy, M. G., Kwapinski, W., Leahy, J. J., & Lawlor, P. G. (2011). Characterization of compost produced from separated pig manure and a variety of bulking agents at low initial C/N ratios. *Bioresource Technology*, 102(14), 7131–7138.
- Novaes, E., Osorio, L., Drost, D. R., Miles, B. L., Boaventura-Novaes, C. R. D., Benedict, C., Dervinis, C., Yu, Q., Sykes, R., & Davis, M. (2009). Quantitative genetic analysis of biomass and wood chemistry of *Populus* under different nitrogen levels. *New Phytologist*, 182(4), 878–890.
- Nurtjahjaningsih, I. L. G., Haryanti, T., Widyatmoko, A., Indrioko, S., & Rimbawanto, A. (2015). Keragaman genetik populasi *Calophyllum inophyllum* menggunakan penanda RAPD (Random Amplification Polymorphism DNA). *Jurnal Pemuliaan Tanaman Hutan*, 9(2), 91–102.
- Nuswantoro. (2022). *Can the little-known tamanu tree replace palm oil in Indonesia's biofuel bid?* <https://news.mongabay.com/2022/02/can-the-little-known-tamanu-tree-replace-palm-oil-in-indonesias-biofuel-bid/> (accessed on 21-10-2022).
- Ong, H. C., Milano, J., Silitonga, A. S., Hassan, M. H., Wang, C.-T., Mahlia, T. M. I., Siswantoro, J., Kusumo, F., & Sutrisno, J. (2019). Biodiesel production from *Calophyllum inophyllum*-*Ceiba pentandra* oil mixture: Optimization and characterization. *Journal of Cleaner Production*, 219, 183–198.
- Ong, H. C., Silitonga, A. S., Mahlia, T. M. I., Masjuki, H. H., & Chong, W. T. (2013). *Energy, emission and economic impact of palm, jatropha curcas and calophyllum inophyllum biodiesel as biofuel for road transport.*
- Oosterhuis, D. M., Loka, D. A., Kawakami, E. M., & Pettigrew, W. T. (2014). The physiology of potassium in crop production. *Advances in Agronomy*, 126, 203–233.
- Osborne, B. B., Nasto, M. K., Asner, G. P., Balzotti, C. S., Cleveland, C. C., Sullivan, B. W., Taylor, P. G., Townsend, A. R., & Porder, S. (2017). Climate, Topography, and Canopy Chemistry Exert Hierarchical Control Over Soil N Cycling in a Neotropical Lowland Forest. *Ecosystems*, 20(6), 1089–1103. <https://doi.org/10.1007/s10021-016-0095-7>
- Oster, J. D., Shainberg, I., & Abrol, I. P. (1999). Reclamation of salt-affected soils. *Agricultural Drainage*, 38, 659–691.
- Pan, Y., Birdsey, R. A., Fang, J., Houghton, R., Kauppi, P. E., Kurz, W. A., Phillips, O. L., Shvidenko, A., Lewis, S. L., & Canadell, J. G. (2011). A large and persistent carbon sink in the world's forests. *Science*, 333(6045), 988–993.
- Pancel, L., & Köhl, M. (2016). *Tropical forestry handbook*. Springer.
- Pandey, H. P., Pandey, P., Pokhrel, S., & Mandal, R. A. (2019). Relationship between soil properties and forests carbon: Case of three community forests from Far Western Nepal. *Banko Janakari*, 29(1), 43–52.
- Parr, J. F., Papendick, R. I., Hornick, S. B., & Colacicco, D. (1989). Use of organic amendments for increasing the productivity of arid lands. *Arid Land Research and Management*, 3(2), 149–170.

- Paustian, K., Lehmann, J., Ogle, S., Reay, D., Robertson, G. P., & Smith, P. (2016). Climate-smart soils. *Nature*, 532(7597), 49–57.
- Pederson, A. P., Olesen, K., & Graudal, L. (1993). *Tree improvement at species and provenance level*. 1993, 72.
- Peichl, M., & Arain, M. A. (2007). Allometry and partitioning of above-and belowground tree biomass in an age-sequence of white pine forests. *Forest Ecology and Management*, 253(1–3), 68–80.
- Peng, Y., & Yang, Y. (2016). Allometric biomass partitioning under nitrogen enrichment: Evidence from manipulative experiments around the world. *Scientific Reports*, 6(1), 1–7.
- Peverill, K. I., Sparrow, L. A., & Reuter, D. J. (1999). *Soil analysis: an interpretation manual*. CSIRO publishing.
- Pietri, J. C. A., & Brookes, P. C. (2008). Relationships between soil pH and microbial properties in a UK arable soil. *Soil Biology and Biochemistry*, 40(7), 1856–1861.
- PKHR. (2006). Laporan akhir rancang bangun unit manajemen hutan rakyat lestari. In *Laporan Akhir Rancang Bangun Unit Manajemen Hutan Rakyat Lestari*.
- Poblete-Grant, P., Suazo-Hernández, J., Condrón, L., Rumpel, C., Demanet, R., Malone, S. L., & Mora, M. de L. L. (2020). Soil available P, soil organic carbon and aggregation as affected by long-term poultry manure application to Andisols under pastures in Southern Chile. *Geoderma Regional*, 21, e00271. <https://doi.org/https://doi.org/10.1016/j.geodrs.2020.e00271>
- Poorter, H., & Nagel, O. (2000). The role of biomass allocation in the growth response of plants to different levels of light, CO<sub>2</sub>, nutrients and water: a quantitative review. *Functional Plant Biology*, 27(12), 1191.
- Poorter, H., Niklas, K. J., Reich, P. B., Oleksyn, J., Poot, P., & Mommer, L. (2012). Biomass allocation to leaves, stems and roots: meta-analyses of interspecific variation and environmental control. *New Phytologist*, 193(1), 30–50.
- Poorter, H., & Sack, L. (2012). Pitfalls and possibilities in the analysis of biomass allocation patterns in plants. *Frontiers in Plant Science*, 3, 259.
- Prabakaran, K., & Britto, S. J. (2012). Biology, agroforestry and medicinal value of *Calophyllum inophyllum* L.(clusiaceae): A review. *International Journal of Natural Products Research*, 1(2), 24–33.
- Pragya, N., Sharma, N., & Devnekar, A. E. (2017). Estimation of carbon emissions/savings incurred by wasteland and abandoned cropland-conversion from plantation of biofuel producing perennial tree species-Case study of India. *Global Ecology and Conservation*, 11, 158–164.
- Purves, D., & Pacala, S. (2008). Predictive models of forest dynamics. *Science*, 320(5882), 1452–1453.
- Qadir, M., & Oster, J. D. (2004). Crop and irrigation management strategies for saline-sodic soils and waters aimed at environmentally sustainable agriculture. *Science of the Total Environment*, 323(1–3), 1–19.
- Qadir, M., Qureshi, R. H., Ahmad, N., & Ilyas, M. (1996). Salt-tolerant forage cultivation on a saline-sodic field for biomass production and soil reclamation.



*Land Degradation & Development*, 7(1), 11–18.

- Qadir, M., Schubert, S., Badia, D., Sharma, B. R., Qureshi, A. S., & Murtaza, G. (2007). Amelioration and nutrient management strategies for sodic and alkali soils. *CAB Reviews Perspectives in Agriculture, Veterinary Science Nutrition and Natural Resources*, 21, 1–13.
- Qi, Y., Chen, T., Pu, J., Yang, F., Shukla, M. K., & Chang, Q. (2018). Response of soil physical, chemical and microbial biomass properties to land use changes in fixed desertified land. *Catena*, 160, 339–344.
- Rajendran, N., & Gurunathan, B. (2021). Optimization and technoeconomic analysis of biooil extraction from *Calophyllum inophyllum* L. seeds by ultrasonic assisted solvent oil extraction. *Industrial Crops and Products*, 162, 113273.
- Rasmussen, W. W., Moore, D. P., & Alban, L. A. (1972). Improvemnet of a solonetzic (slick spot) soil by deep plowing, subsoiling, and amendmets. *Soil Science Society of America Journal*, 36(1), 137–142.
- Redel, Y., Cartes, P., Demanet, R., Velásquez, G., Poblete-Grant, P., Bol, R., & Mora, M. L. (2016). Assessment of phosphorus status influenced by Al and Fe compounds in volcanic grassland soils. *Journal of Soil Science and Plant Nutrition*, 16(2), 490–506.
- Retzlaff, W. A., Handest, J. A., O'Malley, D. M., McKeand, S. E., & Topa, M. A. (2001). Whole-tree biomass and carbon allocation of juvenile trees of loblolly pine (*Pinus taeda*): influence of genetics and fertilization. *Canadian Journal of Forest Research*, 31(6), 960–970.
- Robbins, C. W. (1986). Carbon dioxide partial pressure in lysimeter soils 1. *Agronomy Journal*, 78(1), 151–158.
- Robinson, D. (2007). Implications of a large global root biomass for carbon sink estimates and for soil carbon dynamics. *Proceedings of the Royal Society B: Biological Sciences*, 274(1626), 2753–2759. <https://doi.org/10.1098/rspb.2007.1012>
- Rohošková, M., & Valla, M. (2004). Comparison of two methods for aggregate stability measurement—a review. *Plant Soil Environ*, 50(8), 379–382.
- Roxburgh, S. H., Paul, K. I., Clifford, D., England, J. R., & Raison, R. J. (2015). Guidelines for constructing allometric models for the prediction of woody biomass: how many individuals to harvest? *Ecosphere*, 6(3), 1–27.
- Rutishauser, E., Noor'an, F., Laumonier, Y., Halperin, J., Hergoualc'h, K., & Verchot, L. (2013). Generic allometric models including height best estimate forest biomass and carbon stocks in Indonesia. *Forest Ecology and Management*, 307, 219–225.
- Sahoo, P. K., Das, L. M., Babu, M. K. G., & Naik, S. N. (2007). Biodiesel development from high acid value polanga seed oil and performance evaluation in a CI engine. *Fuel*, 86(3), 448–454.
- Saimun, M. S. R., Karim, M. R., Sultana, F., & Arfin-Khan, M. A. S. (2021). Multiple drivers of tree and soil carbon stock in the tropical forest ecosystems of Bangladesh. *Trees, Forests and People*, 5, 100108. <https://doi.org/https://doi.org/10.1016/j.tfp.2021.100108>

- Saint-André, L., Vallet, P., Pignard, G., Dupouey, J.-L., Colin, A., Loustau, D., Le Bas, C., Meredieu, C., Caraglio, Y., & Porte, A. (2010). Estimating carbon stocks in forest stands: Methodological developments. *Forests, Carbon Cycle and Climate Change. QUAE Edition, Versailles*, 79–100.
- Sakin, E., Deliboran, A., Sakin, E. D., & Aslan, H. (2011). Carbon and nitrogen stocks and C: N ratios of Harran plain soils. *Romanian Agricultural Research*, 28, 171–180.
- Salomé, C., Nunan, N., Pouteau, V., Lerch, T. Z., & Chenu, C. (2010). Carbon dynamics in topsoil and in subsoil may be controlled by different regulatory mechanisms. *Global Change Biology*, 16(1), 416–426.
- Sarmiento, R. T., & Garcia, G. A. A. (2021). Carbon sequestration and storage potential of indigenous tree species in the freshwater swamp forests of Agusan Marsh Wildlife Sanctuary. *Annals of the Romanian Society for Cell Biology*, 25(6), 485–496.
- Schimel, D. S., Braswell, B. H., Holland, E. A., McKeown, R., Ojima, D. S., Painter, T. H., Parton, W. J., & Townsend, A. R. (1994). Climatic, edaphic, and biotic controls over storage and turnover of carbon in soils. *Global Biogeochemical Cycles*, 8(3), 279–293.
- Schlesinger, W. H. (1990). Evidence from chronosequence studies for a low carbon-storage potential of soils. *Nature*, 348(6298), 232–234.
- Schlesinger, W. H. (2006). Inorganic carbon and the global C cycle. *Encyclopedia of Soil Science. Taylor & Francis, London*, 879–881.
- Schlesinger, W. H., & Bernhardt, E. S. (2013). *Biogeochemistry: an analysis of global change*. Academic press.
- Schmidt, M. W. I., Torn, M. S., Abiven, S., Dittmar, T., Guggenberger, G., Janssens, I. A., Kleber, M., Kögel-Knabner, I., Lehmann, J., & Manning, D. A. C. (2011). Persistence of soil organic matter as an ecosystem property. *Nature*, 478(7367), 49–56.
- Schneider, K. D., Voroney, R. P., Lynch, D. H., Oberson, A., Frossard, E., & Bünemann, E. K. (2017). Microbially-mediated P fluxes in calcareous soils as a function of water-extractable phosphate. *Soil Biology and Biochemistry*, 106, 51–60.
- Schulze, E.-D. (2006). Biological control of the terrestrial carbon sink. *Biogeosciences*, 3(2), 147–166.
- Schweitzer, J. A., Madritch, M. D., Bailey, J. K., LeRoy, C. J., Fischer, D. G., Rehill, B. J., Lindroth, R. L., Hagerman, A. E., Wooley, S. C., & Hart, S. C. (2008). From genes to ecosystems: the genetic basis of condensed tannins and their role in nutrient regulation in a *Populus* model system. *Ecosystems*, 11(6), 1005–1020.
- Selano, F. M., Purwanto, R. H., & Santoso, P. (2021). Plants Potential of Green and Open Space Planning (RTH) to Mitigate CO<sub>2</sub> Gas Emission in Ambon. *Biotropika: Journal of Tropical Biology*, 9(3), 178–184.
- Shainberg, I., & Letey, J. (1984). Response of soils to sodic and saline conditions. *Hilgardia*, 52(2), 1–57.
- Shipley, B., & Meziane, D. (2002). The balanced-growth hypothesis and the allometry

- of leaf and root biomass allocation. *Functional Ecology*, 16(3), 326–331.
- Shofiyati, R., Las, I., & Agus, F. (2010). Indonesian soil database and predicted stock of soil carbon. *Proceedings of International Workshop on Evaluation and Sustainable Management of Soil Carbon Sequestration in Asian Countries Bogor, Indonesia Sept*, 28–29.
- Smith, P. (2014). Do grasslands act as a perpetual sink for carbon? *Global Change Biology*, 20(9), 2708–2711.
- Šnajdr, J., Valášková, V., Merhautová, V., Herinková, J., Cajthaml, T., & Baldrian, P. (2008). Spatial variability of enzyme activities and microbial biomass in the upper layers of *Quercus petraea* forest soil. *Soil Biology and Biochemistry*, 40(9), 2068–2075. <https://doi.org/https://doi.org/10.1016/j.soilbio.2008.01.015>
- Somogyi, Z., Cienciala, E., Mäkipää, R., Muukkonen, P., Lehtonen, A., & Weiss, P. (2007). Indirect methods of large-scale forest biomass estimation. *European Journal of Forest Research*, 126(2), 197–207.
- Springob, G., & Kirchmann, H. (2003). Bulk soil C to N ratio as a simple measure of net N mineralization from stabilized soil organic matter in sandy arable soils. *Soil Biology and Biochemistry*, 35(4), 629–632.
- Stevenson, F. J. (1994). Humus chemistry. John Wiley & Sons, New York. *Humus Chemistry. 2nd Ed. John Wiley & Sons, New York.*
- Stitt, M., & Schulze, E. D. (1994). Plant growth, storage, and resource allocation: from flux control in a metabolic chain to the whole plant level. *Flux Control in Biological Systems: From Enzymes to Populations and Ecosystems*, 57–118.
- Subagyo, H., Suharta, N., & Siswanto, A. B. (2000). Tanah-tanah pertanian di Indonesia. *Sumberdaya Lahan Indonesia Dan Pengelolaannya. Pusat Penelitian Tanah Dan Agroklimat. Badan Penelitian Dan Pengembangan Pertanian. Departemen Pertanian. Hal*, 21–65.
- Sulaeman, Y., Cahyana, D., & Nursyamsi, D. (2021). Spatial Identification of Black Soils in Indonesia. *IOP Conference Series: Earth and Environmental Science*, 757(1), 12035.
- Sulistyo, T. D. (2014). Potensi dan Upaya Pengembangan Kawasan Taman Hutan Raya Bunder kabupaten Gunung Kidul Sebagai Laboratorium Alam Geografi. In *Tetrahedron Letters* (Vol. 55). Universitas Negeri Yogyakarta.
- Sumner, M. E. (1993). Sodic soils-New perspectives. *Soil Research*, 31(6), 683–750.
- Sunkar, A. (2008). *Sustainability in karst resources management: the case of the Gunung Sewu in Java*. ResearchSpace@ Auckland.
- Tahvanainen, L., & Rytönen, V.-M. (1999). Biomass production of *Salix viminalis* in southern Finland and the effect of soil properties and climate conditions on its production and survival. *Biomass and Bioenergy*, 16(2), 103–117. [https://doi.org/https://doi.org/10.1016/S0961-9534\(98\)00074-9](https://doi.org/https://doi.org/10.1016/S0961-9534(98)00074-9)
- Taiz, L., & Zeiger, E. (2002). Photosynthesis: physiological and ecological considerations. *Plant Physiol*, 9, 172–174.
- Talbot, J. M., & Treseder, K. K. (2012). Interactions among lignin, cellulose, and nitrogen drive litter chemistry–decay relationships. *Ecology*, 93(2), 345–354.

- Ter-Mikaelian, M. T., & Korzukhin, M. D. (1997). Biomass equations for sixty-five North American tree species. *Forest Ecology and Management*, 97(1), 1–24.
- Tohirin, T., Suryanto, P., & Sadono, R. (2021). Vegetation structure, aboveground biomass, and carbon storage of wono a local forest management in Gunungkidul, Yogyakarta, Indonesia, across three geomorphological zones. *Biodiversitas Journal of Biological Diversity*, 22(8).
- Townsend, A. R., & Rastetter, E. B. (1996). Nutrient constraints on carbon storage in forested ecosystems. In *Forest Ecosystems, Forest Management and the Global Carbon Cycle* (pp. 35–45). Springer.
- Trumbore, S. E., & Gaudinski, J. B. (2003). The secret lives of roots. *Science*, 302(5649), 1344–1345.
- UN. (2017a). World population projected to reach 9.7. In *PhD Proposal* (Vol. 1, pp. 1–3).
- UN. (2017b). *World population projected to reach 9.7*. <https://www.un.org/en/desa/world-population-projected-reach-98-billion-2050-and-112-billion-2100> (accessed on 22-10-2022)
- UNFCCC. (2015). *Adoption of the Paris Agreement—Paris Agreement (text English)*. UNFCCC Bonn, Germany.
- United Nations Framework Convention on Climate Change (UNFCCC). (2012). *A/R Methodological tool: Demonstrating appropriateness of volumn equations for estimation of aboveground tree biomass in A / R CDM project activities*. 1–9.
- Utami, D. W., & Indryani, R. (2013). Analisa manfaat biaya proyek pembangunan taman hutan raya (tahura) bunder Daerah Istimewa Yogyakarta. *Jurnal Teknik ITS*, 2(1), D17–D21.
- Van Breugel, M., Ransijn, J., Craven, D., Bongers, F., & Hall, J. S. (2011). Estimating carbon stock in secondary forests: decisions and uncertainties associated with allometric biomass models. *Forest Ecology and Management*, 262(8), 1648–1657.
- Van Schaik, C. P., & Mirmanto, E. (1985). Spatial variation in the structure and litterfall of a Sumatran rain forest. *Biotropica*, 196–205.
- Van Soest, P. J. van, Robertson, J. B., & Lewis, B. A. (1991). Methods for dietary fiber, neutral detergent fiber, and nonstarch polysaccharides in relation to animal nutrition. *Journal of Dairy Science*, 74(10), 3583–3597.
- Venkanna, B. K., & Reddy, C. V. (2009). Biodiesel production and optimization from *Calophyllum inophyllum* linn oil (honne oil)—A three stage method. *Bioresource Technology*, 100(21), 5122–5125.
- Vigneshwar, V., Krishnan, S. Y., Kishna, R. S., Srinath, R., Ashok, B., & Nanthagopal, K. (2019). Comprehensive review of *Calophyllum inophyllum* as a feasible alternate energy for CI engine applications. *Renewable and Sustainable Energy Reviews*, 115, 109397.
- Vogt, K. A., Vogt, D. J., Palmiotto, P. A., Boon, P., O'Hara, J., & Asbjornsen, H. (1995). Review of root dynamics in forest ecosystems grouped by climate, climatic forest type and species. *Plant and Soil*, 187(2), 159–219.

- Vorster, A. G., Evangelista, P. H., Stovall, A. E. L., & Ex, S. (2020). Variability and uncertainty in forest biomass estimates from the tree to landscape scale: the role of allometric equations. *Carbon Balance and Management*, 15(1), 8. <https://doi.org/10.1186/s13021-020-00143-6>
- Walker, T. W., & Adams, A. F. R. (1958). Studies on soil organic matter: I. Influence of phosphorus content of parent materials on accumulations of carbon, nitrogen, sulfur, and organic phosphorus in grassland soils. *Soil Science*, 85(6), 307–318.
- Walker, T. W., & Adams, A. F. R. (1959). Studies on soil organic matter: 2. Influence of increased leaching at various stages of weathering on levels of carbon, nitrogen, sulfur, and organic and total phosphorus. *Soil Science*, 87(1), 1–10.
- Walker, T. W., & Syers, J. K. (1976). The fate of phosphorus during pedogenesis. *Geoderma*, 15(1), 1–19.
- Wang, K. K., Liao, S. P., Ren, T., Li, X. K., Cong, R. H., & Lu, J. W. (2020). Effect of continuous straw returning on soil phosphorus availability and crop phosphorus utilization efficiency of oilseed rape-rice rotation. *Sci. Agric. Sin*, 53, 94–104.
- Wang, Q., Zhan, X., Zhang, S., Peng, C., Gao, H., Zhang, X., Zhu, P., & Gilles, C. (2019). Phosphorus adsorption and desorption characteristics and its response to soil properties of black soil under long-term different fertilization. *Scientia Agricultura Sinica*, 52(21).
- Wang, X. W., Weng, Y. H., Liu, G. F., Krasowski, M. J., & Yang, C. P. (2015). Variations in carbon concentration, sequestration and partitioning among *Betula platyphylla* provenances. *Forest Ecology and Management*, 358, 344–352. <https://doi.org/https://doi.org/10.1016/j.foreco.2015.08.029>
- Wardhana, W., Sartohadi, J., Rahayu, L., & Kurniawan, A. (2012). Analisis transisi lahan di kabupaten gunungkidul dengan citra penginderaan jauh multi temporal. *Jurnal Ilmu Kehutanan*, 6(2), 89–102.
- Wardlaw, I. F. (1990). Tansley Review No. 27 The control of carbon partitioning in plants. *New Phytologist*, 116(3), 341–381.
- Wassihun, A. N., Hussin, Y. A., Van Leeuwen, L. M., & Latif, Z. A. (2019). Effect of forest stand density on the estimation of above ground biomass/carbon stock using airborne and terrestrial LIDAR derived tree parameters in tropical rain forest, Malaysia. *Environmental Systems Research*, 8(1), 1–15.
- Weedon, J. T., Cornwell, W. K., Cornelissen, J. H. C., Zanne, A. E., Wirth, C., & Coomes, D. A. (2009). Global meta-analysis of wood decomposition rates: a role for trait variation among tree species? *Ecology Letters*, 12(1), 45–56.
- Wei, Y., Wu, X., Xia, J., Shen, X., & Cai, C. (2016). Variation of soil aggregation along the weathering gradient: Comparison of grain size distribution under different disruptive forces. *PloS One*, 11(8), e0160960.
- Weiner, J. (2004). Allocation, plasticity and allometry in plants. *Perspectives in Plant Ecology, Evolution and Systematics*, 6(4), 207–215.
- Weiskittel, A. R., MacFarlane, D. W., Radtke, P. J., Affleck, D. L. R., Temesgen, H., Woodall, C. W., Westfall, J. A., & Coulston, J. W. (2015). A call to improve methods for estimating tree biomass for regional and national assessments. *Journal of Forestry*, 113(4), 414–424.



- White, P. J., & Karley, A. J. (2010). Potassium. In *Cell biology of metals and nutrients* (pp. 199–224). Springer.
- White, R. E. (2005). *Principles and practice of soil science: the soil as a natural resource*. John Wiley & Sons.
- White, T. L., Adams, W. T., & Neale, D. B. (2007). *Forest genetics*. Cabi.
- Whittaker, R. H., & Woodwell, G. M. (1968). Dimension and production relations of trees and shrubs in the Brookhaven Forest, New York. *The Journal of Ecology*, 1–25.
- Whitten, A. J., Whitten, T., Soeriaatmadja, R. S., Soeriaatmadja, R. E., & Afiff, S. A. (1996). *Ecology of Java & Bali* (Vol. 2). Oxford University Press.
- Wilding, L. P., Smeck, N. E., & Hall, G. F. (1983). *Pedogenesis and soil taxonomy: the soil orders*. Elsevier.
- Wright, J. (2012). *Introduction to forest genetics*. Elsevier.
- Xiang, H., Luo, X., Zhang, L., Hou, E., Li, J., Zhu, Q., & Wen, D. (2022). Forest succession accelerates soil carbon accumulation by increasing recalcitrant carbon stock in subtropical forest topsoils. *CATENA*, 212, 106030.
- Xie, J., Tang, L., Wang, Z., Xu, G., & Li, Y. (2012). Distinguishing the biomass allocation variance resulting from ontogenetic drift or acclimation to soil texture. *Plos One*, 7(7), e41502.
- Xu, M., Lou, Y., Sun, X., Wang, W., Baniyamuddin, M., & Zhao, K. (2011). Soil organic carbon active fractions as early indicators for total carbon change under straw incorporation. *Biology and Fertility of Soils*, 47(7), 745–752.
- Xu, S., Liu, L. L., & Sayer, E. J. (2013). Variability of above-ground litter inputs alters soil physicochemical and biological processes: a meta-analysis of litterfall-manipulation experiments. *Biogeosciences*, 10(11), 7423–7433.
- Yan, K., Shao, H., Shao, C., Chen, P., Zhao, S., Brestic, M., & Chen, X. (2013). Physiological adaptive mechanisms of plants grown in saline soil and implications for sustainable saline agriculture in coastal zone. *Acta Physiologiae Plantarum*, 35(10), 2867–2878.
- Yang, B., Xue, W., Yu, S., Zhou, J., & Zhang, W. (2019). Effects of stand age on biomass allocation and allometry of quercus acutissima in the Central Loess Plateau of China. *Forests*, 10(1), 41.
- Yang, S., Cammeraat, E., Jansen, B., den Haan, M., van Loon, E., & Recharte, J. (2018). Soil organic carbon stocks controlled by lithology and soil depth in a Peruvian alpine grassland of the Andes. *CATENA*, 171, 11–21. <https://doi.org/https://doi.org/10.1016/j.catena.2018.06.038>
- Yang, Y., Fang, J., Ji, C., & Han, W. (2009). Above-and belowground biomass allocation in Tibetan grasslands. *Journal of Vegetation Science*, 20(1), 177–184.
- Yetti, H., Debora, B., Arifin, A., Mohd, N. M., Hazandy, A.-H., Nik, M. M., Affendy, H., & Ika, H. (2011). Growth performance and biomass accumulation of a *Khaya ivorensis* plantation in three soil series of ultisols. *American Journal of Agricultural and Biological Sciences*, 6(1), 33–44.

- Ying, J., Weng, Y., Oswald, B. P., & Zhang, H. (2019). Variation in carbon concentrations and allocations among *Larix olgensis* populations growing in three field environments. *Annals of Forest Science*, 76(4), 99. <https://doi.org/10.1007/s13595-019-0877-0>
- Yost, J. L., & Hartemink, A. E. (2019). Soil organic carbon in sandy soils: A review. *Advances in Agronomy*, 158, 217–310.
- Yuen, J. Q., Fung, T., & Ziegler, A. D. (2016). Review of allometric equations for major land covers in SE Asia: Uncertainty and implications for above- and below-ground carbon estimates. *Forest Ecology and Management*, 360, 323–340. <https://doi.org/https://doi.org/10.1016/j.foreco.2015.09.016>
- Yuen, J. Q., Ziegler, A. D., Webb, E. L., & Ryan, C. M. (2013). Uncertainty in below-ground carbon biomass for major land covers in Southeast Asia. *Forest Ecology and Management*, 310, 915–926.
- Zeh, L., Buddenbaum, H., & Steffens, M. (2014). Imaging Vis-NIR spectroscopy-mapping SOM quality and quantity in undisturbed soil profiles of semiarid steppe in Inner Mongolia. *EGU General Assembly Conference Abstracts*, 13506.
- Zhang, D., Hui, D., Luo, Y., & Zhou, G. (2008). Rates of litter decomposition in terrestrial ecosystems: global patterns and controlling factors. *Journal of Plant Ecology*, 1(2), 85–93.
- Zhang, S., Yan, L., Huang, J., Mu, L., Huang, Y., Zhang, X., & Sun, Y. (2016). Spatial heterogeneity of soil C: N ratio in a Mollisol watershed of Northeast China. *Land Degradation & Development*, 27(2), 295–304.
- Zhang, X., Liu, M., Zhao, X., Li, Y., Zhao, W., Li, A., Chen, S., Chen, S., Han, X., & Huang, J. (2018). Topography and grazing effects on storage of soil organic carbon and nitrogen in the northern China grasslands. *Ecological Indicators*, 93, 45–53.
- Zhao, F., Guo, Q., & Kelly, M. (2012). Allometric equation choice impacts lidar-based forest biomass estimates: A case study from the Sierra National Forest, CA. *Agricultural and Forest Meteorology*, 165, 64–72.
- Zhu, H. Y., Weng, Y. H., Zhang, H. G., Meng, F. R., & Major, J. E. (2013). Comparing fast- and slow-growing provenances of *Picea koraiensis* in biomass, carbon parameters and their relationships with growth. *Forest Ecology and Management*, 307, 178–185. <https://doi.org/https://doi.org/10.1016/j.foreco.2013.06.024>
- Zhu, W., Wang, J., Zhang, Z., Ren, F., Chen, L., & He, J.-S. (2016). Changes in litter quality induced by nutrient addition alter litter decomposition in an alpine meadow on the Qinghai-Tibet Plateau. *Scientific Reports*, 6(1), 34290. <https://doi.org/10.1038/srep34290>
- Zimmermann, M., Meir, P., Silman, M. R., Fedders, A., Gibbon, A., Malhi, Y., Urrego, D. H., Bush, M. B., Feeley, K. J., & Garcia, K. C. (2010). No differences in soil carbon stocks across the tree line in the Peruvian Andes. *Ecosystems*, 13(1), 62–74.
- Zobel, B., & Talbert, J. (1984). *Applied forest tree improvement*. John Wiley & Sons.