

REFERENCES

- Agustina, M., Djufri., Cut, N. 2019. Hubungan Kekerbatan Spesies Malvaceae Berdasarkan Ciri Morfologi. *Jurnal Biologi Edukasi*, 11(2), pp. 25-33.
- Astuti, I. P., Munawaroh, E., Rahayu, E. M. D., Aprilianti, P. & Sumanto. 2011. Heteroblastic Development in Six Species of Wild *Piper*: *Piper baccatum* Blume, *Piper firmum* Blume, *Piper majusculum* C.DC, *Piper miniatum* Blume, *Piper crocatum* Ruiz & Pav. and *Piper retrofractum* Vahl. *Berita Biologi*, 10(5), pp. 621-625.
- Backer, C. A. & Bakhuizen, V. D. B. 1968. *Flora of Java Vol. I*. The Netherlands: Noordhoff-Groningen.
- Chaveerach, A., Piya, M., Runglawan, S. & Tawatchai, T. 2006. Ethnobotany of The Genus *Piper* (Piperaceae) in Thailand. *Ethnobotany Research & Applications*, 4(1), pp. 223-231.
- Chaveerach, A., Runglawan, S., Tawatchai, T. & Piya, M. 2008. The Species Diversity of The Genus *Piper* from Thailand. *Acta Phytotax. Geobot*, 59(2), pp. 105-163.
- Christ, J. A., Valderes, B. S., Lucas, M. B., Elsie, F. G., Mario, L. G. & Tatiana, T. C. 2016. The Genus *Piper* (Piperaceae) in The Mata das Flores State Park, Espirito Santo, Brazil. *Rodriguesia*. 67(4), pp. 1031-1046.
- Damanhour, Z. A. & Aftab, A. 2014. A Review on Therapeutic Potential of *Piper nigrum* L. (Black Pepper): The King of Spices. *Medicinal & Aromatic Plants*. 3(3), pp. 1-6.
- Granger, V., Nicolas, B., Jean, M. F., Christine, M., Angelique, J. & Bastien, M. 2015. Mapping Diversity Indices: Not A Trivial Issue. *Methods in Ecology and Evolution*, 6(1), pp. 688-696.
- Greig, N. 2004. "Introduction". Dalam Dyer L. A. & Palmer A. D. N. (Editor). *Piper: A Model Genus for Studies of Phytochemistry, Ecology, and Evolution*. New York: Kluwer Academic/Plenum Publishers, pp. 1-4.
- Hardiyanto, Y. B. G., Nuri, J. M. & Wawan, S. 2020. 16 (Enam Belas) Tahun Pembangunan Kebun Raya Baturraden. *Warta Kebun Raya Edisi Khusus*, 18 (1), pp. 26-33.
- Hartemink, A. E. 2010. The Invasive Shrub *Piper aduncum* in Papua New Guinea: A Review. *Journal of Tropical Forest Science*, 22(2), pp. 202-213.
- Harvey, W. H. 1912. *Flora Capensis*. Dublin: Hodges, Smith, and Co., 104, Grafton-Street.
- Herman., Fajar, P., Supriatno, S., Hifdzur, R. R., Hadi, K., Rolan, R., Agung, R., Hady, A. T., Kuswandi., Dewanto, H., Islamudin, A. & Laode, R. 2022. Pharmacognostic Profile of Simplicia and Ethanolic Leaves Extract from Indonesian *Piper betle* var. *nigra*. *Pharmacognosy Journal*, 14(5), pp. 610-618.

- Horner, H. T., Samain, M. S., Wagner, S. T. & Wanke, S. 2015. Towards Uncovering Evolution of Lineage-Specific Calcium Oxalate Crystal Patterns in *Piperales*. *Botany*, 93, pp. 159–169.
- Indriyanto. 2012. *Ekologi Hutan*. Jakarta: Bumi Aksara.
- Jaramillo, A., Chris, D., Ricardo, C., James, S., Angela, C. S. & Eric, J. T. 2008. A Phylogeny of The Tropical Genus *Piper* Using ITS and The Chloroplast Intron Psbj-Pet A. *Systematic Botany*, 33(4), pp. 647-660.
- Junairiah., Ni'matuzahroh., Nabilah, I. Z. & Lilis, S. 2018. Isolation and Identification of Secondary Metabolites of Black Betel (*Piper betle* var. *nigra*). *Jurnal Kimia Riset*, 3(2), pp. 131-138.
- Mandiriati, H., Djoko, M., Erny, P. & Ronggo, S. 2018. Prevensi Masyarakat Terhadap Skenario Pengelolaan Kebun Raya Baturraden di Provinsi Jawa Tengah. *Jurnal Penelitian Kehutanan Wallacea*, 7(1), pp.59-68.
- Mangion, C. P. 2011. Piperaceae. In Short PS & Cowie ID (eds). *Flora of The Darwin Region*, 1(1), pp. 1-3.
- Ministry of Environment. 2009. *Fourth National Report The Convention on Biological Biodiversity*. Jakarta: Biodiversity Conservation Unit, Ministry of Environment.
- Miswarti., Wawan, E. P., & Dedi, S. 2017. Analisis Keragaman Plasma Nutfah Durian di Provinsi Bengkulu Berdasarkan Karakter Morfologi. *Buletin Plasma Nutfah*, 23(1), pp. 59-68.
- Mittermeier, R. A., Gil, P.R., Hoffman, M., Pilgrim, J., Brooks, T., Mittermeier, C.G., Lamoreux, J., da Fonseca, G.A.B., Seligmann, P.A. & Ford, H. 2005. *Hotspots Revisited: Earth's Biologically Richest and Most Endangered Terrestrial Ecoregions*. Conservation International, New York.
- Munawaroh, E. & Yuzammi. 2017. Keanekaragaman *Piper* (Piperaceae) dan Konservasinya di Taman Nasional Bukit Barisan Selatan, Provinsi Lampung. *Media Konservasi*, 22(2), pp. 118-128.
- Palchetti, E., Stefano, B., Massimo, G., Giulia, R. N., Nicola, G. & Alessio, P. 2018. Two New Malagasy Species of Genus *Piper* L. (Piperaceae), *Piper malgassicum* and *Piper tsarasotrae*, and Their Phylogenetic Position. *Turkish Journal of Botany*, 42(1), pp. 1-13.
- Primack, R. B. 2008. *A Primer of Conservation Biology* (Fourth Edition). USA: Sinauer Associates Inc.
- Priyono, S. H. & Jamal, Y. 2008. Konservasi *Piper miniatum* Bl. Dengan Perbanyakkan Cara Perundukan; Ekstraksi dan Uji Aktifitas Antiradical Bebas Dpph, dan Antidiabetik. *Jurnal Teknologi Lingkungan*, 9(3), pp. 263-270.
- Rahmawati, A. N. & Ani, K. 2016. Pertumbuhan Beberapa Jenis Sirih (*Piper* spp.) pada Berbagai Intensitas Naungan. *Buletin Agrohorti*, 4(3), pp. 288-297.
- Sarjani, T. M., Mawardi, E. S. P. & Devi, W. 2017. Identifikasi Morfologi dan Anatomi Tipe Stomata Famili Piperaceae di Kota Langsa. *Jurnal IPA dan Pembelajaran IPA (JIPI)*, 1(2), pp. 182-191.

- Shethi, K.J., Parveen, R., Momtaz, B. & Oliur, R. 2019. Morphoanatomical Profile of Five Species of *Piper* L. from Bangladesh and Its Taxonomic Significance. *Bangladesh J. Plant Taxon*, 26(1), pp. 57–68.
- Souza, L. A., Ismar, S. M., Kathia, S. M. M., Adriana, L. M. A., Maisa, C. I., Jonathas, H. G. O. & Sonia, M. R. 2009. Vegetative Propagation in Piperaceae Species. *Brazilian Archives of Biology and Technology*, 52(6), pp. 1357-1361.
- Steenis, C. G. G. J. V. 2002. *Flora*. Jakarta: PT. Pradnya Paramita.
- Stuessy, T.F. 2009. *Plant Taxonomy The Systematic Evaluation of Comparative Data* (Second Edition). New York: Columbia University Press.
- Sudewo, B. 2010. *Basmi Penyakit dengan Sirih Merah*. Jakarta: Agromedia Pustaka.
- Suwanphakdee, C., david, A. S., Trevor, R. H. & Pranom, C. 2016. Taxonomic Notes on The Genus *Piper* (Piperaceae). *Nordic Journal of Botany*, 34, pp. 605-618.
- Suwanphakdee, C., david, A. S., Trevor, R. H. & Pranom, C. 2020. A Synopsis of Thai *Piper* (Piperaceae). *Thai Forest Bull.Bot*, 48(2), pp. 145-183.
- Tjitrosoepomo, G. 2007. *Morfologi Tumbuhan*. Yogyakarta: Gadjah Mada University Press.
- Widiyastuti. Y., Sari, H. & Dyah, S. 2016. Karakterisasi Morfologi dan Kandungan Minyak Atsiri Beberapa Jenis Sirih (*Piper* sp.). *Prosiding Seminar Nasional Tumbuhan Obat Indonesia Ke-50, Samarinda*, pp. 474-481.
- Yuliana, L. 2023. Studi Morfologi Genus *Piper* dan Variasinya. *Biocaster: Jurnal Kajian Biologi*, 3(1), pp. 11-19.
- Zermiani, T., Matheus, C. S., Fabiane, M. L., Vinicius, B. B., Fernanda, S. M., Leticia, C. L., Thamiris, Y. I., Rene, A. F., Elsie, F. G., Marina, S. M., Ruth, M. L. & Angela, M. 2019. Morphological and Phytochemical Characterization of *Piper moschii*. *Natural Product Communications*, 14(1), pp. 67-70.