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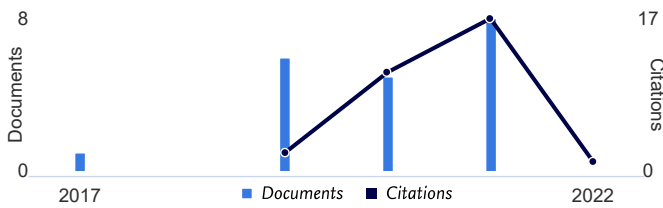
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Hidayati, N., Fuad, H., Munandar, H., ...Darmawati, S., Ethica, S.N.

IOP Conference Series: Earth and Environmental Science, 2021, 743(1), 012007

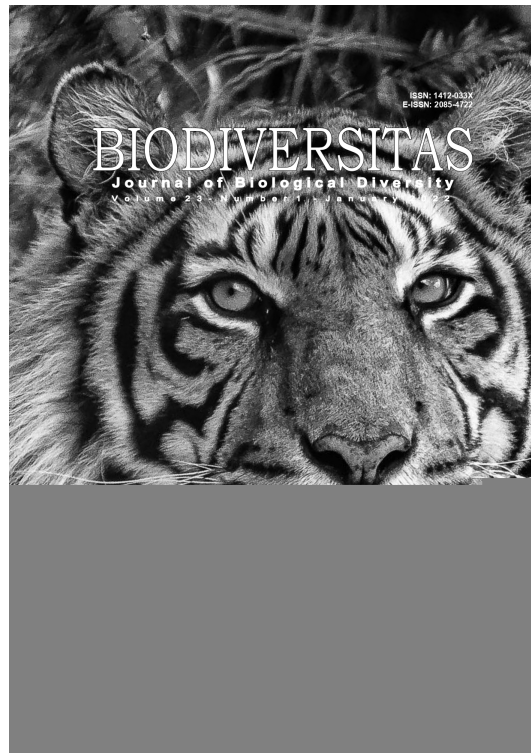
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Diversity patterns of plants and arthropods in soybean agro-ecosystems in the Grassland Biome of South Africa



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Abstract

Abstract. *Janse van Rensburg PD, Siebert SJ, Masehela T, Ellis S, Van den Berg J. 2020. Diversity patterns of plants and arthropods in soybean agroecosystems in the grassland biome of South Africa. Biodiversitas 21: 5559-5570.* Soybean is widely cultivated in the grassland biome of South Africa (ca. 800 000 ha per annum). Yet the possible effects that large-scale cultivation of soybean has on biodiversity in adjacent habitat are not fully understood. This study aimed to describe the plant and arthropod species assemblages and diversity patterns within these soybean agroecosystems. Surveys were conducted inside soybean fields, field boundaries (transition zones between soybean fields and adjacent habitat), and adjacent pasture. An adapted D-vac was used to sample arthropods in the different zones, while plant surveys were conducted by means of fixed width (2 m) line transect. A total of 320 plant species (4910

Floral biology and pollination strategy of *Durio* (Malvaceae) in Sarawak, Malaysian Borneo



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Articles

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Abstract

Abstract. Ng WS, Mohd-Azlan J, Wong SY. 2020. Floral biology and pollination strategy of *Durio* (*Malvaceae*) in Sarawak, Malaysian Borneo. *Biodiversitas* 21: 5579-5594. This study was carried out to investigate on the flowering mechanisms of four *Durio* species in Sarawak. The anthesis started in the afternoon (*D. graveolens* and *D. zibethinus*), evening (*D. kutejensis*) or midnight (*D. griffithii*); and lasted between 11.5 hours (*D. griffithii*) to 20 hours (*D. graveolens*). All four *Durio* species are generalists. Individuals of a fruit bat (*Eonycteris spelaea*, Pteropodidae) are considered as the main pollinator for *D. graveolens*, *D. kutejensis*, and *D. zibethinus* while spiderhunter (Arachnothera, Nectariniidae) is also proposed as a primary pollinator for *D. kutejensis*. Five invertebrate taxa were observed as secondary or inadvertent pollinators of *Durio* spp.: honeybee, *Apis* sp. (Apidae), stingless bee, *Tetrigona* sp. (Apidae), nocturnal wasp, *Provespa* sp. (Vespidae), pollen beetle (Nitidulidae), and thrip (Thysanoptera). Honey bees and stingless bees pollinated all four *Durio* species. Pollen beetles were found to pollinate *D. griffithii* and *D. graveolens* while nocturnal wasps were found to pollinate *D. kutejensis* and *D. zibethinus*. Thrips were found to pollinate *D. griffithii* only. Floral rewards include nectar, pollen and staminodes. The nectar production of *D. graveolens*, *D. kutejensis*, and *D. zibethinus* increased from the start of anthesis until just after midnight but decreased from then onwards. *Durio griffithii* produced consistent nectar concentration with inconsistent volume. *Durio graveolens*, *D. griffithii*, and *D. zibethinus* are partially self-incompatible.