

## DAFTAR PUSTAKA

- Acharya, P. R., Racey, P. A., Sotthibandhu, S., & Bumrungsri, S. (2015). Feeding behaviour of the dawn bat (*Eonycteris spelaea*) promotes cross pollination of economically important plants in Southeast Asia. *Journal of Pollination Ecology*, 15(7), 44–50.
- Adams, R. A., & Snode, E. R. (2015). Differences in the male mating calls of co-occurring epauletted fruit bat species (Chiroptera, Pteropodidae, *Pomophorus wahlbergi*, and *Epomophorus crypturus*) in Kruger National Park, South Africa. *Zoological Studies*, 54(JAN), 1–6.
- Aide, T. M., Hernández-Serna, A., Campos-Cerdeira, M., Acevedo-Charry, O., & Deichmann, J. L. (2017). Species richness (of insects) drives the use of acoustic space in the tropics. *Remote Sensing*, 9(11), 1–12.
- Amdarsyah, R. A. F., Rohim, Syakirah, T. L., & Umami, M. (2025). Pengaruh evolusi terhadap perkembangan skapula, sesamoid, tengkorak, serta kemampuan ekolokasi Chiroptera. *Zoologi: Jurnal Ilmu Pertanian, Ilmu Perikanan, Ilmu Kedokteran Hewan*, 3(1), 52–62.
- Anderson, M., J. (2001). A new method for non-parametric multivariate analysis of variance. *Austral Ecology*, 26(1), 32–46.
- Barba, M. de O., Lavy, B. L., & Bennett, V. J. (2024). Improving urban flyways for bats: the importance of tree canopy structure. *Wildlife Biology*, 2024(5), 1–16.
- Browning, E., Gibb, R., Glover-Kapfer, P., Jones, K. E., Billington, G., Burivalova, Z., Clink, D., De Ridder, J., Halls, J., Hastings, T., Jacoby, D., Kalan, A., Kershenbaum, A., Linke, S., Lucas, S., Machado, R., Owens, P., Sutter, C., Trethowan, P., ... Wrege, P. (2017). Passive acoustic monitoring in ecology and conservation. *WWF Conservation Technology Series*, 1(2), 1–75.
- Callas, M., Lumsden, L. F., Rendall, A. R., & Yokochi, K. (2024). More trees and fewer roads: the importance of local and landscape features for insectivorous bats in open urban green spaces. *Wildlife Research*, 51(4), 1–14.
- Candolin, U. (2024). Coping with light pollution in urban environments: Patterns and challenges. *IScience*, 27(3), 1–7.
- Denzinger, A., & Schnitzler, H. U. (2013). Bat guilds, a concept to classify the highly diverse foraging and echolocation behaviors of Microchiropteran bats. *Frontiers in Physiology*, 4(164), 1–15.
- Egert-Berg, K., Handel, M., Goldshtain, A., Eitan, O., Borissov, I., & Yovel, Y. (2021). Fruit bats adjust their foraging strategies to urban environments to diversify their diet. *BMC Biology*, 19(123), 1–11.
- El Kurdi, R., Kumar, K., & Patra, D. (2020). Introducing Principal Coordinate Analysis (PCoA) assisted EEMF spectroscopic based novel analytical approach for the discrimination of commercial Gasoline Fuels. *Journal of Fluorescence*, 30(6), 1583–1589.

- Fithria, T. Z., Priyono, B., Setiati, N., & Partaya. (2020). Jenis-Jenis kelelawar pemakan buah subordo Megachiroptera dan sebaran spasial di Kecamatan Gunungwungkal Kabupaten Pati. *Jurnal Bioeksperimen*, 6(2), 163–168.
- Fitria, A., Anisa Nurismawati, Mochammad Rafli Noer Haiqal, Tassya Aulianisa, Qurota ‘Aini, Ade Suryanda, & Yulilina Retno Dewahrani. (2021). Morfometri dan deskripsi habitat bertengger Microchiroptera di Pusat Pendidikan dan Konservasi Alam Bodogol. *Proceeding of Biology Education*, 4(1), 160–170.
- Francis, Charles. (2019). *Field guide to the mammals of south-east asia (2nd Edition)* (P. Barret, R. Budden, S. Doyle, B. Edwards, W. Oliver, & L. Wells, Eds.; Second). Bloomsbury Publishing Plc.
- Frank, T. M., Gabbert, W. C., Chaves-Campos, J., & Laval, R. K. (2019). Impact of artificial lights on foraging of insectivorous bats in a costa rican cloud forest. *Journal of Tropical Ecology*, 35(1), 8–17.
- Fu, Z., Zhang, G., Shi, Q., Zhou, D., Tang, J., Liu, L., & Chen, Q. (2019). Behaviorally relevant frequency selectivity in single- and double-on neurons in the inferior colliculus of the Pratt’s roundleaf bat, *Hipposideros pratti*. *PLoS ONE*, 14(1), 1–19.
- Guo, D., Ding, J., Liu, H., Zhou, L., Feng, J., Luo, B., & Liu, Y. (2021). Social calls influence the foraging behavior in wild big-footed *Myotis*. *Frontiers in Zoology*, 18(1), 1–14.
- Gutiérrez-Granados, G., & Rodríguez-Zúñiga, M. T. (2024). Bats as indicators of ecological resilience in a megacity. *Urban Ecosystems*, 27(2), 479–489.
- Hao, Y., Wang, P., Zhang, Z., Xu, Z., & Jia, D. (2024). A review of the characteristics of light pollution: assessment technique, policy, and legislation. *Energies*, 17(11), 1–18.
- Hermans, C., Litovska, I., de Pastors, M., Visser, M. E., & Spoelstra, K. (2024). Artificial light at night drives diel activity patterns of Synanthropic pipistrelle bats and their prey. *Science of the Total Environment*, 940, 1–8.
- Hill, A. P., Prince, P., Piña Covarrubias, E., Doncaster, C. P., Snaddon, J. L., & Rogers, A. (2017). AudioMoth: Evaluation of a smart open acoustic device for monitoring biodiversity and the environment. *Methods in Ecology and Evolution*, 9(5), 1199–1211.
- Hill, A. P., Prince, P., Snaddon, J. L., Doncaster, C. P., & Rogers, A. (2019). AudioMoth: A low-cost acoustic device for monitoring biodiversity and the environment. *HardwareX*, 6, 1–19.
- Hoefer, S., McKnight, D. T., Allen-Ankins, S., Nordberg, E. J., & Schwarzkopf, L. (2023). Passive acoustic monitoring in terrestrial vertebrates: a review. *Bioacoustics*, 32(5), 506–531.

- Ikranagara, R. D. F., Pamungkas, F. R., Hasanah, U., Broto, R. B. I. W., Erviana, A., Rhohman, M. F. F., & Yuliatiningsih, S. S. (2015). Inventarisasi keanekaragaman jenis kelelawar (Chiroptera) penghuni gua di Kawasan Karst Ciampela, Jawa Barat, Indonesia. In *Prosiding Seminar Nasional Pendidikan Biologi Dan Biologi*, 97–106.
- iNaturalist. (2025). *Eonycteris spelaea*. Diakses pada 5 Agustus 2025, dari [Lesser Dawn Bat \(Eonycteris spelaea\) · iNaturalist](#)
- iNaturalist. (2025). *Pipistrellus tenuis*. Diakses pada 5 Agustus 2025, dari [least pipistrelle \(Pipistrellus tenuis\) · iNaturalist](#)
- iNaturalist. (2025). *Rhinolophus acuminatus*. Diakses pada 5 Agustus 2025, dari [acuminate horseshoe bat \(Rhinolophus acuminatus\) · iNaturalist](#)
- iNaturalist. (2025). *Rhinolophus luctus*. Diakses pada 5 Agustus 2025, dari [Woolly Horseshoe Bat \(Rhinolophus luctus\) · iNaturalist](#)
- iNaturalist. (2025). *Rhinolophus philippinensis*. Diakses pada 5 Agustus 2025, dari [Large-eared Horseshoe Bat \(Rhinolophus philippinensis\) · iNaturalist](#)
- iNaturalist. (2025). *Rhinolophus sedulus*. Diakses pada 5 Agustus 2025, dari [Lesser Woolly Horseshoe Bat \(Rhinolophus sedulus\) · iNaturalist](#)
- iNaturalist. (2025). *Scotophilus kuhlii*. Diakses pada 5 Agustus 2025, dari [Lesser Asian Yellow Bat \(Scotophilus kuhlii\) · iNaturalist](#)
- Januari, A. D., Kardian, S., Rusdayanti, N., & Shara, S. (2024). Urbanisasi Jakarta dan dampaknya terhadap sosial ekonomi dan lingkungan. *Sustainable Transportation and Urban Mobility*, 1(1), 21–37.
- Kasso, M., & Balakrishnan, M. (2013). Ecological and economic importance of bats (Order Chiroptera). *ISRN Biodiversity*, 2013, 1–9.
- Kaushik, K., Nair, S., & Ahamad, A. (2022). Studying light pollution as an emerging environmental concern in India. *Journal of Urban Management*, 11(3), 392–405.
- Kugler, K., Luksch, H., Peremans, H., Vanderelst, D., Wiegreb, L., & Firzlaff, U. (2019). Optic and echo-acoustic flow interact in bats. *Journal of Experimental Biology*, 222(6), 1–7.
- Levy, K., Wegrzyn, Y., Efronny, R., Barnea, A., & Ayali, A. (2021). Lifelong exposure to artificial light at night impacts stridulation and locomotion activity patterns in the cricket *Gryllus bimaculatus*. *Proceedings of the Royal Society B: Biological Sciences*, 288(1959), 1–9.
- Lewanzik, D., & Voigt, C. C. (2017). Transition from conventional to light-emitting diode street lighting changes activity of urban bats. *Journal of Applied Ecology*, 54(1), 264–271.
- Li, K. (2024). Environmental aspects of urban lighting. *Academic Journal of Science and Technology*, 9(2), 271–275.

- Longcore, T., & Rich, C. (2004). Ecological light pollution. *Frontiers in Ecology and the Environment*, 2(4), 191–198.
- Mawan, A., Blumenbach, J., Nazarreta, R., Istiaji, B., Hidayat, P., & Buchori, D. (2022). Pengaruh cahaya artifisial di malam hari (*Artificial Light at Night-ALAN*) terhadap serangga. *Jurnal Entomologi Indonesia*, 19(3), 255–260.
- Meyer, L. A., Maž, S., & Sullivan, E. P. (2013). Bright lights, big city: influences of ecological light pollution on reciprocal stream-riparian invertebrate fluxes. *Ecological Applications*, 23(6), 1322–1330.
- Moretto, L., & Francis, C. M. (2017). What factors limit bat abundance and diversity in temperate, North American urban environments? *Journal of Urban Ecology*, 3(1), 1–9.
- Murugavel, B., Kelber, A., & Somanathan, H. (2021). Light, flight and the night: effect of ambient light and moon phase on flight activity of Pteropodid bats. *Journal of Comparative Physiology A: Neuroethology, Sensory, Neural, and Behavioral Physiology*, 207(1), 59–68.
- Naszmi, , Anwari, M. S., & Rifanjani, S. (2019). Keanekaragaman Jenis Kelelawar Di Kawasan Camp Lubuk Baji Taman Nasional Gunung Palung. *Jurnal Hutan Lestari*, 7(1), 56–61.
- Nurhasan, A. U., & Damayanti, V. (2022). Evaluasi fungsi ekologis taman kota dalam upaya peningkatan kualitas ruang perkotaan. *Jurnal Riset Perencanaan Wilayah Dan Kota*, 1(2), 149–158.
- Peixoto, F. P., Braga, P. H. P., & Mendes, P. (2018). A synthesis of ecological and evolutionary determinants of bat diversity across spatial scales. *BMC Ecology*, 18(18), 1–14.
- Raghuram, H., Jain, M., & Balakrishnan, R. (2014). Species and acoustic diversity of bats in a palaeotropical wet evergreen forest in southern India. *Current Science*, 107(4), 631–641.
- Rajkhowa, R. (2012). Light Pollution and Impact of Light Pollution. *International Journal of Science and Research (IJSR) ISSN (Online Impact Factor*, 3(10), 2319–7064.
- Rizkita, M. (2014). *Keanekaragaman jenis dan pemilihan sarang kelelawar (Ordo: Chiroptera) di Kota Tangerang Selatan* [Skripsi]. Universitas Islam Negeri Syarif Hidayatullah Jakarta.
- Ross, S. R. P. J., O'Connell, D. P., Deichmann, J. L., Desjonquères, C., Gasc, A., Phillips, J. N., Sethi, S. S., Wood, C. M., & Burivalova, Z. (2023). Passive acoustic monitoring provides a fresh perspective on fundamental ecological questions. *Functional Ecology*, 37(4), 959–975.
- Russo, D., Cosentino, F., Festa, F., De Benedetta, F., Pejic, B., Cerretti, P., & Ancillotto, L. (2019). Artificial illumination near rivers may alter bat-insect trophic interactions. *Environmental Pollution*, 252, 1671–1677.

- Rydell, J., Eklöf, J., & Sánchez-Navarro, S. (2017). Age of enlightenment: long-term effects of outdoor aesthetic lights on bats in churches. *Royal Society Open Science*, 4(12), 1–8.
- Saiful, M., Febrina, H. S., Fauzan, M., Maisa, D. R. V., Maolani, A., Suryanda, A., & Dewahrani, Y. R. (2021). Studi literatur perbandingan keanekaragaman kelelawar di Pulau Kalimantan dan Jawa. *BIO-EDU: Jurnal Pendidikan Biologi*, 6(3), 185–197.
- Salinas-Ramos, V. B., Ancillotto, L., Cistrone, L., Nastasi, C., Bosso, L., Smeraldo, S., Sánchez Cordero, V., & Russo, D. (2021). Artificial illumination influences niche segregation in bats. *Environmental Pollution*, 284.
- Saputra, Y., Sukandar, P., & Suryanda, D. A. (2016). Studi keanekaragaman jenis kelelawar (Chiroptera) pada beberapa tipe ekosistem di Camp Leakey kawasan Taman Nasional Tanjung Puting (TNTP), Kalimantan Tengah. *BIOMA*, 12(1), 53–58.
- Saraswati, A. W. (2023, June 15). *Polusi cahaya: kurangi sebelum terlambat!* Greeneration Foundation. <https://greeneration.org/publication/green-info/polusi-cahaya/>
- Schoeppler, D., Schnitzler, H. U., & Denzinger, A. (2018). Precise doppler shift compensation in the Hipposiderid bat, *Hipposideros armiger*. *Scientific Reports*, 8(1), 1–11.
- Ściążor, T. (2019). Light pollution as an environmental hazard. *Czasopismo Techniczne*, 8, 129–142.
- Sheherazade, Yasman, Pradana, D. H., & Tsang, S. M. (2017). The role of fruit bats in plant community changes in an urban forest in Indonesia. *Raffles Bulletin of Zoology*, 6, 497–505.
- Silva de Araújo, M. L. V., & Bernard, E. (2016). Green remnants are hotspots for bat activity in a large Brazilian urban area. *Urban Ecosystems*, 19(1), 287–296.
- Soegiharto, S., Kartono, A. P., & Maryanto, I. (2010). Pengelompokan kelelawar pemakan buah dan nektar berdasarkan karakteristik jenis pakan polen di Kebun Raya Bogor, Indonesia. *Jurnal Biologi Indonesia*, 6(2), 225–235.
- Stephen, M., Albert, C., Petchiammal, G., & Vanitharani, J. (2022). Impact of fruit bats (*Rousettus leschenaulti* and *Cynopterus sphinx*) in the tropical ecosystem of Tirunelveli District, Tamil Nadu, India. *Uttar Pradesh Journal of Zoology*, 43(8), 1–19.
- Stidsholt, L., Scholz, C., Hermanns, U., Teige, T., Post, M., Stapelfeldt, B., Reusch, C., & Voigt, C. C. (2024). Low foraging rates drive large insectivorous bats away from urban areas. *Global Change Biology*, 30(1), 1–14.
- Stone, E. L., Harris, S., & Jones, G. (2015). Impacts of artificial lighting on bats: A review of challenges and solutions. *Mammalian Biology*, 80(3), 213–219.

- Tomassini, A., Colangelo, P., Agnelli, P., Jones, G., & Russo, D. (2014). Cranial size has increased over 133 years in a common bat, *Pipistrellus kuhlii*: A response to changing climate or urbanization? *Journal of Biogeography*, 41(5), 944–953.
- Trecyana, L., & Dewantara, I. (2019). Keanekaragaman jenis kelelawar (Chiroptera) di Hutan Kota Teluk Akar Bergantung Kabupaten Ketapang. *Jurnal Hutan Lestari*, 7(1), 198–203.
- Ugland, K. I., Gray, J. S., & Ellingsen, K. E. (2003). The species-accumulation curve and estimation of species richness. In *Journal of Animal Ecology* (Vol. 72, Issue 5, pp. 888–897).
- Utami, K. A., & Ramli, M. (2022). Analisis perilaku jangkrik (*Gryllus bimaculatus*) pada simulasi efek polusi cahaya. *Proceeding Biology Education Conference*, 19(1), 75–78.
- Voigt, C. C., Dekker, J., Fritze, M., Gazaryan, S., Höller, F., Jones, G., Lewanzik, D., Limpens, H. J. G. A., Mathews, F., Rydell, J., Spoelstra, K., & Zagmajster, M. (2021). The impact of light pollution on bats varies according to foraging guild and habitat context. *BioScience*, 71(10), 1103–1109.
- Voigt, C. C., Schneeberger, K., Voigt-Heucke, S. L., & Lewanzik, D. (2011). Rain increases the energy cost of bat flight. *Biology Letters*, 7(5), 793–795.
- Wang, Q., Feng, J., Wu, H., & Jiang, T. (2024). Insectivorous bats provide more pest suppression services than disservices - a case study in China. *Biological Control*, 188, 1–10.
- Weschke, E., Schligler, J., Hely, I., Roost, T., Schies, J. A., Williams, B., Dworzanski, B., Mills, S. C., Beldade, R., Simpson, S. D., & Radford, A. N. (2024). Artificial light increases nighttime prevalence of predatory fishes, altering community composition on coral reefs. *Global Change Biology*, 30(12), 1–14.
- Wilson, D. E. (2025, February 16). Bat. Britannica. <https://www.britannica.com/animal/bat-mammal>
- Yoh, N., Kingston, T., McArthur, E., Aylen, O. E., Huang, J. C. C., Jinggong, E. R., Khan, F. A. A., Lee, B. P. Y. H., Mitchell, S. L., Bicknell, J. E., & Struebig, M. J. (2022). A machine learning framework to classify Southeast Asian echolocating bats. *Ecological Indicators*, 136, 1–13.
- Zeale, M. R. K., Stone, E. L., Zeale, E., Browne, W. J., Harris, S., & Jones, G. (2018). Experimentally manipulating light spectra reveals the importance of dark corridors for commuting bats. *Global Change Biology*, 24(12), 5909–5918.
- Zhu, G., Chmura, A., & Zhang, L. (2012). Morphology, echolocation calls and diet of *Scotophilus kuhlii* (Chiroptera: Vespertilionidae) on Hainan Island, South China. *Acta Chiropterologica*, 14(1), 175–181.