

## DAFTAR PUSTAKA

- Adji, C.N. dan E. Haryono. 2004. *Pengantar Geomorfologi dan Hidrologi Karst*. Fakultas Geografi UGM, Yogyakarta.
- Adji, C.N. 2010. Variasi Spasial-Temporal Hidrogeokimia dan Sifat Aliran untuk Karakterisasi Sistem Karst Dinamis di Sungai Bawah Tanah Bribin, Kabupaten Gunung Kidul DIY. *Disertasi*. Fakultas Geografi Universitas Gadjah Mada, Yogyakarta.
- Agosta. 2005. Habitat use, diet and roost selection by the big brown bat (*Eptesicus fuscus*) in North America: a case of conserving an abundant species. *Mammal Review*. 32: 179-198.
- Aguilar, J. and Waldien, D.L. 2021. *Hipposideros diadema*. *The IUCN Red List of Threatened Species* 2021: e.T10128A22095445. (<https://dx.doi.org/10.2305/IUCN.UK.20212.RLTS.T10128A22095445.e> n). Diakses pada 17 June 2023.
- Aguirre, L.F., Herrel, A., Van Dame, R., and Mattynsen E. 2003. The implication of food hardness for diet in bats. *Functional Ecology*. 17: 201-212.
- Ahmad, M.L., Haryono, E., dan Suprojo, S.W., 2005, Geomorfologi Karst Mayor antara Telaga Sanglèn dan Kamal, Kabupaten Gunung Kidul, DIY, *Gunung Sewu-Indonesian Cave and Karst Journal*. 1 (1).
- Aizpurua, O., Budinski, I., Georgiakakis, P., Gopalakrishnan, S., Ibanez, C., Mata, V., Rebelo, H., Russo, D., Szodoray\_Paradi, F., Zhelyazkova, V., Zrnčić, V., Gilbert, M. T. P., and Alberdi, A. 2018. Agriculture shapes the trophic niche of a bat preying on multiple pest arthropods across Europe: Evidence from DNA metabarcoding. *Molecular Ecology*. doi:[10.1111/mec.14474](https://doi.org/10.1111/mec.14474).
- Alcazar, S.M.T., Lit jr, I.L., Rebancos, C.M., Barrion-dupo, A.A, De Guia, A.P.O., Bantayan, N.C., and Alvarez, J.D.V. 2020. Diversity of cave-dwelling bats in Cebu Island, Philippines. *Biodiversitas*. 21 (7): : 3249-3254. DOI: 10.13057/biodiv/d210747.
- Allaby, M.A. *Dictionary of Zoology*, 5th ed. Oxford University Press: London, UK, 2020; p. 736.

- Alonso, A.L. and D. Cox. 2015. Platelet Interactions with Viruses and Parasites. in S. Kerrigan, N. Moran (eds.), *The Non-Thrombotic Role of Platelets in Health and Disease*, Intech Open, London. 10.5772/60747. <https://doi.org/10.5772/60747>.
- Altringham, J. D. 2001. *Bats: Biology and behavior*. Oxford University Press, Oxford.
- Altringham, J. D., and Senior, P. 2005. *Social systems and ecology of bats*. In K. E. Ruckstuhl dan P. Neuhaus (Eds.), *Sexual segregation in vertebrates: Ecology of the two sexes*. Cambridge: Cambridge University Press. pp. 280–302
- Alyokhin, A., Rondon S.I., and Gao, Y. 2022. *Insect Pests of Potato Global Perspectives on Biology and Management. Second Edition*. Elsevier Inc. . <https://doi.org/10.1016/C2019-0-03135-4>.
- Akçakaya, H.R. 2000. Viability analyses with habitat-based metapopulation models. *Population Ecology*, 42(1), 45–53.
- Archibald, J.D. 2005. Eutheria (Placental Mammals). *Encyclopedia of Life Science*. Doi 10.103.8/npg.els.0004123.
- Armstrong, K.N. 2021. *Hipposideros ater*. *The IUCN Red List of Threatened Species 2021*: e.T80457009A22097974. (<https://dx.doi.org/10.2305/IUCN.UK.2021.RLTS.T80457009A22097974.en>). Diakses pada 17 June 2023.
- Armstrong, K.N., Wiantoro, S. and Aplin, K. 2021. *Miniopterus australis* (amended version of 2019 assessment). *The IUCN Red List of Threatened Species 2021*: e.T13562A209528942. <https://dx.doi.org/10.2305/IUCN.UK.20213.RLTS.T13562A209528942.en>. Diakses pada 17 June 2023.
- Arrizabalaga-Escudero, A., Garin, I., García-Mudarra, J.L., Alberdi, A., Aihartza, J., and Goiti, H. 2015. Trophic requirements beyond foraging habitats: The importance of prey source habitats in bat conservation, *Biological Conservation*. 191: 512-519. <https://doi.org/10.1016/j.biocon.2015.07.043>.
- Avila-Flores, R., and Medellín, R.A. 2004. Ecological, Taxonomic, and Physiological Correlates of Cave Use by Mexican Bats, *Journal of Mammalogy*. 85 (4):675–687. <https://doi.org/10.1644/BOS-127>.

- Bahagiarti, S. 2005. *Hidrogeologi Karst dan Geometri Fraktal di Daerah Gunung Sewu*. Pusat Studi Karst, LPPM UPN Veteran, Yogyakarta.
- Balazs, D. 1971. Intensity of the Tropical Karst Development Based on Cases of Indonesia, Karszt-Es Barlangkutatas, Volume VI. Budapest, Globus nyomda, 67 p.
- Boyles, J.G., Cryan, P.M., McCracken, G.F., and Kunz, T.H. 2011. Economic importance of bats in agriculture. *Science*. 332, 41e42.
- Bradley, S. 2006. *The Ecology of Bat Reproduction*. Bioscience. Thu University of Nothingham.
- Brum, A.J.C., Loebens, L., Santos, M.D.B., and Cechin, S.Z. 2019. "First record of growth rings for 11 nativesubtropical anuran species of South America" *Anais da Academia Brasileira de Ciências*. 91 (4): e20190154. doi:10.1590/0001-3765201920190154.PMID31800706.
- Bu, Y., Wang, Y., Zhang, C., Liu, W., Zhou, H., Yu, Y. and Niu, H. 2015. Geographical distribution, roost selection, and conservation state of cave-dwelling bats in China. *Mammalia*, 79(4), 409-417. <https://doi.org/10.1515/mammalia-2014-0008>.
- Cahyadi, A, Prabawa, B.A, Tivianton, T.A., dan Nugraha, H. 2014. Ekologi Lingkungan Kawasan Karst Indonesia: Menjaga Asa Kelestarian Kawasan Karst Indonesia. Depublish, Yogyakarta. p. 1 – 13.
- Cahyo, P.N., Hadi, M.P., dan Adji, C.N. 2016. Pengaruh Potensi Sumberdaya Air terhadap Pola penggunaan Kebutuhan Domestik di Kecamatan Eromoko, Kabupaten Wonogiri. *Majalah Geografi Indonesia*. 30 (2): 196 – 206.
- Caldwell, K.L., Carter, T.C., and Doll, J. C. 2019. A Comparison of Bat Activity in a Managed Central Hardwood Forest. *The American Midland Naturalist* 181(2), 225-244. <https://doi.org/10.1674/0003-0031-181.2.225>.
- Chase, J.M., and Leibold, M.A. 2003. Ecological Niches: Linking Classical and Contemporary Approaches. University of Chicago Press. p. 7. ISBN 9780226101804.
- Chen Y, Liu Q, Su Q, Sun Y, Peng X, He X, et al. .2016. ‘Compromise’ in Echolocation Calls between Different Colonies of the Intermediate Leaf-Nosed Bat (*Hipposideros larvatus*). *PLoS ONE* 11(3): e0151382. <https://doi.org/10.1371/journal.pone.0151382>.

- Chruszcz, B.J. and Barclay, R.M.R. 2002. Thermoregulatory ecology of a solitary bat, *Myotis evotis*, roosting in rock crevices. *Functional Ecology*, 16: 18-26. <https://doi.org/10.1046/j.0269-8463.2001.00602.x>.
- Ciechanowski, M. 2015. Habitat preferences of bats in anthropogenically altered, mosaic landscapes of northern Poland. *European Journal of Wildlife Research*, 61(3), 415–428. doi:[10.1007/s10344-015-0911-y](https://doi.org/10.1007/s10344-015-0911-y).
- Clare, E.L., Lim, B.K., Engstrom, M.D., Eger, J.L., and Hebert, P.D.N. 2006. DNA barcoding of Neotropical bats: species identification and discovery within Guyana. *Mol Ecol Notes*. 7: 184-190.
- Cleveland, C.J., Frank, J.D., Federico, P., Gomez, I., Hallam, T.G., Horn, J., Lopez, J., McCracken, G.F., Medellin, R.A., Moreno-V, A., Sansone, C., Westbrook, J.K., and Kunz, T.H. 2006. Economic value of the pest control service provided by Brazilian free-tailed bat in south-central Texas. *Ecology and the Environment*, 4: 238-243.
- Corbet, G.B and Hill, J.E. 1992. *The Mammals of The Indomalayan region: A Systematic Review*. 1<sup>st</sup> Ed. Natural History Museum Publications and Oxford University press, Oxford.
- Culver, D. and White, W. 2005. *Encyclopedia of caves: Elsevier Academic Press*, Burlington, MA.
- Daoxian, Y, 2005, *The Carbon Cycle in Karst, Karst Dynamic Laboratory, China*, <http://www.karst.edu.cn/carbon/car-cyc.htm>
- Davis, A.K., D.L. Maney and J.C. Maerz (2008). The use of leukocyte profiles to measure stress in vertebrates: a review for ecologists. *Functional Ecology*. 22(5), 760–772. <https://doi.org/10.1111/j.1365-2435.2008.01467.x>
- Demos, T.C., Webala, P.W., Paterhans, J.C.K., Goodman, S.M., Bartonjo, M., and Patterson, B.D. 2019. Molecular phylogenetics of slit-faced bats (Chiroptera: Nycteridae) reveal deeply divergent African lineages. *J Zool Syst Evol Res*. 57 (4):1019–1038.
- Denzinger A. and Schnitzler H.U. 2004. Perceptual tasks in echolocating bats, in *Dynamic Perception*, eds Ilg U. J., Bülthoff H. H., Mallot H. A., editors. (Berlin: Akademische Verlagsgesellschaft. 33–38.

- Diamond, J. 1986. Overview: Laboratory Experiment, Field Experiments, and Natural Experiment. In Diamond, J. and T.J. Case (eds). *Community Ecology*. Harper and Row Publisher Inc, New York. 1-4.
- Duckworth, J.W, Lee B, and Tizard, J. 2008. *Callosciurus notatus*. *The IUCN Red List of Threatened Species 2008: e.T3600A9971096*. Diakses pada 8 Mei 2020.
- Duran A.R. and Centano, J.A.S. 2002. Temperature selection by tropical bats bertengger in caves. *J Thermal Biol.* 28: 465-468.
- Erkert H.G. 2000. Bats — *Flying Nocturnal Mammals*. In: Halle S., Stenseth N.C. (eds) *Activity Patterns in Small Mammals. Ecological Studies (Analysis and Synthesis)*, vol 141. Springer, Berlin, Heidelberg. [https://doi.org/10.1007/978-3-642-18264-8\\_16](https://doi.org/10.1007/978-3-642-18264-8_16)
- Ekeolu, O.K. and O.E. Adebisi. 2018. Hematology and erythrocyte osmotic fragility of the Franquet's fruit bat (*Epomops franqueti*). *J. Basic and Clinical Physiology and Pharmacology*, 29(4), 391-394. <https://doi.org/10.1515/jbcpp-2017-0169>.
- Faida, L.R.W., Sunarto, Sutikno, dan Fandeli, C. 2018. *Gunung Sewu Mengungkap Jejak Sejarah Flora, Merekonstruksi Kawasan Karst*. Gadjah Mada University Press, Yogyakarta. 21-28.
- Fajri, S.B., Al Idrus, A. dan Hadiprayitno, G. 2014. Kekayaan Spesies Kelelawar Ordo Chiroptera Di Gua Wilayah Selatan Pulau Lombok, Nusa Tenggara Barat. *Bioedukasi*. 7 (2): 5 – 9.
- Feldhamer G.A, Drickamer L.C, Vessey S.H, Merritt J.F. 1999. *Mammalogy: adaptation, diversity, and ecology*. Pennsylvania (US): The McGraw-Hill Companies, Inc.
- Ferreira, L.R. 2019. Guano Communities. In. Culver, W.B., Culver D.C. and T.Pipan. Ed. *Encyclopedia of Caves (Third Edition)*. Academic Press, US. 474-484. <https://doi.org/10.1016/B978-0-12-814124-3.00057-1>
- Foley, N.M., Thong, V.D., Soisook, P., Goodman, S.M., Armstrong, K.N., Jacobs, D.S., Puechmaille, S., and Teeling, E.C. 2015. How and why overcome the impediments to resolution: Lessons from rhinolophid and hipposiderid Bats. *Molecular Biology and Evolution*, 32(2), 313–333.

- Ford, T.D. and C.H.D. Cullingford. 1986. *The Science of Speleology*. Academic Press, London, New York, San Fransisco.
- Ford, D. and Williams, P. 1992. *Karst Geomorphology and Hydrology*, Chapman and Hall, London.
- Fukui, D. 2019. *Rhinolophus pusillus*. *The IUCN Red List of Threatened Species 2019*:e.T85707059A21994916. <https://dx.doi.org/10.2305/IUCN.UK.2019-3.RLTS.T85707059A21994916.en>. Diakses pada 17 Juni 2023.
- Furey, N. M., and Racey, P. A. 2016. Can wing morphology inform conservation priorities for Southeast Asian cave bats? *Biotropica*, 48, 545–556.
- GBIF Secretariat . 2019. *GBIF Backbone Taxonomy. Checklist dataset*. <https://doi.org/10.15468/39omei> . Diakses pada 4 Mei 2021
- GBIF. 2022. *Myotis muricola*. <https://www.gbif.org/species/2432429> . Diakses pada 10 Juli 2023.
- Gnaspini, 2012. *Guano Communities*. In. Culver, W.B. and D.C. Culver. Ed. *Encyclopedia of Caves (Second Edition)*. Academic Press, US. 357-364. <https://doi.org/10.1016/B978-0-12-383832-2.00050-5>.
- Greiner, S., Schwarzenberger, F., and Voigt, C. C.. 2011. Predictable timing of oestrus in the tropical bat *Saccopteryx bilineata* living in a Costa Rican rain forest. *Journal of Tropical Ecology*. 27 (2): 121 – 131. DOI: <https://doi.org/10.1017/S0266467410000696>.
- Guisan, A. and Zimmermann, N.E. 2000. Predictive habitat distribution models in ecology. *Ecological Modelling*, 135, 147–186.
- Guisan, A. and Thuiller, W. 2005. Predicting species distribution: offering more than simple habitat models. *Ecology Letters* 8, 993–1009.
- Hammer, O., Harper, D.A.T and Ryan, P.D. 2001. Past: Paleontological Statistics Software Package for Education and Data Analysis. *Palaeontologia Electronica*, 4,(1), art. 4: 9pp
- Haneda, N.F., furqan, M., and Suheri, M. 2020. Stem borer insects on *Hopea odorata* in Bogor, West Java, Indonesia. *Biodiversitas*. 21 (11): 5308-5316.
- Haryono, E., 2008. Model *Perkembangan Karst Berdasarkan Morfometri Jaringan Lembah Di Karangbolong, Gunungsewu. Blambangan dan*

*Rengel, Disertasi*, Fakultas Geografi Universitas gadjah Mada, Yogyakarta.

Hasibuan, M.M., Maryanto, I., dan Kartono, A.P. 2021. Suara Kelelawar (Microchiroptera) dari Gua Gudawang, Bogor [Bats Calls (Microchiroptera) from Gudawang Cave]. *Jurnal Biologi Indonesia*. 17(1): 1-10. DOI: 10.47349/jbi/17012021/1.

Herbert, P.D.N., Cywinska, A., Ball, S.L., and De Ward, J.R. 2003. Biological identification trough DNA barcodes. *Philos Trans Ser B*: 270: 313-321.

Hernández-Aguilar, I. and Santos-Moreno, A. 2020. Reproduction and population dynamics of cave-dwelling bats in Costa of Oaxaca, México. *Revista de Biología Tropical*, 68(3), 785-802.

Hill, J.E. and Smith, J.D. 1984. *Bats: A Natural History*. 1<sup>st</sup> Ed. Brithish Museum (Natural History), UK.

Hirzel, A.H., Posse, B., Oggier, P.A., Crettenand, Y., Glenz, C. and Arlettaz, R. 2004. Ecological requirements of a reintroduced species, with implications for release policy: the bearded vulture recolonizing the Alps. *Journal of Applied Ecology*, 41, 1103–1116.

Hutcheon, J. M., and Garland Jr, W. 2004. Are megabats big? *J. Mammal. Evol.* 11:257–277.

Hutson, A.M., Schlitter, D. and Kingston, T. 2008. *Nycteris javanica*. *The IUCN Red List of Threatened Species* 2008:e.T14932A4478321. <http://dx.doi.org/10.2305/IUCN.UK.2008.RLTS.T14932A4478321.en>. Diakses pada n 7 April 2020.

Ikranagara, R.D.F. 2016. Penyusunan Modul Pengayaan Keanekaragaman Jenis Kelelawar Subordo Microchiroptera Penghuni Gua Kawasan Karst Gunung Sewu, Gunungkidul Sebagai Bahan Ajar Keanekaragaman Hayati Kelas X Sma. *SI thesis*, Universitas Negeri Yogyakarta.

Inayati, E. 2012. Identifikasi Kelelawar (Ordo Chiroptera) di Gua Toto dan Luweng Toto, Kabupaten Gunung Kidul Yogyakarta. *Skripsi*. Universitas sebelas Maret Surakarta, Surakarta.

Ith, S., Bumrungsri, S., Thomas, N.M., Bates, P.J., Demian, A., Willette, Khan, F.A, Wonglapsuwan, M., Soisook, P., Maryanto, I., Huang, J.C., and Furey, N.M. 2016. Geographical variation of *Rhinolophus affinis*



(Chiroptera: Rhinolophidae) in the Sundaic subregion of Southeast Asia, including the Malay Peninsula, Borneo and Sumatra. *Acta Chiropterologica*. 18 (1): 141-161.

Ivanova, N.V., De Waard, J.R., and Hebert, P.D.N. 2006. An inexpensive, automation-friendly protocol for recovering high quality DNA. *Mol Ecol Notes*. 6: 998-1002.

Jackson, S.M., and Torington Jr, R.W. 2012. *Gliding Mammals Taxonomy of Living and Extinct Species*. Smithsonian Institutions Scholarly press, Washington DC.

Jiang, T., W. Metzner, Y. You, S. Liu, G. Lu, S. Li, and Wang, L.. 2010. Variation in the resting frequency of *Rhinolophus pusillus* in mainland China: Effect of climate and implication for conservation. *Journal Acoustic Society of America* 128(4): 2204-2211.

Jones G., and Teeling, E.C. 2006. The evolution of echolocation in bats. *Trends Ecol. Evol.* 21, 149–156 10.1016/j.tree.2006.01.001.

Jones G, and Holderie, M.W. 2007. Bat echolocation calls: adaptation and convergent evolution. *P Roy Soc BBiol Sci.*; 274(1612): 905–912.

Jones, G., Jacob, D.S., Kunz, T.H., Willig, M.R., and Racey, P.A. 2009. Carpe noctem: the importance of bats as bioindicators. *Endang Species Res.* 8: 93–115. doi: 10.3354/esr00182.

Kementan. 2014. Hama Eksotik Tanaman Padi. *Warta Penelitian dan Pengembangan Pertanian*. 36 (3).

Khan, f. A. A., s. Solari, v. J. Swier, p. A. Larsen, m. T abdullah, and Baker, R.J. 2010. Systematics of Malay -sian woolly bats (Vespertilionidae: Kerivoula) inferred from mitochondrial, nuclear, karyotypic, and morphological data. *Journal of Mammalogy*, 91: 1058–1072.

Khotimah, Y.K., Supardi, S., and Antriyandarti, E. (2019). Pemanfaatan Sumberdaya pertanian Lahan Kering di Pegunungan Karst Gunungkidul. Seminar Nasional Dalam Rangka Dies Natalis UNS Ke 43“Sumber Daya Pertanian Berkelanjutan dalam Mendukung Ketahanan dan Keamanan Pangan Indonesia pada Era Revolusi Industri 4.0”. UNS, Surakarta.

Kingston, T. and Meijaard, E. 2008. *Nycteris tragata*. *The IUCN Red List of Threatened Species* 2008:



e.T14937A4480733. <https://dx.doi.org/10.2305/IUCN.UK.2008.RLTS.T14937A4480733.en>. Downloaded on 11 May 2020.

- Kock, D. and Dobat, K. 2000. The bat fauna of Bali and Nusa Penida, Lesser Sunda Islands: corrections and additions (Mammalia : Chiroptera). *Acta Chiropterologica* 2(1): 83-96.
- Kofoky, A., Andriafidison D, Ratrimomanarivo, F., Razafimanahaka, H.J., Rakotondravony D., Racey, P.A., and. Jenkins, R.K.B. 2006. Habitat use, roost selection and conservation of bats in Tsingy de Bemaraha National Park, Madagascar. *Biodivers Conserv.* DOI 10.1007/s10531-006-9059-0.
- Krebs. C.J. 1989. [Ecological Methodology](#) *Second Edition*. Benjamin/Cummings.
- Kunz, T.H. 2003. Censusing Bats : Challenges, Solutions, and Sampling Biases., In O'Shea TJ. and MA. Bogan (ed). *Monitoring Trends in Bat Populations of the United States and Territories : Problems and Prospects*. U. S. Geological Survei, Biological Resources Division, Information and Technology Report. USGS/BRD/ITR-2003-003. P. 9-16
- Kunz, T.H and Anthony, E.L.P. 1982. Age estimation and post-natal growth in the bat *Myotis lucifugus*. *American Society of Mammalogist* 63 (1): 23-32.
- Kunz, T.H. and L.F. Lumsden. 2003. Ecology of cavity and foliage roosting bats. In: (T.H. Kunz and M.B. Fenton, eds.) *Bat ecology*. University of Chicago Press, Chicago. pp. 3–87.
- Kunz T.H., Whitaker Jr. J.O., and Wadanoli, M.D. 1995. Dietary energetics of the insectivorous Mexican free-tailed bat (*Tadarida brasiliensis*) during pregnancy and lactation. *Oecologia*. 101:407-415.
- Kunz, T.H., Braun de Torrez, E., Bauer, D., Lobova, T., and Fleming, T.H. 2011. Ecosystem services provided by bats. *Ann. N. Y. Acad. Sci.* 1223, 1e38.
- Kusch, J., Weber, C., Idelberger, S., and Koob, T. 2004. Foraging habitat preferences of bats in relation to food supply and spatial vegetation structures in a western European low mountain range forest. *Folia Zool.* 53(2): 113–128.
- Laksana, E.E. 2005. *Stasiun Nol: Teknik-teknik Pemetaan dan Survey Hidrologi Gua*. Megalith Books dan Acintyacunyata Speleological Club, Yogyakarta.

- Lapan. 2020. *Fase pertumbuhan padi*.  
<https://sipandora.lapan.go.id/app/sipanda/sumber-daya-wilayah-darat/map/6875>. Diakses pada 27 September 2023.
- Lecoq, M. and Zhang, L. 2019. *Encyclopedia of Pest Orthoptera of the World*. China Agricultur University Press, Beijing.
- Lemos-Espinal, J.A., Rojas-González, R.I., Zúñiga-Vega, J., and Jaime, J. 2005. *Técnicas para el estudio de poblaciones de fauna silvestre*. México: UNAM y CONABIO.
- Liddell, Henry G.; Scott, Robert (eds.). "χείρ" (<http://www.perseus.tufts.edu/hopper/text?doc=Perseus%3Atext%3A1999.04.0057%3Aentry%3Dxei%2Fr>). A Greek-English Lexicon. Retrieved 9 September 2017.
- Lin, a.-q., g. Csorba, l.-f. Li, t.-l. Jiang, g.-j. Lu, v. D. Thong, p. Soisook, k.-p. Sun, and Feng, j. 2014. Phylogeography of *Hipposideros armiger* (Chiroptera: Hipposideridae) in the Oriental Region: the contribution of multiple Pleistocene glacial refugia and intrinsic factors to con temporary population genetic structure. *Journal of Bio geo graphy*, 41: 317–327.
- Listihani, Pasmidiariati, P.E., Yuniti, I.G.A.D., and Selangga, D.G.W. 2022. Thebrownplanthopper(*Nilaparvatalugens*)attackanditsgeneticdiversityonriceinBali,Indonesia. *Bidiversitas*. 23 (9): 4696-4704.  
<https://doi.org/10.13057/biodiv/d230936>
- Liu YH, Zens Y, Liao U, Zhou CQ, Mi Z9. Mao M., and Chen L. 2012. Altitudmal variation in body size in the rice from {*Rana fimnocharis* } in southvi'etern China. *Acta Herpetoloeica* 7 (10): 57-68.
- Lopez-Hoffmann, L., Wiederholt, R., Sansone, C., Bagstad, K.J., Cryan, P., and Jay, E. 2014. Market forces and technological substitutes cause fluctuations in the value of bat pest-control services for cotton. *PLoS One*. 9, e87912.
- Maas, B., Clough, Y., and Tscharnkte, T. 2013. Bats and birds increase crop yield in tropical agroforestry landscapes. *Ecol. Lett.* 16, 1480e1487.
- Manly, B.F., McDonald, L.L., Thomas, D.L., McDonald, T.L. and Erickson, W.P. 2002. *Resource Selection by Animals: Statistical Design and Analysis for Field Studies*, 2nd edn. Kluwer Academic Publishers, Dordrecht, The Netherlands.

- Margiyanti, 2019. Identifikasi Kelelawar Pemakan Serangga (Microchiroptera) di Gua Groda, Kawasan Karst Gunung Sewu, Gunungkidul, Yogyakarta. *Panangkaran*. Vol 3, No 2. Doi: <https://doi.org/10.14421/panangkaran.2019.0302-08>.
- Maryanto, I., Noerjito, M., dan Ubaidillah, R. 2006. *Manajemen Bioregional: Karst, Masalah, dan Pemecahannya, Dilengkapi Kasus Jabodetabek*. Puslit Biologi LIPI, Bogor.
- Maryanto, I., Maharadatunkamsi, Achmadi, A.S., Wiantoro, S., Sulistyadi, E., Yooneda, M., Suyanto, A., and Sugardjito, J. 2019. *Cecklist oh The Mammals of Indonesia*. Research Center for Biology, Indonesian Institute of Science (LIPI). Bogor, Indonesia. 18.
- Maryati, Kartono, A.P., dan Maryanto, I. 2008. Kelelawar Pemakan Buah Sebagai Polinator yang Diidentifikasi Melalui Polen yang Digunakan Sebagai Sumber Pakannya di Kawasan Sektor Linggarjati, Taman Nasional Ciremai Jawa Barat. *Jurnal Biologi Indonesia*. 4(5): 335-347. DOI: <https://doi.org/10.14203/jbi.v4i5.3217>.
- Medellin, R.A., Equihua, M., and Amin, M.A. 2000. Bats diversity and abundance as indicators of disturbance in neotropical rainforests. *Concervation Biology*. 14: 1666-1675.
- McKenzie, N.L., Gunnell, A.C. Yani, M. et al. 1995. Correspondence between flight morphology and foraging ecology in some Palaeotropical bats Australian Journal of Zoology, 43: 241-257.
- Medway, L. 1979. *The Wild Mammals of Malaya (Peninsular Malaysia) and Singapura*. Ed ke-2. Oxford University, London.
- Mello, M. A. R., Schittini, G. M., Selig, P., and Bergallo, H.G. 2004. A Test of the Effects of Climate and Fruiting of Piper Species (Piperaceae) on Reproductive Patterns of the Bat *Carollia perspicillata* (Phyllostomidae). *Acta Chiropterologica*, 6(2) : 309-318. doi.org/10.3161/001.006.0209.
- Manueke, J., Assa, B.H., dan Pelealu, E.A. 2017. Hama-hama pada tanaman padi sawah (*oryza sativa* l.) Di kelurahan makalonsow kecamatan tondano timur kabupaten minahasa. *Eugenia*. 23 (3): 120-127.
- Miller, E.A. and Surlykke, A.A. 2001. Bats: Tactics and Countertactics of Prey and Predator. *BioScince*. 51 (7): 570-58.

- Misra, P.K., Gautami, N.K., and Elangovan, V. 2019. Bat guano: a rich source of macro and microelements. *Annals of Plant and Soil Research* 21(1): 82 – 86.
- Mubarok, H., N.S.N. Handayani, T. Arisuryanti, and Maryanto, I. (2021). Haematology profile of fruit bats *Cynopterus* spp. from special region Yogyakarta, Indonesia. *Malaysian Applied Biology*. 50(1), 1–9. <https://doi.org/10.55230/mabjournal.v50i1.17>.
- Neil, T.R., Shen, Z., Robert, D., Drinkwater, B.W., and Holderied, M.W. 2020 Thoracic scales of moths as a stealth, coating against bat biosonar. *J. R. Soc. Interface* 17, 20190692. (doi:10.1098/rsif.2019.0692).
- Nettles, V.J. 2013. *Bat aging based on dentition wear and wing scarring* [Thesis]. Texas (US): Texas Christian University.
- Nowak, R.M. 1999. *Walker's Mammals of the World, Vol.1*. John Hopkins University Press, Baltimore and London.
- Obrist M.K., Boesch R., and Flückiger, P.F.. 2004. Variability in echolocation call design of 26 Swiss bat species: consequences, limits and options for automated field identification with a synergetic pattern recognition approach. *Mammalia* 68(4): 307-322.
- O'Donnell, C.F.J. 2001. Home range and use of space by *Chalinolobus tuberculatus*, a temperate rainforest bat from New Zealand. *J. Zool., Lond.* 253, 253 – 264.
- Parker, A.P, Molly, J.D., Clark, R.H., and Lovegrove, T.G. 2012. *The Theory and Practice of Catching, Holding, Moving and Releasing Animals*. Pp 105-137. doi 10.1002/9781444355833.ch4.
- Payne, J, Francis, C.M, Phillips, K, and Kartikasari, S.N. 2000. *Panduan Lapangan Mamalia di Kalimantan, Sabah, Serawak, dan Brunei Darussalam*. Sabah Society and Wild life Conservation, Jakarta.
- Peterson, A.T. 2006. Uses and requirements of ecological niche models and related distributional models. *Biodiversity Informatics*, 3, 59–72.
- Phadmacanty, N.I.P.R., and Kurniati, K. 2019. Short Communication: Determination of the age of the Paddy Field Frog, *Fejervarya cancrivora* (Anura: Dicroglossidae) by using skeletochronology. *Biodiversitas* 20: 1739-1743

- Pocheville, A. 2015. "*The Ecological Niche: History and Recent Controversies*". In Heams, Thomas; Huneman, Philippe; Lecointre, Guillaume; et al. (eds.). *Handbook of Evolutionary Thinking in the Sciences*. Dordrecht: Springer. pp. 547–586. ISBN 978-94-017-9014-7.
- Pokhrel, S. and Budha, P.B. (2014) Key to identify insects from droppings of some insektivorous bats of Nepal. *Journal of Institute of Science and Technology*. 19, 129–136.
- Ponmalar, S. and Vanitharani, J. 2014. Insect pest management by the horse shoe bats (*Rhinolophus* species) in the forest ecosystem of Kalakad Mundanthurai Tiger Reserve, India. *Scrutiny International Journal of Biological and Environmental Sciences*, 4, 1–19.
- Prakarsa, T.B.P., Satino, and Rohmad, M.F. 2011. *The Variation of Cave Bats Dweller in Tuban and Menoreh Karstic Area Indonesia*. Paper Presented to The International Conference on Bioscience and Biotechnology, Yogyakarta, Indonesia, 11 – 12 October.
- Prakarsa, T.B.P., dan Riswandi, H. 2011. Keanekaragaman Kelelawar Penghuni Gua di Kawasan Karst Jonggrangan dan Karst Gunung Sewu. *Prosiding Workshop Ekosistem Karst*. Puslit Biologi Lipi, BKSDA, Yayasan Kanopi Indonesia, Yogyakarta.
- Prakarsa, T.B.P dan Hadisusanto, S. 2013. Diversitas, karakteristik habitat bertengger, dan analisis mangsa alami kelelawar subordo Microchiroptera Penghuni Gua Di Kawasan Karst Tuban dan Karst Menoreh. *Tesis*. Fakultas Biologi Universitas Gadjah Mada, Yogyakarta.
- Prakarsa, T.B.P. 2013. Diversitas Kelelawar (Chiroptera) Penghuni Gua, Studi Gua Ngerong di Kawasan Karst Tuban Jawa Timur. *Bioedukatika*. 1 (2): 1 – 10.
- Prakarsa, T.B.P., I.D. Kurniawan, and S.T.J. Putro. (2021). *Biospeleologi Biodiversitas Gua, Potensi, dan Permasalahannya*. Bintang Pustaka Madani, Yogyakarta.
- Prakarsa, T.B.P., Hadisusanto, S., Pudyatmoko, S., and Maryanto, I. 2023. Hematological profile of three species of *Hipposideros* spp. (*Hipposideridae*) as an adaptation in cave habitat, in gunung sewu geopark area, indonesia. *Journal of Animal and Plant Sciences*. 33(5). <https://doi.org/10.36899/JAPS.2023.5.0708>

- Puig-Montserrat, X., Torre, I., Lopez-Baucells, A., ´ Guerrieri, E., Monti, M., Rafols-Garc` ´ia, R., Ferrer, X., Gisbert, and Flaquer, D. 2015. Pest control service provided by bats in Mediterranean rice paddies: linking agroecosystems structure to ecological functions. *Mammalian Biology*. 80, 237e245.
- PUPR. 2023. *Kementerian PUPR Siapkan Jalan Pansela Jawa Sebagai Jalur Alternatif Mudik Lebaran 2023*. <https://www.pu.go.id/berita/kementerian-pupr-siapkan-jalan-pansela-jawa-sebagai-jalur-alternatif-mudik-lebaran-2023>. Diakses pada 9 Juli 2023.
- Rahmadi, C. 2002. Keanekaragaman Fauna Gua, Gua Ngerong Tuban, Jawa Timur, Tinjauan khusus pada Arthropoda. *Zoo Indonesia-Jurnal Fauna Tropica*. 29: 19 – 27.
- Rahmadi, C. 2008. *Cave Fauna of Java*. LIPI, Rufford Grand Foundation. P.16.
- Rahmadi, C. dan Wiantoro, S. 2008. Fauna Gua Tuban di Tengah Krisis Keanekaragaman Hayati dan Ancaman Kelestarian. *Prosiding Indonesian Scientific Karst Forum*. Yogyakarta.
- Rahmadi, C., Wiantoro, S., dan Nugroho, H. 2018. *Sejarah Alam Gunung Sewu*. LIPI Press, Jakarta.
- Rachman A, Sugiyanto J, Nurhidayat L, Nuriliani A, Rofioh AA, Hermawan A, and Narulita R. 2014. Tipe echolokasi serta Struktur Larynx pada *Miniopterus* dan *Rhinolophus*. *Biosfera* 31(3): 85-87.
- Razakarivony, V., Rejemison, B., and Goodman, S.M. 2005. The diet of Malagasy Microchiroptera base on stomach content. *Mammalia Biology*. 70(5): 312-316.
- R Core Team. 2020. *R: A language and environment for statistical computing*. Vienna, Austria: R Foundation for Statistical Computing. Retrieved from [http:// www.R-project.org](http://www.R-project.org).
- Rashid, N., M. Irfan, M.S. Nadeem, and A. Shabbir. 2016. Comparative seasonal haematology of two bat species, *Scotophilus heathii* and *Pipistrellus pipistrellus*, in a subtropical area of Pakistan. *Pakistan J. Zoology*, 48(5):1503-1510.

- Römer H, and Holderied M. 2020 Decision making in the face of a deadly predator: high-amplitude behavioural thresholds can be adaptive for rainforest crickets under high background noise levels. *Phil. Trans. R. Soc. B* 375: 20190471. <http://dx.doi.org/10.1098/rstb.2019.0471>.
- Rossina, V.V. 2006. Bats As an Indicator of Human Activity in the Paleolithic, Using the Example of Denisova Cave, Northwestern Altai. *Paleontological Journal*. 40 (4): S494–S500. DOI: 10.1134/S0031030106100091.
- Rushton, S.P., Ormerod, S.J., and Kerby, G. 2004. New paradigms for modelling species distributions?. *Journal of Applied Ecology*, 41(2), 193–200.
- Russ, J, 2012. *British Bat Calls: A guide to species Identification*. United Kingdom: Pelagic Publishing.
- Russo, D., Bosso, L., and Ancillotto, L. 2018. Novel perspectives on bat insectivory highlight the value of this ecosystem service in farmland: research frontiers and management implications. *Agric. Ecosyst. Environ.* 266, 31e38.
- Russo, D., Salinas-Ramos, V.B., Cistrone, L., Smeraldo, S., Bosso, L., Ancillotto, and Do, L. 2021. We Need to Use Bats as Bioindicators?. *Biology*. 10, 693. <https://doi.org/10.3390/biology10080693>.
- Ry. 2023. *Bupati Gunungkidul Panen Raya Padi Di Ponjong*. <https://pertanian.gunungkidulkab.go.id/berita-798/bupati-gunungkidul-panen-raya-padi-di-ponjong.html>. Diakses pada 13 Juli 2023.
- Samodra, H. 2006. *Geologi Batuan Karbonat dan Bentang Alam Karst*. in Maryanto, I., Noerdjito, M., dan R. Ubaidillah. Manajemen Regional: Kars, Masalah, dan Pemecahannya, dilengkapi kasus Jabodetabek. Puslit Biologi, LIPI, Bogor.
- Saveng, I., S. Bumrungsri, N.M. Thomas, P.J. Bates, A. Demian, Willette, F.A. Khan, M. Wonglapsuan, P. Soisook, I. Maryanto, JC. Huang, and Furey, N.M. 2016. Geographical variation of *Rhinolophus affinis* (Chiroptera: Rhinolophidae) in the Sundaic subregion of Southeast Asia, including the Malay Peninsula, Borneo and Sumatra. *Acta Chiropterologica* 18 (1): 141–161.
- Schnitzler, H.U. and Kalko, E.K.V. 2001. Echolocation by insect-eating bats. *BioScience* 51: 557–569.



- Sedgeley, J.A. 2003. Roost site selection and bertengger behaviour in lesser short-tailed bats (*Mystacinatuberculata*) in comparison with long-tailed bats (*Chalinolobus tuberculatus*) in Nothofagus forest, Fiordland, New Zealand *Journal of Zoology*, 30:3, 227-241, DOI: 10.1080/03014223.2003.9518341.
- Shetty, S. and Sreepada, K.S. (2013) Prey and nutritional analysis of *Megaderma lyra* guano from the west coast of Karnataka, India. *Advances in Bioresearch*, 4, 1–7.
- Sikes, R.S. 2016. Animal Care and Use Committee of the American Society of Mammalogists. 2016 Guidelines of the American Society of Mammalogists for the use of wild mammals in research and education. *J. Mammal.*, 97, 663–688. [CrossRef] [PubMed]
- Sikes, R.S. and Gannon, W.L. 2016. [IACUCs] Institutional Animal Care an Use Committee. Guidelines of the American society of mamalogist for the use of wild mammals in research. *Jurnal of Mammalogy* 92(1): 235-253.
- Simmons, N.B. 2005. Order Chiroptera. *Mammals Species of The World, a Taxonomy and Geographic Reference* 2<sup>nd</sup>. Smithsonian Inst. Press, Washington DC.
- Sinaga, M.H., Achmadi., A.S, dan Maryanto I. 2006. *Peran kelelawar goa dalam keseimbangan ekosistem*. Dalam: Maryanto I, Noerdjito M, Ubaidillah R. (Editor). *Manajemen Bioregional: Karst, Masalah dan Pemecahannya*, dilengkapi Kasus Jabodetabek. Bogor (ID): Pusat Penelitian Biologi Lembaga Ilmu Pengetahuan Indonesia.
- Sinsch U. 2015. Review: Skeletoehronoloeical assessment of demographic life-href traits in amphibians. *Herpetol* 1 25 (1): 5-13.
- Stiffer DF. 1993. *Amphibian calcium metabolism I Exp Biol* 184: 47-61.
- Soegiharto, S., Kartono, A.P., dan Maryanto, I. 2019. Dinamika Populasi dan Kerusakan Pohon Tempat Bertengger Kalong (*Pteropus vampyrus*) di Kebun Raya Bogor. *Jurnal Biologi Indonesia* 15(2): 167-175.
- R'oolbright L.L. 1983. Sexual selection and size dimorphism in inure amphibia. *Am Nat* 121 (1): 110-119.

- Saimina, A.J., de Queljoe, E. and Lengkong, H.J. 2019. Deskripsi hematologi kelelawar di Gunung Tangkoko berdasarkan pemeriksaan darah lengkap. *PHARMACON*, 8(3): 243-251.
- Short, N.M. and Blair, R.W. 1986. Geomophology from Space. *NASA Publication*. [http://geoinfo.amu.edu.pl/wpk/geos/geo\\_home\\_page.html](http://geoinfo.amu.edu.pl/wpk/geos/geo_home_page.html). Diakses pada 20 Januari 2021.
- Smith, C.A., C.M. Andrews, J.K. Collard, D.E. Hall, and A.K. Walker. 1994. Color atlas of comparative diagnostic & experimental hematology. Wolfe Publishing, Barcelona. 9-15 pp. <https://doi.org/10.1002/hon.2900120406>.
- Soberon, J. and Peterson, A.T. 2005. Interpretation of models of fundamental ecological niches and species' distributional areas. *Biodiversity Informatics*. 2, 1–10.
- Soegiharto, S., Kartono, A.P., dan 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.
- Sopha S. Soksan, C., Bros, D., Kosal, H., Saveng I., Sophany P, and Ratha S. 2020. Diet preferences of insectivorous bats (Mammalia: Chiroptera) in Chambok, Kampong Speu Province, Cambodia. *Cambodian Journal of Natural History*, (2): 69–77.
- Speakman, J.R., Bullock, D.J., Eales, L.A., and Racey, P.A. 1992. A Problem Defining Temporal Pattern in Animal Behaviour : Clustering in the Emergence Behaviour of Bats Form Maternity Roosts. *Animal Behaviour*. 50 (5) : 491-500.
- Srijono dan Aldilla, N. 2006. Geogenesis Polje-Purba Ponjong Kabupaten Gunungkidul, Daerah Istimewa Yogyakarta, *Gunung Sewu-Indonesian Cave and Karst Journal*. 2 (1).
- Srinivasulu, C. and Srinivasulu, B. 2019. *Myotis muricola*. *The IUCN Red List of Threatened Species* 2019: .T85537578A22065403. <https://dx.doi.org/10.2305/IUCN.UK.2019-3.RLTS.T85537578A22065403.en>. Diakses pada 11 Juli 2023.
- Srinivasulu, C. and Srinivasulu, A. 2020. *Hipposideros larvatus*. *The IUCN Red List of Threatened Species* 2020: e.T85646564A22091287.

<https://dx.doi.org/10.2305/IUCN.UK.2020-3.RLTS.T85646564A22091287.en>. Diakses pada 17 Juni 2023.

- Sulandari, S., Zein, M.S.A., Sutrisno, H., Dharmayanti, A.B., dan Natlia, I. 2013. *Tahapan Kerja dalam DNA Barcode. Dalam Zein, M.S.A. dan D.M. Prawiradilaga. (eds) DNA Barcode Fauna Indonesia*. Kencana Prenada Group, Jakarta, Indonesia. p 23-27.
- Summerfield. 1991. *Global Geomorphology*. John Wiley and Sons, New York.
- Surono, Toha, Sudarno, dan Wijosujono. 1992. *Geology Lembar Surakarta-Giritontro. Lembar dan Peta Geologi*. Puslitbang Geologi, Departemen Pertambangan dan Energi Republik Indonesia.
- Sutrisno, H., Zein, M.S.A., dan Sulandari, I. 2013. DNA Barcode. Dalam Zein, M.S.A. dan D.M. Prawiradilaga. (eds) *DNA Barcode Fauna Indonesia*. Kencana Prenada Group, Jakarta, Indonesia. p 10-17.
- Suyanto, A. 2001. *Seri Panduan Lapangan: Kelelawar di Indonesia*. Pusat Penelitian dan Pengembangan Biologi-LIPI, Bogor.
- Suyanto, A., Yoneda, M.M., Maryanto, I., Maharadatunkamsi, dan Sugarjito. 2002. *Check list of Indonesian mammals*. 2<sup>nd</sup> ed. LIPI, JICA, dan PHPA, Bogor.
- Tanalgo, K.C., Sritongchuay, T., and Hughes, A.C. 2021. Seasonal activity of fruit bats in a monoculture rubber and oil palm plantation in the Southern Philippines. *Conservation*. 1: 258-270.
- Taylor, P.J., Grass, I., Alberts, A.J., Joubert, E., and Tschardtke, T. 2018. Economic value of bat predation services e a review and new estimates from macadamia orchards. *Ecosyst. Serv.* 30, 372e381. <https://doi.org/10.1016/j.ecoser.2017.11.015>.
- Teeling, E. C., S. Dool, and Springer, M.S. 2012. *Phylogenies, fossils and functional genes: the evolution of echolocation in bats. Pp. 1–22 in Evolutionary history of bats: fossils, molecules, and morphology*. (G. F.Gunnell and N. B. Simmons, eds.). Cambridge Univ. Press, New York.
- Tiede, J., Wemheuer, B., Traugott, M., Daniel, R., Tschardtke, T., Ebeling, A., and Scherber, C. 2016. Trophic and non-trophic interactions in a biodiversity experiment assessed by next-generation sequencing. *PLOS ONE*. 11,(2) e0148781. doi:10.1371/ journal.pone.0148781.

- Treanor, J.J., Johnson, J.S., Lee, H.E., and Waag, A.G. 2019. *Yellowstone Bats: An Important Indicator of Ecosystem Health*. <https://www.nps.gov/articles/yellowstone-bats-important-indicator-ecosystem-health.htm>. Diakses pada 3 September 2021.
- Uitgeverij, W. and van Hoeve, B.V. 2002. *Ensiklopedia Indonesia seri Fauna: mammalia 1*. Jakarta (ID): PT. Ichtiar Baru.
- Unesco. 2021. *GUNUNG SEWU UNESCO GLOBAL GEOPARK (Indonesia)*. <http://www.unesco.org/new/en/natural-sciences/environment/earth-sciences/unesco-global-geoparks/list-of-unesco-global-geoparks/indonesia/gunung-sewu/>. Diakses pada 20 Februari 2021.
- Utama, W., Wijaya, K., Aldi, R., Farida A., dan Suto, R.B. 2016. Inventarisasi Potensi Kawasan Karst Pamekasan, Madura Utara. *Jurnal Geosaintek*. 2 (3).
- Van der kaars, s., d. Penny, j. Tibby, j. Fluin, r. A. C. Dam, and Suparan , P. 2001. Late Quaternary palaeoecology, palynology and palaeolimnology of a tropical lowland swamp: Rawa Danau, West-Java, Indonesia. *Palaeogeography, Palaeo climatology, Palaeoecology*, 171: 185–212.
- Van Harten, E., Lawrence, R., Lumsden, L.F., Reardon, T., Bennett, A. F., and Prowse, T.A.A. 2022. Seasonal population dynamics and movement patterns of a critically endangered, cave-dwelling bat, *Miniopterus orianae bassanii*. *Wildlife Research* 49(7), 646–658. <https://doi.org/10.1071/WR21088>.
- Vaughan, T. A., J. N. Ryan, and Czaplewski, N. J. 2015. *mammalogy*. 6th ed. Jones dan Bartlett, Burlington, Massachusetts.
- Waier, S.M., Moodley, Y., Fraser, M.F., Linden, V.M.G., Grass, I., Tschardtke, T., and Taylor, P.J. Insect pest consumption by bats in macadamia orchards established by molecular diet analyses. *Global Ecology and Conservation*. 18 : 1-9. DOI: 10.1016/j.gecco.2019.e00626.
- Walpole, R.E. 1995. *Pengantar Statistika. Penerjemah: Bambang Sumantri. Edisi Ketiga*. PT Gramedia Pustaka Utama, Jakarta.
- Waldien, D.L. and Wiantoro, S. 2021a. *Rhinolophus canuti*. *The IUCN Red List of Threatened Species* 2021: e.T19528A21982962.

<https://dx.doi.org/10.2305/IUCN.UK.2021-2.RLTS.T19528A21982962.en>. Diakses pada 17 Juni 2023.

Waldien, D.L. and Wiantoro, S. 2021b. *Nycteris javanica*. *The IUCN Red List of Threatened Species* 2021: e.T14932A22013241.  
<https://dx.doi.org/10.2305/IUCN.UK.2021-2.RLTS.T14932A22013241.en>. Diakses pada 17 Juni 2023.

Wanger, T.C., Darras, K., Bumrungsri, S., Tschardtke, T., and Klein, A.M. 2014. Bat pest control contributes to food security in Thailand. *Biol. Conserv.* 171, 220e223.

Weterings, R. Wardenaar, J., Dunn, S., and Umponstira, C. 2015. Dietary analysis of five insectivorous bat species from Kamphaeng Phet, Thailand. *RAFFLES BULLETIN OF ZOOLOGY* 63: 91–96

Whitaker jr, J.O., McCracken, G.F., and Siemers, S.M. 2009. Food Habits Analysis of Insectivorous Bats. In Kunz, T.H (ed). *Behavioral and Ecological Method for the studi of Bats*. Johns Hopkins University press, Baltimore.

Whitaker, J.O. and Castor, L .2010. *Identification of insect parts found in bat guano*. In: Kunz TH, Parsons S (eds.) *Ecological and Behavioural Methods for the Study of Bats, Second Edition*. Johns Hopkins University Press, Baltimore, US. Pp 567–592.

Whitten, T., Soeriaatmadja, R.H., and Affif, S.A. 2000. Caves. The Ecology of Indonesian Series, Vol.II. *The Ecology of Java and Bali*. Dalhousie University, Singapore.

Wiantoro S. 2012. Diversity and Bertengger Characteristic of Bats in Buni Ayu Cave, Sukabumi Limestone Area, West Java. *Zoo Indonesia* 21 (1): 32-36.

Wijayanti, F. 2009. Keanekaragaman Jenis Kelelawar serta Kondisi Fisik Mikroklimat Habitat Bersarangnya pada Beberapa Goa di Kabupaten Kebumen. *Prosiding Seminas Nasional Peran Biosistematik dalam Pengelolaan Sumber Daya Hayati Indonesia*. Universitas Jenderal Soedirman, Purwokerto.

Wijayanti, F., Solihin, D.D., Alikodra, H.S. and Maryanto, I. 2011. Eritrosit dan hemoglobin pada kelelawar gua di kawasan karst Gombang, Kebumen, Jawa Tengah. *Jurnal Biologi Indonesia*, 7(1): 89-98.

- Wijayanti, F., Solihin, D.D., Alikodra, H.S. and Maryanto, I. 2012. The diet of Insektivorous cave-dwelling bats from Gombong Karst Area, Central Java, Indonesia. *Journal of Tropical Biology and Conservation*. 9 (1): 49 – 58.
- Wijayanti, F. 2013. Optimalisasi Peran Kelelawar Microchiroptera Sebagai Biokontrol Serangga Tomcat (*Paederus fuscipes*) dan ulat bulu (*Lymantriidae*) di Perkotaan. *Al Kauniah Jurnal Biologi*. 6 (1): 54 – 65.
- Wijayanti, F., Solihin, D.D., Alikodra, H.S., and Maryanto, I. 2011. Erythrocyt and Haemoglobin on Cave Bat at Gombong Karst Area, Kebumen Regency, Central Jawa. *Jurnal Biologi Indonesia* 7 (1): 89-98.
- Wijayanti F. and Maryanto I. 2017 Diversity and pattern of nest preference of bat species at bat-dwelling caves in Gombong Karst, Central Java, Indonesia *Biodiversitas* 18: 864-874.
- Wilson, D.E. and Reeder, M. 2005. *Mammal Species of The World, A Taxonomic and Geographic Reference*. 3<sup>rd</sup>ed. Vol. 1. Smithsonian Institution Press. Washington D.C.
- Wilson, D. E., and Mittermeier, R. A. (2019). *Handbook of the Mammals of the World*. Bats Barcelona: Lynx Edicions
- Winkelmann, J.R., Bonaccorso, F.J., and Strickler, T.L. 2000. Home Range of Southern Blossom Bat, *Syconycteris australis* in Papua New Guinea. *Tropical Biology*. 66 : 126 – 132
- Yazdi M. K. 2018. An accurate relationship between frequency and amplitude to nonlinear oscillations. *Journal of Taibah University for Science*, <https://doi.org/10.1080/16583655.2018.1498290>
- Yashiro, T. and Sanada-Morimura, S. 2022. First report of the invasive crop pest *Stenocranus pacificus* (Hemiptera: Delphacidae) in temperate Asia. *Entomological Science*, 25: e12500. <https://doi.org/10.1111/ens.12500>
- Yoon, K.B. and Park, Y.C. 2016. Echolocation Call Structure and Intensity of the Malaysian *Myotis muricola* (Chiroptera: Vespertilionidae). *J. For. Environ. Sci.* 32, 99–102. <https://doi.org/10.7747/JFES.2016.32.1.99>.
- Zahn A and Hager I. 2005. A cave dwelling colony of *Myotis daubentonii* in Bavaria, Germany. *Mam Biol.* 70 : 242-165.

- Zhang, L., Jones G., Rossiter, S., Ades, G., and Zhang, S. 2005. Diet of Flat-headed bat *Tylonycteris pachypus* dan *T. robustula* in Guanxi South China. *Journal of Mammalogy*. 86 (1): 61 – 66.
- Zukal, J., and Gajdosík, M. 2012. Diet of *Eptesicus serotinus* in an agricultural landscape. *Vespertilio*, 16, 357–363.
- Zukal, J. Berková, H., Bandouchová, H., Kováčová, V., and Pikula, J. 2017. *Bats and Caves: Activity and Ecology of Bats Wintering in Caves*. <http://dx.doi.org/10.5772/intechopen.69267>.