

REFERENCES

- Abdullah, M. T., Siswanto, H., Widiyanto, A. Setiabudi, A., & Firmansyah, (1997). Abundance, diversity and distributional records of bats in disturbed habitats in Kalimantan Barat, Indonesia. *Sarawak Museum Journal*, 11: 75-84.
- Aiken, S. R. & Leigh, C. H. (1992). *Vanishing Rain Forest: The Eco-logical Transition in Malaysia*. Clarendon Press, Oxford, 194 pp.
- Alvarez, W. S., Waller, D. M., & Solheim, S. L. (1988). Forests too deer: edge effects in northern Wisconsin. *Conservation Biology*, 2:348-358.
- Anwarali, F. A., Swier, V. J., Larsen, P. A., Solari, S., Besar, K., Wahap, M., Abdullah, M. T., Ellagupillay, S., Marklarin, M., & Baker, R. J. (2008). Using Genetics and Morphology to Examine Species Diversity of Old World Bats: report of a recent collection from Malaysia. *Occasional Papers of the Museum of Texas Tech University* 281: 1-28.
- Asquith, N. M., & Mejia-Chang, M. (2005). Mammals, Edge Effects, and the loss of tropical forest diversity. *Ecology*. 86(2):379-390.
- Azlan, J. M., Neuchlos, J., & Abdullah, M. T. (2005). Diversity of chiropterans in limestone forest area, Bau, Sarawak. *Malaysian Applied Biology* 34(1): 59-64.
- Bayne, E. M., & Hobson, K. A. (1998). The effect of habitat fragmentation by forestry and agriculture on the abundance of small mammals in the southern boreal mix wood forest. *Canadian Journal of Zoology*, 76: 62-69.
- Bernard, H., Fjeldsa, J., & Maryati, M. (2009). A case study on the effects of disturbance and conversion of tropical lowland rain forest on the non-volant small mammals in North Borneo: management implications. *Mammal Study* 34(2): 85-96. 2009.
- Bider, J. R. (1968). Animal activity in uncontrolled terrestrial communities as determined by a sand transect technique. *Ecological Monographs*, 38:269- 308.
- Brearley, F. Q., Prajadinata, S., Kidd, P. S., Proctor, J., & Suriantata. (2004). Structure and floristics of an old secondary rain forest in Central Kalimantan, Indonesia, and a comparison with adjacent primary forest. *Forest Ecology Management*. 195, 385–397.
- Brooks, T. M., Mittermeier, R. a., Mittermeier, C. G., da Fonseca, G. a. B., Rylands, A. B., Konstant, W. R., & Hilton-Taylor, C. (2002). Habitat Loss and Extinction in the Hotspots of Biodiversity. *Conservation Biology*, 16(4), 909–923.

- Buckland, S. T., Anderson, D. R., Burnham, K. P., Laake, J. L., Borchers, D. L., & Thomas, L. (2001). *Introduction to distance sampling: Estimating abundance of biological populations*. Oxford: Oxford University Press.
- Buckle, A. P., Chia, T. H., Fenn, M. P. G., & Visvalingam, M. (1997). Ranging behaviour and habitat utilisation of the Malayan wood rat (*Rattus tiomanicus*) in an oil palm plantation in Johore, Malaysia. *Crop Protection*, 16(5), 467–473.
- Burford, L. S., Lacki, M. J., & Covell, C. V. Jr. (1999). Occurrence of moths among habitats in a mixed mesophytic forest: implications for management of forest bats. *Forest Science*, 45: 323-332.
- Brühl, C. A. & Eltz, T. (2010). Fuelling the biodiversity crisis: species loss of ground-dwelling forest ants in oil palm plantations in Sabah, Malaysia (Borneo). *Biodiversity and Conservation*, 19(2), pp.519-529.
- Campbell, P., Reid, N. M., Zubaid, A., Adnan, A. M., & Kunz, T. H. (2006). Comparative Roosting Ecology of *Cynopterus* (Chiroptera: Pteropodidae) Fruit Bats in Peninsular Malaysia. *Biotropica*, 38(6), 725–734.
- Canadell, J., & Noble, I. (2001). Challenges of a changing Earth. *Trends in Ecology and Evolution*, 16 : 664-666.
- Carthew S. M., & Goldingay R. L. (1997). Non-flying mammals as pollinators. *Trends in Ecology & Evolution*, 12(3): 104-108.
- Chung, A. Y. C., Eggleton, P., Speight, M. R., Hammond, P. M., & Chey, V. K. (2000). The diversity of beetle assemblages in different habitat types in Sabah, Malaysia. *Bulletin of Entomological Research*, 90: 475–496.
- Clay, J. (2004) *World Agriculture & the Environment: A Commodity-by- Commodity Guide to Impacts and Practices*. Island Press, Washington, D.C.
- Colwell, R. K. & Coddington, J. A. (1994). Estimating terrestrial biodiversity through extrapolation. *Philosophical Transactions of The Royal Society: Biological Sciences, London* 345, 101-118.
- Colwell, R.K. (2006) EstimateS: Statistical Estimation of Species Richness and Shared Species from Samples. Version 8.0.0. Available at <http://purl.oclc.org/Estimates>.
- Corley, R. H. V., & Tinker, P. B. (2003) *The Oil Palm*, 4th edn. Blackwell Science Ltd, Oxford, UK.
- Danielsen, F., & Heegaard, M. (1995). Impact of logging and plantation development on species diversity: a case study from Sumatra. *Management of tropical forests: towards an integrated perspective*, Centre for Development and the Environment, University of Oslo, 73-92.

- Devries, P. J., Murray, D., & Lande, R. (1997). Species diversity in vertical, horizontal, and temporal dimensions of a fruit-feeding butterfly community in an Ecuadorian rainforest. *Biological Journal of the Linnean Society*, 62(3), 343–364.
- Diamond, J. M. (1984). “Normal” extinctions of isolated populations. In *Extinctions* (ed. M. H. Nitecki), pp. 191–246. University of Chicago Press, Chicago.
- Dolia, J., Devy, M.S., Aravind, N.A., & Kumar, A., (2008). Adult butterfly communities in coffee plantations around a protected area in the Western Ghats, India. *Animal Conservation*. 11, 26–34.
- Donald, P. F. (2004). Biodiversity impacts of some agricultural commodity production systems. *Issues in International Conservation. Conservation Biology*, 18: 17-37.
- DWNP, (2010). *Red list Of Mammals For Peninsular Malaysia*. Department of Wildlife and National Parks Peninsular Malaysia.
- Erickson, J. L., & West, S. D. (2003). Associations of bats with local structure and landscape features of forested stands in western Oregon and Washington. *Biological Conservation*, 109: 95-102.
- FAO. (2014). FAOSTAT Online Statistical Service. Available from <http://faostat.fao.org> (accessed January 2014). United Nations Food and Agriculture Organization (FAO), Rome.
- Faruk, A., Belabut, D., Ahmad, N., Knell, R. J., & Garner, T. W. J. (2013). Effects of oil-palm plantations on diversity of tropical anurans. *Conservation Biology : The Journal of the Society for Conservation Biology*, 27(3), 615–24.
- Figueiredo, M. S. L., & Fernandez, F. A. S. (2004). Contrasting effects of fire on populations of two small rodent species in fragments of Atlantic Forest in Brazil. *Journal of Tropical Ecology*, 20:225-228.
- Fitzherbert, E., Gardner, T., Caro, T., & Jenkins, P. (2006). Habitat preferences of small mammals in the Katavi ecosystem of western Tanzania. *African Journal of Ecology*, 45, 249–257.
- Fitzherbert, E. B., Struebig, M. J., Morel, A., Danielsen, F., Brühl, C. a, Donald, P. F., & Phalan, B. (2008). How will oil palm expansion affect biodiversity? *Trends in Ecology & Evolution*, 23(10), 538–45.
- Fletcher, C. D. (2006). Roosting ecology of insectivorous bats in Krau Wildlife Reserve, Pahang, Peninsular Malaysia. Unpublished PhD Dissertation, Universiti Kebangsaan Malaysia.2112-2126.

- Foley, J. A., DeFries, R., Asner, G. P., Barford, C., Bonan, G., Carpenter, S. R., Chapin, F. S., Coe, M. T., Daily, G. C., Gibbs, H. K., Helkowski, J. H., Holloway, T., Howard, E. A., Kucharik, C. J., Monfreda, C., Patz, J. A., Prentice, I. C., Ramankutty, N., & Snyder, P. K. (2005). Global consequences of land use. *Science*, 309(5734), pp.570-574.
- Foster, W. A., Snaddon, J. L., Turner, E. C., Fayle, T. M., Cockerill, T. D., Ellwood, M. D. F., Broad, G. R., Chung, A. Y. C., Eggleton, P., Chey, V. K., & Yusah, M. K. (2011). Establishing the evidence base for maintaining biodiversity and ecosystem function in the oil palm landscapes of South East Asia. *Philosophical Transactions of the Royal Society of London. Series B, Biological Sciences*, 366(1582), 3277–91.
- Francis, C. M. (1989). A comparison of mist nets and two types of harp traps for capturing bats. *Journal of Mammalogy* 70:865-870.
- Francis, C. M. (1994). Vertical stratification of fruit bats (Pteropodidae) in lowland dipterocarp rainforest in Malaysia. *Journal of Tropical Ecology* 10: 523–530.
- Francis, C. M. (2008). *A Field guide to the mammals of South-East Asia*. New Holland Publishers, United Kingdom.
- Fuentes-Montemayor, E., Cuarón, A. D., Vázquez-Domínguez, E., Benítez-Malvido, J., Valenzuela-Galvan, D. & Andresen, E. (2009). Living on the edge: roads and edge effects on small mammal populations. *Journal Animal Ecology*. 78(4):857-65
- Fukuda, D., Tisen, O. B., Momose, K., & Sakai, S. (2008). Bat diversity in the vegetation mosaic around a lowland dipterocarp forest of Borneo. *The Raffles Bulletin of Zoology*, 57(1): 213-221.
- Gannon, M. R., & Willig, M. R. (1995). Ecology of ectoparasites from tropical bats. *Environmental Entomology*, 24: 1495–1503.
- Gates, J. E. (1991). Powerline corridors, edge effects and wildlife in forested landscapes of the central Apalachians. Pp. 15-32, in *Wildlife and habitats in managed landscapes* (J. E. Rodick and E. G. Bolen, eds.). Island Press, Washington, D.C., 219 pp.
- Goosem, M. (2000). Effects of tropical rainforest roads on small mammals: fragmentation, edge effects and traffic disturbance. *Wildlife Research*. 29(3)277-289.

- Gotelli, N. J., & Entsminger, G. L. (2001). EcoSim: Null models software for ecology. Version 7.0. Acquired Intelligence Inc. & Kesey-Bear. <http://homepages.together.net/~gentsmin/ecosim.htm>.
- Grindal. (1996). Habitat use by bats in fragmented forests. Pages 260-272 in R. M. R. Barclay and R. M. Brigham, editors. *Bats and forests symposium*, British Columbia Ministry of Forests, Victoria, British Columbia, Canada.
- Grindal, S. D., & Brigham, R. M. (1999). Impacts of forest harvesting on habitat use by faraging insectivorous bats at different spatial scales. *Ecoscience*, 6: 25-34.
- Hall, L. S., Grigg, G. G., Moritz, C., Ketol, B., Sait, I., Marni, W., & Abdullah, M. T. (2004). Biogeography of fruit bats in Southeast Asia. *Sarawak Museum Journal*, 80: 191-284.
- Harris, L. D. (1988). Edge effects and conservation of biotic diversity. *Conservation Biology*, 2:330-332.
- Harvey, C. A., Medina, A., Sanchez, M., Vilchez, S., Hernandez, B., Saenz, J. C., Maes, J. M., Casanoves, F., & Sinclair, F. L. (2006). Patterns of animal diversity in different forms of tree cover in agricultural landscapes. *Ecological Application*, 16(5): 1986-1999.
- Heidemann, P. D., and Heaney, L. R. (1989). Population biology and estimates of abundance of fruit bats (Pteropodidae) in Phillipine submontane rainforest. *Journal of Zoology*, 218(4): 565-586.
- Hodgkison, R., Balding, S. T., Zubaid, A., & Kunz, T. H. (2003). Fruit bats (Chiroptera, Pteropodidae) as seed dispersers and pollinators in a lowland Malaysian rain forest. *Biotropica*, 35(4): 491- 502.
- Hodgkison, R., Balding, S. T., Zubaid, A., & Kunz, T. H. (2004). Temporal Variation in the Relative Abundance of Fruit Bats (Megachiroptera: Pteropodidae) in Relation to the Availability of Food in a Lowland Malaysian Rain Forest. *Biotropica*, 36(4), 522–533.
- Hubback, T. R. (1932), The Wildlife Commission of Malaya Report, Wildlife Commission of Malaya, Singapore
- Humes, M. L., Hayes, J. P., & Collopy, M. W. (1999). Bat activity in thinned, unthinned, and old growth forests in western Oregon. *Journal of Wildlife Management*, 63: 553-561.
- IUCN. (2013). IUCN Red List of Threatened Species. Version 2013.2. <http://www.iucnredlist.org>.

- Joann, C. L., Fletcher, C., Salim, H. M. W., Rahman, K. A., Harrison, R. D., & Potts, M. D. (2011). Insectivorous bat assemblage in the hill dipterocarp forest of Temengor Forest Reserve , Peninsular Malaysia. *Malayan Nature Journal*, 63(3), 569–576.
- Johns, A. G. (1997). *Timber Production and Biodiversity Conservation in Tropical Rain Forests*. Cambridge University Press, 225 pp.
- Khan, M. M. (1992). Mamalia Semenanjung Malaysia. Jabatan Perlindungan Hidupan Liar dan Taman Negara. Kuala Lumpur.
- Khan, F. A. A., Swier, V. J., Larsen, P. A., Solari, S., Besar, K., Wahap, M., Abdullah, M. T., Ellagupillay, S., Marklarin, M., & Baker, R. J. (2008). Using Genetics and Morphology to Examine Species Diversity of Old World Bats: report of a recent collection from Malaysia. *Occasional Papers of the Museum of Texas Tech University*, 281:1-28.
- Kingston, T. (2009). Analysis of species diversity of bat assemblages. Pp 195-215. In: *Behavioral and ecological methods for the study of bats*, 2nd Edition (eds., T. H. Kunz & S. Parsons), Smithsonian Institution Press, Washington.
- Kingston, T., Jones, G., Zubaid, A., & Kunz, T. H. (2000). Resource partitioning in rhinolophoid bats revisited. *Oecologia*, 124: 332-342.
- Kingston, T., Francis, C. M., Zubaid, A. & Kunz, T. H. (2003). Species richness in an insectivorous bat assemblage from Malaysia. *Journal of Tropical Ecology* 19: 1-12.
- Kingston, T., Lim, L. B., & Akbar, Z. (2006). *Bats of Krau Wildlife Reserve*. Bangi, Universiti Kebangsaan Malaysia.
- Koh, L. P. (2007). Potential habitat and biodiversity losses from intensified biodiesel feedstock production. *Conservation Biology*, Vol.21, pp.1373–1375.
- Koh, L. P. (2008). Can oil palm plantations be made more hospitable for forest butterflies and birds ? *Journal of Applied Ecology*, 45, 1002–1009.
- Koh, L. P., & Wilcove, D. S. (2007). Cashing in palm oil for conservation. *Nature*, 448(7157), 993–4.
- Koh, L. P., & Wilcove, D. S. (2008). Is oil palm agriculture really destroying tropical biodiversity? *Conservation Letters*, 1(2), 60–64.
- Kunz, T. H. (1982). Roosting ecology of bats. Pp. 1-55. In: T. H. Kunz (ed.). *Ecology of bats*. Plenum Press, New York.

- Lambert, T. D., Malcolm, J. R., & Zimmerman, B. L. (2005). Effects of mahogany (*Swietenia macrophylla*) logging on small mammal communities, habitat structure, and seed predation in the southeastern Amazon Basin. *Forest Ecology and Management*, 206(1-3), 381–398.
- Larsen, R. J., Boegler, K. A., Genoways, H. H., Will, P., Kirsch, R. A., & Pedersen, S. C. (2007). Mist netting bias , species accumulation curves , and the rediscovery of two bats on Montserrat (Lesser Antilles). *Acta Chiropterologica*, 9(2), 423–435.
- Laurance, W. F. (1994). Rainforest fragmentation and the structure of small mammal communities in tropical Queensland. *Biological Conservation*. 69:23-32.
- Linsenmair, K. E. (1997). Biodiversity and sustainable management of tropical forests. *Natural Resources Development*, 45/46 : 13-27.
- Livingston, G., Jha, S., Vega, A., & Gilbert, L., (2013). Conservation value and permeability of neotropical oil palm landscapes for orchid bees. *PLoS ONE* 8, e78523.
- Lucey, J.M., & Hill, J.K., (2012). Spillover of insects from rain forest into adjacent oil palm plantations. *Biotropica* 44, 368–377.
- Maddox, T., Priatna, D., Gemita, E., & Salampessy, A. (2007). "The conservation of tigers and other wildlife in oil palm plantations, Jambi Province, Sumatra, Indonesia (October 2007)." ZSL Conservation Report 7: i-ii, 1-62.
- Maisonneuve, C., & Rioux, S. (2001). Importance of riparian habitats for small mammal and herpetofaunal communities in agricultural landscapes of southern Quebec. *Agriculture Ecosystem and Environment*, 83: 165-175.
- Malcolm, J.R. & Ray, J.C. (2000). Influence of timber extraction routes on central African small-mammal communities, forest structure, and tree diversity. *Conservation Biology*, 14, 1623-1638.
- Mariana, A., Shukor, M., Muhd, N. H., Intan, N. B., & Ho, T. (2010). Movements and home range of a common species of tree–shrew, *Tupaia glis*, surrounding houses of otoacariasis cases in Kuantan, Pahang, Malaysia. *Asian Pacific Journal of Tropical Medicine*, 3(6), 427–434.
- McConkey, K. R. (2005) Influence of faeces on seed removal from gibbon droppings in a dipterocarp forest in Central Borneo. *Journal Tropical Ecology* 12:117–120
- Medellín, R. A., Equihua, M., & Amin, M. A. (2000). Bat diversity as indicators of disturbance in Neotropical rainforests. *Conservation Biology* 14, 1666– 1675.

- Medway L. (1983). *The wild mammals of Malaya (Peninsular Malaysia and Singapore)*. Kuala Lumpur: Oxford University Press.
- Morris, A. D., Miller, D. A., & Kalcounis-Rueppell, M. C. (2010). Use of forest edges by bats in a managed pine forest landscape. *Journal of Wildlife Management*, 74(1): 26-34.
- Murcia, C. (1995) Edge effects in fragmented forest: implication for conservation. *Trends in Ecology and Evolution* 10: 58-62.
- Myers, N., Mittermeier, R. A., Mittermeier, C. G., da Fonseca, G. A. B. and Kent, J. (2000). Biodiversity hotspots for conservation priorities. *Nature*, 403, 853-858.
- Nakagawa, M., Miguchi, H., and Nakashizuka, T. (2006). The effects of various forest uses on small mammals communities in Sarawak, Malaysia. *Forest Ecology and Management*, 231: 55-63.
- Nakagawa, M., Miguchi, H., Sato, K., Sakai, S. & Nakashizuka, T. (2007). Population dynamics of arboreal and terrestrial small mammals in a tropical rain forest in Sarawak, Malaysia. *The Raffels Bulletin of Zoology* 55(2): 389-395.
- Norsham, Y., Bernard, H. Chew, K.L., Yap, M.N., Yong, H.S. and Lim, B.L. (2000). A survey of mammals in the northern part of Belum Forest Reserve, Perak, Peninsular Malaysia. *Malayan Nature Journal* 54: 233–244
- Nur Juliani, S., Shahrul Anuar, M. S., Nurul Salmi, A. L., Nur Munira, A., & Nurul Liyana, K. (2011). Diversity Pattern of Bats at Two Contrasting Habitat Types along Kerian River, Perak, Malaysia. *Tropical Life Sciences Research*.
- Oksanen, J., Kindt, R., Legendre, P., O'Hara, B., Simpson, G. L., Solymos, P., Stevens, M. H. H. & Wagner, H. (2009). Vegan: community ecology package. R package version 1.15-4. (online) <http://CRAN.R-project.org/package=vegan>.
- Pardini, R. (2004). Effects of forest fragmentation on small mammals in an Atlantic Forest landscape. *Biodiversity Conservation*. 13:2567-2586.
- Patriquin, K. J., & Barclay R. M. R. (2003). Foraging by bats in cleared, thinned and unharvested boreal forest. *Journal of Applied Ecology* 40: 646-657.
- Phua, P. B., & Corlett, R. T. (1989). Seed dispersal by the lesser short-nosed fruit bat (*Cynopterus brachyotis*, Pteropodidae, Megachiroptera). *Malayan Nature Journal*, 42: 251-256.
- Preston, F. W. (1948). The commonness, and rarity, of species. *Ecology* 29, 254–283.

- Rajaratnam, R., Sunquist, M., Rajaratnam, L., & Ambu, L. (2007). "Diet and habitat selection of the leopard cat (*Prionailurus bengalensis borneoensis*) in an agricultural landscape in Sabah, Malaysian Borneo." *Journal of Tropical Ecology* 23(2): 209-217.
- Rhim, S-J., & Lee, W. S. (2007). Influence of forest fragmentation on the winter abundance of mammals in Mountain Chirisan National Park, South Korea. *Journal of Wildlife Management*, 71(5): 1404–1408.
- Saiful, A. A., Idris, A. H., Rashid, Y. N., Tamura, N., & Hayashi, F. (2001). Home range size of sympatric squirrel species inhabiting a lowland dipterocarp forest in Malaysia. *Biotropica*, 33: 346-351.
- Sala, O. E. (2000). Global Biodiversity Scenarios for the Year 2100. *Science* 287, 1770-1774.
- Samsudin, M., Khairul Najwan, A. J., Jalil, M. S., Abd Rahman, K., Mohd Nizam, M. S., Wan Mohd Shukri, W. A., Ismail, H., Shamsudin, I., & Wan Razali, W. M. (2010) Stocking and species composition of second growth forests in Peninsular Malaysia. *The Malaysian Forester* 73 (2): 213-225.
- Santos-Filho, M., Silva, D. J., & Sanaiotti, T. M. (2008). Edge effects and landscape matrix use by a small mammal community in fragments of semideciduous submontane forest in Mato Grosso, Brazil. *Brazilian Journal of Biology*, 68(4):703-710.
- Scott, D. M., Gemita, E., & Maddox, T. M. (2004). Small cats in human modified landscapes in Sumatra. *Cat News* 40:23-25.
- Sedgeley, J. A. (2001). Quality of cavity microclimate as a factor influencing selection of maternity roosts by a tree-dwelling bat, *Chalinobus tuberculatus*, in New Zealand. *Journal of Applied Ecology*, 38(2), 425–438.
- Sedgeley, J. A., and O'Donnell, C. F. J. (1999). Roost selection by the long-tailed bat, *Chalinobus tuberculatus*, in temperate New Zealand rainforest and its implications for the conservation of bats in managed forests. *Biological Conservation* 88:261-276.
- Shanahan, M., & Compton, S. G. (2000). Fig-eating by Bornean tree shrews (*Tupaia spp.*): evidence for a role as seed dispersers. *Biotropica*, 32(4a):759-764.
- Shariff, Y. (2003). Recapture data as an index of home range of insectivorous forest bats in Krau Wildlife Reserve. Unpublished Masters Thesis, Universiti Kebangsaan Malaysia.

- Shine, R., Ambariyanto, S., Harlow, P. & Mumpuni (1999) Ecological attributes of two commercially-harvested python species in northern Sumatra. *Journal of Herpetology*, 33, 249-257.
- Simmons, N., (2005). Chiroptera. In: Wilson, D.E., Reeder, D.M. (Eds.), *Mammal species of the World: a taxonomic and geographic reference*, third ed. John Hopkins University Press, Baltimore, pp. 312–529.
- Sodhi, N. S., Koh, L. P., Brook, B. W., & Ng, P. K. L. (2004) Southeast Asian biodiversity: an impending disaster. *Trends in Ecology & Evolution*, 19, 654–660.
- Sodhi, N. S., Koh, L. P., Clements, R., Wanger, T. C., Hill, J. K., Hamer, K. C., Clough, Y., Tscharntke, T., Posa, M. R. C., & Lee, T. M. (2010). Conserving Southeast Asian forest biodiversity in human-modified landscapes. *Biological Conservation*, 143(10), 2375–2384.
- Stevens, S. M. & Husband, T. P. (1998). The influence of edge on small mammals: evidence from Brazilian Atlantic forest fragments. *Biological Conservation*. 85:1-8.
- Struebig, M. J., Kingston, T., Zubaid, A., Mohd-Adnan, A., & Rossiter, S. J. (2008). Conservation value of forest fragments to Palaeotropical bats. *Biological Conservation*, 141(8), 2112–2126.
- Struebig, M. J., Kingston, T., Zubaid, A., Le Comber, S. L., Adura, M-A., Turner, A., Kelly, J., Bozek, M. & Rossiter, S. J. (2009). Conservation importance of limestone karst outcrops for Palaeotropical bats in a fragmented landscape. *Biological Conservation* 142(10): 2089-2096.
- Swingland, I. R. (2001). Definition of biodiversity. In *Encyclopedia of biodiversity*, vol. 1 (ed. S. A. Levin), pp. 377-391. Academic Press, San Diego.
- Tan, K. H., Zubaid, A., & Kunz, T. H. (1999). Fruit dispersal by the lesser dog-faced fruit bat, *Cynopterus brachyotis* (Muller) (Chiroptera: Pteropodidae). *Malayan Nature Journal*. 53: 331-336.
- Temple, S. A., & Cary, J. R. (1988). Modeling dynamics of habitat-interior bird populations in fragmented landscapes. *Conservation Biology*, 2:340- 347.
- Thabah, A., Rossiter, S. J., Kingston, T., Zhang, S., Parsons, S., Mya, K. M., Akhbar, Z. & Jones, G. (2006). Genetic divergence and echolocation call frequency in cryptic species of *Hipposideros larvatus* s.l. (Chiroptera: Hipposideridae) from the Indo-Malayan region. *Biological Journal of the Linnean Society* 88: 119-130.
- Thomas, J. a, Bourn, N. a, Clarke, R. T., Stewart, K. E., Simcox, D. J., Pearman, G. S., Curtis, R., & Goodger, B. (2001). The quality and isolation of habitat patches

- both determine where butterflies persist in fragmented landscapes. *Proceedings. Biological Sciences / The Royal Society*, 268(1478), 1791–6.
- Turner, E. C., Snaddon, J. L., Fayle, T. M., & Foster, W. A. (2008). Oil palm research in context: identifying the need for biodiversity assessment. *PLoS ONE*, 3(2).
- Turner, E., Snaddon, J., Ewers, R., Fayle, T., & Foster, W. (2011). The impact of oil palm expansion on environmental change: putting conservation research in context. In B. M. A. dos Santos (Ed.), *Environmental Impact of Biofuels*. InTech.
- van der Meer, P. J., Kunne, P. L. B., Brunsting, A. M. H., Dibor, L. A., & Jansen P. A. (2008). Evidence of scatter-hoarding in a tropical peat swamp forest in Malaysia. *Journal of Tropical Forest Science* 20(4): 340-343.
- Vaughan, T. A., Ryan, J. M., & Czaplewski, N. J. (2000). *Mammalogy*. 4th ed. Saunders College Publishing, Fort Worth, Texas.
- Wells, K., Pfeiffer, M., Lakim, M. B., & Linsenmair, K. E. (2004). Use of arboreal and terrestrial space by small mammal community in a tropical rain forest in Borneo, Malaysia. *Journal of Biogeography*, 31: 641-654.
- Wells, K., Kalko, E. K. V., Lakim, M. B., & Pfeiffer, M. (2007). Effects of rain forest logging on species composition of small mammals in Southeast Asia. *Journal of Biogeography*, 34: 1087-1099.
- Wells, K., Lakim, M. B., & Pfeiffer, M. (2008). Movement patterns of rats and treeshrews in Bornean rainforest inferred from mark- recapture data. *Ecotropica*, 14, 113–120.
- Whitemore, T. C. (1984). *Tropical rain forests of the Far East*. Clarendon Press. Oxford.
- Wilcove, D. S. (1999). *The Condor's Shadow: The Loss and Recovery of Wildlife in America*. W.H. Freeman and Co., New York.
- Wilcove, D. S., & Koh, L. P. (2010). Addressing the threats to biodiversity from oil-palm agriculture. *Biodiversity and Conservation*, 19(4), 999–1007.
- Wilson, D. E., & Reeder, D. M. (2005). *Mammal Species of the World: a Taxonomic and Geographic Reference*. third ed. John Hopkins University Press, Baltimore, pp. 312–529.
- Wood, B. J., & Fee, C. G. (2003). A critical review of the development of rat control in Malaysian agriculture since the 1960s. *Crop Protection*, 22(3), 445–461.

- Yahner, R. H. (1988). Changes in wildlife communities near edges. *Conservation Biology*, 2:333-339.
- Yasuda, M., Ishii, N., Okuda, T., and Hussein, N. A. (2003). Small Mammal Community: Habitat Preference and Effects after Selective Logging. In T. Okuda, Manokaran, N, M. Yoosuke, N. Kaoru, T. S. C., & Ashton P. S (Eds.), *Ecology of a Lowland Rain Forest in Southeast Asia* (pp. 533–546). Springer Japan.
- Yasuda M., Miura S., Ishii N., Okuda T., & Hussein N. A. (2005) Fallen fruits and terrestrial vertebrate frugivores: a case study in a lowland tropical rain forest in Peninsular Malaysia. In: Forget P. M., Lambert J. E., Hulme P. E., & Vander Wall S. B. (eds) *Seed fate: predation, dispersal and seedling establishment*. CABI Publishing, Wallingford, UK, pp 151–174
- Yoakum, J., & W. P. Dasman. (1969). Habitat manipulation practices. Pp. 173-231, in *Wildlife management techniques*. Third ed. (R. H. Giles, Jr., ed.). The Wildlife Society, Washington, D. C., 633 pp.
- Zakaria, M., Nawaz, M. R., Moradi, H. V., & Rosli, Z. (2014). Comparison of understory bird species in relation to edge – interior gradient in an isolated tropical rainforest of Malaysia. *Environment Development Sustainable*, 16, 375–392.
- Zamri, R., & Mohamed Zakaria. (2002). Immediate effects of selective logging on the feeding guild of the understory insectivorous birds in Ulu Muda Forest Reserve, Kedah, Malaysia. In *Proceedings of the Regional Symposium on Environmental and Natural Resources*. Vol 1: 737-744.
- Zubaid, A. (1993). A comparison of the bat fauna between a primary and fragmented secondary forest in peninsular Malaysia. *Mammalia* 57: 201-206.
- Zubaid, A. & Khairul Effendi Ariffin, M. (1997). A comparison of small mammal abundance between a primary and disturbed lowland rain forest in Peninsular Malaysia. *Malayan Nature Journal*, 50: 201-206.