

## DAFTAR PUSTAKA

- (n.d.). USGS.gov | Science for a changing world. Retrieved 2022, from <https://www.usgs.gov/>
- (n.d.). WorldPop. Retrieved 2021, from <https://hub.worldpop.org/>
- Adiyia, M., & Ashton, W. (2017, Juni). *Comparative Research*. Rural Development Institute.
- Adji, T. N. (2009). *Kajian Variasi Spasial-Temporal Hidrogeokimia dan Sifat Aliran untuk Karakterisasi Perilaku Sistem Karst Dinamis (SKD) Sepanjang Sungai Bawah Tanah (SBT) Bribin*. Unpublished Dissertation.
- Adji, T. N., Haryono, E., & Woro, S. (1999). Kawasan karst dan prospek pengembangannya Di Indonesia. *Seminar PIT IGI di Universitas Indonesia*.
- Adjie, & Haryono. (2017, September 12). karst gunungsewu. *geo science*, 6564(2423), 12-13.
- Adorador, J., Meneses, Z., & Fernando, E. (2020). Pinanga gruezoi (Araceae), a new slender clustering palm from the Philippines with notes on an amended description of *P. samarana*. *Phytotaxa*. DOI : 10.11646/phytotaxa.429.2.3
- Ahmed, M., Bashar, I., Alam, S. T., Wasi, A. I., Jerin, I., Khatun, S., & Rahman, M. (2021). An overview of Asian cement industry: Environmental impacts, research methodologies and mitigation measures. *Sustainable Production and Consumption*, 28, 1018–1039. <https://doi.org/10.1016/j.spc.2021.07.024>
- Alburo, H. (2018). Abundance and distribution of Philippine Tube-nosed Fruit Bat in Cebu, Philippines. *J Soc Technol*, 7, 19-29.
- Angulo, B., Morales, T., Uriarte, J. A., & Antigüedad, I. (2013, Oktober 11). Implementing a comprehensive approach for evaluating significance and disturbance in protected karst areas to guide management strategies. *Journal of Environmental Management*, 130, 386-396. DOI : 10.1016/j.jenvman.2013.08.057
- ASC. (2011, December 11). *SUMBA SPELEOLOGY EXPEDITION – ASC JOGJA*. ASC JOGJA. Retrieved June 25, 2022, from <http://asc.or.id/asc-jogja/sumba-speleology-expedition/>
- ASEAN. (2017). *Sustainable Minerals Development: Best Practices in ASEAN*. Community Relations Division (CRD) of the ASEAN Secretariat.
- Astuti, A. D. (2018). Implikasi Kebijakan Indonesia dalam Menangani Kasus Pencemaran Lingkungan oleh PT. Freeportterhadap Keamanan Manusia di Mimika Papua. *Journal of International Relations*, 4(3), 547-555.
- Bacalian, J. J. (1993). Why Should We Care for Our Caves? *People and Nature*, 8-10.
- Balete, D., Heaney, L., & Rickart, E. (2013). The mammals of Mt. Irid, Southern Sierra Madre, Luzon Island, Philippines. *J Nat Hist*, 15-21.

- Barcelona, J., Dolotina, N., Madroñero, G., Granert, W., & Sopot, D. (2006). The ferns and fern allies of the karst forests of Bohol Island, Philippines. *Am Fern*, 96(1), 1-20. DOI : 10.1640/0002-8444 (2006)96[1:tfafao]2.0.co;2
- Benson, R.C., & Yuhr, L.B. (2016). *Site Characterization in Karst and Pseudokarst Terraines*. Site Characterization in Karst and Pseudokarst Terraines. DOI : 10.1007/978-94-017-9924-9\_6
- Binh, L. V., Thinh, N. V., Köpp, R., Hai, V. D., & Mitlöhner, R. (2015). Responses of native tree species to soil water stress in a tropical forest on limestone, Vietnam. *Open Journal of Forestry*, 5, 711-722. DOI : 10.4236/ojf.2015.57063
- BPS. (2019). *Badan Pusat Statistik*. Badan Pusat Statistik. Retrieved 2022, from <https://www.bps.go.id/indicator/12/141/1/kepadatan-penduduk-menurut-provinsi.html>
- BPS. (2022, January 10). *Badan Pusat Statistik*. Badan Pusat Statistik. Retrieved 2022, from <https://www.bps.go.id/statictable/2013/12/31/1716/luas-kawasan-hutan-dan-kawasan-konservasi-perairan-indonesia-berdasarkan-surat-keputusan-menteri-lingkungan-hidup-dan-kehutanan.html>
- BPS (Badan Pusat Statistik). (2021). *Kabupaten Gunungkidul Dalam Angka 2021*. BPS Kabupaten Gunungkidul.
- BPS (Badan Pusat Statistik). (2022). *Nusa Tenggara Timur Dalam Angka 2022*. BPS Provinsi Nusa Tenggara Timur.
- Braatz, S., Davis, G., Shen, S., & Rees, C. (1992). *Conserving Biological Diversity: A Strategy for Protected Areas in the Asia-Pacific Region*. World Bank.
- Budiyono, B., & Faisol, A. (2021). Evaluasi Data Climate Hazards Group Infrared Precipitation With Station (Chirps) Dengan Data Pembanding Automatic Weather Stations (Aws) Dalam Mengestimasi Curah Hujan Harian Di Provinsi Papua Barat. *Jurnal Teknik Pertanian Lampung*, 10(1). DOI : 10.23960/jtep-l.v10i1.64-72
- Bukhari, S. A. H. (2011, November 20). *What is Comparative Study*. Tersedia di SSRN: <https://ssrn.com/abstract=1962328>. DOI : 10.2139/ssrn.1962328
- Calumpang, H. (2014). The flora of the limestone forest of Baladingan, Ticao Island, Philippines. *EM Intl*, 11-23.
- Chen, W., Bai, S., Zhao, H., Han, X., & Li, H. (2021, Juni 25). Spatiotemporal analysis and potential impact factors of vegetation variation in the karst region of Southwest China. *Environmental Science and Pollution Research*. DOI : 10.1007/s11356-021-14988-y
- Chen, W., Zhang, Y., Li, Z., Nguyen, Q., & Shui, Y. (2018). *Hemiboea crystallina*, a new species of Gesneriaceae from karst regions of China and Vietnam. *Phytotaxa*, 336. DOI : 10.11646/phytotaxa.336.1.8
- Clements, R., S, N., Sodhi, Schilthuizen, M., & NG, P. K. L. (2006, September). Limestone Karsts of Southeast Asia: Imperiled Arks of Biodiversity. *BioScience*, Vol. 56. DOI: 10.1641/0006-3568(2006)56[733:LKOSAI]2.0.CO;2
- Coxon, C. (2011). Agriculture and Karst. In *Karst Management* (pp. 103-138). Springer. DOI : 10.1007/978-94-007-1207-2\_5

- Day, M. (2011). Protection of Karst Landscapes in the Developing World: Lessons from Central America, the Caribbean, and Southeast Asia. In *Karst Management* (p. 447). Springer. DOI : 10.1007/978-94-007-1207-2\_20
- Day, M., & Tang, T. (2004). Tower Karst. In *Encyclopedia of caves and karst science* (pp. 1571-1574). Fitzroy Dearborn.
- Day, M., & Urich, P. (2000, August). An assessment of protected karst landscapes in Southeast Asia. *Cave and Karst Science*, 27(2).
- DENR. (2001). *Coastal Management Orientation and Overview*. Department of Environment and Natural Resources.
- De Waele, J. (2009). Evaluating disturbance on mediterranean karst areas: the example of Sardinia (Italy). *Environ Geol*, 58, 239–255. DOI: 10.1007/s00254-008-1600-x
- Dinku, T., Funk, C., Peterson, P., Maidment, R., Tadesse, T., Gadain, H., & Ceccato, P. (2018, November). Validation of the CHIRPS satellite rainfall estimates over eastern Africa. *Quarterly Journal of The Royal Meteorological Society*, 144(1), 292-312. DOI : 10.1002/qj.3244
- Djakamihardja, A. S., & Mulyadi, D. (2013, June). Implication of Limestone Quarry to the Hydrological Condition in Citeureup, Bogor, West Java. *Ris.Geo.Tam*, 23(1), 49-60. DOI : 10.14023/rietgeotam2013.v23.69
- Dreybrodt, J. (2021). Karst and Cave Conservation in Myanmar. *International Congress of Speleology*.
- Ellis, M., & Pauwels, O. (2012). The bent-toed geckos (*Cyrtodactylus*) of the caves and karst of Thailand. *Cave Karst Sci*, 39(1), 16-22.
- Endarto, R., Gunawan, T., & Haryono, E. (2015). Kajian Kerusakan Lingkungan Karst Sebagai Dasar Pelestarian Sumber daya Air (Kasus Di Das Bribin Hulu Kabupaten Gunungkidul Daerah Istimewa Yogyakarta). *Majalah Geografi Indonesia*, 29(1), 51-59.
- ESDM. (2018, October 25). *Menguak Potensi Batubara Metalurgi, Batubara dengan Harga Jual Tinggi*. Kementerian ESDM. Retrieved 2022, from <https://www.esdm.go.id/id/media-center/arsip-berita/menguak-potensi-batubara-metalurgi-batubara-dengan-harga-jual-tinggi>
- ESDM. (2020). *Booklet Tambang Emas Perak 2020*. Kementerian ESDM RI - Booklet. Retrieved 2022, from <https://www.esdm.go.id/id/booklet/booklet-tambang-emas-perak-2020>
- ESDM. (2022). Energy and Mineral Overview. Retrieved 2022, from <https://geoportal.esdm.go.id/emo/>
- Fan, F.D., Wang, K.L., Xiong, Y., Xuan, Y., Zhang, W., & Yue, Y.M. (2011). Assessment and spatial distribution of water and soil loss in karst regions, southwest China. *Acta Ecol. Sin*, 31, 6353–6362.
- Fanchette, S., 2002. Le delta du Fleuve Rouge (Vietnam): etude des densites de population et de l'urbanisation des campagnes. *Espace Popul. Soc.* 1 (2), 189e202. DOI : 10.3406/espos.2002.2031.
- Filippov, A. G. (2004). Mineral Deposits In Karst. In *Encyclopedia of Caves and Karst Science*. Fitzroy Dearborn.
- Ford, D., & Williams, P. (2007). *Karst hydrogeology and geomorphology*. Wiley.
- Ford, D., & Williams, P. (2007). *Karst Hydrogeology and Geomorphology* (Rev. Ed. ed.). John Wiley & Sons Ltd.

- Furey, N., Mackie, I., & Racey, P. (2010). Bat diversity in Vietnamese limestone karst areas and the implications of forest degradation. *Biodivers Conserv*, 19(7), 1821-1838. DOI : 10.1007/s10531-010- 9806-0
- Furey, N.M., & Racey, P.A. (2016). Can wing morphology inform conservation priorities for Southeast Asian cave bats? *Biotropica*. DOI : 10.1111/btp.12322
- Furey, N. M., Whitten, T., Capelle, J., & Racey, P. A. (2016). The conservation status of Cambodian cave bats.
- Gaveau, D. L.A., Descals, A., Salim, M. A., Sheil, D., & Sloan, S. (2021, November 18). Refined burned-area mapping protocol using Sentinel-2 data increases estimate of 2019 Indonesian burning. *Earth Syst. Sci.*, 13(11), 5353–5368. DOI : 10.5194/essd-13-5353-2021
- Geleta, C. D., & Deressa, T. A. (2022, November 22). Evaluation of Climate Hazards Group InfraRed Precipitation Station (CHIRPS) satellite-based rainfall estimates over Finchaa and Neshe Watersheds, Ethiopia. *Engineering Reports*, 3(6). DOI : doi.org/10.1002/eng2.12338
- Gem, C. 1996. Kamus Saku Biologi. *Erlangga*.
- Gibert, J., & Deharveng, L. (2002, June 1). Subterranean ecosystems: A truncated functional biodiversity. 52(6), 73–481. DOI : 10.1641/0006-3568(2002)052[0473:SEATFB]2.0.CO;2
- Gillieson, D. (2005). Karst in Southeast Asia. In *The Physical Geography of Southeast Asia*. Oxford University Press.
- Goldscheider, N., Chen, Z., Auler, A. S., Bakalowicz, M., Broda, S., Drew, D., Hartmann, J., Jiang, G., Moosdorf, N., Stevanovic, Z., & Veni, G. (2020). Global distribution of carbonate rocks and karst water resources. *Hydrogeology Journal*. DOI : 10.1007/s10040-020-02139-5
- Graveland, J., Der Wal, R. V., Balen, J. V., & Noordwijk, A. V. (1994). Poor reproduction in forest passerines from decline of snail abundance on acidified soils. *Nature*, 368, 446–448. DOI : 10.1038/368446a0
- Grismer, L., Wood, P., Anuar, S., Davis, H., Cobos, A., & Murdoch, M. (2016). A new species of karst forest Bent-toed Gecko (genus *Cyrtodactylus* Gray) not yet threatened by foreign cement companies and a summary of Peninsular Malaysia's endemic karst forest herpetofauna and the need for its conservation. *Zootaxa*, 4061, Zootaxa.
- Grismer, L., Wood, P., Anuar, S., Riyanto, A., Ahmad, N., Muin, M., & Pauwels, O. (2014, Oktober). Systematics and natural history of Southeast Asian Rock Geckos (genus *Cnemaspis* Strauch, 1887) with descriptions of eight new species from Malaysia, Thailand, and Indonesia. *Zootaxa*, 3880(1), 1-147. DOI : 10.11646/zootaxa.3880.1.1
- Grismer, L., Wood, P., Aowpho, A., Cota, M., Grismer, M., Murdoch, M., & Grismer, J. (2017). Out of Borneo, again and again: Biogeography of the Stream Toad genus *Ansonia* Stoliczka (Anura: Bufonidae) and the discovery of the first limestone cave-dwelling species. *Biol J Linn Soc*, 120(2), 371-395. DOI : 10.1111/bij.12886
- Grismer, L., Wood, P., Thura, M., Quah, E., Murdoch, M., Grismer, M., & Kyaw, H. (2018a). Three more new species of *Cyrtodactylus* (Squamata:

- Gekkonidae) from the Salween basin of eastern Myanmar underscore the urgent need for the conservation of karst habitats. *J Nat Hist*, 52(19-20), 1243-1294. DOI : 10.1080/00222933.2018.1449911
- Grismer, L., Wood, P., Thura, M., Thaw, Z., Quah, E., Murdoch, M., & Lwin, N. (2018b). Twelve new species of Cyrtodactylus Gray (Squamata: Gekkonidae) from isolated limestone habitats in eastcentral and southern Myanmar demonstrate high localized diversity and unprecedented microendemism. *Zool J Linn Soc*, 182(4), 862- 959. DOI : 10.1093/zoolinnean/zlx057
- Grismer, L. L. (2022). *Conserving Myanmar's karst biodiversity*. Fauna & Flora International. Retrieved February 7, 2022, from <https://www.fauna-flora.org/projects/conserving-myanmars-karst-biodiversity/>
- Gupta, A. (2005). Landforms of Southeast Asia. In *The Physical Geography of Southeast Asia* (pp. 38-64). Oxford University Press.
- Gupta, A. (2005). *The Physical Geography of Southeast Asia*. Oxford University Press.
- Gutiérrez, F., Parise, M., Waele, J. D., & Jourde, H. (2014, Agustus 17). A review on natural and human-induced geohazards and impacts in karst. *Earth-Science Reviews*, 138, 61-88. DOI : 10.1016/j.earscirev.2014.08.002
- Hall, R. (2009, Oktober 30). Southeast Asia's changing palaeogeography. *Blumea*, 54, 148–161. DOI : 10.3767/000651909X475941
- Hamidah, S., & Hidayat, M. N. (2022). Upaya Walhi Kalimantan Selatan Dalam Memperjuangkan Kelestarian Karst Pegunungan Meratus. *Prosiding seminar nasional lingkungan lahan basah*, 7(3).
- Haryono, E., & Adji, T. N. (2004). *Geomorfologi Dan Hidrologi Karst*.
- Haryono, E., & Adji, T. N. (2004). *Pengantar Geomorfologi dan Hidrologi Karst*. Fakultas Geografi Universitas Gadjah Mada.
- Haryono, E., Yuwono, S. E., & Faida, L. R. W. (2008). Dynamic Interrelationship Between Landform Evolutions, Human Habitation And Biodiversity In Gunung Sewu Karst, Java-Indonesia. *International Conference on Dynamic Interactions of Life and Its Landscape*.
- Haryono, E., Adji, T. N., & Widyastuti, M. (2009). Environmental Problem Of Telaga (Doline Pond) In Gunungsewu Karst, Java Indonesia. *International Congress of Speleology*.
- He, G., Zhang, Z., Zhang, J., & Huang, X. (2020, Agustus 6). Soil Organic Carbon Dynamics and Driving Factors in Typical Cultivated Land on the Karst Plateau. *J. Environ. Res. Public Health*, 17. DOI : 10.3390/ijerph17165697
- He, G., Zhao, X., & Yu, M. (2021, April 16). Exploring the multiple disturbances of karst landscape in Guilin World Heritage Site, China. *Catena*. DOI : 10.1016/j.catena.2021.105349
- Hetterscheid, W., Wistuba, A., Amoroso, V., Medecilo, M., & Claudel, C. (2012). *Amorphophallus natolii* (Araceae), a new species from limestone on Palawan, Philippines. *Bot Stud*, 53, 415-420.
- Hou, W., & Gao, J. (2020). Spatially variable relationships between Karst Landscape pattern and vegetation activities. *Remote Sensing*, 12(7). DOI : 10.3390/rs12071134



- Hutchison, C. S. (2005). The Geological Framework. In *The Physical Geography of Southeast Asia* (pp. 3-23). Oxford University Press.
- Jiang, D., Goodale, E., Yang, G., Yu, L., Aiwu, J., & Lou, X. (2019). Modeling the distribution of Nonggang Babbler *Stachyris nonggangensis*, a threatened bird of limestone karst forests of the Sino-Vietnam border, and implications for its conservation. *Bird Conserv Int*, 1-12. DOI : 10.1017/S0959270919000236
- Jiang, G., Chen, Z., Siripornpibul, C., Haryono, E., Nguyen, N. X., Oo, T., Manzano, L. S. J., Vongphachanh, S., Kong, S., & Guo, F. (2020, November 5). The karst water environment in Southeast Asia: characteristics, challenges, and approaches. *Hydrogeology Journal*. DOI : 10.1007/s10040-020-02267-y
- Kahlert, T., O'Donnell, S., Stimpson, C., Hương, N. T. M., Hill, E., Utting, B., Rabett, R. 2021. Mid-Holocene coastline reconstruction from geomorphological sea level indicators in the Tràng An World Heritage Site, Northern Vietnam. *Quaternary Science Reviews*. DOI : 10.1016/j.quascirev.2021.107001
- Kazuko, U.-Y. (1995). *Regionality Of Karst And The Human Activity In Gunung Sewu, Java Island*.
- Keeton-Olsen, D., & Ry, R. (2020, November 17). *Cambodian construction boom turns karst mountains to cement*. China Dialogue. Retrieved November 15, 2021, from [chinadialogue.net](http://chinadialogue.net)
- Keraf, S. (2014). *Filsafat Lingkungan Hidup*. Kanisius.
- Kiernan, K. (2009). Distribution And Character Of Karst In The Lao Pdr. *Acta Carsologica*, 38(1), 65-81.
- Kiernan, K. (2010). Environmental Degradation In Karst Areas Of Cambodia: A Legacy Of War? *Land Degrad. Develop*, 21, 503–519. DOI : 10.1002/ldr.988
- Kiernan, K. (2013, April 17). Nature, Severity And Persistence Of Geomorphological Damage Caused By Armed Conflict. *Land Degrad. Develop*, 26, 380–396. DOI : 10.1002/ldr.2216
- Kiew, R. (1991). *The State of nature conservation in Malaysia / edited by R. Kiew*. Petaling Jaya : Malayan Nature Society.
- Kiew, R. (2014). Checklist of vascular plants from Batu Caves, Selangor, Malaysia. *Biotaxa*, 10(6), 1420–1429. DOI : 10.15560/10.6.1420
- Kiew, R. (2016). *Impatiens* (Balsaminaceae) species from karst limestone in Kelantan, Malaysia, including three new species. *Gard Bull Singap*, 68, 225. DOI: 10.3850/S2382581216000181
- Kiew, R., & Rahman, R. A. (2021). Plant diversity assessment of karst limestone, a case study of Malaysia's Batu Caves. *Nature Conservation*, 44, 21-49. DOI : 10.3897/natureconservation.44.60175
- Kingston, T. (2008). Research priorities for bat conservation in Southeast Asia: A consensus approach. *Biodivers Conserv*, 19(2), 471-484. DOI : 10.1007/s10531-008-9458-5.
- Karra, K., Kontgis, C., Statman-Weil, Z., Mazzariello, J. C., Mathis, M., & Brumby, S. P. (2021). Global land use / land cover with Sentinel 2 and deep

- learning. 2021 *IEEE International Geoscience and Remote Sensing Symposium IGARSS*, 4704–4707. DOI : 10.1109/IGARSS47720.2021.9553499
- Kovarik, J. L., & van Beynen, P. E. (2015). Application of the Karst Disturbance Index as a raster-based model in a developing country. *Applied Geography*, Vol. 63, 396-407. DOI : 10.1016/j.apgeog.2015.07.007
- Kruckeberg, A., & Rabinowitz, D. (1985). Biological aspects of endemism in higher plants. *Annual Review of Ecology and Systematics*, 16, 447-479.
- KSDAE. (2018, July 17). *Menyingkap Potensi Wisata Gua di Kawasan Karst Taman Nasional Matalawa - Ditjen Konservasi Sumber Daya Alam dan Ekosistem*. ksdae. Retrieved June 25, 2022, from <http://ksdae.menlhk.go.id/info/4020/menyingkap-potensi-wisata-gua-di-kawasan-karst-taman-nasional-matalawa.html>
- Kumar, P., Gale, S., Schuiteman, A., Bouamanivong, S., & Fischer, G. (2016). Identifying orchid hotspots for biodiversity conservation in Laos: the limestone karst vegetation of Vang Vieng District, Vientiane Province. *J Threatened Taxa*, 8(12), 9397-9417. DOI: 10.11609/jott.2826.8.12.9397-9417
- Labbe, D., 2019. Examining the governance of emerging urban regions in Vietnam: the case of the Red River Delta. *Int. Plann. Stud.* 24 (1), 40e52. DOI : 10.1080/13563475.2018.1517593.
- Laksono, A., Saputri, A. A., Bunga Pratiwi, C. I., Arkan, M. Z., & Putri, R. F. (2020). Vegetation covers change and its impact on Barchan Dune morphology in Parangtritis Coast, Indonesia. *E3S Web of Conferences*. DOI : 10.1051/e3sconf/202020002026
- Laksono, G. E. (2019). Kajian Kerusakan Lingkungan di Kawasan Karst Karangbolong Kabupaten Kebumen. *Tesis*.
- Larsson, M.-L. (1999). Legal Definitions of the Environment and of Environmental Damage. In *Legal Issues of the Late 1990s*. Stockholm Institute for Scandianvian Law.
- Latinne, A., Waengsothorn, S., Rojanadilok, P., Eiamampai, K., Sribuarod, K., & Michaux, J. (2013). Diversity and endemism of Murinae rodents in Thai limestone karsts. *Syst Biodivers*, 11(3), 323-344.
- Latupapua, Y. T., Pudyatmoko, S., Fandeli, C., & Baiquni, M. (2013, December 4). Analisis Potensi Keanekaragaman Hayati Di Taman Nasional Manusela Sebagai Daya Tarik Ekowisata. *Jurnal Agroforestry*, 8(4).
- Liew, L., Price, L., & Clements, G. R. (2016). Using Google Earth to Improve the Management of Threatened Limestone Karst Ecosystems in Peninsular Malaysia. *Tropical Conservation Science*.
- Lillo, E., Malaki, A., Alcazar, S., Rosales, R., Redoblado, B., Pantinople, E., & Buot, I. (2020, Januari). Diversity and distribution of ferns in forest over limestone in Cebu Island key biodiversity areas (KBAs), Philippines. *Biodiversitas*, 21(1), 413-421. DOI : 10.13057/biodiv/d210148
- Lorenz, K., Lal, R., & Ehlers, K. (2019). Soil organic carbon stock as an indicator for monitoring land and soil degradation in relation to United Nations'

- Sustainable Development Goals. *Land Degrad Dev*, 30, 824–838. DOI : 10.1002/ldr.3270
- Lumongsod, R. M. G., Ramos, N. T., & Ramos, R. V. (2020). GIS-Based Spatial Analysis Of Sinkholes In Cebu City, Philippines: Insights On Sinkhole Genesis And Development. *NCKRI SYMPOSIUM*.
- Malaki, A., Cruz, R., Bantayan, N., Racelis, D., Buot, I., & Florece, L. (2018). Factors affecting the spatial distribution of Black Shama *Copsychus cebuensis* Steere, 1890 in Argao Watershed Reserve. *Philippine J Sci*, 47(1), 175-189.
- Maus, V., Giljum, S., Gutschlhofer, J., da Silva, D. M., Probst, M., Gass, S. L. B., Luckeneder, S., Lieber, M., & McCallum, I. (2020). A global-scale data set of mining areas. *Scientificdata*, 7(289). DOI : 10.1038/s41597-020-00624-w
- McDonald, A. (2016, Juli 14). *New plant survey finds unique flora in karst hills of southeast Cambodia*. IUCN. Retrieved November 16, 2021, from [www.iucn.org](http://www.iucn.org)
- Miasco, M. B., & Capistrano, R. D. (2018, September 21). *Massive landslide in Naga: 18 dead, 57 missing* | *The Freeman*. Philippine Star. Retrieved 2022, from <https://www.philstar.com/the-freeman/cebu-news/2018/09/21/1853354/massive-landslide-naga-18-dead-57-missing>
- Millennium Ecosystem Assessment. (2005). *Ecosystems and Human Wellbeing: Biodiversity Synthesis*. World Resources Institute.
- Mining-Technology. (2020, June 24). *Grasberg Open Pit Copper Mine, Tembagapura, Irian Jaya, Indonesia*. Mining Technology. Retrieved 2022, from <https://www.mining-technology.com/projects/grasbergopenpit/>
- Nguyen, T., Mitloehner, R., Bich, N., & Do, T. (2015). Environmental factors affecting the abundance and presence of tree species in a tropical lowland limestone and non-limestone forest in Ben En National Park, Vietnam. *J For Environ Sci*, 31, 177-191. DOI : 10.7747/JFES.2015.31.3.177
- Nibbering, J. W. (1991). *Hoeing in The Hills: Stress and Resilience in an Upland Farming System in Java*. Unpublished PhD Thesis.
- Norhazrina, N., Syazwana, N., Aisyah, M., Aznani, H., Maideen, H., & Nizam, M. (2019). Mosses of Gunung Senyum Recreational Forest, a tropical limestone forest in Pahang, Peninsular Malaysia. *PhytoKeys*, 57-72. DOI : 10.3897/phytokeys.128.33860
- North, L.A. (2007). *Application and refinement of the karst disturbance index in west central, Florida*. Tampa: University of South Florida.
- North, L. A., van Beynen, P. E., & Parise, M. (2009, Januari 9). Interregional comparison of karst disturbance: West-central Florida and southeast Italy. *Journal of Environmental Management*, 90, 1770–1781. DOI : 10.1016/j.jenvman.2008.11.018
- Nurinsiyah, A. (2015). Land Snail Fauna of the Sukolilo Karst in Java (Indonesia). *Am Conchol*, 43, 30-32.
- Nurrani, L., & Tabbu, S. (2013, March 1). Communities Perception and Reliances on Natural Resources of Aketajawe Lolobata National Park in North



- Maluku Province. *Jurnal Penelitian Sosial dan Ekonomi Kehutanan*, 10(1).
- O'Donnell, S., Huong, N. T. M., Stimpson, C., Holmes, R., Kahlert, T., Hill, E., Thuy, V., & Rabett, R. (2020, August 15). Holocene development and human use of mangroves and limestone forest at an ancient hong lagoon in the Trảng An karst, Ninh Binh, Vietnam. *Quaternary Science Reviews*, 242. DOI : 10.1016/j.quascirev.2020.106416
- Onac, B. P., & van Beynen, P. (2020). *Caves and Karst*. Elsevier.
- Ostrowski, S., Ngo, H. T., Pham, C. T., Phum, T. M., Nguyen, T. Q., Ziegler, T., & Le, M. D. (2021, January 13). A new Cyrtodactylus (Squamata: Gekkonidae) from Binh Thuan Province, southern Vietnam. *European Journal of Taxonomy*, 731(1), 47-70.
- Pangkep.kab. (2022). *Pertambangan*. kab.pangkep. Retrieved 2022, from <https://pangkep.kab.go.id/pertambangan>
- Pelser, P., Nickrent, D., Reintar, A., & Barcelona, J. (2016). *Lepeostegeres cebuensis* (Loranthaceae), a new mistletoe species from Cebu, Philippines. *Phytotaxa*. DOI : 10.11646/phytotaxa.266.1.8
- Peng, C., Lin, C., Yang, H., Kono, Y., & Nguyen, H. (2015). Six new species of Begonia (Begoniaceae) from limestone areas in Northern Vietnam. *Bot Stud*, 56. DOI : 10.1186/s40529-015-0089-3
- Peng, C., Rubite, R., Lin, C., Hughes, M., Kono, Y., & Chung, K. (2017). Three new species of Begonia sect. Baryandra from Panay Island, Philippines. *Bot Stud*, 58, 28. DOI : 10.1186/s40529-017-0182-x
- Perez, G. J. P., & Comiso, J. C. (2014, December). Seasonal and Interannual Variabilities of Philippine Vegetation as Seen from Space. *Philippine Journal of Science*, 143(2), 147-155.
- Phutthai, T., & Hughes, M. (2017). A new species of Begonia section Parvibegonia (Begoniaceae) from Thailand and Myanmar. *Biodivers Evol Biogeogr Plants*, 62, 26-28. DOI : 10.3767/000651917X695083
- Pickett, S. T. A., & White, P. S. (1985). *The Ecology of Natural Disturbance and Patch Dynamics*. Elsevier. DOI : 10.1016/C2009-0-02952-3
- Pomoim, N., Trisurat, Y., Hughes, A. C., & Corlett, R. T. (2022, April 28). Can Thailand Protect 30% of Its Land Area for Biodiversity, and Will This Be Enough? *Diversity*, 14(344). DOI : 10.3390/d14050344
- Porter, B. L., North, L. A., & polk, J. S. (2016, September 30). Comparing and refining karst disturbance index methods through application in an island karst setting. *Environmental Management*. DOI : 10.1007/s00267-016-0738-7
- Pradita, I. I. (2018, June 21). *Freeport Punya Ribuan Ton Cadangan Emas di Papua sampai 2060*. Liputan6.com. Retrieved 2022, from <https://www.liputan6.com/bisnis/read/3565142/freeport-punya-ribuan-ton-cadangan-emas-di-papua-sampai-2060>
- Rafidah, A., Ummul-Nazrah, A., & Hairul, M. (2018). *Exacum tenue* (Gentianaceae), a new record from karst limestone in Peninsular Malaysia. *Gard Bull Singap*, 70, 103-108. DOI : 10.26492/gbs70 (1).2018-10

- Rahman, R., & Kiew, R. (2018). Strategy to conserve maximum biodiversity of limestone flora in Peninsular Malaysia. *J Bot Gard Hortic*, 16, 57-66.
- Ranlund, A. (2011). Structure and tree diversity of lowland limestone forest on Seram Island, Indonesia. *Colupsia*. DOI : 10.1517/14740338.2012.644272
- Restificar, S. D. F., Day, M. J., & Urich, P. B. (2006). Protection Of Karst In The Philippines. *Acta Carsologica*, 35(1), 121–130.
- Ribeiro, D., & Zorn, M. (2021, February 4). Sustainability and Slovenian Karst Landscapes: Evaluation of a Low Karst Plain. *Sustainability*. DOI : 10.3390/su13041655
- Santillán, V., Quitián, M., Tinoco, B. A., Zárate, E., Schleuning, M., Böhning-Gaese, K., & Neuschulz, E. L. (2020). Direct and indirect effects of elevation, climate and vegetation structure on bird communities on a tropical mountain. *Acta Oecologica*, 102. DOI : 10.1016/j.actao.2019.103500
- Satyanti, A., & Kusuma, Y. (2010). Ecological study in two quarried limestone karst hills in Bogor West Java: Vegetation structure and floristic composition. *Biotropia*, 17, 115 - 129. DOI : 10.11598/btb.2010.17.2.81
- Schilthuizen, M., Liew, T., Elahan, B., & Lackman-Ancrenaz, I. (2005). Effects of karst forest degradation on pulmonate and prosobranch land snail communities in Sabah, Malaysian Borneo. *Conserv Biol*, 19(3), 949- 954. DOI : 10.1111/j.1523-1739.2005.00209.x
- Sodhi, N., Koh, L., Brook, B., & Ng, P. (2004). Southeast Asian biodiversity: An impending disaster. *Trends Ecol Evol*, 19(12), 654- 660. DOI : 10.1016/j.tree.2004.09.006
- Sourn, T., Pok, S., Chou, P., Nut, N., Theng, D., & Prasad, P. V. V. (2022, March 29). Assessment of Land Use and Land Cover Changes on Soil Erosion Using Remote Sensing, GIS and RUSLE Model: A Case Study of Battambang Province, Cambodia. *Sustainability*, 14(4066). DOI : 10.3390/su14074066
- Stibig, H.-J., Belward, A.S., Roy, P.S., Rosalina-Wasrin, U., Agrawal, S., Joshi, P.K., Hildanus, Beuchle, R., Fritz, S., Mubareka, S., & Giri, C. ((2007). A land-cover map for South and Southeast Asia derived from SPOT VEGETATION data. *Journal of Biogeography*, 34, 625–637. DOI : 10.1111/j.1365-2699.2006.01637.x
- Su, M.-D., Kang, J.-L., Chang, L.-F., & Chen, A. S. (2005). A Grid-Based GIS Approach to Regional Flood Damage Assessment. *Journal of Marine Science and Technology*, 13(3), 184-192. DOI: 10.51400/2709-6998.2125
- Sudaryanto, & Rini, M.S. (2014). Penentuan Ruang Terbuka Hijau (RTH) dengan Index Vegetasi NDVI berbasis Citra ALOS AVNIR-2 dan Sistem Informasi Geografi di Kota Yogyakarta dan Sekitarnya. *Magistra No.89 Th. XXVI*.
- Sugiyanto, B. (2015, April 1). The Potency Of Prehistoric Archaeology In Tanah Bumbu And Its Threatenings. *Naditira Widya*, 9(1), 1-4.
- Suhendar, A. S., Yani, E., & Widodo, P. (2018). Analisis Vegetasi Kawasan Karst Gombong Selatan Kebumen Jawa Tengah. *Scripta Biologica*. DOI : 10.20884/1.SB.2018.5.1.639

- Suhendar, A. S., Yani, E., & Widodo, P. (2018, Maret). Analisis Vegetasi Kawasan Karst Gombong Selatan Kebumen Jawa Tengah. *Scripta Biologica*, 5, 37-40. DOI : 10.20884/1.SB.2018.5.1.639
- Sulistinah, & Kuspriyanto. (2020). *Geografi Regional Dunia*. Unesa University Press.
- Sun, J., Wen, Z., Feijó, A., Cheng, J., Wang, Y., Li, S., Ge, D., Xia, L., & Yang, Q. (2020). Elevation patterns and critical environmental drivers of the taxonomic, functional, and phylogenetic diversity of small mammals in a karst mountain area. *Ecology and Evolution*, 10(19), 10899–10911. DOI : 10.1002/ece3.6750
- Sunkar, A. (2008, December 3). Proses Deforestasi dan Rocky Desertification di Lanskap Karst Gunung Sewu. *Media Konservasi*, 13(3), 1-7.
- Suryono, T. (2006). Pengelolaan Sumber Air Bawah Tanah Sungai Bribin. *Indonesian Cave and Karst Journal*, 2(1), 37-52.
- Suyanto, A., & Struebig, M. (2007). Bats of the Sangkulirang limestone karst formations, East Kalimantan—a priority region for Bornean bat conservation. *Acta Chiropterol*, 9(1), 67-95. DOI : 10.3161/1733-5329(2007)9[67:BOTSLK]2.0.CO;2
- Tan, J., Kiew, R., Saw, L., & Ummul-Nazrah, A. (2014). Three New Species from Gunung Kanthan, a Limestone Tower Karst in Perak, Malaysia. *Phytotaxa*, 146-154. DOI : 10.11646/phytotaxa.177.3.2
- Teh, G.H., Smon, M., & Saarani, M. S. (2001). Characterisation, geochemistry and possible usage of the limestone hills in the Kinta Valley area, Perak. *Geological Society of Malaysia Annual Geological Conference*.
- Thungyai-Huai Kha Khaeng Wildlife Sanctuaries. (n.d.). UNESCO World Heritage Centre. Retrieved 2022, from <https://whc.unesco.org/en/list/591>
- Tikupadang, S. M. (2015, March 6). *Pertambangan Semen Bosowa*. ANTARA Foto. Retrieved 2022, from <https://www.antarafoto.com/mudik/v1425634519/pertambangan-semen-bosowa>
- Tlhapiso, M., & Stephens, M. (2020, Mei 6). Application of the Karst Disturbance Index (KDI) to Kobokwe Cave and Gorge, SE Botswana: Implications for the Management of a Nationally Important Geoheritage Site. *Geoheritage*. DOI : 10.1007/s12371-020-00461-8
- Tolentino, P. J. S., Navidad, J. R. L., Angeles, M. D., Fernandez, D. A. P., Villanueva, E. L. C., Obeña, R. D. R., & Buot Jr, I. E. (2020). Review: Biodiversity of forests over limestone in Southeast Asia with emphasis on the Philippines. *Biodiversitas*, 21, 1597-1613. DOI: 10.13057/biodiv/d210441
- Tuan, L. C. (2020, March 9). Characteristics of Karst Polje in Vietnam and Associated Geohazards. *International Journal of Science and Research*, 9(3), 1391-1398. DOI : 10.21275/SR20323154210
- Tuan, L. C., & Thuy, M. (2021). Karst poljes in Viet Nam – The Relationship between Terrain and Geological Structure. *International Journal on Emerging Technologies*, 12(2), 37-44.

- Tuyet, D. (2001). Characteristics of Karst Ecosystems in Vietnam and Their Vulnerability to Human Impact. *Acta Geologica Sinica*, 75, 325–329. DOI : 10.1111/j.1755-6724.2001.tb00539.x
- UIS (*Union Internationale de Spéléologie*). 2022. Guidelines for Cave and Karst Protection.
- Ummul-Nazrah, A., Hairul, M. M., Kamin, I., Kiew, R., & PT, O. (n.d.). *Vatica najibiana* (Dipterocarpaceae), a new species from limestone in Peninsular Malaysia. *PhytoKeys*, 98, 99-106. DOI : 10.3897/phytokeys.98.23903
- van Beynen, P., & Townsend, K. (2005, Juni 9). A Disturbance Index for Karst Environments. *Environmental Management*, Vol. 36, pp. 101–116. DOI: 10.1007/s00267-004-0265-9
- van Beynen, P. E. (2011). *Karst Management*. Springer. DOI 10.1007/978-94-007-1207-2
- van Beynen, P. E., & Bialkowska-Jelinska, E. (2012, Juni 16). Human disturbance of the Waitomo catchment, New Zealand. *Journal of Environmental Management*, 108, 130-140. DOI : 10.1016/j.jenvman.2012.04.038
- Veress, M. (2020, June). Karst Types and Their Karstification. *Journal of Earth Science*, 13(3), 621–634. DOI : 10.1007/s12583-020-1306-x
- Von Oheimb, K. C. M., von Oheimb, P. V., Hirano, T., Do, T. V., Ablett, J., Luong, H. V., Pham, S. V., & Naggs, F. (2019). Cryptic diversity of limestone karst inhabiting land snails (*Cyclophorus* spp.) in northern Vietnam, their evolutionary history and the description of four new species. *PLoS ONE*, 14(10). DOI : 10.1371/journal.pone.0222163
- Wang, K., Zhang, C., Chen, H., Yue, Y., Zhang, W., Zhang, M., Qi, X., & Fu, Z. (2019). Karst landscapes of China: patterns, ecosystem processes and services. In *Landscape Ecology* (Vol. 34, Issue 12, pp. 2743–2763). Springer. DOI : 10.1007/s10980-019-00912-w
- Widyastuti, M. (2007). *Pengaruh penambangan batu gamping terhadap kualitas air tanah di Kecamatan Ponjong*. Unpublished Thesis.
- Widyastuti, M., Cahyadi, A., Adji, T. N., Purnama, S., Firizqi, F., Naufal, M., Ramadhan, F., Riyanto, I. A., & Irshabdillah, M. R. (2019). Kualitas Air Sungai-sungai Alogenik di Kawasan Karst Gunungsewu, Kabupaten Gunungkidul pada Musim Kemarau. *Seminar Nasional Geografi III*.
- WorldBank. (2020). *Forest area (% of land area) - Philippines*.
- World Conservation Monitoring Centre. (2010). [www.unep-wcmc.org/protected\\_areas](http://www.unep-wcmc.org/protected_areas)
- Yigzaw, G. S. 2021. Collaborative Governance: A New Paradigm Shift for the Smart Cities. Zhang, X.M., Yue, Y.M., Tong, X.W., Wang, K.L., Qi, X.K., Deng, C.X., & Brandt, M. (2021). Eco-engineering controls vegetation trends in southwest China karst. *Sci. Total Environ.*
- Yuliasuti, N & Fatchurrochman, A. 2012. Pengaruh Perkembangan Lahan Terbangun Terhadap Kualitas Lingkungan Permukiman (Studi Kasus: Kawasan Pendidikan Kelurahan Tembalang). *Jurnal Presipitasi : Media Komunikasi dan Pengembangan Teknik Lingkungan*. DOI : 10.14710/presipitasi.v9i1.10-16



- Zhang, Z., Zhou, Y., Wang, S., & Huang, X. (2017, Mei 13). Estimation of soil organic carbon storage and its fractions in a small karst watershed. *Acta Geochim*, 37(1), 113-124. DOI : 10.1007/s11631-017-0164-4
- Zhu, X., Zhu, D., Zhang, Y., & Lynch, E. (2013). *Tower Karst and Cone Karst* (Vol. 6). Elsevier. DOI : 10.1016/B978-0-12-374739-6.00141-X