

DAFTAR PUSTAKA

- Adji, T. N. (2004). Agresivitas Airtanah Karst Sungai Bawah Tanah Bribin. *Indonesian Cave Karst Journal*, 1(1), 1–14.
- 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*. Universitas Gadjah Mada.
- Adji, T. N., Cahyadi, A., Ramadhan, G. S., Haryono, E., Purnama, S., Tastian, N. F., Acitya, R., & Putra, R. D. (2023). Analisis Dampak Aktivitas Antropogenik Terhadap Kualitas Air Sungai Bawah Tanah Seropan, Kawasan Karst Gunungsewu, Kabupaten Gunungkidul. *Jurnal Geografi, Edukasi Dan Lingkungan (JGEL)*, 7(1), 1–17. <https://doi.org/10.22236/jgel.v7i1.10006>
- Adji, T. N., Haryono, E., Fatchurohman, H., & Oktama, R. (2016). Diffuse flow characteristics and their relation to hydrochemistry conditions in the Petoyan Spring, Gunungsewu Karst, Java, Indonesia. *Geosciences Journal*, 20(3), 381–390. <https://doi.org/10.1007/s12303-015-0048-8>
- Adji, T. N., Haryono, E., Fatchurohman, H., & Oktama, R. (2017). Spatial and temporal hydrochemistry variations of karst water in Gunung Sewu, Java, Indonesia. *Environmental Earth Sciences*, 76, 1–16.
- Adji, T. N., Haryono, E., Mujib, A., Fatchurohman, H., & Bahtiar, I. Y. (2019). Assessment of aquifer karstification degree in some karst sites on Java Island, Indonesia. *Carbonates and Evaporites*, 34, 53–66.
- Aji, A. P. K. (2020). *Kajian Spasial-Temporal Kondisi Aliran dan Hidrogeokimia untuk Karakterisasi Akuifer Karst Mataair Beton dan Sungai Bawah Tanah (SBT) Gremeng, Kabupaten Gunungkidul*. Universitas Gadjah Mada.
- Andreychouk, V., & Dublyansky, Y. (2017). *Karst in the Earth ' s Crust : its distribution and principal types* (Andrzej T. Jankowski (Ed.)). University of Silesia - Department of Earth's Sciences.
- Appelo, C. A. J., & Postma, D. (2004). *Geochemistry, groundwater and pollution*. CRC press.
- Aubert, D. (1967). Estimation de la dissolution superficielle dans le Jura. *Bulletin de La Societe Vaudoise Des Sciences Naturelles*, 324(69(8)), 365–376.
- Auler, A. (2013). 6.3 Sources of Water Aggressiveness–The Driving Force of Karstification.
- Balazs, D. (1968). Karst Regions in Indonesia: Karszt-Es Barlangkutatas, Volume V. *Budapest, Globus Nyomda*.
- Bemmelen, V. R. W. (1949). *The Geology of Indonesia*. Government Printing Office.
- Boggs Sam, J. (Ed.). (2009). Origin, classification, and occurrence of sedimentary rocks. In *Petrology of Sedimentary Rocks* (2nd ed., pp. 3–18). Cambridge University Press. <https://doi.org/DOI: 10.1017/CBO9780511626487.002>
- Bögli, A. (1980). *Karst hydrology and physical speleology*. Springer Science & Business Media.
- Bonacci, O. (1999). Water circulation in karst and determination of catchment areas: example of the River Zrmanja. *Hydrological Sciences Journal*, 44(3), 373–386.
- Bonacci, O., & Andrić, I. (2015). Karst spring catchment: an example from Dinaric karst. *Environmental Earth Sciences*, 74(7), 6211–6223.

- <https://doi.org/10.1007/s12665-015-4644-8>
- Bonacci, O., Jukić, D., & Ljubenkov, I. (2006). Definition of catchment area in karst: case of the rivers Krčić and Krka, Croatia. *Hydrological Sciences Journal*, 51(4), 682–699.
- Cahyadi, A., Haryono, E., Adji, T. N., Widyastuti, M., Agus, I., Taufiq, D., Muhammad, N., & Tastian, N. F. (2021). *Rainfall Variability in Gunung Sewu Karst Area, Java Island, Indonesia*. 8(1), 23–35. <https://doi.org/10.20886/ijfr.2021.8.1.23-35>
- Cahyadi, A., Haryono, E., Adji, T. N., Widyastuti, M., Riyanto, I. A., Nurteisa, Y. T., Fatchurohman, H., Reinhard, H., Agniy, R. F., & Nurkholis, A. (2019). Groundwater Flooding due to Tropical Cyclone Cempaka in Ngreneng Karst Window, Gunungsewu Karst Area, Indonesia. *E3S Web of Conferences*, 125, 1020.
- Corbel, J. (1959). Erosion en terrain calcaire (vitesse d'érosion et morphologie). *Annales de Géographie*, 68(366), 97–120.
- Covington, M D, Gulley, J. D., & Gabrovšek, F. (2015). Natural variations in calcite dissolution rates in streams: Controls, implications, and open questions. *Geophysical Research Letters*, 42(8), 2836–2843. <https://doi.org/https://doi.org/10.1002/2015GL063044>
- Covington, Matthew D, Prelov, M., & Gabrovsek, F. (2013). Influence of CO2 dynamics on the longitudinal variation of incision rates in soluble bedrock channels: Feedback mechanisms. *Geomorphology*, 186, 85–95. <https://doi.org/10.1016/j.geomorph.2012.12.025>
- Covington, Matthew D, & Vaughn, K. A. (2019). Carbon dioxide and dissolution rate dynamics within a karst underflow-overflow system, Savoy Experimental Watershed, Arkansas, USA. *Chemical Geology*, 527, 118689.
- Currens, J. C. (1997). A sampling plan for conduit-flow karst springs: Minimizing sampling cost and maximizing statistical utility. In *The Engineering Geology and Hydrology of Karst Terrains* (pp. 193–198). CRC Press.
- Davis, W. M. (1909). *Geographical essays*. Boston: Ginn.
- De Waele, J., & Gutiérrez, F. (2022). *Karst hydrogeology, Geomorphology and Caves*. John Wiley & Sons.
- De Waele, J., Gutiérrez, F., Parise, M., & Plan, L. (2011). Geomorphology and natural hazards in karst areas: a review. *Geomorphology*, 134(1–2), 1–8.
- Drake, J. J. (1983). *The Effects Of Geomorphology and Seasonality on The Chemistry of Carbonate Groundwater*. 61, 223–236.
- Dreybrodt, W. (1988). Karst Systems. In *Processes in Karst Systems: Physics, Chemistry, and Geology*. Springer.
- Dunne, T., & Leopold, L. B. (1978). Water in environmental planning. WH Freeman and Company. *San Francisco, California*.
- Farrant, A. R., & Smart, P. L. (2011). Role of sediment in speleogenesis; sedimentation and paragenesis. *Geomorphology*, 134(1–2), 79–93.
- Festa, V., Fiore, A., Parise, M., & Siniscalchi, A. (2012). Sinkhole evolution in the Apulian karst of southern Italy: a case study, with some considerations on sinkhole hazards. *Journal of Cave and Karst Studies*, 74(2), 137–147.
- Field, M. S. (2021). Groundwater sampling in karst terranes: passive sampling in comparison to event-driven sampling strategy. *Hydrogeology Journal*, 29(1), 53–65.



- Fischedick, M., Roy, J., Acquaye, A., Allwood, J., Ceron, J.-P., Geng, Y., Kheshgi, H., Lanza, A., Perczyk, D., & Price, L. (2014). *Industry In: Climate Change 2014: Mitigation of Climate Change. Contribution of Working Group III to the Fifth Assessment Report of the Intergovernmental Panel on Climate Change. Technical Report.*
- Fischer, J. A., & Fischer, J. J. (2016). Concepts for Geotechnical Investigation in Karst. *14th Sinkhole Conference*, 549–558. <https://doi.org/10.5038/9780991000951.1009>
- Ford, D., & Williams, P. (2007). Karst Hydrogeology and Geomorphology. In *Karst Hydrogeology and Geomorphology*. <https://doi.org/10.1002/9781118684986>
- Ford, T. D., & Cullingford, C. H. D. (1976). *The science of speleology*. Academic Press.
- Gabrovšek, F. (2007). On denudation rates in karst. *Acta Carsologica*, 36(1), 7–13. <https://doi.org/10.3986/ac.v36i1.203>
- Gabrovšek, F. (2009). On concepts and methods for the estimation of dissolutional denudation rates in karst areas. *Geomorphology*, 106(1–2), 9–14. <https://doi.org/10.1016/j.geomorph.2008.09.008>
- Gillieson, D. S. (2021). *Caves: processes, development, and management*. John Wiley & Sons.
- Goldscheider, N., & Drew, D. (2007). *Methods in karst hydrogeology: IAH: International Contributions to Hydrogeology*, 26.
- Gunn, J. (2013). Denudation and Erosion Rates in Karst. In *Treatise on Geomorphology* (pp. 72–81). Elsevier.
- Hajna, N. Z., Mihevc, A., & Prelovšek, M. (2010). *Introduction to the Dinaric Karst: Majdi Stanovnik ob 75. rojstnem dnevu*. Založba ZRC.
- Hartmann, A., Goldscheider, N., Wagener, T., Lange, J., & Weiler, M. (2014). Karst water resources in a changing world: Review of hydrological modeling approaches. *Reviews of Geophysics*, 52(3), 218–242.
- Haryono, E. (2000). Some Properties Of Epikarst Drainage System in Gunungkidul Regency, Yogyakarta, Indonesia. *The Indonesian Journal of Geography*, 32, 75–86.
- Haryono, E., & Adji, T. N. (2004). *Geomorfologi dan hidrologi karst*.
- Hasegawa, W., Watanabe, Y., Matsuoka, H., Ohsawa, S., Brahmantyo, B., Maryunani, K. A., & Tagami, T. (2018). Environmental Parameters Controlling Stalagmite Growth In Tropical Areas: New Insights From Cave Monitoring at Petruk Cave, Central Java, Indonesia. *Journal of Cave & Karst Studies*, 80(1).
- Hu, Y., Qi, S., Zhang, J., Tan, L., Zhang, J., Wang, Y., & Yuan, D. (2011). Assessment of organochlorine pesticides contamination in underground rivers in Chongqing, Southwest China. *Journal of Geochemical Exploration*, 111(1–2), 47–55.
- Husein, S., & Srijono. (2007). Tinjauan Geomorfologi Pegunungan Selatan DIY/Jawa Tengah: Telaah Peran Faktor Endogenik dan Eksogenik dalam Proses Pembentukan Pegunungan. *Prosiding Workshop: Potensi Geologi Pegunungan Selatan Dalam Pengembangan Wilayah, Hotel Inna Garuda, Yogyakarta*, 27–29.
- Jennings, J. N. (1972). The Blue Waterholes, Cooleman Plain, N. S. W., And The

- Problem Of Karst Denudation Rate Determination. *Transactions of the Cave Research Group of Great Britain*, 14, 109.
- Jones, W. K. (2004). Introduction to epikarst. *Epikarst. Karst Waters Inst Sp Pub*, 9, 3–10.
- Jones, W. K., Culver, D. C., & Herman, J. S. (2004). Introduction. In W. K. Jones, D. C. Culver, & J. S. Herman (Eds.), *Epikarst* (pp. 1–3). Karst Waters Intitute.
- Klimchouk, A. (2015). The karst paradigm: Changes, trends and perspectives. *Acta Carsologica*, 44(3), 289–313. <https://doi.org/10.3986/ac.v44i3.2996>
- Klimchouk, A. B. (2000). The formation of epikarst and its role in vadose speleogenesis. *Speleogenesis: Evolution of Karst Aquifer*.
- Kranjc, A. (2011). The Origin and evolution of the term “Karst.” *Procedia-Social and Behavioral Sciences*, 19, 567–570.
- Kusumayudha, S. B. (2005). *Hidrogeologi karst dan geometri fraktal di daerah Gunungsewu*. Adicita.
- Lauritzen, S. E. (1990). Autogenic and Allogenic Denudation in Carbonate Karst by Multiple Basin Method: an Example from Svartisen, North Norway. *Earth Surface Processes and Landforms*, 15, 157–167.
- Lehmann, H. (1936). Morphologische studien auf Java. *Geographische Abhandlungen, Series 3*(9), 1–114.
- Naufal, M., Adji, T. N., Haryono, E., & Cahyadi, A. (2024). Assessing karst landscape degradation based on the void development of karst aquifers in Gunungsewu, Indonesia. 11(3), 5707–5715. <https://doi.org/10.15243/jdmlm.2024.113.5707>
- Palmer, A. N. (2005). Passage Growth and Development. In *Encyclopedia of Caves* (pp. 440–444). Academic Press.
- Palmer, A. N. (2007). *Cave geology*. Cave books.
- Pannekoek, A. J. (1949). *Outline of the Geomorphology of Java*.
- Perrin, J. (2000). *Le bassin d'alimentation de la source karstique du Brassus (Jura suisse): Synthèse des essais de traçage*. 93, 93–101.
- Pitty, A. F. (1968). The scale and significance of solutional loss from the limestone tract of the southern Pennines. *Proceedings of the Geologists' Association*, 79(2), 153–156.
- Plan, L. (2005). Factors controlling carbonate dissolution rates quantified in a field test in the Austrian alps. *Geomorphology*, 68(3–4), 201–212. <https://doi.org/10.1016/j.geomorph.2004.11.014>
- Pratama, A. D., Adji, T. N., & Dwiputra, D. S. (2020). Hydrochemistry temporal variation of Anjani Underground River, Jonggrangan Karst, Java Island, Indonesia. *IOP Conference Series: Earth and Environmental Science*, 451(1). <https://doi.org/10.1088/1755-1315/451/1/012059>
- Pulina, M. (1974). *Denudacja chemiczna na obszarach krasu węglanowego* [Zakład Narodowy im. Ossolińskich]. https://rcin.org.pl/Content/13834/Wa51_21769_r1974_nr105_Prace-Geogr.pdf
- Putro, S. T. (2013). *Analysis Of Organic Carbon Flux in The Gilap Cave, Ponjong Sub-District, Gunungkidul District, Yogyakarta, Indonesia*. Universitas Gadjah Mada.
- Rahardjo, W., & Sukandarrumidi, R. (1995). Peta Geologi Lembar Yogyakarta, Skala 1:100.000. Jawa, Pusat Penelitian Dan Pengembangan Geologi,

Bandung.

- Rajamuddin, U. A. (2006). *Karakteristik kimiawi dan mineralogi tanah pada beberapa ekosistem bentang lahan karst di Kabupaten Gunung Kidul*. Universitas Gadjah Mada.
- Ramadhan, F. (2019). *Hubungan karakteristik aliran dengan hidrogeokimia mataair guntur di Kawasan Karst Gunungsewu*. Universitas Gadjah Mada.
- Ray, J. A., & Idstein, P. J. (2004). Unpredictable surface exposure of epikarst springs in Kentucky, USA: in. *Epikarst*, Jones, WK, DC Culver, and JS Herman (Eds.), *Karst Waters Institute Special Publication*, 9, 140–141.
- Setiyabudi, E., Prasthisto, B., Kurniawan, I., & Jatmiko, T. (2018). The early Holocene Vertebrate Faunas from Seropan Cave, Gunung Sewu, Yogyakarta, Indonesia. *Indonesian Journal on Geoscience*, 5(1), 33–45. <https://doi.org/10.17014/ijog.5.1.33-45>
- Smart, P. L., & Hobbs, S. L. (1986). Characterisation of carbonate aquifers: a conceptual base. *Proceedings of the Environmental Problems in Karst Terranes and Their Solutions Conference. National Water Well Association, Dublin OH. 1986. p 1-14, 7 Fig, 25 Ref, 1986.*
- Smith, D I. (1972). The solution of limestone in an Arctic environment. *IN: POLAR GEOMORPHOLOGY*.
- Smith, D I. (1993). The nature of karst aquifers and their susceptibility to pollution. *Catena. Supplement (Giessen)*, 25, 41–58.
- Smith, David I, & Atkinson, T. C. (1976). Process, Land-forms and Climate in Limestone Regions. In *Geomorphology and climate* (p. 512). Wiley.
- Stokes, T., Griffiths, P., & Ramsey, C. (2010). Karst geomorphology, hydrology, and management. *Compend. For. Hydrol. Geomorphol. Br. Columbia, L. Manag. Handb*, 66, 373–400.
- Surono. (2009). Litostratigrafi Pegunungan Selatan Bagian Timur Daerah Istimewa Yogyakarta dan Jawa Tengah. *Jurnal Geologi Dan Sumberdaya Mineral*, 19(3), 209–221.
- Surono, T., & Sudarno, I. (1992). Peta Geologi Lembar Surakarta-Giritontro, Jawa, Skala 1: 100.000. *Pusat Penelitian Dan Pengembangan Geologi*.
- Sweeting, M. M. (1966). The weathering of limestones: with particular reference to the Carboniferous limestones of northern England. *Essays in Geomorphology*, 177–210.
- Sweeting, M. M. (1973). *Karst Landforms*. Columbia University Press. <https://books.google.co.id/books?id=VbYPAQAIAAJ>
- Turc, L. (1954). Le bilan d'eau des sols: Relation entre la precipitations, l'évaporation et l'écoulement. *Annales Agronomiques, Série A*, 5, 491.
- Urushibara-Yoshino, K. (1995). *Environmental change in the Karst areas on the Island of Java*. Komazawa University.
- Verstappen, H. T. (1969). The state of karst research in Indonesia. *Problems of the Karst Research, Brno, Ceskoslovenska Akademia Sciencias*, 139–148.
- Waltham, A. C., PL, S., Friederich, H., AJ, E., & TC, A. (1983). *The caves of Gunung Sewu, Java*.
- Waltham, T. (2008). Sinkhole hazard case histories in karst terrains. *Quarterly Journal of Engineering Geology and Hydrogeology*, 41(3), 291–300.
- Waltham, T., Bell, F. G., Culshaw, M. G., Knez, M., & Slabe, T. (2005). *Sinkholes and subsidence: karst and cavernous rocks in engineering and construction*



- (Vol. 382). Springer.
- Werndl, C. (2016). On Defining Climate and Climate Change. *The British Journal for the Philosophy of Science*, 67(2), 337–364. <https://doi.org/10.1093/bjps/axu048>
- White, W. B., Culver, D. C., Herman, J. S., Kane, T. C., & Mylroie, J. E. (1995). Karst Lands. *American Scientist*, 83(5), 450–459. <http://www.jstor.org/stable/29775522>
- Wijaya, R. A. E., & Isnawan, D. (2015). Analisis kekuatan massa batugamping dengan menggunakan kaidah Hoek-Brown failure criterion-roclabdi daerah Gunung Sudo Kabupaten Gunung Kidul Yogyakarta. *Jurnal Promine*, 3(1), 21–35.
- Williams, P. (2004). Karst evolution. In *Encyclopedia of Caves and Karst Science* (pp. 475–478).
- Williams, P W. (1963). An initial estimate of the speed of limestone solution in County Clare. *Irish Geography*, 4(6), 432–441.
- Williams, Paul W, & Dowling, R. K. (1979). Solution of marble in the karst of the Pikikiruna Range, northwest Nelson, New Zealand. *Earth Surface Processes*, 4(1), 15–36.
- Wiyono, Siradz, S. A., & Hanudin, E. (2006). Aplikasi Soil Taxonomy pada Tanah-tanah yang Berkembang dari Bentuk Karst Gunung Kidul. *Jurnal Ilmu Tanah Dan Lingkungan*, 6(1). <https://api.semanticscholar.org/CorpusID:127381192>
- Yang, R., Liu, Z., Zeng, C., & Zhao, M. (2012). Response of epikarst hydrochemical changes to soil CO₂ and weather conditions. *Journal of Hydrology*, 468–469, 151–158. <https://doi.org/10.1016/j.jhydrol.2012.08.029>
- Yudha, M. P., & Haryono, E. (2017). Kajian Variabilitas CaCO₃ Terlarut Untuk Mengetahui Tingkat Pelarutan dan Penyerapan Karbon Atmosfer Dalam Proses Karstifikasi Kawasan Karst Rembang. *Jurnal Bumi Indonesia*, 6(4).