

DAFTAR PUSTAKA

- Adji, T. N., dan Haryono, E. 2004. *Pengantar Geomorfologi dan Hidrologi Karst*. Yogyakarta: Kelompok Studi Karst Fakultas Geografi UGM.
- Adji, T. N. 2006. *Peranan Geomorfologi dalam Kajian Kerentanan Air Tanah Karst*. Yogyakarta : Kelompok Studi Karst Fakultas Geografi UGM.
- Adji, T. N. 2009. Kondisi Daerah Tangkapan Sungai Bawah Tanah Gunung Sewu dan Kemungkinan Dampak Lingkungannya Terhadap Sumberdaya Air (Hidrologis) Karena Aktivitas Manusia. *Confrence Paper*. <https://www.researchgate.net/publication/283494785>.
- 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, *Disertasi*. Yogyakarta: Program Pasca Sarjana UGM.
- Adji, T. N. 2014. Analisis Hidrograf Aliran untuk Penentuan Derajat Karstifikasi Pada Beberapa Kondisi Mata Air dan Sungai Bawah Tanah Karst. *Laporan Akhir Hibah Penelitian Dosen*. Yogyakarta.
- Adji, T. N., Bahtiar, I.Y., 2016. Rainfall–Discharge Relationship and Karst Flow Components Analysis For Karst Aquifer Characterization in Petoyan Spring, Java, Indonesia, *Environmental Earth Sciences Journal*, 75-735.
- 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>
- Amani, F., dan Prawiroredjo, K. 2016. Alat Ukur Kualitas Air Minum dengan Parameter pH, Suhu, Tingkat Kekeruhan, Dan Jumlah Padatan Terlarut. *JETri*. 14(1), 49-62.
- Asdak, C. 2010. *Hidrologi dan Pengelolaan Daerah Aliran Air Sungai*. Edisi Revisi Kelima. Yogyakarta: Gadjah Mada University Press Yogyakarta.
- Bakalowicz, M. 2005. Karst Groundwater: A New Challenge for New Resources. *Hydrology Journal* 13 : 148-160.
- Bemmelen, V. R. W. 1949. *The Geology of Indonesia*. Martinus Nyhoff, Netherland: The Haque.

- Blair. (2004). *Karst Landform and Lakes, Geomorphology from Space*. USA: NASA.
- Bonacci, O., 1990. Regionalization in Karst Regions. *Proceedings of the Ljubljana Symposium*, 191.
- Bronto, S. dan Hartono, H. G. 2001. *Panduan Ekskursi Geologi Kuliah Lapangan 2*. STTNAS: Yogyakarta.
- Cahyadi, A., Ayuningtyas, E. A., dan Prabawa, A. 2013. Urgensi Pengelolaan Sanitasi dalam Upaya Konservasi Sumberdaya Air di Kawasan Karst Gunungsewu Kabupaten Gunung Kidul. *International Journal of Conservation*, Vol 2, 23-32.
- Casali, J., Gimenez, R., Diez, J., Alvarez-Mozos, J., de Lersundi, D. V., Goni, M., Campo, M. A., Chahor, Y., Gastesi, R., & Lopez, J. 2010. Sediment Production & Water Quality of Watersheds with Contrasting Land Use in Navarre (Spain). *Agricultural Water Management*. 97. 1683-1694.
- Chin, W. W. (1998). The Partial Least Squares Aproach to Structural Equation Modeling. *Modern Methods for Business Research*, 295-336.
- Daljoeni, N. 2014. *Pokok-Pokok Klimatologi*. Yogyakarta : Ombak.
- Delinom, R. M., 2011. The Proposed Groundwater Management for Greater Jakarta Area, Indonesia. *Groundwater and Subsurface Environments*. Tokyo, Dordrecht, Heidelberg, London, New York. *Springer*. p. 113-125.
- Drew, D. & Hötzl, H. 1999. Karst Hydrogeology and Human Activities. Impacts, Consequences and Implications. *International Contributions to Hydrogeology*, 20, 322.
- Eckhardt, K. 2005. How to Construct Recursive Digital Filters for Baseflow Separation. *Hydrol Process* 19:507–515.
- Effendi, Hefni. 2003. *Telaah Kualitas Air: Bagi Pengelolaan Sumber Daya Alam dan Lingkungan Perairan*. Yogyakarta: Penerbit Kanisius.
- Eiche, E., Hochschild, M., Haryono, E. dkk. 2016. Characterization of Recharge and Flow Behaviour of Different Water Sources in Gunung Kidul and Its Impact on Water Quality Based on Hydrochemical and Physico-Chemical Monitoring. *Appl Water Sci*, 6, 293–307 Doi: <https://doi.org/10.1007/s13201-016-0426-z>.

- Elisabeth, S. A., and Haryono E. 2020. Seasonal Variability Of Nitrat Flux in The Nothern part of Karangbolong Karst Aquifer, Central Java. *E3S Web of Conferences* 200, 06009.
- Endarto, R., Gunawan T., dan Haryono E. 2015. Kajian Kerusakan Lingkungan Karst Sebagai Dasar Pelestarian Sumberdaya Air (Kasus di DAS Bribin Hulu Kabupaten Gunung Kidul Daerah Istimewa Yogyakarta). *Majalah Geografi Indonesia*. Vol 29, 51-59.
- Fidelibus, M. D. 2011. Pollution Transport Mechanisms in A Regional Karst Aquifer Under Extreme Precipitation Events (Murgia, Southern Italy). *Proceedings of the 9th Conference on Limestone Hydrogeology*.
- Ford, D., and Williams, P. 2007. *Karst Hydrogeology and Geomorphology*. Chichester, West Sussex: John Wiley & Sons, Ltd.
- Gazali, I., Widiatmo, R. B., & Wirosoedarmo, R. 2013. Evaluasi Dampak Pembuangan Limbah Cair Pabrik Kertas Terhadap Kualitas Air Sungai Klintar Kabupaten Nganjuk. *Jurnal Keteknikaan Pertanian Tropis dan Biosistem*. 1(2): 1-8.
- Galloway, J. N. and Cowling, E. B. 2002. Reactive Nitrogen and The World: 200 Years of Change, *Ambio*, 31, 64-71.
- Gillieson, D. (1996). Processes of Cave Development, dalam: *Caves, Processes, Development and Management*. Oxford: Blackwell Publishers.
- Goldscheider, N. dan Drew, D. (2007). *Method in Karst Hydrogeology*. London: Taylor & Francis Group.
- Gregor, M. 2010. *BFI+ 3.0 User's Manual*. Slovakia: Hydrooffice.
- Guo, Y., Wang, F., Qin, D., Zhao, Z., Gan, F., Yan, B., Bai, J, and Muhammed, H. 2021. Hydrodynamic Characteristics of A Typical Karst Spring System Based on Time Series Analysis in Northern China. *China Geology* 3. 433-445.
- Gunawan, J. 2015. *Blue Gold Emas Biru Sumber Nyawa Kehidupan*. Jakarta: PT Berita Nusantara.
- Hair, Jr., Joseph F. 2011. *Multivariate Data Analysis*. Fifth Edition. New Jersey: PrenticeHall, Inc.

- Hartmann, A., Goldscheider, N., Wagener, T., and Wiler, M. 2014. Karst Water Resources in A Changing World: Review of Hydrological Modeling Approaches. *Reviews of Geophysics*, published online.
- Haryono, E., dan Purwanto, A. 2007. Analisis Hidrokemograf Air Tanah Karst Sistem Sungai Bawah Tanah Bribin Kabupaten Gunungkidul. *Article Yogyakarta*.
- Haryono, E., Day, M. 2004. Landform Differentiation within The Gunungkidul Kegelkarst, Java, Indonesia. *Journal of Cave and Karst Studies*. 66 (2). 62-69.
- Hermawan, Y. I., dan Wardhani, E. 2021. Status Mutu Air Sungai Cibeureum, Kota Cimahi Water Quality Status of The Cibeureum River, Cimahi City. *Jurnal Sumberdaya Alam dan Lingkungan*, 8(1), 28-41.
- Huebsch, M., Fenton, O., Horan, B., Richards, K. G., Jordan, P., Goldscheider, N., Butscher, C., and Blum, P. 2014. Mobilisation or dilution? Nitrate Response of Karst Springs to High Rainfall Events. *Hydrology and Earth System Science*. 18, 4423-4435.
- Hugget, R. J. 2007. *Fundamentals of Geomorphology*. Taylor & Francis eLibrary, New York.
- Jiang, C., Luo, M., Ma, R., Zhou, H., Zou, S., and Gan, Y. 2020. Nitrate Distribution Under The Influence of Seasonal Hydrodynamic Changes and Human Activities in Huixian Karst Wetland, South China. *Journal of Contaminant Hydrology* 234.
- Khusnuryani, A. 2008. Mikroba sebagai Agen Penurunan Fosfat pada Pengolahan Limbah Cair Rumah Sakit. *Prosiding Seminar Nasional Aplikasi Sains & Teknologi*, 144-151.
- Kusumayudha, S. B. 2004. *Hidrogeologi Karst dan Geometri Fraktal di Daerah Gunungsewu*. Yogyakarta: Adicita Karya Nusa.
- Kurniawan, I. A., Adji, T. N., Nurkholis, A., Haryono, E., Fatoni, H., Waskito, W. A., Cahyadi, A., dan Agniy, R. F. 2019. Respon Akuifer Karst dengan Aplikasi Analisis Time Series di Karst Jonggrangan, Pulau Jawa, Indonesia. *Ilmu Kebumihan* 76-709.
- Lakitan, B. 1994. *Dasar-Dasar Klimatologi*. Jakarta: PT Raja Grafindo Persada.

- Lyne, V. and Hollick, M. 1979. Stochastic Time-Variable Rainfall-Runoff Modeling. I.E., Aust, Natl., *Conf., Publ.*, 79/10, pp.89-93.
- Manik, T. K. 2012. *Klimatologi Dasar*. Yogyakarta : Graha Ilmu.
- Maniagasi, R., Sipriana, S., Tumembrouw., & Mundeng, P. 2013. Analisis Kualitas Fisika Kimia Air di Areal Budidaya Ikan Danau Tondano Provinsi Sulawesi Utara. *Budidaya Perairan*. 1(2): 29-37.
- Mauldy, P. S. 2018. Penentuan Kandungan Sulfat & Klorin pada Air Minum dan Air Bersih secara Spektrofotometri UV-VISIBEL. *Laporan Praktikum Kerja Lapangan*. Program Diploma Universitas Islam Indonesia.
- Milanovic. 1981. *Karst Hydrogeology*. Michigan: Book Crafters, Inc.
- Musgrove, M., Opsahl, S. P., Mahler, B. J., Herrington, C., Sample, T.L., Banta, J. R. 2016. Source, variability, and Transformation of Nitrate in A Regional Karst Aquifer: Edwards aquifer, central Texas. *Science of Total Enviromental* 568. 457-469.
- Nathan, R. J., McMahon T. A., 1990. Evaluation of Automated Techniques for Baseflow and Recession Analysis. *Water Resources Research*. 26 (7): 1465-1473.
- Nemerow, N.L and Sumitono, H. 1970. Benefits of Water Quality Enhancement. Report No. 16110 DAJ, prepared for the U.S. *Environmental Protection Agency*. Syracuse University, Syracuse, NY.
- Nemerow, N. L. 1974. Scientific Stream Pollution Analysis. *Scripta Book Co Washington DC*.
- Nugroho, A. S., Tanjung, S. D., & Hendrarto, B. 2014. Distribusi serta Kandungan Nitrat dan Fosfat di Perairan Danau Rawa Pening. *Bioma*. 3 (1): 27-41.
- Nugroho, B., Pulung, Utomo, E. P. 2016. Kualitas Batugamping berdasarkan Analisis Klasifikasi Geo Mekanik di Goa Seropan Gunungkidul Yogyakarta. *Bulletin of Scientific Contribution*, Vol 14: 63-74.
- Oehler, T., Eiche, E., Putra, D., Adyasari, D., Hennig, H., Mallast, U. and Moosdort, N. 2017. Timing of Land-Ocean Groundwater Nutrient Fluxes from A Tropical Karstic Region (Southern Java, Indonesia). *Hydrology and Earth System Science Discuss*. [Http://doi.org/10.5194/hess-2017-621](http://doi.org/10.5194/hess-2017-621).

- Oehler, T., Eiche, E., Putra, D., Adyasari, D., Hennig, H., Mallast, U. and Moosdort, N. 2018. Seasonal Variability of Land-Ocean Groundwater Nutrient Fluxes from A Tropical Karstic Region (southern Java, Indonesia). *Journal of Hydrology* 565. 662-671.
- Oktaviani, F., Miftahuddin, dan Setiawan, I. 2021. Cross-correlation Analysis between Sea Surface Temperature Anomalies and Several Climate Elements in the Indian Ocean. *Parameter: Journal of Statistics*, 1(1), 13-20.
- Pan, L., Dai, J., Wu, Z., Huang, L., Wan, Z., Han, J., and Li, Z. 2021. Spatial and Temporal Variations of Nitrogen and Phosphorus in Surface Water and Groundwater of Mudong River Watershed in Huixian Karst Wetland, Southwest China. *Sustainability*, 13, 10740.
- Peraturan Republik Indonesia. 2021. Peraturan Pemerintah Nomor 22 Tahun 2021 Tentang Penyelenggaraan, Perlindungan, dan Pengelolaan Lingkungan Hidup. Jakarta: Pemerintah Republik Indonesia.
- Peraturan Republik Indonesia. 2003. *Keputusan Menteri Negara Lingkungan Hidup Nomor 115 Tahun 2003 Tentang Pedoman Penentuan Status Mutu Air*. Jakarta: Pemerintah Republik Indonesia.
- Peraturan Republik Indonesia. 2010. *Keputusan Menteri Kesehatan Republik Indonesia Nomor 492 Tahun 2010 Tentang Persyaratan Kualitas Air Minum*. Jakarta: Pemerintah Indonesia.
- Peavy, H. S., Rowe, D. R., & Tchobanoglous, G. 1985. Environmental Engineering. United State of America: McGraw-Hill.
- Plagnes, V. and Bakalowicz, M., 2001. May it Propose A Unique Interpretation for Karstic Spring Chemographs In. J. Mudry and F. Zwahlen (Editors), 7th *Conference on Limestone Hydrology and Fissured Media*. Besançon: Franche-Comté University, pp. 293-298.
- Richter, D., Goeppert, N., Zindler, B., and Goldscheider, N. 2021. Spatial and Temporal Dynamics of Suspended Particles and E. Coli an A Complex Surface-Water and Karst Groundwater System as A Basis for An Adapted Water Protection Scheme, Northern Vietnam. *Hydrology Journal* 29: 1965-1978.

- Santy, D. A., Adytama, S., & Huda, N. 2017. Analisis Kandungan Bakteri *Fecal Coliform* pada Sungai Kuin Kota Banjarmasin. *Majalah Geografi Indonesia*. 31(2): 51-60.
- Sarmanu. 2017. Dasar Metodologi Penelitian Kuantitatif, Kualitatif, dan Statistika. *Airlangga University Press*. Surabaya.
- Sastrawijaya, A. T. 2013. *Pencemaran Lingkungan*. Jakarta: Rineka Cipta.
- Schulz, E.F., 1976. *Problems in Applied Hydrology*. Water Resources Publication, Colorado: Water Resources Publication.
- Setiawan, C., Muzani., Parwata., & Ramadhoan, F. 2014. Kajian Intrusi dan Kualitas Air Sungai Sunter Bagian Hilir Sebagai Upaya Pengelolaan Lingkungan di Jakarta. *Prodising Pertemuan Ilmiah Tahunan (PIT) Ikatan Geograf Indonesia*. 557-571.
- Shuster, E. T., & W. B. White. 1971. Seasonal Fluctuations in the Chemistry of Lime-stone Springs: A Possible Means for Characterizing Carbonate Aquifers, *J. Hydrol.*, 14(2), 93-128.
- Sinaga, Eskadoany. 2016. *Penetapan Kadar Klorida pada Air Minum Isi Ulang dengan Metode Argentometri (Metode Mohr)*. Universitas Sumatera Utara.
- Smart, P.L. and Hobbes, S.L., 1986. Characteristics of Carbonate Aquifers: A Conceptual Basis. In Proceedings, Environmental Problem in Karst Terrains and Their Solution. Bowling Green, KY: *National Well Water Association*, 1-4
- Soewarno. 1991. *Hidrologi Pengukuran dan Pengolahan Data Aliran Sungai (Hidrometri)*. Bandung: Penerbit Nova.
- Sorensen, E. M. 1991. *Metal Poisoning in Fish*. New York (US): CRC Press.
- Sri Harto Br. 1993. *Analisis Hidrologi*. Jakarta: PT. Gramedia Pustaka Utama.
- Subardja D, S., Sofyan R., Markus A., Erna S., Rudi E. S. 2014. *Petunjuk Teknis: Klasifikasi Tanah Nasional*. Balai Besar Litbang Sumberdaya Lahan Pertanian. Edisi Pertama.
- Sudarmadji, Darmanto, D., Widyastuti, M., dan Lestari, S. 2016. *Pengelolaan Sumber Daya Air Terpadu*. Yogyakarta: Gadjah Mada University Press.

- Sudarmadji, Darmanto, D., Widyastuti, M., dan Lestari, S. 2012. Pengelolaan Sumberdaya Air Berbasis Kearifan Lokal Masyarakat Pedesaan di Daerah Fisiografi Gunungapi dan Daerah Fisiografi Karst. *Laporan Penelitian*. Sekolah Pascasarjana UGM, Yogyakarta.
- Sutrisno, & Suciati. 1987. *Teknologi Penyediaan Air Bersih*. Penerbit Rineka Cipta Karya. Jakarta.
- Suprayogi, D., Sulistya, N., dan Abdul, H. 2019. Analisis Kualitas Air Sungai Bawah Tanah Gua Ngerong, Tuban. *Al-Ard: Jurnal Teknik Lingkungan*. 5(1): 45-53.
- Suprihatin, L. S., Cahyono, W. E., & Syahfrizon. 2017. Pengaruh Kualitas Air Hujan pada Konsentrasi Metana. *Jurnal Kimia dan Pendidikan Kimia*. 2 (2): 103-109.
- Tallaksen, L.M. 1995. A Review on Baseflow Recession Analysis. *Journal of Hydrology*., 165, 349:370.
- Todd, David Keith., dan Larry W Mays. 2005. Groundwater Hydrology: Third Edition. *John Wiley & Sons, Inc, New York*.
- Thomas, B. C. 2010. Comparison of Two Physically-Based Spatially Distributed Hydrology Models in Contrasting Geo-Climatic Settings. *Thesis*. Faculty of Geo-Information Science and Earth Observation (ITC).
- Tumimomor, F., Palilingan, S., & Pungus, M. 2020. Pengaruh Filtrasi Terhadap Nilai pH, TDS, Konduktivitas, dan Suhu Air Limbah Laundry. *Jurnal Pendidikan Fisika Unima*. 1(1): 1-9.
- Van Beynen, P.E. 2011. *Karst Management*. London: Springer Science and Business Media.
- Wardhana, W. W. 2004. *Dampak Pencemaran Lingkungan*. Yogyakarta: Andi Offset.
- Warlina, Lina. 2004. *Pencemaran Air: Sumber, Dampak dan Penanggulangannya*. Makalah Pengantar ke falsafah Sains. Bogor: Institut Pertanian Bogor.
- White, W. B. 1988. *Geomorphology and Hydrology of Karst Terrains*. New York: Oxford University Press.

- Widyastuti, M. 2010. Karakterisasi Daerah Tangkapan Ponor Karst Gunungsewu sebagai Variabel Penentu Kerentanan Airtanah terhadap Pencemaran (Studi Kasus di DAS Bribin). *Laporan Akhir Kegiatan Penelitian Hibah Disertasi Doktor*. Yogyakarta: Universitas Gadjah Mada.
- Widyastuti, M, Cahyadi, A., dan Sasongko, M.H.D. 2016. Hidrologi dan Hidrogeologi Karst. dalam Haryono, E. (Editor, *Pedoman Praktis Survei Terintegrasi Kawasan Karst*. Yogyakarta: Badan Penerbit Fakultas Geografi (BPFG) Universitas Gadjah Mada. Halaman: 20-43.
- Yanti, E. V. 2017. Dinamika Musiman Kualitas Air di Daerah Sungai Kahayan, Kalimantan Tengah. *Ziraa'ah*, 42(2), 107-118.
- Yue, F., Liang, L., Jun, Z., and Jing, L. 2018. Evaluation of Factors Driving Seasonal Nitrate Variations in Surface and Underground Systems of a Karst Cathment. *Vadose Zone Journal*. 17-170071.