

DAFTAR PUSTAKA

- Adji, T. N. 2010. 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., 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(20), 1–16. <https://doi.org/10.1007/s12665-017-7057-z>.
- Andreo, B., Carrasco, F., Bakalowicz, M., Mudry, & J., Vadillo, I. 2002. Use of Hydrodynamic and Hydrochemistry to Characterise Carbonate Aquifers. Case study of Blanca-Mijas unit (Malaga, southern Spain). *Environmental Geology*, 43(1–2), 108–119. Doi: [10.1007/s00254-002-0614-z](https://doi.org/10.1007/s00254-002-0614-z)
- Appelo, C.A.J. & Postma, D. 1993. *Geochemistry, Groundwater and Pollution*. Leiden: A.A. Balkema.
- Appelo, C.A.J. & Postma, D. 2005. *Geochemistry, Groundwater and Pollution 2nd Edition*. Leiden: A.A. Balkema.
- Badan Meteorologi, Klimatologi, dan Geofisika. 2018. Awal Musim Hujan Akan Datang, BMKG Imbau Masyarakat Waspada Cuaca Ekstrem. Diakses pada 22 Juni 2019 melalui <https://setkab.go.id/awal-musim-hujan-akan-datang-bmkg-imbau-masyarakat-waspada-cuaca-ekstrem/>.
- Bakalowicz, M. 2005. Karst Groundwater: A New Challenge for New Resources. *Hydrology Journal*.
- Balazs, D. 1968. *Karst Regions in Indonesia: Karszt-Es Barlangkutatas, Volume V*. Budapest: Globus nyomda.
- Barbera, J.A. & Andreo, B. 2012. Functioning of a Karst Aquifer From S Spain Under Highly Variable Climate Conditions, Deduced From Hydrochemical Records. *Environmental Earth Science*, 65, 2337–2349.
- Bemmelen, R. W. V. 1949. *The Geology of Indonesia Vol I A General Geology and Adjacent Archipelagoes*. The Hague: Government Printing Office.
- Bicalho, C. C., Batiot-Guilhe C., Seidel, J. L., Exter, S. V., & Jourde H. 2012. Geochemical Evidence of Water Source Characterization and

Hydrodynamic Responses in a Karst Aquifer. *Journal of Hydrology*, 450–451, 206–218.

- Bogli. 1980. *Karst Hydrology and Physical Speleology*. Verlag: Springer
- Bonacci, O. 1990. Regionalization in Karst Regions. *Proceedings of the Ljubljana Symposium*. April 1990, IAHS Publ. no. 191, 1990.
- Bonacci, O. 1993. The Catchment Area of The Sv. Ivan Karst Spring in Istria (Croatia). *Ground Water*, 31, 767–773
- Davie. 2002. *Fundamentals of Hydrology*. Oxon: Routledge
- Dong, Z., Zhu, L., Wu, P., Shen, Z., & Feng, Z. 2005. Hydrogeochemistry of Karst Underground Waters at Shallow Depth in Guiyang City, Guizhou Province. *Chinese Journal of Geochemistry*, 24(2), 194–200.
- Domenico, P.A. & Schwartz, F.W. 1990. *Physical and Chemical Hydrogeology*. 2nd Ed. John Wiley & Sons
- 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. *Hydrological Processes*, 19, 507–515.
- Fatoni, H. 2019. Variabilitas Debit dan Sistem Memori untuk Karakterisasi Akuifer Karst Jonggrangan Kulon Progo-Purworejo. *Skripsi*. Yogyakarta: Fakultas Geografi Universitas Gadjah Mada
- Fetter, C.W. 1994. *Applied Hydrogeology, 3rd Edition*. New York: Macmillan Publishing Company.
- Fiorillo, F. 2014. The Recession of Spring Hydrograph, Focused on Karst Aquifers. *Water Resources Management*, 1781–1805
- Ford, D & Williams, P. 1989. *Karst Geomorphology and Hydrology*. London: Chapman and Hall.
- Ford, D. & Williams, P. 2007. *Karst Geomorphology and Hydrology*. London: Chapman and Hall.
- Freeze, A.R. & Cherry, A.J. 1979. *Groundwater*. Englewood: Prentice-Hall Inc.
- Gibbs, R. J. 1970. Mechanisms Controlling World Water Chemistry. *Science, New Series*, 170(3962), 088–1090.

- Goldscheider, N & Drew, D. 2007. *Methods in Karst Hydrogeology*. London: Taylor and Francis.
- Harjanto, A. 2011. Vulkanostratigrafi di Daerah Kulon Progo dan Sekitarnya, Daerah Istimewa Yogyakarta. *Ilmiah MTG*, 4(2).
- Hartman, A., Goldscheider, N., Wagener, T., Lange, J., & Weiler, M. 2014. Karst Water Resources in A Changing World: Review of Hydrogeological Modeling Approaches. *Review of Geophysics*
- Haryono, E & Adji, T. N. 2004. *Pengantar Geomorfologi dan Hidrologi Karst*. Yogyakarta: Kelompok Studi Karst Fakultas Geografi Universitas Gadjah Mada
- Hidayah, U. 2007. Potensi Mataair untuk Kebutuhan Air Minum Penduduk di Kawasan Karst Jonggrangan. *Skripsi*. Yogyakarta: Fakultas Geografi Universitas Gadjah Mada
- Jankowski, J. 2002. Groundwater Environment, *Short Course Note*. Sydney: School of Geology, University of New South Wales
- Lecomte, K. L., Bicalho, B. C., & Silva-Filho, E. V. 2016. Geochemical Characterization in Karst Basin Tributaries of The San Franciscan Depression: The Corrente River, Western Bahia, NE-Brazil. *Journal of South American Earth Sciences*, 69, 119-130.
- Lee E. S. & Krothe, N. C. 2003. Delineating The Karstic Flow System in The Upper Lost River Drainage Basin, South Central Indiana: Using Sulphate and $\delta^{34}\text{S}_{\text{SO}_4}$ as Tracers. *Applied Geochemistry* 18, 145–153.
- Lyne, V. & Hollick, M. 1979. Stochastic Time-Variable Rainfall-Runoff Modelling. *I.E., Aust., Natl., Conf., Publ.*, 79/10, 89-93.
- Maryanto, S. 2013. Sedimentologi Batugamping Formasi Jonggrangan di Sepanjang Lintasan Gua Kiskendo, Girimulyo, Kulon Progo. *Geo - Sciences*, 23(2), 105-120.
- Minvielle, S., Lastennet, R., Denis, A., & Peyraube, N. 2015. Characterization of Karst Systems Using Sic-Pco2 Method Coupled with PCA and Frequency Distribution Analysis. Application to Karst Systems in The Vaucluse County (Southeastern France). *Environ Earth Sci*, 74, 7593–7604.
- Mohammadi, Z. & Shoja, A., 2013. Effect of Annual Rainfall Amount on Characteristics of Karst Spring Hydrograph. *Carbonate and Evaporites*. Volume 29,(3), 279–289

- Moore, P.J., Martin, J. B., & Screaton, E. J. 2009. Geochemical and Statistical Evidence of Recharge, Mixing, and Controls on Spring Discharge in an Eogenetic Karst Aquifer. *Journal of Hidrology*, 379, 444-455.
- Monroe, W.H. 1970. *A Glossary of Karst Terminology*. Washington:US Government Printing Office
- Moya, C.E., Raiber, M., Taulis, T., Cox, M.E. 2015. Hydrochemical Evolution and Groundwater Flow Processes in the Galilea and Eromanga Basins, Great Artesian Basin, Australia: A Multivariate Statistical Approach. *Science of the Total Environment* 508, 411-426
- Mudry, J., 2004. Hydrochemical Characterization of Karst Aquifers, University of FrancheComté, BESANÇON, France Page 2. http://lsbb.unice.fr/sms_us/Mudry.pdf
- Nathan, R.J. & McMahon, T.A. 1990. Evaluation of Automated Techniques for Baseflow and Recession Analysis. *Water Resources Research*, v.26, no.7: 1465-1473.
- Nguyet, V. T. M., Thanh, V. P., Hai, V. D., Roi, N. D., & Tra, D. T. T. 2016. Hydrogeochemical Characterization and Groundwater Quality of The Dong Giao Karst Aquifer in Tam Diep, Ninh Binh, Vietnam. *Acta Carsologica*, 45(3), 233–242.
- Nurkholis, A. 2017. Variasi Spasial Dan Temporal Sifat Aliran, Perilaku Banjir, Dan Respons Debit Terhadap Hujan Di Sistem Drainase Karst Pindul, Kabupaten Gunungkidul. *Skripsi*. Yogyakarta: Fakultas Geografi Universitas Gadjah Mada
- Oktama, R. 2014. Karakterisasi Akuifer Karst Mataair Ngeleng dengan Pendekatan Variasi Temporal Sifat Aliran dan Hidrogeokimia. *Skripsi*. Yogyakarta: Fakultas Geografi Universitas Gadjah Mada
- Pambudi S., Wardhani, S. I., Winangtris, & Sudrajat A. 2017. Microfacies of Lower Jonggrangan Formation at Brajan Section, Banjararum, Kulon Progo, Indonesia. *The 2nd Join Conference of Utsonomiya University and Universitas Padjadjaran*, 268-273.
- Pemerintah Daerah Istimewa Yogyakarta. 2008. PP DIY nomor 20 tahun 2008 tentang Pengelolaan Kualitas Air dan Pengendalian Pencemaran Air
- Perrin, J. 2005. A Conceptual Model of Flow and Transport in a Karst Aquifer Based on Spatial and Temporal Variation of Natural Tracers. *PhD Thesis*. Switzerland: Centre D' Hydrogeologie University de Neuchatel.
- Petalas, C. 2017. Analysis of the Hydrogeological and Hydrochemical Characteristics of an Immature Karst Aquifer System. *Environmental*

- Piper, A.M. 1944. A Graphic Procedure in the Geochemical Interpretation of Water Analysis. *Eos, Transactions American Geophysical Union*, 25(6), 914-928
- Poetra, R.P. 2018. *Inverse Modelling dan Analisis Mineral untuk Identifikasi Proses-Proses Hidrogeokimia Akuifer di Kecamatan Temon, Kabupaten Kulonprogo. Skripsi*. Yogyakarta: Fakultas Geografi Universitas Gadjah Mada
- Plagnes, V. & 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, 293-298.
- Santoso, S. 2018. *Mahir Statistik Multivariate dengan SPSS*. Jakarta: PT Elex Media Komputindo
- Sartohadi, J., Suratman, Jamulya, & N.I.S. Dewi. 2014. *Pengantar Geografi Tanah*. Yogyakarta: Pustaka Pelajar
- Schulz, E.F. 1976. *Problems in Applied Hydrology*. Colorado: Water Resources Publication.
- Sheffer, N. A., E. Dafny, H. Gvirtzman, S. Navon, A. Frumkin, & E. Morin. 2010. Hydrometeorological Daily Recharge Assessment Model (DREAM) for the Western Mountain Aquifer, Israel: Model Application and Effects of Temporal Patterns. *Water Resources*, 46, W05510, doi:10.1029/2008WR007607.
- 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.
- Smart, P.L. & 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
- Suharini, E. & Palangan, A. 2014. *Geomorfologi: Gaya, Proses, dan Bentuk Lahan*. Yogyakarta: Penerbit Ombak
- Syafri, I., Budiadi, E., & Sudrajat A. 2013. Geotectonic Configuration of Kulon Progo Area, Yogyakarta. *Indonesian Journal of Geology*, 8(4), 185-190.

- Tallaksen, L.M. 1995. A Review on Baseflow Recession Analysis. *Journal of Hydrology.*, 165, 349-370
- Tjasyono, B. 2004. *Klimatologi*. Bandung: Penerbit ITB
- Verstappen, H.T. 1983. *Applied Geomorphology*. Amsterdam: Elsevier
- Waskito, W. A. 2018. Studi Hidrograf Aliran Mataair untuk Karakterisasi Akuifer di Kawasan Karst Jonggrangan. *Skripsi*. Yogyakarta: Fakultas Geografi Universitas Gadjah Mada
- White, W. B. 1988. *Geomorphology and Hydrology of Karst Terrains*. New York: Oxford University Press.
- Widagdo, A., Pramumijoyo, S., Harijoko, A., & Setiawan, A. 2016. Kajian Pendahuluan Kontrol Struktur Geologi Terhadap Sebaran Batuan-Batuan di Daerah Pegunungan Kulon Progo-Yogyakarta. *Proceeding Seminar Nasional Kebumihan Ke-9 Peran Penelitian Ilmu Kebumihan dalam Pemberdayaan Masyarakat*, 9-20.
- Widagdo, A., Pramumijoyo, S., Harijoko, A., & Setiyanto A. 2018. Fault Lineaments Control on Disaster Potentials in Kulon Progo Mountain Area-Central Java-Indonesia. *MATEC Web of Conferences*, 229, 1-6.
- World Health Organization. 2010. *Guidelines for Drinking Water Quality 3rd Edition*. Geneva: World Health Organization
- Yuan, J., Xu, F., Deng, G., Tang, Y., & Li, P. 2017. Hydrogeochemistry of Shallow Groundwater in a Karst Aquifer System of Bijie City, Guizhou Province. *Water (Switzerland)*, 9(8), 625. <https://doi.org/10.3390/w9080625>