

REFERENCES

- Adrees, M., Ali, S., Rizwan, M., Zia-ur-Rehman, M., Ibrahim, M., Abbas, F., ... Irshad, M. K. (2015). Mechanisms of silicon-mediated alleviation of heavy metal toxicity in plants: A review. *Ecotoxicology and Environmental Safety*, 119, 186–197.
<https://doi.org/10.1016/j.ecoenv.2015.05.011>
- Akcil, A., & Koldas, S. (2006). Acid Mine Drainage (AMD): causes, treatment and case studies. *Journal of Cleaner Production*, 14(12–13 SPEC. ISS.), 1139–1145.
<https://doi.org/10.1016/j.jclepro.2004.09.006>
- Appelo, C.A.J and Postma, D., *Geochemistry, Groundwater and Pollution*, A.A. Balkema, Rotterdam, 1994.
- Deutsch, W.J., 1997, *Groundwater Chemistry: Fundamentals and Applications to contamination*. Florida: CRC Press LLC., 221 p.
- Boulding, J. R. and Ginn, J.S., 2004. Practical handbook of soil, vadose zone and groundwater contamination: assessment, prevention and remediation, 2nd ed. Florida: CRC Press LLC., 691 p.
- Eby, G. N., 2004, *Principles of Environmental Geochemistry*, Massachusetts University, p. 514.
- Evan K. Nyer. (2009). *Groundwater Treatment Technology Third Edition*.
- Ghrefat, H., & Yusuf, N. (2006). Assessing Mn, Fe, Cu, Zn, and Cd pollution in bottom sediments of Wadi Al-Arab Dam, Jordan. *Chemosphere*, 65(11), 2114–2121.
<https://doi.org/10.1016/j.chemosphere.2006.06.043>
- Idrus, A., Titisari, A. D., Sudiyo, R., & Soekrisno, R. (2008). Geology, Characterization, Quality improvement and Recommended Utilization of Natural Zeolite (Zeolitic Tuff) Deposits from Gunung Kidul, Yogyakarta Special Territory, Indonesia, 21–25.

- Irien (2011), *Study Characterization and genesis of zeolite in Tegalrejo area, Gedangsari District, Gunung Kidul Regency, Special Province Yogyakarta, Indonesia*. Undergraduate Thesis, Geological Engineering Department, Faculty of Engineering, Gadjah Mada University, Yogyakarta, Indonesia.
- Kirov, G., & Filizova, L. (2012). Cationic Hydration impact on zeolite formation and properties: A review and discussion. *Geochemistry, Mineralogy and Petrology*, 49, 65–82.
- Kogel E K, Trivedi N C, Barker J M and Krukowski S 2006. *Industrial Minerals and Rocks*, 7th Edition, Littleton, Colorado, Society for Mining, Metallurgy, and Exploration.
- Koohsaryan, E., & Anbia, M. (2016). Nanosized and hierarchical zeolites: A short review. *Cuihua Xuebao/Chinese Journal of Catalysis*, 37(4), 447–467. [https://doi.org/10.1016/S1872-2067\(15\)61038-5](https://doi.org/10.1016/S1872-2067(15)61038-5)
- Langmuir, I. (1918). The Adsorption of Gases on Plane Surfaces of Glass, Mica and Platinum. *Journal of the American Chemical Society*, 40(9), 1361–1403. <https://doi.org/doi:10.1021/ja02242a004>
- Limousin, G., Gaudet, J. P., Charlet, L., Szenknect, S., Barthès, V., & Krimissa, M. (2007). Sorption isotherms: A review on physical bases, modeling and measurement. *Applied Geochemistry*, 22(2), 249–275. <https://doi.org/10.1016/j.apgeochem.2006.09.010>
- Margeta, K., Zabukovec Logar, N., Šiljeg, M., & Farkas, A. (2013). Natural Zeolites in Water Treatment – How Effective is Their Use. *Water Treatment*, 81–112. <https://doi.org/10.5772/50738>
- Ozekmekci, M., Salkic, G., & Fellah, M. F. (2015). Use of zeolites for the removal of H₂S: A mini-review. *Fuel Processing Technology*. Elsevier B.V. <https://doi.org/10.1016/j.fuproc.2015.08.015>
- Pabalan, R. T., and Bertetti, F. P, 2001. Cation-exchange properties of natural zeolites.

- In Bish, D. L., and Ming, D. W. (eds.). *Natural Zeolites: Occurrence, Properties, and Applications. Reviews in Mineralogy and Geochemistry*, v. 45. Washington: Mineralogical Society of America, pp. 381-446.
- Pich et al. (2010). Modified natural zeolite and bentonite as adsorbents of heavy metal ions from polluted groundwater in Yogyakarta urban area modified natural zeolite and bentonite as adsorbents of heavy metal ions from polluted groundwater in Yogyakarta urban, (July 2015).
- Prasetya, A., Purnomo, C. W., & Rifai, A. (2006). In-Situ Heavy Metal Contained Wastewater Remediation of Small and Medium Scale Industries (SMIs) Using Natural Zeolite and Modified Fly Ash Compound. *Proceedings of Final Report of Hi-Link Project Research*. Gadjah Mada University, Yogyakarta, Indonesia.
- Simate, G. S., & Ndlovu, S. (2014). Acid mine drainage: Challenges and opportunities. *Journal of Environmental Chemical Engineering*, 2(3), 1785–1803. <https://doi.org/10.1016/j.jece.2014.07.021>
- Surono. (2008). Litostratigrafi dan sedimentasi Formasi Kebo dan Formasi Butak di Pegunungan Baturagung, Jawa Tengah Bagian Selatan. *Indonesian Journal on Geoscience*, 3(4), 183–193. Retrieved from <http://ijog.bgl.esdm.go.id>
- Van Zuidam, R.A., Cancelado, F.I. 1985. *Aerial Photo-Interpretation in Terrain Analysis and Geomorphologic Mapping*. Netherland: Smith Publisher the Hague.
- Widiasmoro, Wintolo, D., & Sumardi, P. (2000). Profile Investigation of Sampang Zeolite at Gedangsari Area, GunungKidul Regency, Daerah Istimewa Yogyakarta. *The Mining Official of Yogyakarta special Territory Government - Geological Engineering Department, Faculty of Engineering, Gadjah Mada University, Yogyakarta, Indonesia*, p. 109.
- Wilopo, W, Haryono S.N., Putra D.P.E., Warmada W., Hirajima T., (2010). Copper (Cu^{2+}) Removal from water using natural zeolite from Gedangsari, 2(2), 117-120.
- Yumiti, S., Widiasmoro, & Titisari, A. D. (2005). The Characteristics and Genesis of

Zeolitic Tuff in Bantengwareng area, GunungKidul Regency - Yogyakarta.
Proceedings of Joint Convention, The 30th HAGI (Indonesian Association of Geophysicists), The 34th LAGI (Indonesian Association of Geologists) and The 14th PERHAPI (Association of Indonesian Mining Professionals). pp. 37-47.