

DAFTAR PUSTAKA

- Beiser, A. (1992). *Modernt Technical Physics*. Malang: UB Press.
- Bertoldi, C., Fabbri, S., & Ferreira, J. (2017). The role of mineralogy in the mobilization of nutrients during weathering processes. *Geoderma*, 289, 68-76.
- Brady, N. C., & Weil, R. R. (1999). *The Nature and Properties of Soils*. London: Prentice Hall Publishers.
- Cheng, X., et al. (2019). The effect of leaching time and concentration on metal recovery. *Hydrometallurgy*, 184, 1-9.
- Garrett, D. E. (1996). *Potash: Deposits, Processing, Properties and Uses*. Springer Science & Business Media.
- Demir, F., Eryilmaz, E., & Tekin, G. (2006). Development of hydrometallurgical processes: Environmental and economic perspectives. *Mineral Processing and Extractive Metallurgy Review*, 27(3), 151–173.
- Habashi, F. (1987). *Hydrometallurgy in Extraction Processes. Volume II*. Marcel Dekker Inc.
- Himanshu, T., & Nikhil, D. (2019). Recovery of potash values from feldspar. *Separation Science and Technology*.
- Jamaludin, A., & Darma, A. (2012). Analisis Kerusakan X-Ray Fluorosence (XRF). *Teknologi Bahan Bakar Nuklir*, 9(10), 19-28.
- Jamaluddin. (2010). *XRD (X-Ray Diffractions)*. Kendari: Universitas Haluoleo.
- Jenkin, R. (1988). *X-Ray Fluorescence Spectrometry*. John Wiley & Sons.
- Kirkman, J. H. (1981). Morphology and structure of halloysite in New Zealand Tephros. *Clays and Clay Minerals*, 29, 1-9.
- Kumar, A., & Singh, R. (2018). Potassium extraction from natural zeolites using hydrochloric acid. *Journal of Environmental Chemical Engineering*, 6(3), 3918-3925.
- Lorrane, M., Laura, V., Kamila, F., & Gilberto. (2021). Potassium extraction from the silicate rock Verdete using organic acids. Universidade Federal de Uberlândia.
- ia, T. (2005). Purification of natural zeolite-clinoptilolite for medical
lication extraction of lead. Institute for Technology of Nuclear and Other
neral Raw Materials, Belgrade.



- Munasir, M., Triwikantoro, T., Zainuri, M., & Darminto, D. (2012). Uji XRD dan XRF pada bahan mineral (batuan dan pasir) sebagai sumber material cerdas (CaCO_3 dan SiO_2). *Jurnal Penelitian Fisika dan Aplikasinya (JPFA)*.
- Palmer, S. J., Frost, R. L., & Nguyen, T. M. (2009). Hydrotalcites and their role in coordination of anions in Bayer liquors: Anion binding in layered double hydroxides. *Coordination Chemistry Reviews*, 253(1-2), 250-267.
- Parfitt, R. L. (1992). Pertukaran kalium-kalsium di beberapa tanah Selandia Baru. *Tanah Res.*
- Parning, T., Simanjuntak, R., & Manik, D. (2008). Studi pengenceran larutan dalam preparasi analisis kimia. *Jurnal Pendidikan Kimia*, 4(2), 95–104.
- Pollung, H. S. (2005). Sumber dan taraf zeolit yang berbeda dalam ransum serta pengaruhnya terhadap penampilan ternak babi. Fakultas Peternakan, Institut Pertanian Bogor.
- Rai, V. N., & Yadav, J. P. (2010). Leaching of heavy metals from contaminated soil using organic acids: A review. *International Journal of Environmental Science and Technology*, 7(3), 485-494.
- Said, M., Prawati, A. W., & Murenda, E. (2008). Aktivasi Zeolit Alam sebagai adsorben pada adsorpsi larutan iodium. *Jurnal Teknik Kimia*, 15(4).
- Saputra, R. (2006). Pemanfaatan zeolit sintetis sebagai alternatif pengolahan limbah industri. *Buletin IPT*, 1, 8-20.
- Sari, R. K. (2016). Potensi mineral batuan tambang Bukit 12 dengan metode XRD, XRF, dan AAS. *Eksakta*, 2, 13-23.
- Saviano, M. (2013). Structural and chemical properties of zeolites in catalysis. *Journal of Molecular Catalysis*, 28(4), 245–260.
- Siagian, R. (2005). Pengaruh struktur dan sifat zeolit terhadap kapasitas penukaran ionnya. *Jurnal Sains Material dan Teknologi*, 10(2), 135–150.
- Sokic, M. D., Milosevic, V. D., Stankovic, V. D., Matkovic, V. Lj., & Markovic, B. R. (2014). Acid leaching of oxide–sulfide copper ore prior the flotation – A way for an increased metal recovery. *Hydrometallurgy*, 69(5), 453-458.
- Sufriadin, Bawazir, F., Widodo, S., & Hujannah, M. (2022). Dealuminasi zeolit daerah Moncongloe Kabupaten Maros Provinsi Sulawesi Selatan Dengan Menggunakan Asam Sulfat . *Jurnal Geomine*, 270-279.



R., & Supriatna, S. (1982). *Geologi lembar Ujung Pandang, Bantaeng dan Sinjai, Sulawesi (The Geology of the Ujung Pandang, Bantaeng and Sinjai Quadrangles, Sulawesi)*. Bandung: The Geological Research and Development Centre.

- Sukmawati, P. P., & Muhammad, A. (2015). Karakterisasi jenis mineral ornamen gua Salukang Kallang dengan metode X-Ray Diffraction. *Jurnal Sains dan Pendidikan Fisika*, 11(3).
- Sutarti, M., & Rachmawati, M. (1994). *Zeolit Tinjauan Literatur*. Jakarta: Pusat Dokumentasi dan Informasi LIPI.
- Sutedjo, M. M. (1995). *Pupuk dan Cara Pemupukan*. Jakarta: Rineka Cipta.
- Widiyastuti, D. A. (2016). Analisa struktur batuan dari Sungai Aranio Kabupaten Banjar menggunakan X-Ray Difrraction. *Sains dan Terapan Politeknik Hasnur*, 4(1), 8-13.
- Wong, J. W. C., & Wong, S. K. (2020). Natural zeolites as a potential source of potassium in sustainable agriculture. *Sustainable Agriculture Reviews*, 41, 217-250.
- Zörb, C., Senbayram, M., & Peiter, E. (2013). Potassium in agriculture—status and perspectives. *Journal of Plant Physiology*.

