

DAFTAR PUSTAKA

- Acquafredda, P. (2019). XRF technique. *Physical Sciences Reviews*, 4(8). <https://doi.org/10.1515/psr-2018-0171>
- Adeosun, S. O., Akpan, E. I., & Dada, M. O. (2014). Refractory Characteristics of Aluminum Dross-Kaolin Composite. *JOM*, 66(11). <https://doi.org/10.1007/s11837-014-1179-5>
- Anovitz, L. M., & Cole, D. R. (2015). Characterization and analysis of porosity and pore structures. In *Pore Scale Geochemical Processes* (pp. 61–164). De Gruyter. <https://doi.org/10.2138/rmg.2015.80.04>
- Aras, A., & Kristaly, F. (2019). α -Cristobalite formation in ceramic tile and sewage pipe bodies derived from Westerwald ball clay and its effect on elastic-properties. *Applied Clay Science*, 178. <https://doi.org/10.1016/j.clay.2019.105126>
- Arief Setiadi, E., Hasan Abdul Malik Karimullah, M., Lisa, I., & Perdamean Sebayang, dan. (2018). Pembuatan dan Karakterisasi Mullite Berbasis Abu Vulkanik dan Alumina. *Journal of Technical Engineering: Journal of Mechanical Technical: Piston*, 1(2), 20–24.
- Choo, T. F., Mohd Salleh, M. A., Kok, K. Y., & Matori, K. A. (2019). Modified cenospheres as non-sacrificial pore-forming agent for porous mullite ceramics. *Ceramics International*, 45(17). <https://doi.org/10.1016/j.ceramint.2019.07.189>
- da Silva, V. J., da Silva, M. F., Gonçalves, W. P., de Menezes, R. R., Araújo Neves, G. de, Lucena Lira, H. de, & de Lima Santana, L. N. (2016). Porous mullite blocks with compositions containing

- kaolin and alumina waste. *Ceramics International*, 42(14), 15471–15478. <https://doi.org/10.1016/j.ceramint.2016.06.199>
- Dash, B., Das, B. R., Tripathy, B. C., Bhattacharya, I. N., & Das, S. C. (2008). Acid dissolution of alumina from waste aluminium dross. *Hydrometallurgy*, 92(1–2), 48–53. <https://doi.org/10.1016/j.hydromet.2008.01.006>
- Epp, J. (2016). X-Ray Diffraction (XRD) Techniques for Materials Characterization. In *Materials Characterization Using Nondestructive Evaluation (NDE) Methods* (pp. 81–124). Elsevier Inc. <https://doi.org/10.1016/B978-0-08-100040-3.00004-3>
- Foo, C. T., Salleh, M. A. M., Ying, K. K., & Matori, K. A. (2019a). Mineralogy and thermal expansion study of mullite-based ceramics synthesized from coal fly ash and aluminum dross industrial wastes. *Ceramics International*, 45(6). <https://doi.org/10.1016/j.ceramint.2019.01.041>
- Foo, C. T., Salleh, M. A. M., Ying, K. K., & Matori, K. A. (2019b). Mineralogy and thermal expansion study of mullite-based ceramics synthesized from coal fly ash and aluminum dross industrial wastes. *Ceramics International*, 45(6). <https://doi.org/10.1016/j.ceramint.2019.01.041>
- Fortune Miebaka Alabi, L. L. O. O. A. A. O. A. and O. A. (2019). REFINEMENT OF NIGERIAN KAOLIN BY WET PROCESSING AND OXALIC ACID TREATMENT FOR INDUSTRIAL APPLICATION. *American Journal of Innovative Research and Applied Sciences*.
- Ghorbani, Y., Franzidis, J. P., & Petersen, J. (2016). Heap leaching technology - Current State, innovations, and future directions: A

- review. *Mineral Processing and Extractive Metallurgy Review*, 37(2), 73–119. <https://doi.org/10.1080/08827508.2015.1115990>
- Gupta, C. K., & Mukherjee, T. K. (2017). Hydrometallurgy in extraction processes. In *Hydrometallurgy in Extraction Processes* (Vol. 2). <https://doi.org/10.1201/9780203751404>
- Huang, K., Wang, L., Li, M., Mi, T., Zhang, J., Liu, J., & Yi, X. (2023). Mechanism of porous ceramic fabrication using Second Aluminum Dross assisted by corn stalk as pore-forming agent. *Environmental Technology and Innovation*, 31. <https://doi.org/10.1016/j.eti.2023.103195>
- Jalaluddin, M. L., Azlan, U. A. A., Rashid, M. W. A., & Tamin, N. (2024). Effect of sintering temperatures on the physical, structural properties and microstructure of mullite-based ceramics. *AIMS Materials Science*, 11(2). <https://doi.org/10.3934/MATERSCI.2024014>
- Kulkarni, S. J. (2015). A Review on Studies and Research on Various Aspects of Leaching. *International Journal of Research & Review (Www.Gkpublication.In)*, 2(9), 579. www.ijrrjournal.com
- Kumar, S., Panda, A. K., & Singh, R. K. (2013). Preparation and characterization of acids and alkali treated kaolin clay. *Bulletin of Chemical Reaction Engineering and Catalysis*, 8(1), 61–69. <https://doi.org/10.9767/bcrec.8.1.4530.61-69>
- Kusumastuti, E. (2012). Pemanfaatan abu vulkanik gunung merapi sebagai geopolimer (suatu polimer anorganik aluminosilikat). *Jurnal MIPA Unnes*, 35(1).
- Lee, S. O., Tran, T., Park, Y. Y., Kim, S. J., & Kim, M. J. (2006). Study on the kinetics of iron oxide leaching by oxalic acid. *International*

- Journal of Mineral Processing*, 80(2–4).
<https://doi.org/10.1016/j.minpro.2006.03.012>
- Lemster, K., Delporte, M., Graule, T., & Kuebler, J. (2007). Activation of alumina foams for fabricating MMCs by pressureless infiltration. *Ceramics International*, 33(7).
<https://doi.org/10.1016/j.ceramint.2006.04.002>
- Lima, L. K. S., Silva, K. R., Menezes, R. R., Santana, L. N. L., & Lira, H. L. (2022). Microstructural characteristics, properties, synthesis and applications of mullite: a review. *Ceramica*, 68(385), 126–142. <https://doi.org/10.1590/0366-69132022683853184>
- Martínez-Luévanos, A., Rodríguez-Delgado, M. G., Uribe-Salas, A., Carrillo-Pedroza, F. R., & Osuna-Alarcón, J. G. (2011). Leaching kinetics of iron from low grade kaolin by oxalic acid solutions. *Applied Clay Science*, 51(4).
<https://doi.org/10.1016/j.clay.2011.01.011>
- Mohammed, A., & Abdullah, A. (n.d.). *SCANNING ELECTRON MICROSCOPY (SEM): A REVIEW*.
- Muhana, N. H. N., Al Ghifari, M. S., Putri, A. N., Saputri, M. M. A., & Haji, A. T. S. (2024). Pemetaan Tingkat Bahaya Erosi dan Rekomendasi Mitigasi di Kawasan UB Forest, Desa Tawangargo, Kabupaten Malang. *Jurnal Sumberdaya Alam Dan Lingkungan*, 11(1), 42–53. <https://doi.org/10.21776/ub.jsal.2024.011.01.5>
- Okada, K., Shimai, A., Takei, T., Hayashi, S., Yasumori, A., & Mackenzie, K. J. D. (n.d.). *Preparation of microporous silica from metakaolinite by selective leaching method*.
- Panda, A. K., Mishra, B. G., Mishra, D. K., & Singh, R. K. (2010). Effect of sulphuric acid treatment on the physico-chemical characteristics of kaolin clay. *Colloids and Surfaces A*:

- Physicochemical and Engineering Aspects*, 363(1–3).
<https://doi.org/10.1016/j.colsurfa.2010.04.022>
- Panneerselvam, M., & Rao, K. J. (2003). Novel microwave method for the synthesis and sintering of mullite from kaolinite. *Chemistry of Materials*, 15(11). <https://doi.org/10.1021/cm0301423>
- Pepper, R. A., Perenlei, G., Martens, W. N., & Couperthwaite, S. J. (2021). High purity alumina synthesised from iron rich clay through a novel and selective hybrid ammonium alum process. *Hydrometallurgy*, 204. <https://doi.org/10.1016/j.hydromet.2021.105728>
- Ptáček, P., Šoukal, F., Opravil, T., Havlica, J., & Brandštetr, J. (2011). The kinetic analysis of the thermal decomposition of kaolinite by DTG technique. *Powder Technology*, 208(1). <https://doi.org/10.1016/j.powtec.2010.11.035>
- Romero, M., Padilla, I., Contreras, M., & López-delgado, A. (2021). Mullite-based ceramics from mining waste: A review. In *Minerals* (Vol. 11, Issue 3). <https://doi.org/10.3390/min11030332>
- Roy, R., Das, D., & Rout, P. K. (2022). A Review of Advanced Mullite Ceramics. In *Engineered Science* (Vol. 18, pp. 20–30). Engineered Science Publisher. <https://doi.org/10.30919/es8d582>
- Sánchez-Soto, P. J., Eliche-Quesada, D., Martínez-Martínez, S., Pérez-Villarejo, L., & Garzón, E. (2022). Study of a Waste Kaolin as Raw Material for Mullite Ceramics and Mullite Refractories by Reaction Sintering. *Materials*, 15(2). <https://doi.org/10.3390/ma15020583>
- Sharif Hamadi, A., Talib Remedhan, S., & Abd Ali, H. (2012). Phosphate Rock Treatment with Hydrochloric Acid for

- Increasing P2O5 Content. *Engineering and Technology Journal*, 30(1). <https://doi.org/10.30684/etj.30.1.6>
- Silva, F. J. G. (2021). Metal machining—recent advances, applications, and challenges. In *Metals* (Vol. 11, Issue 4). MDPI AG. <https://doi.org/10.3390/met11040580>
- Srivastava, A., & Meshram, A. (2023). On trending technologies of aluminium dross recycling: A review. In *Process Safety and Environmental Protection* (Vol. 171, pp. 38–54). Institution of Chemical Engineers. <https://doi.org/10.1016/j.psep.2023.01.010>
- Sunardi, U. I. dan T. W. (2011). Karakterisasi Kaolin Lokal Kalimantan Selatan Hasil Kalsinasi. *Jurnal Fisika FLUX*, Vol. 8 No.1, 59–65.
- Tang, A., Su, L., Li, C., & Wei, W. (2010). Effect of mechanical activation on acid-leaching of kaolin residue. *Applied Clay Science*, 48(3), 296–299. <https://doi.org/10.1016/j.clay.2010.01.019>
- Utama, K. M., Warji, W., Rahmawati, W., & Suharyatun, S. (2023). Pemanfaatan Limbah Plastik Polyethylene Terephthalate (PET) dan Batok Kelapa Sebagai Bahan Baku Paving Block. *Jurnal Agricultural Biosystem Engineering*, 2(2), 262. <https://doi.org/10.23960/jabe.v2i2.7480>
- Verma, A., Kore, R., Corbin, D. R., & Shiflett, M. B. (2019). Metal Recovery Using Oxalate Chemistry: A Technical Review. *Industrial and Engineering Chemistry Research*, 58(34). <https://doi.org/10.1021/acs.iecr.9b02598>
- Walmiki, T., & Laniwati, M. (2015). *Sintesis Zeolit Y dari Kaolin Terbenefisiasi*.

- Wildan, M. W., & Marpaung, F. (2020). Compressive Strength and Thermal Conductivity of Porous Mullite Ceramics. *Journal of Materials Processing and Characterization*, 1(1), 1–8.
- Yadav, V. K., Saxena, P., Lal, C., Gnanamoorthy, G., Choudhary, N., Singh, B., Tavker, N., Kalasariya, H., & Kumar, P. (2020). Synthesis and Characterization of Mullites From Silicoaluminous Fly Ash Waste. *International Journal of Applied Nanotechnology Research*, 5(1), 10–25. <https://doi.org/10.4018/ijanr.20200101.oa2>
- Zawrah, M. F., Wassel, A. R., Youness, R. A., & Taha, M. A. (2022). Recycling of aluminum dross and silica fume wastes for production of mullite-containing ceramics: Powder preparation, sinterability and properties. *Ceramics International*, 48(21), 31661–31671. <https://doi.org/10.1016/j.ceramint.2022.07.087>
- Zhang, S., Zhu, W., Li, Q., Zhang, W., & Yi, X. (2019). Recycling of Secondary Aluminum Dross to Fabricate Porous Al_2O_3 Assisted by Corn Straw as Biotemplate. *Journal of Materials Science and Chemical Engineering*, 07(12). <https://doi.org/10.4236/msce.2019.712010>