

DAFTAR PUSTAKA

- Abubakar, M., Muthuraja, A., & Ahmad, N. (2021). Experimental investigation of the effect of temperature on the density of kaolin clay. *Materials Today: Proceedings*, 41, 791–794. <https://doi.org/10.1016/j.matpr.2020.07.383>
- Ahmad, F. (2022). Uji kuat tekan beton dengan CTM (Compression Testing Machine). *Ilmuteknik.org*, 2(1).
- Albozahid, M., Diwan, A. A., & Habeeb, S. A. (2021). The effect of addition graphite filler on mechanical properties of epoxy material. *Egyptian Journal of Chemistry*, 64(10), 5747–5754. <https://ejchem.journals.ekb.eg>
- Anam, A., Gamit, N., Prajapati, V., & Dholakiya, B. Z. (2023). An overview of kaolin and its potential application in thermosetting polymers. *Materials Today Communications*, 36, 106827. <https://doi.org/10.1016/j.mtcomm.2023.106827>
- Antsiferov, V. N., & Gilev, V. G. (2001). Membrane porous materials from sialon. *Refractories and Industrial Ceramics*, 42(1–2), 2–8.
- Aroke, U. O., Abdulkarim, A., & Ogubunka, R. O. (n.d.). Fourier-transform infrared characterization of kaolin, granite, bentonite, and barite. Chemical Engineering Programme, Abubakar Tafawa Balewa University, Bauchi-Nigeria.
- Asaf, O., Bentur, A., Larianovsky, P., & Sprecher, A. From soil to printed structures: A systematic approach to designing clay-based materials for 3D printing in construction and architecture. *Construction and Building Materials*, 408, 133783.
- ASTM International. (2005). Standard Test Method for Unconfined Compressive Strength of Cohesive Soil (ASTM D2166-00e1). Diakses pada <https://www.astm.org>
- ASTM International. (2023). Standard Test Method for Flexural Strength of Advanced Ceramics at Ambient Temperature (ASTM C1161-18). Diakses pada <https://www.astm.org>

- Awad, M. E., López-Galindo, A., Setti, M., El-Rahmany, M. M., & Iborra, C. V. (2017). Kaolinite in Pharmaceutics and Biomedicine. *International Journal of Pharmaceutics*, 533(1), 34- 48.
<https://doi.org/10.1016/j.ijpharm.2017.09.056>
- Bergaya, F., Theng, B. K. G., & Lagaly, G. (Eds.). (2006). *Handbook of Clay Science*. Developments in Clay Science Series (Vol. 1, pp. xxi + 1224). Amsterdam: Elsevier. ISBN 0-08-044183-1.
- Bezzi, F., Fabbri, P., Magnani, G., Salernitano, E., Scafè, M., & Strafella, A. (2022). Aqueous aluminium titanate paste for the liquid deposition modelling. *Open Ceramics*, 9, 100224. <https://doi.org/10.1016/j.oceram.2022.100224>
- Brindley, G., & Nakahira, M. (1959). The kaolinite-mullite reaction series: II, metakaolin. *Journal of the American Ceramic Society*, 42(7), 314–318.
<https://doi.org/10.1111/j.1151-2916.1959.tb14315.x>
- Chung, D. D. L. (2002). Review graphite. *Journal of Materials Science*, 37(2002), 1475–1489. <https://doi.org/10.1023/A:1014915307738>
- Fadlurrahman, Z., Alandro, D., Santos, G. N. C., & Muflikhun, M. A. (2023). Mechanical and chemical properties of matrix composite: Curing agent ratio, degassing process, and filler effect perspectives. *Journal of Engineering Research*, 11, 489-498.
- Girão, A. V., Caputo, G., & Ferro, M. C. (2017). Application of scanning electron microscopy–energy dispersive X-ray spectroscopy (SEM–EDS). In *Comprehensive Analytical Chemistry*. Elsevier.
- Gunasekaran, S., Sailatha, E., Seshadri, S., & Kumaresan, S. (2009). FTIR, FT Raman spectra and molecular structural confirmation of isoniazid. *Indian Journal of Pure & Applied Physics*, 47(January), 12–18.
- Hussain, M. I., Xia, M., Ren, X.-N., Ge, C., Zhao, Y., & Shen, Z. (2024). High-precision printing of intricately shaped kaolin ceramics by digital light processing: Impact of solid content on microstructure and densification. *Journal of Materials Research and Technology*, 30, 2299–2310.
<https://doi.org/10.1016/j.jmrt.2024.03.227>

- Husaini, M. N. F. (2018). *Pengaruh variasi persentase berat limbah velg dan piston Al-Si terhadap densitas, porositas, dan kekerasan coran pulley* (Skripsi, Universitas Brawijaya, Malang). Universitas Brawijaya.
- Jamo, H. U., & Abdu, S. G. (2014). Structural analysis and surface morphology of kaolin. *Science World Journal*, 9(3). ISSN 1597-6343.
- Jozanikohan, G., & Abarghooei, M. N. (2022). The Fourier transform infrared spectroscopy (FTIR) analysis for the clay mineralogy studies in a clastic reservoir. *Journal of Petroleum Exploration and Production Technology*, 12(4), 2093–2106. <https://doi.org/10.1007/s13202-021-01449-y>
- Kim, N.P., Cho, D., Zielewski, M., 2019. Optimization of 3D printing parameters of Screw Type Extrusion (STE) for ceramics using the Taguchi method. *Ceram. Int.* 45, 2351–2360. <https://doi.org/10.1016/j.ceramint.2018.10.152>
- Kuligiewicz, A., & Derkowski, A. (2017). Tightly bound water in smectites. *American Mineralogist*. <https://doi.org/10.2138/am-2017-5918>
- Lecomte-Nana, G. L., Bonnet, J. P., & Blanchart, P. (2011). Investigation of the sintering mechanisms of kaolin–muscovite. *Applied Clay Science*, 51(4), 445–451. <https://doi.org/10.1016/j.clay.2010.12.027>
- Liu, P., Huang, S. H., Mokasdar, A., Zhou, H., & Hou, L. (2014). The impact of additive manufacturing in the aircraft spare parts supply chain: Supply chain operation reference (SCOR) modelbased analysis. *Production Planning & Control*, 25(13-14), 1169–1181. <https://doi.org/10.1080/09537287.2013.808835>
- Matsushima, S., Kennedy, G. C., Akella, J. and Haygarth, J. (1967). A study of equilibrium relations in the systems Al₂O₃-SiO₂-H₂O and Al₂O₃·H₂O. *American Journal of Science*, 265(1), 28-44.
- Matteson, A., & Herron, M. M. (1993). Quantitative mineral analysis by Fourier transform infrared spectroscopy. In *SCA Conference* (No. 9308).
- Michler, G. H. (2008). *Electron microscopy of polymers*. Springer. <https://doi.org/10.1007/978-3-540-36352-1>
- Mohammed, A., & Abdullah, A. (2018). Scanning electron microscopy (SEM): A review. *Proceedings of 2018 International Conference on Hydraulics and*

Pneumatics - HERVEX, November 7-9, Băile Govora, Romania. ISSN 1454-8003.

- Nandiyanto, A. B. D., Ragadhita, R., & Fiandini, M. (2023). Interpretation of Fourier Transform Infrared Spectra (FTIR): A practical approach in the polymer/plastic thermal decomposition. *Indonesian Journal of Science and Technology*, 8(1), 113–126.
- Nurhary, M. A. (2023). *Evaluation of printing parameters for 3D printing of kaolin clay*. Undergraduate Thesis, Universitas Gadjah Mada, Faculty of Engineering, Department of Mechanical and Industrial Engineering.
- Nurrohmah, S. I. (2019). *Pengaruh thermal shock dan komposisi grafit, kaolin (clay) terhadap ketahanan impact dan struktur makro kow berbahan dasar limbah evaporation boats*. Skripsi, Universitas Negeri Semarang, Fakultas Teknik, Jurusan Teknik Mesin.
- Palaganas, J. O., Palaganas, N. B., Ramos, L. J. I., & David, C. P. C. (2019). 3D Printing of Covalent Functionalized Graphene Oxide Nanocomposite via Stereolithography. *ACS Applied Materials and Interfaces*, 11(49), 46034–46043. <https://doi.org/10.1021/acsami.9b12071>
- Pane, F. P., Tanudjaja, H., & Windah, R. S. (2015). Pengujian kuat tarik lentur beton dengan variasi kuat tekan beton. *Jurnal Sipil Statik*, 3(5), 313–321.
- Perdana, P. N., Armeliza, D., Khairunnisa, H., & Nasution, H. (2023). Research Data Processing Through Structural Equation Model-Partial Least Square (SEM-PLS) Method. *Jurnal Pemberdayaan Masyarakat Madani*, 7(1), 44–50. Retrieved from <http://journal.unj.ac.id/unj/index.php/jpm/index>
- Purnamasari, E., Fathurrahman, F., & Alfatari, F. (2023). Pengaruh variasi penambahan limbah pecahan keramik terhadap kuat tekan beton. *Jurnal Teknologi Terpadu*, 11(1).
- Raturandang, R., Wenas, D. R., Mongan, S., & Bujung, C. (2022). Analisis spektroskopi FTIR untuk karakterisasi kimia fisik fluida mata air panas di kawasan wisata hutan pinus Tomohon Sulawesi Utara. *Jurnal FiSta: Fisika dan Terapannya*, 3(1), 28–33. E-ISSN: 2747-1691.

- Rayna, T., & Striukova, L. (2016). From rapid prototyping to home fabrication: How 3D printing is changing business model innovation. *Technological Forecasting and Social Change*, 102, 214–224.
- Revelo, C. F., & Colorado, H. A. (2019). 3D printing of kaolinite clay with small additions of lime, fly ash and talc ceramic powders. *Processing and Application of Ceramics*, 13(3), 287-299.
- Rohman, A., & Che Man, Y. B. (2012). The chemometrics approach applied to FTIR spectral data for the analysis of rice bran oil in extra virgin olive oil. *Chemometrics and Intelligent Laboratory Systems*, 110, 129–134. <https://doi.org/10.1016/j.chemolab.2011.10.008>
- Rosenthal, M., Henneberger, C., Gutkes, A., & Bues, C. T. (2017). Liquid deposition modeling: A promising approach for 3D printing of wood. *European Journal of Wood and Wood Products*, 76(6), 797–799. <https://doi.org/10.1007/s00107-017-1274-8>
- Ruscitti, A., Tapié, C., & Rendtorff, N. M. (2020). A review on additive manufacturing of ceramic materials based on extrusion processes of clay pastes. *Cerâmica*, 66(380), 354–366. <https://doi.org/10.1590/0366-69132020663802918>
- Sampebulu, V., Nasruddin, & Mushar, P. (Tahun). Kuat tekan beton antara metode destructive test dan non-destructive test pada beton ringan berbahan fly ash atau slag. *Jurnal Lingkungan Binaan Indonesia*, 7(2), 107–110. <https://doi.org/10.32315/jlbi.7.2.107>
- 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(3), 583. <https://doi.org/10.3390/ma15020583>
- Saptono, M. P., & Fuad, R. P. (2020). Prototype rancangan printer 3D dengan smart LCD berbasis Arduino Mega 2560 menggunakan teknologi fused filament fabrication. *Jurnal Elektro Luceat*, 6(1), Juli.

- Seprianto, D., Oktora, A., Zamheri, A., & Wilza, R. (2021). Pengaruh diameter nozzle dan tebal layer terhadap ketelitian objek printer 3D. *Jurnal Teknik Mesin, 14*(1), 40–46. Diakses dari <http://ejournal2.pnp.ac.id/index.php/jtm>
- Syakir, N., Nurlina, R., Anam, S., Aprilia, A., Hidayat, S., & Fitrilawati, F. (2015). Kajian pembuatan oksida grafit untuk produksi oksida grafena dalam jumlah besar. *Jurnal Fisika Indonesia, 55*(XIX), 26. ISSN: 1410-2994.
- Talaat, A., Emad, A., Tarek, A., Masbouba, M., Essam, A., & Kohail, M. (2021). Factors affecting the results of concrete compression testing: A review. *Ain Shams Engineering Journal, 12*, 205–221.
- Valášková, M., Blahůšková, V., & Vlček, J. (2021). Effects of kaolin additives in fly ash on sintering and properties of mullite ceramics. *Minerals, 11*(8), 887. <https://doi.org/10.3390/min11080887>
- Yusuf, M. O. (2022). Bond characterization in cementitious material binders using Fourier-transform infrared spectroscopy. *Applied Sciences, 12*(9), 4512. <https://doi.org/10.3390/app12094512>
- Zhang, H., Yang, Y., Ren, D., Wang, L., & He, X. (2021). Graphite as anode materials: Fundamental mechanism, recent progress and advances. *Energy Storage Materials, 36*, 147–170. <https://doi.org/10.1016/j.ensm.2020.12.012>
- Zhou, W., & Wang, Z. L. (Eds.). (2006). *Scanning microscopy for nanotechnology: Techniques and applications*. Springer. <https://doi.org/10.1007/978-0-387-39620-0>