

## DAFTAR PUSTAKA

- Agung Nur Wibowo, F., & Saleh, R. (2024). Tinjauan Literatur: Studi Tentang Energi Fraktur Pada Beton Struktural Mutu Rendah Dengan Pendekatan Metode Three-Point Bending Test. *Prosiding Seminar Pendidikan Kejuruan Dan Teknik Sipil (E-Journal)*, 1(September 2023), 2023.
- Amarender, R., & Rayana, H. (2024). Study on the Molarity Effect of Sodium Hydroxide on Geopolymer Concrete incorporating Nanosilica. *Journal of Physics: Conference Series*, 2779(1). <https://doi.org/10.1088/1742-6596/2779/1/012040>
- Antoni, A., Shenjaya, S. D., Lupita, M., Santosa, S., Wiyono, D., & Hardjito, D. (2020). Utilization of low sulfur fly ash from circulating fluidized bed combustion burner as geopolymer binder. *Civil Engineering Dimension*, 22(2), 94–100. <https://doi.org/10.9744/ced.22.2.93-97>
- Asrol, A., M. Saleh, S., & Isya, M. (2018). Karakteristik Campuran Aspal Beton Ac-Wc Dengan Substitusi Buton Rock Asphalt Terhadap Rendaman Air Berlumpur. *Jurnal Arsip Rekayasa Sipil Dan Perencanaan*, 1(3), 39–45. <https://doi.org/10.24815/jarsp.v1i3.11760>
- Barraza, M. T., Junior, L. U. D. T., Alexandre, J., de Castro Xavier, G., Carneiro, J. C., Henrique da Silva, L. G. C., & de Azevedo, A. R. G. (2024). Characterization of port dredging waste for potential used as incorporation on materials for civil construction: A case study in Brazil. *Journal of Materials Research and Technology*, 32(August), 4379–4386. <https://doi.org/10.1016/j.jmrt.2024.09.023>
- Bawono, D., & Muin, R. B. (2024). Efek Molaritas Aktivator (NaOH) pada Beton Geopolymer dengan Bahan Pengikat Limbah Fly ash PLTU Lontar. *Cantilever: Jurnal Penelitian Dan Kajian Bidang Teknik Sipil*, 12(2), 111–120. <https://doi.org/10.35139/cantilever.v12i2.253>
- Bhairappanavar, S., Liu, R., & Shakoor, A. (2021). Eco-friendly dredged material-cement bricks. *Construction and Building Materials*, 271(xxxx), 121524. <https://doi.org/10.1016/j.conbuildmat.2020.121524>
- Chompoorat, T., Likitlersuang, S., Sitthiawiruth, S., Komolvilas, V., Jamsawang, P., & Jongpradist, P. (2021). Mechanical properties and microstructures of stabilised dredged expansive soil from coal mine. *Geomechanics and Engineering*, 25(2), 143–157. <https://doi.org/10.12989/gae.2021.25.2.143>
- Cong, P., & Cheng, Y. (2021). Advances in geopolymer materials: A comprehensive review. *Journal of Traffic and Transportation Engineering (English Edition)*, 8(3), 283–314. <https://doi.org/10.1016/j.jtte.2021.03.004>

- Direktorat Jenderal Bina Marga. (2018). Spesifikasi Umum Bina Marga Tahun 2018 (Revisi 2) Untuk Pekerjaan Konstruksi Jalan Dan Jembatan. *Edaran Dirjen Bina Marga Nomor 02/SE/Db/2018, Revisi 2*, 1–1036.
- Duxson, P., Fernández-Jiménez, A., Provis, J. L., Lukey, G. C., Palomo, A., & Van Deventer, J. S. J. (2007). Geopolymer technology: The current state of the art. *Journal of Materials Science*, 42(9), 2917–2933. <https://doi.org/10.1007/s10853-006-0637-z>
- Fernández-Jiménez, A., & Palomo, A. (2005). Mid-infrared spectroscopic studies of alkali-activated fly ash structure. *Microporous and Mesoporous Materials*, 86(1–3), 207–214. <https://doi.org/10.1016/j.micromeso.2005.05.057>
- Herwani, Pane, I., Imran, I., & Budiono, B. (2018). Compressive Strength of Fly ash-based Geopolymer Concrete with a Variable of Sodium Hydroxide (NaOH) Solution Molarity. *MATEC Web of Conferences*, 147, 1–5. <https://doi.org/10.1051/mateconf/201814701004>
- Hosseini, S., Brake, N. A., Nikookar, M., Günaydın-Şen, Ö., & Snyder, H. A. (2021). Enhanced strength and microstructure of dredged clay sediment-fly ash geopolymer by mechanochemical activation. *Construction and Building Materials*, 301, 123984. <https://doi.org/10.1016/j.conbuildmat.2021.123984>
- Kenne Dikko, B. B., Elimbi, A., Cyr, M., Dika Manga, J., & Tchakoute Kouamo, H. (2015). Effect of the rate of calcination of kaolin on the properties of metakaolin-based geopolymers. *Journal of Asian Ceramic Societies*, 3(1), 130–138. <https://doi.org/10.1016/j.jascers.2014.12.003>
- Khalilpour, S., BaniAsad, E., & Dehestani, M. (2019). A review on concrete fracture energy and effective parameters. *Cement and Concrete Research*, 120(January), 294–321. <https://doi.org/10.1016/j.cemconres.2019.03.013>
- Lahoti, M., Wong, K. K., Tan, K. H., & Yang, E. H. (2018). Effect of alkali cation type on strength endurance of fly ash geopolymers subject to high temperature exposure. *Materials and Design*, 154, 8–19. <https://doi.org/10.1016/j.matdes.2018.05.023>
- Latif, M., Pamungkas, W. G., & Purnijanto, B. (2021). 3714-12523-1-Pb. 16(2), 58–63.
- Lirer, S., Liguori, B., Capasso, I., Flora, A., & Caputo, D. (2017). Mechanical and chemical properties of composite materials made of dredged sediments in a fly-ash based geopolymer. *Journal of Environmental Management*, 191, 1–7. <https://doi.org/10.1016/j.jenvman.2017.01.001>
- Mahfoud, E., Ndiaye, K., Maherzi, W., Aggoun, S., Benzerzour, M., & Abriak, N. E. (2023). Mechanical properties and shrinkage performance of one-part-

geopolymer based on *fly ash* and micronized dredged sediments. *Developments in the Built Environment*, 16(October), 100253. <https://doi.org/10.1016/j.dibe.2023.100253>

Marathe, S., L, D. P., & Sadowski, Ł. (2024). Engineering of alkali-activated permeable pavement composites with agro-industrial wastes. *International Journal of Pavement Engineering*, 1–17. <https://doi.org/10.1080/10298436.2024.2431600>

*No Title*. (2021). 7(2), 140–146.

Powder, G., Ash, F. L. Y., Abriantoro, A. P., Ronald, M., & Simanjuntak, A. (2025). *THE EFFECT OF ALKALI ACTIVATOR MOLARITY ON THE MECHANICAL*. 14, 39–49. <https://doi.org/10.21009/jpensil.v14i1.50676>

Priastiwi, Y. A., Hidayat, A., Husna, K., & Putriagsari, F. N. (2023). Comparative Study of Mechanical Properties of PPC Mortar and Geopolymer Mortar with NaOH Activator in Seawater Soaking. *Media Komunikasi Teknik Sipil*, 29(1), 40–50. <https://doi.org/10.14710/mkts.v29i1.54344>

Rijulvita, S., Thamrin, Suprayogi, I., & Edyanus. (2023). Strategi Pengelolaan Sampah Pelabuhan Berkelanjutan (Ecoport) Di Pelabuhan. *Jurnal Medika Utama*, 04, 3199–3207.

Rozi, M. F., Johannes Tarigan, & Ahmad Perwira. (2020). Analisis Sifat Mekanik Beton Geopolymer Berbahan Dasar *Fly ash* PLTU Pangkalan Susu. *Jurnal Health Sains*, 1(5), 567–579. <https://doi.org/10.46799/jsa.v1i5.82>

Shill, S. K., Al-Deen, S., Ashraf, M., & Hutchison, W. (2020). Resistance of *fly ash* based geopolymer mortar to both chemicals and high thermal cycles simultaneously. *Construction and Building Materials*, 239, 117886. <https://doi.org/10.1016/j.conbuildmat.2019.117886>

Silitonga, E. (2016). *Hasil Pekerjaan Pengerukan*. 2(Cd), 50–58.

Slimanou, H., Bouguermouh, K., & Bouzidi, N. (2019). Synthesis of geopolymers based on dredged sediment in calcined and uncalcined states. *Materials Letters*, 251, 188–191. <https://doi.org/10.1016/j.matlet.2019.05.070>

Solanki, P., Jain, B., Hu, X., & Sancheti, G. (2023). A Review of Beneficial Use and Management of Dredged Material. *Waste*, 1(3), 815–840. <https://doi.org/10.3390/waste1030048>

Sore, S. O., Messan, A., Prud'Homme, E., Escadeillas, G., & Tsohnang, F. (2020). Comparative Study on Geopolymer Binders Based on Two Alkaline Solutions (NaOH and KOH). *Journal of Minerals and Materials Characterization and Engineering*, 08(06), 407–420. <https://doi.org/10.4236/jmmce.2020.86026>

- Sri Dewi, P. O., Puspitasari, E., & Jannah, R. M. (2022). Penentuan Job Mix Formula Lapis AC-WC Dengan Memanfaatkan Aspal Daur Ulang. *Reviews in Civil Engineering*, 6(1), 1. <https://doi.org/10.31002/rice.v6i1.5754>
- Sukirman, S. (2016). Beton Aspal Campuran Panas. In *Institut Teknologi Nasional*.
- Syaputra, D. A., Nugroho, F. R., Ay Lie, H., & Purwanto. (2018). Studi Experimental Pengaruh Perbedaan Molaritas Aktivator Pada Perilaku Beton Geopolimer Berbahan Dasar *Fly ash*. *Jurnal Karya Teknik Sipil*, 7(1), 89–98.
- Tajudin, A. N., & Suparma, L. B. (2017). Pengaruh Rendaman pada Indirect Tensile Strength Campuran AC-BC dengan Limbah Plastik sebagai Agregat Pengganti. *Media Komunikasi Teknik Sipil*, 23(2), 166. <https://doi.org/10.14710/mkts.v23i2.16128>
- Yoobanpot, N., Jamsawang, P., Poorahong, H., Jongpradist, P., & Likitlersuang, S. (2020). Multiscale laboratory investigation of the mechanical and microstructural properties of dredged sediments stabilized with cement and *fly ash*. *Engineering Geology*, 267(July 2019), 105491. <https://doi.org/10.1016/j.enggeo.2020.105491>
- Zhang, D. W., Wang, D. min, Liu, Z., & Xie, F. zhu. (2018). Rheology, agglomerate structure, and particle shape of fresh geopolymer pastes with different NaOH activators content. *Construction and Building Materials*, 187, 674–680. <https://doi.org/10.1016/j.conbuildmat.2018.07.205>
- Zouch, A., Mamindy-Pajany, Y., Bouchikhi, A., Abriak, N. E., & Ksibi, M. (2022). Valorization of marine sediments in geopolymer mortars: physico-mechanical, microstructural and environmental investigations at laboratory scale. *Journal of Material Cycles and Waste Management*, 24(3), 1109–1123. <https://doi.org/10.1007/s10163-022-01382-0>