

DAFTAR PUSTAKA

- Ahmed, K. , Jiang, X. , Ashraf, G. , & Qiang, X. (2025). Freeze–thaw recycling for fiber–resin separation in retired wind blades. *Communications Engineering*, 4(1). <https://doi.org/10.1038/s44172-025-00490-7>
- Akbar, A. F. , Sentosa, K. A. R. , & Fauziyah, S. (2023). *Jurnal Sipil dan Arsitektur Pemanfaatan limbah kertas semen, serat bambu, dan serat fiber sebagai bahan tambah pembuatan plafon gypsum* (Vol. 1, Number 3). <https://ejournal3.undip.ac.id/index.php/pilars>
- Al-Lami, M. (2021). Correlation between permeability and porosity with other properties of concrete. *Journal of Applied Engineering Science*, 19(2), 538–546. <https://doi.org/10.5937/jaes0-27267>
- Ambarwati, J. P. (2024). *Gambaran Kondisi Fisik Rumah di Desa Negeri Sakti Kecamatan Gedon Tataan Kabupaten Pesawaran Tahun 2024 (Doctoral dissertation, Poltekkes Kemenkes Tanjungkarang)*.
- Arsal, R. F. , Rivaldy, M. D. , Hartono, H. , & Fauziyah, S. (2024). *Pemanfaatan Limbah Kertas (Pulp) dan Serat Batang Pisang Menjadi Campuran Bahan Pembuatan Asbes Plafon Ramah Lingkungan. Jurnal Sipil dan Arsitektur*, 2(1), 1-11.
- Arsasuta, F., & Rochmah, N. (2024). *Pengaruh Serbuk Kaca Sebagai Substitusi Parsial Semen terhadap Kuat Tekan Beton Alir. Jurnal Teknik Sipil dan Teknologi Konstruksi*, 10(1), 12-23.
- Aruchamy, V., Subramaniyan, Y., Viswanathan, R., & Manoharan, A. (2024). Improving durability and mechanical features of silica fume and waste glass powder in eco-friendly self-compacting concrete. *Revista Materia*, 29(2). <https://doi.org/10.1590/1517-7076-RMAT-2024-0072>
- Asres, M. A. , Zerayohannes, G. , Zekaria, A. , & Addissie Nuramo, D. (2026). Bamboo Fiber Impact on the Long-Term Mechanical Properties of Concrete. *Journal of Natural Fibers*, 23(1). <https://doi.org/10.1080/15440478.2025.2609334>
- Ate, D. T. (2024). Analisis kelayakan pasir Gunung Bokong di Desa Milli Kecamatan Toianas Kabupaten Timor Tengah Selatan untuk pembuatan mortar = Feasibility analysis of Bokong Mountain sand in Milli Village Toianas Sub-district South Central Timor District for mortar production. In *Jurnal Batakarang* (Vol. 5, Number 1a).

- Atiyah, I. K. , Asker, W. A. , Talib, R. N. , & Hussein, E. K. (2024). Investigation of the Mechanical Response of a Fabric-Reinforced Composite Beam with a T-Shaped Profile during a Three-Point Bending Test by Employing FEM. *Journal of Advanced Research in Fluid Mechanics and Thermal Sciences*, 119(2), 23–31. <https://doi.org/10.37934/arfmts.119.2.2331>
- Bakri, S., Abdullah, M. A., Juradi, M. I., & Nurhawaisyah, S. R. (2024). STUDI PEMISAHAN SiO₂ PADA PASIR SILIKA MENGGUNAKAN SHAKING TABLE. *Jurnal Inovasi Pertambangan Dan Lingkungan*, 3(2), 85–91. <https://doi.org/10.15408/jipl.v3i2.34225>
- Bartos, P. J. M. (2017). Glassfibre Reinforced Concrete: A Review. *IOP Conference Series: Materials Science and Engineering*, 246(1). <https://doi.org/10.1088/1757-899X/246/1/012002>
- Buddhacosa, N., Thevakumar, T., Loh, T., Zhang, X., Joseph, P., Setunge, S., Kandare, E., & Robert, D. (2025). Thermal degradation, fire performance and combustibility of ceramified composites incorporating waste glass for sustainable building applications. *Journal of Building Engineering*, 113. <https://doi.org/10.1016/j.jobbe.2025.114198>
- Chen, B., Zhu, H., Li, B., Sham, M., & Li, Z. (2020). Study on the fire resistance performance of cementitious composites containing recycled glass cullets (RGCs). *Construction and Building Materials*, 242. <https://doi.org/10.1016/j.conbuildmat.2019.117992>
- Hadibroto, B., & Ronitua, S. (2018). Perbaikan dan Perkuatan Bangunan Sederhana Akibat Gempa. In *JURNAL EDUCATION BUILDING* (Vol. 4, Number 1). http://id.wikipedia.org/wiki/Gempa_bumi
- Hermawan, F. , Sejati, W. , Zaki, M. , & Karista, A. J. (2022). Estimasi Perbandingan Pekerjaan Dinding Panel GRC Dan Bata Ringan Untuk Partisi Ruangan. *SAINSTEK*, 10(2), 200-205. *Jalan Kyai Tapai*, 10(2). <https://doi.org/10.35583/js.v10i2.161>
- Hu, Y., & Yang, H. (2021). Simulation analysis of SnAgCu brazed joints based on ANSYS-workbench. *Journal of Physics: Conference Series*, 2026(1). <https://doi.org/10.1088/1742-6596/2026/1/012056>
- Kaźmierowski, M., Siemiginowski, M., Kordasz, M., & Drzazga, M. (2026). Compressive deformability and flexural fracture energy of high-strength concrete with bamboo fibers. *Scientific Reports*, 16(1). <https://doi.org/10.1038/s41598-026-48624-x>

- Kuncoro, H. B. B. , Darwis, Z. , & Rahmat, A. A. (2021). *Studi Eksperimental pengaruh abu sekam padi terhadap sifat mekanik beton serat bambu. Fondasi: jurnal teknik sipil*, 10(2), 134-143.
- Lalinde, L. P. , Mellado, A. , Borrachero, M., Monzó, J. , & Payá, J. (2022). Durability of Glass Fiber Reinforced Cement (GRC) Containing a High Proportion of Pozzolans. *Applied Sciences (Switzerland)*, 12(7). <https://doi.org/10.3390/app12073696>
- Liang, Y., Dai, W., & Chen, W. (2023). Experimental Evaluation of Compressive Strength and Gas Permeability of Glass-Powder-Containing Mortar. *Fluid Dynamics and Materials Processing*, 19(10), 2639–2659. <https://doi.org/10.32604/fdmp.2023.027622>
- Liu, C. , Yu, D. , & Chen, X. . (2019). Simulation implementation on the direction prediction of crack propagation based on the first principal stress. *Key Engineering Materials*, 795, 361–366. <https://doi.org/10.4028/www.scientific.net/KEM.795.361>
- Liu, D., Song, J., Anderson, D. P., Chang, P. R., & Hua, Y. (2012). Bamboo fiber and its reinforced composites: Structure and properties. In *Cellulose* (Vol. 19, Number 5, pp. 1449–1480). <https://doi.org/10.1007/s10570-012-9741-1>
- Lu, J. X., & Poon, C. S. (2018). Use of waste glass in alkali activated cement mortar. *Construction and Building Materials*, 160, 399–407. <https://doi.org/10.1016/j.conbuildmat.2017.11.080>
- Maharani, D., & Patria, R. (2025). *Analisis Kuat Bambu Petung Sebagai Tulangan Beton Strength Analysis of Petung Bamboo as Concrete Reinforcement*.
- Maryanah, T., & Muflihah, L. (2025). Mitigasi Perubahan Iklim Melalui Pengelolaan Limbah Cair Rumah Tangga untuk Pembangunan Berkelanjutan. *Sarwahita*, 22(02), 133–145. <https://doi.org/10.21009/sarwahita.222.2>
- Mufti, D. , Edwar, R. C. , Munifa, M. , Ridwan, A. , Amin, M. , & Harju, L. M. (2025). *Pengembangan Solusi Ramah Lingkungan melalui Pembuatan Bak Sampah Bambu untuk Masyarakat. COMSEP Jurnal Pengabdian Kepada Masyarakat*, 6(2), 1.
- Oktaviani, S., & Puryanti, D. (2020). Pengaruh Penambahan Serat Daun Nanas terhadap Sifat Fisis dan Mekanik Papan Semen Gypsum. *Jurnal Fisika Unand*, 9(1), 31–37. <https://doi.org/10.25077/jfu.9.1.31-37.2020>

- Panennungi, P. , & Pertiwi, N. (2018). *Ilmu Bahan Bangunan*.
- Puja, T. A. , Sidabutar, Y. F. , & Room, A. I. (2025). *Inovasi material sebagai solusi konstruksi hijau: studi kasus pemanfaatan limbah industri sebagai bahan bangunan. ZONA SIPIL: Jurnal Ilmiah, Volume 15 Nomor 2 Tahun 2025, Program Studi S1 Teknik Sipil Universitas Batam*.
- Rahmadi, M. . R., & Adil, M. N. (2024). Pemanfaatan limbah bambu dan ampas tebu sebagai campuran substitusi serat dalam pembuatan plafon grc (glassfibre reinforced cement). *Jurnal Proyek Teknik Sipil Journal of Civil Engineering Project*, 48(2), 48–56. <https://ejournal2.undip.ac.id/index.php/potensi>
- Raydan, R., Khatib, J., Jahami, A., El Hamoui, A. K., & Chamseddine, F. (2022). Prediction of the mechanical strength of concrete containing glass powder as partial cement replacement material. In *Innovative Infrastructure Solutions* (Vol. 7, Number 5). Springer Science and Business Media Deutschland GmbH. <https://doi.org/10.1007/s41062-022-00896-8>
- Refandri, M. I. (2023). *Pengaruh Penambahan Serbuk Kaca Sebagai Substitusi Parsial Semen Terhadap Kuat Tekan, Ketahanan Aus, Dan Penyerapan Air Pada Paving Block (The Effect Of Adding A Glass Powder As A Partial Cement Subs*.
- Ririn K.H., & Victoria R.L. (2024). *Penggunaan serat pelepah pisang dan serat sabut kelapa pada upaya peningkatan mutu plafon dengan perekat lateks (Undergraduate thesis, Universitas Diponegoro)*.
- Rocha, D. L., Júnior, L. U. D. T., Marvila, M. T., Pereira, E. C., Souza, D., & de Azevedo, A. R. G. (2022). A Review of the Use of Natural Fibers in Cement Composites: Concepts, Applications and Brazilian History. In *Polymers* (Vol. 14, Number 10). MDPI. <https://doi.org/10.3390/polym14102043>
- Ruru, E. K. (2025). *Inovasi Pengawetan Tulangan Bambu Menggunakan Asam Sulfat untuk Meningkatkan Kinerja Balok Beton Berkelanjutan (Doctoral dissertation, Universitas Kristen Indonesia Toraja)*.
- Sandika, F. G., Desimalianana, E., & Shima, D. R. (2025). *RekaRacana: Jurnal Teknik Sipil Pemanfaatan Limbah Kaca Sebagai Substitusi Filler Dalam Campuran Mortar Geopolimer*. <https://doi.org/10.26760/rekaracana.v10i2>

- Santhosh, S. N. S., Syed, Z., Joshi, P. V., Thotakuri, M., Yelamasetti, B., & Morampudi, P. (2025). Validation of 3-Point Bending Strength of PETG Material Printed via FDM Using FEA. *E3S Web of Conferences*, 648. <https://doi.org/10.1051/e3sconf/202564801005>
- Setiahutama, H. I. (2022). *Pemanfaatan Serbuk Kaca Sebagai Substitusi Parsial Semen Terhadap Beton Normal (The Use Of Glass Powder As A Partial Substitution On Concrete)*.
- Shettigar, S., Gowrishankar, M. C., & Shettar, M. (2025). Review on Aging Behavior and Durability Enhancement of Bamboo Fiber-Reinforced Polymer Composites. In *Molecules* (Vol. 30, Number 15). Multidisciplinary Digital Publishing Institute (MDPI). <https://doi.org/10.3390/molecules30153062>
- Sihotang, R. , Suherlan, B. M. , & Rahmawaty, D. (2021). *Analisis Perbandingan Penggunaan Gypsum, Grc, Acp, Panel Anyaman Rotan Sintetis Dalam Interior Rumah Dan Gedung. Jurnal Rekayasa Teknologi Nusa Putra*, 7(2), 43-54.
- Sofyan, S. , & Sarana, D. (2022). *Studi Eksperimental Kuat Lentur Beton Serat Sisal. Jurnal Rekayasa Konstruksi Mekanika Sipil*, 5(1), 23-29.
- Sufry, M. M. R. (2025). *Pengaruh kekuatan mekanis dan termal pada matriks resin FRP (flame retardant polyester) dengan penambahan MEK-P (metil ethyl keton peroxide) = Effect of mechanical and thermal strength on FRP (flame retardant polyester) resin matrix with the addition of MEK-P (metyl ethyl ketone peroxide) (Doctoral dissertation, Universitas Hasanuddin)*.
- Suladjarka, S., Nugroho, S., & Ismail, R. (2020). Peningkatan Kekuatan Sifat Mekanis Komposit Serat Alam menggunakan Serat Enceng Gondok (Tinjauan Pustaka). *TEKNIK*, 41(1), 27–39. <https://doi.org/10.14710/teknik.v41n1.23473>
- Umiyati. (2021). Motif Plafon Analogi Alam. *Sigma Teknika*, 4(1), 138–144.
- Wahyuni, A., Nadhil Edar, A., & Selatan, S. (2021). *Pengaruh Plafon Terhadap Tingkat Kenyamanan Penghuni Rumah Tinggal*.
- Xu, W., Yao, J., Wang, T., Wang, F., Li, J., Gong, Y., Zhang, Y., Wu, J., Sun, M., & Han, L. (2024). Study on the Correlation Between Mechanical Properties, Water Absorption, and Bulk Density of PVA Fiber-Reinforced Cement

Matrix Composites. *Buildings*, 14(11).
<https://doi.org/10.3390/buildings14113580>

Yi, S., Liu, Y. C., & Yao, S. Z. (2014). Finite element analysis of material mechanics experiment. *Applied Mechanics and Materials*, 494–495, 277–280. <https://doi.org/10.4028/www.scientific.net/AMM.494-495.277>

Zahra, F. , Ega, B. D. , Fauziyah, S. , & Mahfuda, A. (2026). Water Hyacinth Fiber and Glass Powder in Eco-Based GRC Ceiling Production. *Rekayasa Sipil*, 20(2), 123–133. <https://doi.org/10.21776/ub.rekayasisipil.2026.020.02.1>

Zhou, D., Fan, P., & Wu, Z. (2024). Study on combustion characteristics and flame retardants of bamboo powder. *Journal of Thermal Analysis and Calorimetry*, 149(2), 625–636. <https://doi.org/10.1007/s10973-023-12664-6>