

DAFTAR PUSTAKA

- ACI Committee 226. 1989. *Use of Fly Ash in Concrete*.
- ASTM International. (2003). ASTM C 33. *Standard Specification for Concrete Aggregates*. United States: ASTM Internasional.
- Alsharef, J.M.A., Taha, M.R. dan Khan, T.A. (2017) “Physical Dispersion of Nanocarbons in,” 5(June), hal. 69–81.
- Babak, F. dkk. (2014) “Preparation and mechanical properties of graphene oxide: Cement nanocomposites,” *The Scientific World*, 2014(1), hal. 1–10. Tersedia pada: <https://doi.org/10.1155/2014/276323>.
- Cerro-prada, E., Pacheco-torres, R. dan Varela, F. (2021) “Effect of Multi-Walled Carbon Nanotubes on Strength and Electrical Properties of Cement Mortar,” *MDPI*, 14(1), hal. 1–13. Tersedia pada: <https://doi.org/10.3390/ma14010079>.
- Cui, H. dkk. (2016) “Fabrication of Polycarboxylate/Graphene Oxide Nanosheet Composites by Copolymerization for Reinforcing and Toughening Cement Composites,” *Cement and Concrete Composites*, 77(2017), hal. 1–8. Tersedia pada: <https://doi.org/10.1016/j.cemconcomp.2016.12.007>.
- Danial, N.S. dkk. (2019) “Graphene geopolymers hybrid: A review on mechanical properties and piezoelectric effect,” *IOP Conference Series: Materials Science and Engineering*, 572(1), hal. 1–9. Tersedia pada: <https://doi.org/10.1088/1757-899X/572/1/012038>.
- Davidotis, J. (1994) “Properties of Geopolymer Cements,” *First International Conference on Alkaline Cements and Concretes.*, (October 1994), hal. 131–149.
- Du, Y. dkk. (2020) “Hybrid graphene oxide/carbon nanotubes reinforced cement paste: An investigation on hybrid ratio,” *Construction and Building Materials*, 261. Tersedia pada: <https://doi.org/10.1016/j.conbuildmat.2020.119815>.
- Febrianto (2014) “Penelitian Kuat Tekan dan Berat Jenis Mortar Untuk Dinding Panel dengan Membandingkan Penggunaan Pasir Bangka dan Pasir

- Baturata dengan Tambahan Foaming Agent dan Silica Fume," *Jurnal Teknik Sipil, Universitas Sriwijaya*, 2(2), hal. 287–296.
- Gao, Y. dkk. (2021) "Studies on combined effects of graphene oxide-fly ash hybrid on the workability, mechanical performance and pore structures of cementitious grouting under high W/C ratio," *Construction and Building Materials*, 281, hal. 1–11. Tersedia pada: <https://doi.org/10.1016/j.conbuildmat.2021.122578>.
- Guo, J. dkk. (2022) "Strength Analysis of Cement Mortar with Carbon Nanotube Dispersion Based on Fractal Dimension of Pore Structure," *Fractal and Fractional*, 6(10), hal. 1–20. Tersedia pada: <https://doi.org/10.3390/fractalfract6100609>.
- Hamzaoui, R. dkk. (2012) "Optimal Carbon Nanotubes Concentration Incorporated In Mortar and Concrete," *Advanced Materials Research*, 587, hal. 107–110. Tersedia pada: <https://doi.org/10.4028/www.scientific.net/AMR.587.107>.
- Helwig, N.E., Hong, S. dan Hsiao-wecksler, E.T. (2017) "Nanomaterial," *Departemen Fisika*, hal. 10.
- Hu, S. dkk. (2020) "Modification effects of carbon nanotube dispersion on the mechanical properties, pore structure, and microstructure of cement mortar," *MDPI*, 13(5), hal. 1–15. Tersedia pada: <https://doi.org/10.3390/ma13051101>.
- Ikhsanto, jurusan teknik mesin L.N. (2020) *Analisis Pengaruh Pemanasan Awal Carbon Nanotube Terhadap Sifat Mekanik dan Keausan Aluminium Komposit Dalam Proses Stir Casting*. Universitas Hasanuddin.
- Jabbar, A. (2012) *Simulasi Dinamika Molekuler Adsorpsi Hidrogen Pada Carbon Nanotube Dengan Variasi Temperatur*. Universitas Indonesia.
- Kobra Gerani, H.R.M. dan Babak Mokhtarani (1994) "Enhancement in Performance of Sulfonated PES Cation Exchange Membrane by Introducing Pristine and Sulfonated Graphene Oxide Nanosheets Synthesized through Hummers and Staudenmaier Methods," *Taylor and Francis*, 56(5), hal. 543–555. Tersedia pada: <https://doi.org/https://doi.org/10.1080/03602559.2016.1233260>.

- Lee, H.S. dkk. (2018) “Durability performance of CNT and nanosilica admixed cement mortar,” *Construction and Building Materials*, 159, hal. 463–472.
- Liu, S. dkk. (2022) “Efficient Use of Graphene Oxide in Layered Cement Mortar,” *MDPI*, 15(6), hal. 1–20. Tersedia pada: <https://doi.org/10.3390/ma15062181>.
- Long, Z. dkk. (2022) “The Effects of Graphene Oxide-Silica Nano-Hybrid Materials on the Rheological Properties, Mechanical Properties, and Microstructure of Cement-Based Materials,” *MDPI*, 15(12), hal. 1–24. Tersedia pada: <https://doi.org/10.3390/ma15124207>.
- Malhotra, V. M. & Mehta, P. K. 2005. *High Performance, High-Volume Fly Ash Concrete: materials, mixture proportioning, properties, construction practice, and case histories.* , Ottawa, Canada, Supplementary Cementing Materials for Sustainable Development Inc., Ottawa Canada.
- Mulyono, Tri. (2004). Teknologi Beton. Yogyakarta, Andi Yogyakarta.
- Naibaho, A. dan Rahman, A. (2020) “Efek Penambahan Fly Ash Tipe C terhadap Kuat Tekan Mortar,” *Reka Buana : Jurnal Ilmiah Teknik Sipil dan Teknik Kimia*, 5(1), hal. 1–51. Tersedia pada: <https://doi.org/10.33366/rekabuana.v5i1.1612>.
- Nasional, B. S. (1990). SNI 03-1974-1990 Metode Pengujian Kuat Tekan Beton Nasional, Badan Standardisasi, 1990. SNI 03-1968-1990. Metode Pengujian Analisis Saringan Agregat Halus dan Kasar.
- Nasional, Badan Standarisasi, 1990a. SNI 03-1971-1990, Metode Pengujian Kadar Air Agregat. Jkt. Id Bsn.
- Nasional, B.S., 2002c. SNI 03-2847-2002: Tata Cara Perhitungan Struktur Beton Untuk Bangunan Gedung.
- Nasional, B.S., 1998. SNI 03-4804-1998.“. Metode Pengujian Bobot Isi dan Rongga Udara Dalam Agregat.
- Nasional, B.S., 2002a. SNI 03-6820-2002: Spesifikasi Agregat Halus Untuk Pekerjaan Adukan dan Plesteran dengan Bahan Dasar Semen.
- Nasional, Badan Standardisasi. 2000. SNI 03-6433-2000, “Metode Pengujian Kerapatan, Penyerapan dan Rongga Dalam Beton Yang Telah Mengeras”.

- Standar Nasional Indonesia (SNI).
- Nasional, B.S., 2002d. SNI 03-6825-2002: Metode Pengujian Kekuatan Tekan Mortar Semen Portland untuk Pekerjaan Sipil.
- Nasional, Badan Standarisasi, 2002. SNI 03-6882-2002, Spesifikasi Mortar Untuk Pekerjaan Pasangan, Badan Standarisasi Nasional.
- Nasional, B.S., 2004. SNI 15-2049-2004. Semen Portland.
- Nasional, B.S., 1991. SNI 15-2531-1991 Metode Pengujian Berat Jenis Semen Portland. Jkt. Badan Stand. Nas.
- Nasional, Badan Standardisasi, 2008. SNI 1970: 2008 Tentang Cara Uji Berat Jenis Dan Penyerapan Air Agregat Halus. Badan Standarisasi Nas. Jkt.
- Nasional, Badan Standardisasi. 2014. "SNI 2460:2014 Spesifikasi Abu Terbang Batubara Dan Pozolan Alam Mentah Atau Yang Telah Dikalsinasi Untuk Digunakan Dalam Beton." 16.
- Nasional, B.S., 2014. SNI 2461-2014.“. Spesifikasi Agregat Ringan Untuk Beton Strukt. Badan Standarisasi Nas. Jkt. 1–16.
- Nasional, Badan Standarisasi, 2014. SNI 6882-2014, Spesifikasi Mortar Untuk Pekerjaan Pasangan, Badan Standarisasi Nasional.
- Oner, A., Akyuz, S. dan Yildiz, R. (2005) "An experimental study on strength development of concrete containing fly ash and optimum usage of fly ash in concrete," *Cement and Concrete Research*, 35(6), hal. 1165–1171. Tersedia pada: <https://doi.org/10.1016/j.cemconres.2004.09.031>.
- Pesaralanka, V. dan Khed, V.C. (2020) "Materials Today : Proceedings Flowability and compressive strength test on self compacting mortar using graphene oxide," *Materials Today: Proceedings*, 33, hal. 491–495. Tersedia pada: <https://doi.org/10.1016/j.matpr.2020.05.067>.
- Rafitasari, Y. dkk. (2016) "Sintesis Graphene Oxide Dan Reduced Graphene Oxide," *Prosiding Seminar Nasional Fisika (E-Journal) SNF2016*, 5, hal. 1–5. Tersedia pada: <https://doi.org/10.21009/0305020218>.
- Rahman, A. (2014) *Pengaruh Penambahan Serat Roving Pada Mortar Semen*. Universitas Semarang.
- Rangan, P.R. dkk. (2020) "Mortar Geopolimer Abu Sekam Padi Berbahan Dasar

- Limbah Abu Batu Bara Hasil Pembakaran Asphalt Mixing Plant,” *Journal Dynamic Saint*, 5(1), hal. 927–938. Tersedia pada: <https://doi.org/10.47178/dynamicsaint.v5i1.961>.
- Rozi, M.F., Johannes Tarigan dan Ahmad Perwira (2020) “Analisis Sifat Mekanik Beton Geopolymer Berbahan Dasar Fly Ash PLTU Pangkalan Susu,” *Jurnal Health Sains*, 1(5), hal. 567–579. Tersedia pada: <https://doi.org/10.46799/jsa.v1i5.82>.
- Rozi, M.F. dan Tarigan, J. (2020) “Analisis Sifat Mekanik Beton Geopolymer Berbahan dasar Fly Ash PLTU Pangkalan Susu,” 1(5), hal. 567–579. Tersedia pada: <https://doi.org/10.46799/jsa.v1i5.82>.
- Senff, L. dkk. (2012) “Effect of nano-SiO₂ and nano-TiO₂ addition on the rheological behavior and the hardened properties of cement mortars,” *Materials Science and Engineering: A*, 532, hal. 354–361.
- Solikin, M. (2007) “Upaya Meningkatkan Performa High Volume Fly Ash Concrete Sebagai Bahan Konstruksi Ramah Lingkungan : Sebuah Kajian Literatur,” *Simpodium Nasional RAPI XI FT UMS*, hal. 132–138.
- Son, D.H. dkk. (2023) “Mechanical properties of mortar and concrete incorporated with concentrated graphene oxide, functionalized carbon nanotube, nano silica hybrid aqueous solution,” *Case Studies in Construction Materials*, 18, hal. 1–14. Tersedia pada: <https://doi.org/10.1016/j.cscm.2022.e01603>.
- Suryadi, P.A. (2011) *Kuat Tekan , Density , Absorpsi Dan Modulus Elastisitas Mortar Campuran Semen , Abu Sekam Padi Dan Precious Slag Ball Dengan Compressive Strength , Density , Absorption and Modulus of Elasticity Mortar Mixed Cement , Rise Husk Ash an*. Universitas Indonesia.
- Wang, Y., Yang, J. dan Ouyang, D. (2019) “Effect of graphene oxide on mechanical properties of cement mortar and its strengthening mechanism,” *Materials*, 12(22), hal. 1–18. Tersedia pada: <https://doi.org/10.3390/ma12223753>.
- Wesli, W., Akbar, S.J. dan Burhanuddin, B. (2021) “Studi Korelasi Faktor Air Semen (Water Cement Ratio) Dengan Kuat Tekan Beton Struktural,” *Teras Jurnal : Jurnal Teknik Sipil*, 1(1). Tersedia pada: <https://doi.org/10.29103/tj.v1i1.64>.

Widojoko Lilies (2010) “Pengaruh Sifat Kimia Semen Terhadap Unjuk Kerja Mortar Portland,” 1(1), hal. 52–59. Tersedia pada:
<https://doi.org/10.36448/jts.v1i1.255>.

Zuraidah, S. dan Hastono, B. (2018) “Pengaruh Variasi Komposisi Campuran Mortar Terhadap Kuat Tekan,” *Ge-STRAM: Jurnal Perencanaan dan Rekayasa Sipil*, 1(1), hal. 8–13. Tersedia pada:
<https://doi.org/10.25139/jprs.v1i1.801>.