

DAFTAR PUSTAKA

- [1] M. A. Samudro, “Perhitungan Kekuatan Mekanik Dari Pemanfaatan Limbah Aluminium Untuk Pembuatan Bracket Pada Mesin Tempel Kapal Patroli,” *INOVTEK Polbeng*, vol. 14, no. 02, pp. 216–227, 2024, doi: 10.35314/az3dd191.
- [2] R. I. Setiawan and S. Ramadhani, “Pengaplikasian Material Aluminium Composite Panel pada Perancangan Apartemen dan Soho di Kota Surabaya,” *J. Lingkung. Karya Arsit.*, vol. 2, no. 2, pp. 67–73, 2023, doi: 10.37477/lkr.v2i2.464.
- [3] M. R. Hasnat, M. K. Hassan, and S. Saha, “A Comprehensive Review of Aluminium Composite Panels: Current Research, Challenges, and Future Research Direction,” *J. Compos. Sci.*, vol. 9, no. 7, pp. 1–39, 2025, doi: 10.3390/jcs9070319.
- [4] D. Irnawan and B. Karomah, “Kajian Ukuran Serbuk Komposit Limbah Cangkang Telur Terhadap Ketangguhan Impak,” *J. Arsit. GRID-Journal Archit. Built Environ.*, vol. 1, no. 2, pp. 24–27, 2019.
- [5] L. Vinet and A. Zhedanov, “A ‘missing’ family of classical orthogonal polynomials,” *J. Phys. A Math. Theor.*, vol. 44, no. 8, 2011, doi: 10.1088/1751-8113/44/8/085201.
- [6] A. A. Sivakumar, S. Sankarapandian, S. Avudaiappan, and E. I. S. Flores, “Mechanical Behaviour and Impact of Various Fibres Embedded with Eggshell Powder Epoxy Resin Biocomposite,” *Materials (Basel)*, vol. 15, no. 24, 2022, doi: 10.3390/ma15249044.
- [7] A. F. Johari and D. T. Santoso, “Pengaruh Temperatur terhadap Pembuatan Papan Komposit Sekam Padi Berbasis Limbah HDPE menggunakan Metode Hot Press Agung Fahmi Johari dkk / Jurnal Rekayasa Mesin,” vol. 16, no. 1, pp. 17–24, 2021.
- [8] E. W. Rizal Hanifi, Marno, Kardiman, “Rancang bangun mesin hotpress untuk pembuatan papan komposit berbasis limbah sekam padi dan plastik hdpe,” *J. Infrastruct. Sci. Eng.*, vol. 2, no. 1, pp. 38–44, 2019.

- [9] Mardiyanto, "Analisa Pengujian Tarik Pipa Komposit Serat Batang Pisang Bermatrik Polyester Bqtn 157 Dengan Sudut Serat 650/-650 Pada Variasi Temperatur Ruang Uji," *Ilusi Senja*, p. 31, 2015.
- [10] S. Hastuti, H. S. Budiono, D. I. Ivadiyanto, and M. N. Nahar, "Peningkatan Sifat Mekanik Komposit Serat Alam Limbah Sabut Kelapa (Cocofiber) yang Biodegradable (Improvement Mechanical Properties of Biodegradable Cocofiber Waste Natural Fiber Composit) ARTICLE INFO ABSTRAK," *Reka Buana J. Ilm. Tek. Sipil dan Tek. Kim.*, vol. 6, no. 1, pp. 30–37, 2021, Available: <https://doi.org/10.33366/rekabuana.v6i1.2257>
- [11] A. E. Krauklis, C. W. Karl, A. I. Gagani, and J. K. Jørgensen, "Composite material recycling technology—state-of-the-art and sustainable development for the 2020s," *J. Compos. Sci.*, vol. 5, no. 1, 2021, doi: 10.3390/jcs5010028.
- [12] J. Fajrin, M. Eniarti, P. Pathurahman, A. Akmaluddin, and D. Murdiman, "Kuat Tarik Dan Lentur Komposit Epoksi/Serat Bambu Yang Dibuat Dengan Metode Hot-Press," *Pros. SAINTEK*, vol. 7, no. November 2024, pp. 194–201, 2025, doi: 10.29303/saintek.v7i1.3440.
- [13] I. Iskandar and H. Wahyudi, "Pengaruh Fraksi Volume dan Ukuran Partikel Cangkang Telur Ayam terhadap Kekuatan Impak Komposit Polyester," *Rotasi*, vol. 26, no. 1, pp. 21–27, 2024, doi: 10.14710/rotasi.26.1.21-27.
- [14] S. F. Hwang and M. Y. Wu, "Impact Damage of Aluminum-Composite Sandwich Panels and Constituents," *Materials (Basel)*, vol. 18, no. 9, 2025, doi: 10.3390/ma18092105.
- [15] D. R. K. Chandrappa and M. S. S. Kamath, "The Egg shell as a filler in composite materials - a review," *J. Mech. Energy Eng.*, vol. 4, no. 4, pp. 335–340, 2021, doi: 10.30464/jmee.2020.4.4.335.
- [16] A. A. Nayeeif, Z. K. Hamdan, Z. W. Metteb, F. A. Abdulla, and N. A. Jebur, "Natural filler based composite materials," *Arch. Mater. Sci. Eng.*, vol. 116, no. 1, pp. 5–13, 2022, doi: 10.5604/01.3001.0016.0972.
- [17] J. Teknika, "Analisis variasi ketebalan core komposit sandwich serbuk limbah tempurung kelapa terhadap sifat mekanik," vol. 7, no. April, pp. 21–27, 2021, DOI: 10.52561/teknika.v7il.121

- [18] W. T. Putra, Y. Winardi, and F. Kurniawan, "Pengaruh kekuatan tarik dan struktur mikro dari bahan campuran plastic waste jenis HDPE, PET dan serbuk kayu kelapa," *J. Tek. Juara Aktif Glob. Optimis*, vol. 2, no. 1, pp. 17–25, 2022, Available: doi: 10.53620/jtg.v2i1.54
- [19] I. P. Okokpujie and L. K. Tartibu, "Aluminum Alloy Reinforced with Agro-Waste, and Eggshell as Viable Material for Wind Turbine Blade to Annex Potential Wind Energy: A Review," *J. Compos. Sci.*, vol. 7, no. 4, 2023, doi: 10.3390/jcs7040161.
- [20] B. I. A. Muttaqin, "Telaah Kajian dan Literature Review Design of Experiment (DoE)," *J. Adv. Inf. Ind. Technol.*, vol. 1, no. 1, pp. 33–40, 2019, doi: 10.52435/jaiit.v1i1.10.
- [21] M. A. Hadiyat, B. M. Sopha, and B. S. Wibowo, "Response Surface Methodology Using Observational Data: A Systematic Literature Review," *Appl. Sci.*, vol. 12, no. 20, 2022, doi: 10.3390/app122010663.
- [22] Suharjo, Fahriansyah Mahyudi, Basuki Rahmat, and Ridha Siddiq, "Analisa Kekuatan Uji Impak Material Komposit Serbuk Kayu Berdasarkan Perbandingan Berat Dari Spesimen," *Zo. Mesin Progr. Stud. Tek. Mesin Univ. Batam*, vol. 14, no. 3, pp. 1–6, 2025, doi: 10.37776/zm.v14i3.1671.
- [23] K. O. Babaremu, M. Udoh, O. S. I. Fayomi, M. E. John, and K. J. Jolayemi, "Influence of Eggshell Particulate on the Mechanical Properties of Aluminum Matrix Composite: A Review.," *Solid State Technol.*, vol. 63, no. 6, pp. 13659–13668, 2020.
- [24] M. N. H. Hilmi Iman Firmansyah, Wirawan, "Analysis of Fiber Metal Composite Shear Strength Using Independent," vol. 05, no. 02, 2022, <https://doi.org/10.33795/jetm.v5i02.136>
- [25] F. I. Aryanti and T. B. Santoso, "Tensile Strength and Thermal Properties of Polypropylene/Nano-Bentonite Composites with Maleic Anhydride Coupling Agent," *J. Teknol. dan Manaj.*, vol. 22, no. 1, pp. 01–06, 2024, doi: 10.52330/jtm.v22i1.120.

- [26] E. P. D. Boangmanalu, A. B. Pratama, A. Qadry, J. F. H. Saragi, and F. T. H. Sinaga, "Charpy and Izod Method Impak Strength Analysis on ST 37 Steel with Temperature Variations," *Formosa J. Sci. Technol.*, vol. 2, no. 12, pp. 3329–3342, 2023, doi: 10.55927/fjst.v2i12.7074.
- [27] O. Mysiukiewicz, P. Kosmela, M. Barczewski, and A. Hejna, "Mechanical, thermal and rheological properties of polyethylene-based composites filled with micrometric aluminum powder," *Materials (Basel)*, vol. 13, no. 5, 2020, doi: 10.3390/ma13051242.
- [28] S. Kowshik, "Mechanical Properties of Post-Cured Eggshell-Filled Glass-Fibre-Reinforced Polymer Composites" 2023, <https://doi.org/10.3390/jcs7020049>.
- [29] A. Sivakumar, S. Srividhya, R. Prakash, and S. Padma, "Properties of biocomposites from waste eggshell as fillers," *Glob. Nest J.*, vol. 25, no. 8, pp. 109–115, 2023, doi: 10.30955/gnj.005095.
- [30] G. Golakiya and D. Cree, "Valorization of purified agricultural brown eggshell by-product as filler in bio-epoxy composites," *Waste Manag. Bull.*, vol. 2, no. 1, pp. 306–315, 2024, doi: 10.1016/j.wmb.2024.02.006.
- [31] S. Sunardi, D. Ariawan, E. Surojo, A. R. Prabowo, H. I. Akbar, Bo. Cao, H. Carvalho, "Assessment of eggshell-based material as a green-composite filler: Project milestones and future potential as an engineering material," *J. Mech. Behav. Mater.*, vol. 32, no. 1, 2023, doi: 10.1515/jmbm-2022-0269.
- [32] D. Cree and M. Soleimani, "Bio-Based White Eggshell as a Value-Added Filler in Poly(Lactic Acid) Composites," *J. Compos. Sci.*, vol. 7, no. 7, 2023, doi: 10.3390/jcs7070278.
- [33] D. Cree, S. Owuamanam, and M. Soleimani, "Mechanical Properties of a Bio-Composite Produced from Two Biomaterials: Polylactic Acid and Brown Eggshell Waste Fillers," *Waste*, vol. 1, no. 3, pp. 740–760, 2023, doi: 10.3390/waste1030044.
- [34] A. Homavand, D. E. Cree, and L. D. Wilson, "Polylactic Acid Composites Reinforced with Eggshell/CaCO₃ Filler Particles: A Review," *Waste*, vol. 2, no. 2, pp. 169–185, 2024, doi: 10.3390/waste2020010.

- [35] Y. Y. Farm, A. A. A. Mohammad Sappa, Z. Mustafa, W. K. Muzammil, M. A. Ismail, N. A. Amaludin, A. Kiring, Mechanical properties of eggshells powder reinforced recycled high-density polyethylene,” pp. 0–7, 2022, doi: 10.1088/1757-899X/1217/1/012003.
- [36] J. O. Agunsoye, S. A. Bello, A. A. Yekinni, I. A. Raheem, M. M. Idehenre, T. E. Idegbekwu, A. D. Oderinde, “Potential of Recycled Aluminium Cans and 215 μm Sized Eggshell Powder for Low Cost Metal Matrix Composites,” *J. Metall. Eng.*, vol. 4, no. 0, p. 30, 2015, doi: 10.14355/me.2015.04.004.
- [37] S. Murugan and Y. Munusamy, “Impact of Weathering on the Mechanical and Weight Reduction Properties of High-density Polyethylene (HDPE) Composites Filled with Treated and Untreated Eggshell Powder (ESP) Fillers,” *J. Eng. Sci.*, vol. 15, no. 2, pp. 109–123, 2019, doi: 10.21315/jes2019.15.2.8.
- [38] W. Sutapun, P. Pakdeechote, N. Suppakarn, and Y. Ruksakulpiwat, “Application of Calcined Eggshell Powder as Functional Filler for High Density Polyethylene,” *Polym. - Plast. Technol. Eng.*, vol. 52, no. 10, pp. 1025–1033, 2013, doi: 10.1080/03602559.2013.769578.
- [39] Y. S. Perera, M. Naaib, N. Ariyasinghe, and C. Abeykoon, “Investigation of the effect of extrusion process parameters and filler loading on the performance of LDPE composites reinforced with eggshell powder,” *Compos. Part C Open Access*, vol. 16, no. January, p. 100561, 2025, doi: 10.1016/j.jcomc.2025.100561.
- [40] J. G. de Castro, R. Zargar, M. Habibi, S. H. Varol, S. H. Parekh, B. Hosseinkhani, M. Adda-Bedia, D. Bonn, “Nonmonotonic fracture behavior of polymer nanocomposites,” *Appl. Phys. Lett.*, vol. 106, no. 22, pp. 1–5, 2015, doi: 10.1063/1.4922287.

- [41] Syduzzaman, M. D. Akter, M. Mahmud, F. Bhowmick, D. R. Maliha, A. S. Fahmi, F. F. Hossain, T. Ahamed, M. D. Ahasan "Impact of Different Mineral Reinforcements on HDPE Composites: Effects of Melt Flow Index and Particle Size on Physical and Mechanical Properties," *SPE Polym.*, vol. 5, no. 3, pp. 306–317, 2024, doi: 10.1002/pls2.10125.
- [42] S. Owuamanam and D. Cree, "Progress of bio-calcium carbonate waste eggshell and seashell fillers in polymer composites: A review," *J. Compos. Sci.*, vol. 4, no. 2, 2020, doi: 10.3390/jcs4020070.
- [43] G. F. Aynalem and B. Sirahbizu, "Effect of Al₂O₃ on the tensile and impact strength of flax/unsaturated polyester composite with emphasis on automobile body applications," *Adv. Mater. Sci. Eng.*, vol. 2021, 2021, doi: 10.1155/2021/6641029.

