

DAFTAR PUSTAKA

- Abhilash, R. M., Shakti Singh, C., G S, V., & N D, S. (2018). Tensile & Flexural Characterisation and Finite Element Modelling of Bamboo Polypropylene Composite. In *Journal of Engineering Research and Application* www.ijera.com. www.ijera.com
- Adane Dagnaw, G., Leif, S., & Dieter, M. (2022). The capability of ABAQUS/CAE to predict the tensile properties of sisal fiber reinforced polyethylene terephthalate composites. *Composites and Advanced Materials*, 31. <https://doi.org/10.1177/26349833221137602>
- Agnieszka Dabrowska. (2022). Plant-Oil-Based Fibre Composites for Boat Hulls. In *Materials* (Vol. 15, Number 5). MDPI. <https://doi.org/10.3390/ma15051699>
- Ahmad Safwan Ismail, Mohammad Jawaidd, & Jesuarockiam Naveen. (2019). Void content, tensile, vibration and acoustic properties of kenaf/bamboo fiber reinforced epoxy hybrid composites. *Materials*, 12(13). <https://doi.org/10.3390/ma12132094>
- Aimi, N., IBRAHIM, MOHAMAD AWANG, & SURIANI MAT JUSOH. (2020). *AN INVESTIGATION OF KENAF PLANT FIBRES AS REINFORCEMENTS IN INTERWOVEN KENAF/POLYETHYLENE TEREPHTHALATE (PET)/EPOXY HYBRID GREEN COMPOSITES*.
- Alhijazi, M., Zeeshan, Q., Qin, Z., Safaei, B., & Asmael, M. (2020). Finite Element Analysis of Natural Fibers Composites: A Review. In *Nanotechnology Reviews* (Vol. 9, Number 1, pp. 853–875). De Gruyter Open Ltd. <https://doi.org/10.1515/ntrev-2020-0069>
- Anamol Pokharel, Kehinde James Falua, Amin Babaei-Ghazvini, & Bishnu Acharya. (2022). Biobased Polymer Composites: A Review. In *Journal of Composites Science* (Vol. 6, Number 9). MDPI. <https://doi.org/10.3390/jcs6090255>

- Aniket A Terwadkar, & M V Walame. (2019). Mechanical properties of banana fabric and Kenaf fiber reinforced epoxy composites: Effect of treatment and hybridization. *International Journal of Innovative Technology and Exploring Engineering*, 8(10), 1870–1874. <https://doi.org/10.35940/ijitee.J9230.0881019>
- Annelise E. Gerbase, Cesar L. Petzhold, & Ana Paula O. Costa. (n.d.). *TABLE I Dynamical Mechanical and Thermal Properties of Epoxy Resins Prepared by Curing ESO with Various Dicarboxylic Acid Anhydrides a*.
- Ariyana Dwiputra, N., Ferry, S., Maulana Zulfa, K., Gesang, N., Ardi Jati Nugroho, P., Almas, A., Alvin Dio, N., Wu, Y. C., Triawan, F., Handayani, M., Rahmayanti, Y. D., & Muflikhun, M. A. (2025). Experimental, numerical, and DIC analysis of high-performance VPP composites with multilayer glass fiber reinforcement. *Scientific Reports*, 15(1). <https://doi.org/10.1038/s41598-025-25027-y>
- Assia Chichane, Radouane Boujmal, & Abdellah El Barkany. (2024). Towards a green & ecological revolution: Review of natural reinforcing bio-composites and bio-hybrid composites. In *Polymers and Polymer Composites* (Vol. 32). SAGE Publications Ltd. <https://doi.org/10.1177/09673911241226578>
- ASTM D3039. (n.d.). *Standard Test Method for Tensile Properties of Polymer Matrix Composite Materials*.
- Ayyappa, A., Arvydas, P., Andrius, V., & Giedrius, J. (2022). Numerical and Experimental Analysis of Mechanical Properties of Natural-Fiber-Reinforced Hybrid Polymer Composites and the Effect on Matrix Material. *Polymers*, 14(13). <https://doi.org/10.3390/polym14132612>
- Bello, S. A., Agunsoye, J. O., Hassan, S. B., Zebase Kana, M. G., & Raheem, I. A. (2015). *Tribology in Industry Epoxy Resin Based Composites, Mechanical and Tribological Properties: A Review* (Vol. 37, Number 4). www.tribology.fink.rs
- BKI dalam Rules Non Metalic Materials (Pt.1 Vol. XIV 2025). (n.d.). *publication*.

- Cristiano Fragassa, Francesca Conticelli, Beatrice Francucci, Giacomo Seccacini, & Carlo Santulli. (2025). Biocomposites for Marine Applications: A Review of Friction, Wear, and Environmental Degradation. In *Journal of Composites Science* (Vol. 9, Number 7). Multidisciplinary Digital Publishing Institute (MDPI). <https://doi.org/10.3390/jcs9070331>
- Daghigh, V., Soroush M, Nikbin K, & Simoneau A. (2012). *Finite Element Modeling of Tensile and Bending on Fiber Reinforced Polymer Composites* (Vol. 3).
- El Hawary, O., Luca Boccarusso, Martin P. Ansell, Massimo Durante, & Fulvio Pinto. (2023). An Overview of Natural Fiber Composites for Marine Applications. In *Journal of Marine Science and Engineering* (Vol. 11, Number 5). MDPI. <https://doi.org/10.3390/jmse11051076>
- Fang Wang, Min Lu, Shujue Zhou, Zhisong Lu, & Siyan Ran. (2019). Effect of fiber surface modification on the interfacial adhesion and thermo-mechanical performance of unidirectional epoxy-based composites reinforced with bamboo fibers. *Molecules*, 24(15). <https://doi.org/10.3390/molecules24152682>
- Helena, K. M., Philippe, L., He Thong Bui, Nguyen, P. T. N., Michaud, P., Lucas-Roper, R., Antou, G., Luong, V. D., Duong, P. T. M., Abbès, F., & Abbès, B. (2024). Preliminary Experimental and Numerical Study of the Tensile Behavior of a Composite Based on Sycamore Bark Fibers. *Journal of Composites Science*, 8(9). <https://doi.org/10.3390/jcs8090333>
- Hossein Abdollahiparsa, Ali Shahmirzaloo, Patrick Teuffel, & Rijk Blok. (2023). A review of recent developments in structural applications of natural fiber-Reinforced composites (NFRCs). *Composites and Advanced Materials*, 32. <https://doi.org/10.1177/26349833221147540>
- Jong Sung Won, Min Jun Lee, Pil Gyu Lee, & Seung Goo Lee. (2020). Physical Properties and Biodegradabilities of the PLA/ Soy-Oil Blends and Their

- Ramie Fiber Composites. *Journal of Textile Science & Fashion Technology*, 7(2). <https://doi.org/10.33552/jtsft.2020.07.000658>
- Kai Zhang, Fangxin Wang, Wenyan Liang, Zhenqing Wang, Zhiwei Duan, & Bin Yang. (2018). Thermal and mechanical properties of bamboo fiber reinforced epoxy composites. *Polymers*, 8(6). <https://doi.org/10.3390/polym10060608>
- M. J. Suriani, R. A. Ilyas, M. Y. M. Zuhri, A. Khalina, M. T. H. Sultan, S. M. Sapuan, C. M. Ruzaidi., F. Nik Wan, F. Zulkifli, M. M. Harussani, M. A. Azman, F. S. M. Radzi, & Shubham Sharma. (2021). Critical review of natural fiber reinforced hybrid composites: Processing, properties, applications and cost. In *Polymers* (Vol. 13, Number 20). MDPI. <https://doi.org/10.3390/polym13203514>
- M. Muneer Ahmed, H. N. Dhakal, Z. Y. Zhang, A. Baroun, & J. R. Pillai. (2025). *Simulasi Finite Element Method pada Komposit Berbasis Aluminium Hasil Accumulative Roll Bonding (ARB) dengan Penambahan Pressing (Tekanan)* (Vol. 22, Number 2).
- Magdy M.M. Elnashar, & Selcan Karakuş. (2023). Introductory Chapter: Introduction to Biocomposites – New Insights. In *Biocomposites - Recent Advances*. IntechOpen. <https://doi.org/10.5772/intechopen.109980>
- Md Arif Mahmud, Shah Alimuzzaman Belal, & Md Abdul Gafur. (2023). Development of a biocomposite material using sugarcane bagasse and modified starch for packaging purposes. *Journal of Materials Research and Technology*, 24, 1856–1874. <https://doi.org/10.1016/j.jmrt.2023.03.083>
- Muneesh Banyal, & Abhishek Thakur. (2023). Exploring the Frontier of Bamboo Fiber-Based Composites: Mechanical, Thermal Characteristics, and Fabrication Techniques. *International Journal of Research Publication and Reviews*, 4(8), 1624–1629. <https://doi.org/10.55248/gengpi.4.823.50996>
- Raed B. Alsuwait, Miloud Souiyah, Ibrahim Momohjimoh, Saheed Adewale Ganiyu, & Azeez Oladipupo Bakare. (2023). Recent Development in the Processing, Properties, and Applications of Epoxy-Based Natural Fiber

- Polymer Biocomposites. In *Polymers* (Vol. 15, Number 1). MDPI. <https://doi.org/10.3390/polym15010145>
- Raj Vardhan Patel, Anshul Yadav, & Jerzy Winczek. (2023). Physical, Mechanical, and Thermal Properties of Natural Fiber-Reinforced Epoxy Composites for Construction and Automotive Applications. In *Applied Sciences (Switzerland)* (Vol. 13, Number 8). MDPI. <https://doi.org/10.3390/app13085126>
- Sameer A Awad, Omar Awayssa, Mohammad Jawaid, Ahmad Safwan Ismail, Naheed Saba, Mariyum Yaseen, Mohini Sain, & Hassan Fouad. (2026). Performance enhancement of hybrid kenaf/bamboo fibre-reinforced bio-epoxy composites for sustainable structural applications. *Journal of Materials Research and Technology*, 41, 29–38. <https://doi.org/10.1016/j.jmrt.2025.12.017>
- Silviana Nurul Fathoni, & Lydia Rohmawati. (2023). SIFAT FISIK DAN MEKANIK KOMPOSIT BERPENGUAT SERAT ALAM. *Jurnal Inovasi Fisika Indonesia (IFI)*, 12, 63–69.
- Siti Hasnah Kamarudin, Luqman Chuah Abdullah, Min Min Aung, & Chantara Thevy Ratnam. (2020). Thermal and structural analysis of epoxidized jatropa oil and alkaline treated kenaf fiber reinforced poly(Lactic acid) biocomposites. *Polymers*, 12(11), 1–21. <https://doi.org/10.3390/polym12112604>
- Tim Heitkamp, Simon Girth, Sebastian Kuschmitz, Nils Waldt, Günter Klawitter, & Vietor, T. (2023). Experimental and Numerical Investigation of the Mechanical Properties of 3D-Printed Hybrid and Non-Hybrid Composites. *Polymers*, 15(5). <https://doi.org/10.3390/polym15051164>
- Yang Huang, Mohamed Thariq Hameed Sulthan, farah Syazwani Shahar, Rafał Grzejda, & Andrzej Łukaszewicz. (2024). Hybrid Fiber-Reinforced Biocomposites for Marine Applications: A Review. In *Journal of Composites Science* (Vol. 8, Number 10). Multidisciplinary Digital Publishing Institute (MDPI). <https://doi.org/10.3390/jcs8100430>

Yang Huang, Sultan, M. T. H., Shahar, F. S., Łukaszewicz, A., Oksiuta, Z., & Grzejda, R. (2025). Kenaf Fiber-Reinforced Biocomposites for Marine Applications: A Review. In *Materials* (Vol. 18, Number 5). Multidisciplinary Digital Publishing Institute (MDPI). <https://doi.org/10.3390/ma18050999>

Yunlong Jia, Bodo Fiedler, Wenkai Yang, Xinjian Feng, Jingwen Tang, Jian Liu, & Peigen Zhang. (2023). Durability of Plant Fiber Composites for Structural Application: A Brief Review. In *Materials* (Vol. 16, Number 11). MDPI. <https://doi.org/10.3390/ma16113962>

Zienkiewicz, O. C., Taylor, R. L., & Zhu, J. Z. (2005). *The Finite Element Method: Its Basis and Fundamentals Sixth edition*. www.cimne.upc.es

Zilong Ren, CHUNHONG WANG, QI ZUO, SHERAZ HUSSAIN SIDDIQUE YOUSFANI, Noor Intan Saffinaz Anuar, Sarani Zakaria, & Xiaoling Liu. (2019). Effect of alkali treatment on interfacial and mechanical properties of kenaf fibre reinforced epoxy unidirectional composites. *Sains Malaysiana*, 48(1), 173–181. <https://doi.org/10.17576/jsm-2019-4801-20>