

DAFTAR PUSTAKA

- Abdurohman, K., & Siahaan, M. (2018). Effect of mesh-peel ply variation on mechanical properties of E-glas composite by infusion vacuum method. *Journal of Physics: Conference Series*, 1-10.
- Abdurohman, K., Satrio, T., Muzayadah, N. L., & Teten. (2018). A comparison process between hand lay-up, vacuum infusion and vacuum bagging method toward e-glass EW 185/lycal composites. *Journal of Physics: Conference Series*, 1-10.
- Agarwal, B. D., Broutman, L. J., & Chandrashekhara, K. (2006). *Analysis and performance of fiber composite* (Third Edition ed.). New Delhi: Willey.
- Ariawan, D., Rivai, T. S., Surojo, E., Hidayatulloh, S., Akbar, H. I., & Prabowo, A. R. (2020). Effect of alkali treatment of Salacca Zalacca fiber (SZF) on mechanical properties of HDPE composite reinforced with SZF. *Alexandria Engineering Journal*, 3981-3989.
- Ashok, K. G., & Kani, K. (2022). Experimental studies on interlaminar shear strength and dynamic mechanical analysis of luffa fiber epoxy composites with nano PbO addition. *Journal of Industrial Textiles*, 3829S-3854S.
- ASTM D 1895. (2010). *Standard Test Methods for Apparent Density, Bulk Factor*,. US: American Society for Testing and Materials.
- ASTM D 2344. (2000). *Standard Test method for Short-Beam Strength of Polymer*. US: American Society of Testing and Materials International.
- ASTM D 638. (2002). *Standard Test Method for Tensile Properties of Plastics*. US: American Society of Testing and Materials International.
- ASTM D 7264. (2007). *Standard Test Method for Flexural Properties of Polymer*. US: American Society of Testing and Materials International.
- Azhary, T., Kusmono, Wildan, M. W., & Herianto. (2022). Mechanical, morphological, and thermal characteristics of epoxy/glass fiber/cellulose nanofiber hybrid composites. *Polymer Testing*, 1-10.
- Behera, R. P., Rawat, P., Singh, K. K., Kumar, C., & Akash. (2018). Flexural and Short beam shear strength analysis of symmetrical GFRP composites reinforced with MWCNTs having notches. *IOP Conf. Series: Materials Science and Engineering*, 1-10.
- Callister, W. D., & Rethwisch, D. G. (2018). *Materials Science and Engineering An Introduction* (Tenth ed.). New York, USA: John Wiley & Sons.

- Cuebas, L., Neto, J. A., Barros, R. T., Cordeiro, A. O., Rosa, D. d., & Martins, C. R. (2020). The incorporation of untreated and alkali-treated banana fiber in SEBS composites. *Polímeros*, 1-9.
- Dagdag, O., Hamed, O., Erramli, H., & Harfi, A. E. (2018). Anticorrosive Performance Approach Combining an Epoxy Polyaminoamide–Zinc Phosphate Coatings Applied on Sulfo-tartaric Anodized Aluminum Alloy 5086. *Journal of Bio- and Tribo-Corrosion*, 4(52), 1-11.
- Djafar, Z., Renreng, I., & Jannah, M. (2020). Tensile and Bending Strength Analysis of Ramie Fiber and Woven Ramie Reinforced Epoxy Composite. *Journal of Natural Fibers*, 1-12.
- F., A. D., Chea, Z., & Xian, G. (2019). Grafting ramie fiber with carbon nanotube and its effect on the mechanical and interfacial properties of ramie/epoxy composites. *JOURNAL OF NATURAL FIBERS*, 388-403.
- Faghihzadeh, F., Anaya, N. M., Schiffman, L. A., & Oyanedel-Craver, V. (2016). Fourier transform infrared spectroscopy to assess molecular-level changes in microorganisms exposed to nanoparticles. *Nanotechnol. Environ. Eng.*, 1-16.
- Fernandes, R. A., Silveira, P. H., Bastos, B. C., Pereira, P. S., Melo, V. A., Monteiro, S. N., . . . Bastos, D. C. (2022). Bio-Based Composites for Light Automotive Parts: Statistical Analysis of Mechanical Properties; Effect of Matrix and Alkali Treatment in Sisal Fibers. *Polymers*, 1-13.
- Gopinath, A., M, M. S., & Elayaperumal, A. (2014). Experimental Investigations on Mechanical Properties Of Jute Fiber Reinforced Composites with Polyester and Epoxy Resin Matrices. *Procedia Engineering*, 97, 2052-2063.
- Gumustas, M., Sengel-Turk, C. T., Gumustas, A., Ozkan, S. A., & Uslu, B. (2017). Effect of Polymer-Based Nanoparticles on the Assay of Antimicrobial Drug Delivery Systems. *Multifunctional Systems for Combined Delivery, Biosensing and Diagnostics*, 67-108.
- Habibie, S., Suhendra, N., Setiawan, B. A., Hamzah, M., Aisah, N., Fitriani, D. A., . . . Anggaravidya, M. (2021). Prospect of Ramie Fiber Development in Indonesia and Manufacturing of Ramie Fiber Textile-based Composites for Industrial Needs, an Overview. *International Journal of Composite Materials*, 43-53.
- Han, C. (2022). Characteristics of Single-Walled Carbon Nanotube-Reinforced Polycaprolactam Nanocomposites. *Journal of Nanomedicine & Nanotechnology*, 13(632), 1-3.

- Harussani, M., Sapuan, S., Nadeem, G., Rafin, T., & Kirubaanand, W. (2022). Recent applications of carbon-based composites in defence industry: A review. *Defence Technology*, 18, 1281-1300.
- Ismail, N. F., Radzuan, N. A., Sulong, A. B., Muhamad, N., & Haron, C. H. (2021). The Effect of Alkali Treatment on Physical, Mechanical and Thermal Properties of Kenaf Fiber and Polymer Epoxy Composites. *Polymers*, 1-17.
- Jabbar, A., Militky', J., Wiener, J., Kale, B. M., Ali, U., & Rwawiire, S. (2017). Nanocellulose coated woven jute/green epoxy composites: Characterization of mechanical and dynamic mechanical behavior. *Composite Structures*, 161, 340-349.
- Jamasri, & Yudhanto, F. (2022). The Effect of Alkali Treatment and Addition of Microcrystalline Cellulose (MCC) on Physical and Tensile Properties of Ramie/Polyester Laminated Composites. *International Information and Engineering Technology Association*, 32(2), 77-84.
- Jawaid, M., Khalil, H. A., Hassan, A., Dungani, R., & Hadiyane, A. (2013). Effect of jute fibre loading on tensile and dynamic mechanical properties of oil palm epoxy composites. *Composites Part B Engineering*, 45(1), 619-624.
- Jensen, K. A., Bøgelund, J., Jackson, P., Jacobsen, N. R., Birkedal, R., Clausen, P. A., . . . Vogel, U. B. (2015). *Carbon nanotubes*. Denmark: The Danish Environmental Protection Agency.
- Kabir, M., Wang, H., Lau, K., & Cardona, F. (2012). Chemical treatments on plant-based natural fibre reinforced polymer composites: An overview. *Composites: Part B*, 43, 2883-2892.
- Kamaraj, M., Dodson, E. A., & Datta, S. (2019). Effect of graphene on the properties of flax fabric reinforced epoxy composites. *Advanced Composite Materials*, 1-15.
- Karna, S. K. (2007). *Properties and applications of carbon nanotubes*. Trondheim: Physics Department, NTNU.
- KASHYAP, A., SINGH, N. P., ARORA, S., SINGH, V., & GUPTA, V. K. (2020). Effect of amino-functionalization of MWCNTs on the mechanical and thermal properties of MWCNTs/epoxy composites. *Bull Mater Sci*, 43, 1-9.
- Kathirselvama, M., Kumaravela, A., Arthanarieswarana, V., & Saravanakumar, S. (2019). Characterization of cellulose fibers in Thespesia populnea barks: Influence of alkali treatment. *Carbohydrate Polymers*, 178-189.
- Kausar, A., Rafique, I., & Muhammad, B. (2016). Review of Applications of Polymer/Carbon Nanotubes and Epoxy/CNT Composites. *Polymer-Plastics Technology and Engineering*, 1167-1191.

- Kaw, A. K. (2006). *Mechanics of Composite Materials Second Edition* (second ed.). Boca Raton : CRC Press.
- Khan, A., Asiri, A. M., Jawaaid, M., Sabac, N., & Inamuddina. (2020). Effect of cellulose nano fibers and nano clays on the mechanical, morphological, thermal and dynamic mechanical performance of kenaf/epoxy composites. *Carbohydrate Polymers*, 239, 1-8.
- Kumar, R., Rakesh, P. K., Sreehari, D., Kumar, D., & Naik, T. P. (2023). Experimental investigations on material properties of alkali retted Pinus Roxburghii Fiber. *Biomass Conversion and Biorefinery*.
- Kushwaha, P. K., Pandey, C. N., & Kumar, R. (2014). Study on the effect of carbon nanotubes on plastic composite reinforced with natural fiber. *J. Indian Acad Wood Sci*, 82-86.
- Lakshmaiya, N., Kaliappan, S., Patil, P. P., Ganesan, V., Dhanraj, J. A., Sirisamphanwong, C., . . . Techato, K. (2022). Influence of Oil Palm Nano Filler on Interlaminar Shear and Dynamic Mechanical Properties of Flax/Epoxy-Based Hybrid Nanocomposites under Cryogenic Condition. *Coatings*, 12, 1-14.
- Lee, K.-Y., Aitomäki, Y., Berglund, L. A., Oksman, K., & Bismarck, A. (2014). On the use of nanocellulose as reinforcement in polymer matrix composites. *Composites Science and Technology*, 105, 15-27.
- Lim, K. H., Majid, M. S., Ridzuan, M. J., Basaruddin, K. S., & Afendi, M. (2017). Effect of nano-clay fillers on mechanical and morphological properties of Napier/epoxy Composites. *Journal of Physics: Conference Series*, 908, 1-9.
- Lu, N., & Oza, S. (2013). A comparative study of the mechanical properties of hemp fiber with virgin and recycled high density polyethylene matrix. *Composite: Part B*, 1651-1656.
- Mozaffarinasab, H., & Jamshidi, M. (2023). Surface modification of carbon nanotubes by a bifunctional amine silane; effects on physical/mechanical/thermal properties of epoxy nanocomposite. *Progress in Organic Coatings*, 179, 1-11.
- Munawar, S. S., Umemura, K., & Kawai, S. (2007). Characterization of the morphological, physical, and mechanical properties of seven nonwood plant fiber bundles. *J Wood Sci*, 53, 108-113.
- Murianingrum, M., Budi, U. S., Marjani, & Nurindah. (2019). The Potency of Indonesian Ramie to Support Textile Industry. *Proceeding Indonesian Textile Conference*, 1, 1-11.

- Purwati, R. D. (2010). Strategi Pengembangan Rami (*Boehmeria nivea* Gaud.) . *Perspektif*, 9(2), 106-118.
- Raj, R. R., Sathish, S., Mansadevi, T. L., Supriya, R., Sekar, S., Patil, P. P., & Tonmoy, M. M. (2022). Effect of Graphene Fillers on the Water Absorption and Mechanical Properties of NaOH-Treated Kenaf Fiber-Reinforced Epoxy Composites. *Journal Hindawi*, 1-8.
- Ramakrishnan, S., Krishnamurthy, K., & Rajasekar, R. (2019). An experimental study on the effect of nano-clay addition on mechanical and water absorption behaviour of jute fibre reinforced epoxy composites. *Journal of Industrial Textiles*, 49(5), 597-620.
- Rashid, A. A., Khalid, M. Y., Imran, R., Ali, U., & Koc, M. (2020). Utilization of Banana Fiber-Reinforced Hybrid Composites in the Sports Industry. *Materials*, 13(14), 1-10.
- Ridzuan, M., Majid, M. A., Afendi, M., Kanafiah, S. A., Zahri, J., & Gibson, A. (2016). Characterisation of natural cellulosic fibre from *Pennisetum purpureum* stem as potential reinforcement of polymer composites. *Materials and Design*, 839-847.
- Rosa, I. M., Kenny, J. M., Puglia, D., Santulli, C., & Sarasini, F. (2010). Morphological, thermal and mechanical characterization of okra (*Abelmoschus esculentus*) fibres as potential reinforcement in polymer composites. *Composite Science and Technology*, 116-122.
- Rosamaha, E., Hossainb, M. S., Khalilb, H. A., Nadirahb, W. W., Dunganid, R., Amiranajwab, A. N., . . . Omar, A. M. (2016). Properties enhancement using oil palm shell nanoparticles of fibers reinforced polyester hybrid composites. *Advanced Composite Materials*, 1-14.
- Rwawiire, S., Luggya, G. W., & Tomkova, B. (2013). Morphology, Thermal, and Mechanical Characterization of Bark Cloth from *Ficus natalensis*. *ISRN Textiles*, 1-8.
- Samaei, S. E., Mahabadi, H. A., & Seyyed Mohammad Mousavi². (2022). The influence of alkaline treatment on acoustical, morphological, tensile and thermal properties of Kenaf natural fibers. *Journal of Industrial Textiles*, 8601S-8625S.
- Sapiai, N., Jumahat, A., & Mahmud, J. (2018). Mechanical properties of functionalised CNT filled kenaf reinforced epoxy composites. *Mater. Res. Express*, 5, 1-14.
- Semnani, D. (2017). Geometrical characterization of electrospun nanofibers. *Electrospun Nanofibers*, 151-179.

- Sen, S., Shaw, A., & Adhikari, B. (2022). On the possibility of using Ramie – A natural material in cost-effective low threat body armours. *Journal of industrial textiles*, 6612S–6639S.
- Shahril, S., Ridzuan, M., Majid, M. A., Bariah, A., Rahman, M., & Narayanasamy, P. (2022). Alkali treatment influence on cellulosic fiber from *Furcraea foetida* leaves as potential reinforcement of polymeric composites. *Journal Of Materials Research and Technology*, 2567-2583.
- Shen, X., Jia, J., Li, C. C., & Kim, J.-K. (2014). Enhancement of mechanical properties of natural fiber composites via carbon nanotube addition. *J Mater Sci*, 49, 3225-3233.
- Singh, J. K., & Rout, A. K. (2022). L., Characterization of raw and alkali-treated cellulosic fibers extracted from *Borassus flabellifer*. *Biomass Conversion and Biorefinery*.
- Siregar, J., Zalinawati, M., T. C., Rejab, M., Mawarnie, I., Jaafar, J., & Hamdan, M. (2021). Mechanical properties of hybrid sugar palm/ramie fibre reinforced epoxy composites. *Materials Today: Proceedings*, 46, 1729-1734.
- Sukmawan, R., Kusmono, & Wildan, M. W. (2023a). Easy production of acetylated cellulose nanofibers from sisal fibers by conventional high-speed blender. *Biomass Conversion and Biorefinery*, 27117-271126.
- Sullins, T., Pillay, S., Komus, A., & Ning, H. (2017). Hemp fiber reinforced polypropylene composites: The effects of material treatments. *Composite: Part B*, 15-22.
- Vinod, A., Vijay, R., Singaravelu, D. L., Khan, A., Sanjay, M., Siengchin, S., . . . Asiri, A. M. (2022). Effect of alkali treatment on performance characterization of *Ziziphus mauritiana* fiber and its epoxy composites. *Journal of Industrial Textile*, 2444S-2466S.
- Xu, C., Gu, Y., Yang, Z., Li, M., Li, Y., & Zhang, Z. (2015). Mechanical properties of surface-treated ramie fiber fabric/epoxy resin composite fabricated by vacuum-assisted resin infusion molding with hot compaction. *Journal of Composite Materials*, 1-10.
- Zaer-Miri, S., & Khosravi, H. (2019). Assessment of the wear behavior and interlaminar shear properties of modified nano-TiO₂/jute fiber/epoxy multiscale composites. *Journal of industrial Textiles*, 1-16.
- Zhang, D., Huang, Y., & Chia, L. (2022). Effect of carbon nanotube (CNT) geometries on the dispersion characterization and adhesion properties of CNT reinforced epoxy composite. *Composite Structures*, 296, 1-12.