

DAFTAR PUSTAKA

- Ali, A., Chiang, Y. W., & Santos, R. M. (2022). X-Ray Diffraction Techniques for Mineral Characterization: A Review for Engineers of the Fundamentals, Applications, and Research Directions. *Minerals*, 12(2). <https://doi.org/10.3390/min12020205>
- Arjmandi, R., Hassan, A., Majeed, K., & Zakaria, Z. (2015). Rice Husk Filled Polymer Composites. Dalam *International Journal of Polymer Science* (Vol. 2015). Hindawi Limited. <https://doi.org/10.1155/2015/501471>
- Arzumanova, N. B., & Kakhramanov, N. T. (2020). Polymer Biocomposites Based on Agro Waste: Part Ii. Husk, Stalk and Straw of Some Agricultural Crops as Dispersed Filler. Dalam *New Materials, Compounds and Applications* (Vol. 4, Nomor 3).
- Beckermann, G. W., & Pickering, K. L. (2008). Engineering and evaluation of hemp fibre reinforced polypropylene composites: Fibre treatment and matrix modification. *Composites Part A: Applied Science and Manufacturing*, 39(6), 979–988. <https://doi.org/https://doi.org/10.1016/j.compositesa.2008.03.010>
- Bisht, N., & Gope, P. C. (2018). Effect of Alkali Treatment on Mechanical Properties of Rice Husk Flour Reinforced Epoxy Bio-Composite. Dalam *Materials Today: Proceedings* (Vol. 5). www.sciencedirect.comwww.materialstoday.com/proceedings
- Boonsuk, P., Sukolrat, A., Bourkaew, S., Kaewtatip, K., Chantarak, S., Kelarakis, A., & Chaibundit, C. (2021). Structure-properties relationships in alkaline treated rice husk reinforced thermoplastic cassava starch biocomposites. *International Journal of Biological Macromolecules*, 167, 130–140. <https://doi.org/10.1016/j.ijbiomac.2020.11.157>
- Callister, W. D. ., & Rethwisch, D. G. . (2009). *Materials science and engineering : an introduction*. John Wiley.
- Chen, R. S., & Ahmad, S. (2017). Mechanical performance and flame retardancy of rice husk/organoclay-reinforced blend of recycled plastics. *Materials*

Chemistry and Physics, 198, 57–65.
<https://doi.org/10.1016/j.matchemphys.2017.05.054>

Dasan, K. P. (2015). PET Nanocomposites: Preparation and Characterization. Dalam *Poly(Ethylene Terephthalate) Based Blends, Composites and Nanocomposites* (hlm. 99–111). Elsevier Inc. <https://doi.org/10.1016/B978-0-323-31306-3.00006-3>

Dutta, N., Bhadra, B., Gogoi, G., & Kumar Maji, T. (2021). Development of polyvinyl chloride/waste rice husk ash/modified montmorillonite nanocomposite using epoxidized soybean oil as green additive substituting synthetic plasticizer and compatibiliser. Dalam *Cleaner Materials* (Vol. 2). Elsevier Ltd. <https://doi.org/10.1016/j.clema.2021.100033>

Elessawy, N. A., El Shakhs, A., Fahmy El-Saka, M., Youssef, M. E., Youssef, B. A. B., & Malek Ali, M. A. (2024). Sustainable and eco-friendly 3D printing filament fabricated from different recycled solid wastes and evaluate its impact on interior and furniture design. *Results in Engineering*, 23. <https://doi.org/10.1016/j.rineng.2024.102428>

Fourier Transform Infrared Spectroscopy Fundamentals of Second Edition. (t.t.).

Guilbert-García, E., Salgado-Delgado, R., Rangel-Vázquez, N. A., García-Hernández, E., Rubio-Rosas, E., & Salgado-Rodríguez, R. (2012). MODIFICATION OF RICE HUSK TO IMPROVE THE INTERFACE IN ISOTACTIC POLYPROPYLENE COMPOSITES. Dalam *Latin American Applied Research* (Vol. 42).

Hafizuddin, M., Ghani, A., Royan, N., Royan, R., Kang, S. W., Sulong, A. B., & Ahmad, S. (2015a). Effect of Alkaline Treated Rice Husk on the Mechanical and Morphological Properties of Recycled HDPE/RH Composite. *Journal of Applied Science and Agriculture*, 10(5), 138–144. www.aensiweb.com/JASA

Hafizuddin, M., Ghani, A., Royan, N., Royan, R., Kang, S. W., Sulong, A. B., & Ahmad, S. (2015b). Effect of Alkaline Treated Rice Husk on the Mechanical and Morphological Properties of Recycled HDPE/RH Composite. *Journal of Applied Science and Agriculture*, 10(5), 138–144. www.aensiweb.com/JASA

- Halip, J. A., Lee, S. H., Tahir, P. M., Chuan, L. Te, Selimin, M. A., & Saffian, H. A. (2021). A review: Chemical treatments of rice husk for polymer composites. Dalam *Biointerface Research in Applied Chemistry* (Vol. 11, Nomor 4, hlm. 12425–12433). AMG Transcend Association. <https://doi.org/10.33263/BRIAC114.1242512433>
- John, M. J., & Anandjiwala, R. D. (2008). Recent developments in chemical modification and characterization of natural fiber-reinforced composites. *Polymer Composites*, 29(2), 187–207. <https://doi.org/https://doi.org/10.1002/pc.20461>
- Joseph, P. V, Joseph, K., Thomas, S., Pillai, C. K. S., Prasad, V. S., Groeninckx, G., & Sarkissova, M. (2003). The thermal and crystallisation studies of short sisal fibre reinforced polypropylene composites. *Composites Part A: Applied Science and Manufacturing*, 34(3), 253–266. [https://doi.org/https://doi.org/10.1016/S1359-835X\(02\)00185-9](https://doi.org/https://doi.org/10.1016/S1359-835X(02)00185-9)
- Kambai, E. D., Ibrahim, I. M., & Mustafa, H. M. (2024). Mechanical and Thermal Properties of Hybrid Rice Husk/Kenaf Reinforced Polyethylene Terephthalate (PET)/High-Density Polyethylene (HDPE) Blends/Composites. *Engineering Science & Technology*, 209–225. <https://doi.org/10.37256/est.5220244232>
- Kargarzadeh, H. et al. (2017). *Handbook of Nanocellulose and cellulose nanocomposites*. Weinheim. Wiley-VCH Verlag GmbH & Co.
- Kristiawan, R. B., Imaduddin, F., Ariawan, D., Ubaidillah, & Arifin, Z. (2021). A review on the fused deposition modeling (FDM) 3D printing: Filament processing, materials, and printing parameters. Dalam *Open Engineering* (Vol. 11, Nomor 1, hlm. 639–649). De Gruyter Open Ltd. <https://doi.org/10.1515/eng-2021-0063>
- Kusmono, Listyanda, R. F., Wildan, M. W., & Ilman, M. N. (2020). Preparation and characterization of cellulose nanocrystal extracted from ramie fibers by sulfuric acid hydrolysis. *Heliyon*, 6(11). <https://doi.org/10.1016/j.heliyon.2020.e05486>
- Lee, M. (2021). *X-ray diffraction for materials research: From fundamentals to applications*. AAP, Apple Academic Press.

- Li, X., Tabil, L. G., & Panigrahi, S. (2007). Chemical Treatments of Natural Fiber for Use in Natural Fiber-Reinforced Composites: A Review. *Journal of Polymers and the Environment*, 15(1), 25–33. <https://doi.org/10.1007/s10924-006-0042-3>
- Luna, I. Z., Dam, K. C., Chowdhury, A. M. S., Gafur, M. A., Khan, N., & Khan, R. A. (2015a). Physical and thermal characterization of alkali treated rice husk reinforced polypropylene composites. *Advances in Materials Science and Engineering*, 2015. <https://doi.org/10.1155/2015/907327>
- Luna, I. Z., Dam, K. C., Chowdhury, A. M. S., Gafur, M. A., Khan, N., & Khan, R. A. (2015b). Physical and thermal characterization of alkali treated rice husk reinforced polypropylene composites. *Advances in Materials Science and Engineering*, 2015. <https://doi.org/10.1155/2015/907327>
- Meral, G. (2060). *Global Plastics Outlook POLICY SCENARIOS TOO2060*.
- Mid, A. A., Syaima, H., & Hindryawati, N. (t.t.). *Prosiding Seminar Nasional Kimia 2024 eISSN 2987-9922 Jurusan Kimia FMIPA UNMUL*.
- Mohamed, M. A., Jaafar, J., Ismail, A. F., Othman, M. H. D., & Rahman, M. A. (2017). Fourier Transform Infrared (FTIR) Spectroscopy. Dalam *Membrane Characterization* (hlm. 3–29). Elsevier Inc. <https://doi.org/10.1016/B978-0-444-63776-5.00001-2>
- Mukherjee, S., & Gowen, A. (2015). A review of recent trends in polymer characterization using non-destructive vibrational spectroscopic modalities and chemical imaging. Dalam *Analytica Chimica Acta* (Vol. 895, hlm. 12–34). Elsevier B.V. <https://doi.org/10.1016/j.aca.2015.09.006>
- Mwaikambo, L. Y., Tucker, N., & Clark, A. J. (2007). Mechanical Properties of Hemp-Fibre-Reinforced Euphorbia Composites. *Macromolecular Materials and Engineering*, 292(9), 993–1000. <https://doi.org/https://doi.org/10.1002/mame.200700092>
- Ndazi, B. S., Nyahumwa, C., & Tesha, J. (2007). Rice husk stability, alkali treatment. Dalam *BioResources* (Vol. 3, Nomor 4).
- Rabbani, F. A., Sulaiman, M., Tabasum, F., Yasin, S., Iqbal, T., Shahbaz, M., Mujtaba, M. A., Bashir, S., Fayaz, H., & Saleel, C. A. (2023). Investigation of

- tribo-mechanical performance of alkali treated rice-husk and polypropylene-random-copolymer based biocomposites. *Heliyon*, 9(11).
<https://doi.org/10.1016/j.heliyon.2023.e22028>
- Rahman, R., & Putra, S. Z. F. S. (2019). Tensile properties of natural and synthetic fiber-reinforced polymer composites. *Mechanical and Physical Testing of Biocomposites, Fibre-Reinforced Composites and Hybrid Composites*, 81–102. <https://doi.org/10.1016/B978-0-08-102292-4.00005-9>
- Rigail-Cedeño, A., Lazo, M., Gaona, J., Delgado, J., Tapia-Bastidas, C. V., Rivas, A. L., Adrián, E., & Perugachi, R. (2022). Processability and Physical Properties of Compatibilized Recycled HDPE/Rice Husk Biocomposites. *Journal of Manufacturing and Materials Processing*, 6(4).
<https://doi.org/10.3390/jmmp6040067>
- Ronald, G. F. (t.t.). *Principles of Composite Material Mechanics, Fourth Edition*.
- Saba, N., Jawaid, M., & Sultan, M. T. H. (2019). An overview of mechanical and physical testing of composite materials. *Mechanical and Physical Testing of Biocomposites, Fibre-Reinforced Composites and Hybrid Composites*, 1–12.
<https://doi.org/10.1016/B978-0-08-102292-4.00001-1>
- Salleh, M. N., Aziz, R. A., Razak, M. F. S. A., Musa, L., & Ying, H. L. (2020). Effect of Surface Treatment on Mechanical Properties of Rice Husk Reinforced Recycled High Density Polyethylene (rHDPE) Composites. *IOP Conference Series: Materials Science and Engineering*, 957(1).
<https://doi.org/10.1088/1757-899X/957/1/012011>
- Sanjeevi, S., Shanmugam, V., Kumar, S., Ganesan, V., Sas, G., Johnson, D. J., Shanmugam, M., Ayyanar, A., Naresh, K., Neisiany, R. E., & Das, O. (2021). Effects of water absorption on the mechanical properties of hybrid natural fibre/phenol formaldehyde composites. *Scientific Reports*, 11(1).
<https://doi.org/10.1038/s41598-021-92457-9>
- Shan Chen, R., Nazry Salleh, M., Hafizuddin Ab Ghani, M., Ahmad, S., & Gan, S. (2015). Rice husk polycomposites. Dalam *BioResources* (Vol. 10, Nomor 4).
- Siddiqui, A., Braden, M., Patel, M. P., & Parker, S. (2010). An experimental and theoretical study of the effect of sample thickness on the Shore hardness of

- elastomers. *Dental Materials*, 26(6), 560–564.
<https://doi.org/10.1016/J.DENTAL.2010.02.004>
- Singh, J. K., & Rout, A. K. (2023). Study on the physical, mechanical, and thermal behaviour of RHN blend epoxy hybrid composites reinforced by *Borassus flabellifer* L. fibers. *Cellulose*, 30(8), 5033–5049.
<https://doi.org/10.1007/s10570-023-05191-y>
- Surendran, A. N., Malayil, S., Satyavolu, J., & Kate, K. (2023). Influence of Chemical Pretreatment on the Mechanical, Chemical, and Interfacial Properties of 3D-Printed, Rice-Husk-Fiber-Reinforced Composites. *Journal of Composites Science*, 7(9). <https://doi.org/10.3390/jcs7090357>
- Syafri, R., Ahmad, I., & Abdullah, I. (2011). Effect of Rice Husk Surface Modification by LENR the on Mechanical Properties of NR/HDPE Reinforced Rice Husk Composite (Kesan Rawatan Permukaan Sekam Padi dengan LENR ke Atas Sifat Mekanik Komposit NR/HDPE diperkuat Sekam Padi). Dalam *Sains Malaysiana* (Vol. 40, Nomor 7).
- Veerasingam, S., Ranjani, M., Venkatachalapathy, R., Bagaev, A., Mukhanov, V., Litvinyuk, D., Mugilarasan, M., Gurumoorthi, K., Gunganathan, L., Aboobacker, V. M., & Vethamony, P. (2021). Contributions of Fourier transform infrared spectroscopy in microplastic pollution research: A review. *Critical Reviews in Environmental Science and Technology*, 51(22), 2681–2743. <https://doi.org/10.1080/10643389.2020.1807450>
- Yunusa, S. U., & Wakili, B. S. (2023). Development of lignocellulosic-plastic composite from rice husk and polyethylene. *Cleaner and Circular Bioeconomy*, 6, 100054. <https://doi.org/10.1016/J.CLCB.2023.100054>
- Zeyad, A. M., Bayraktar, O. Y., Tayeh, B. A., Öz, A., Özkan, İ. G. M., & Kaplan, G. (2024). Impact of rice husk ash on physico-mechanical, durability and microstructural features of rubberized lightweight geopolymer composite. *Construction and Building Materials*, 427.
<https://doi.org/10.1016/j.conbuildmat.2024.136265>