References

[1] A. A. Obebe S.B., "PLASTIC POLLUTION: CAUSES, EFFECTS AND PREVENTIONS," *International Journal of Engineering Applied Sciences and Technology*, vol. 4, no. 12, pp. 85-95, 2020.

[2] C. Starr and B. Mcmillan, Human Biology, Seventh Edition ed., California: Thomson Brooks/Cole, Belmont, 2007.

[3] J. Fellman, M. Bjelland, D. Montello, A. Gettis and J. Gettis, Human Geography: Landscapes of Human Activities, Twelfth Edition ed., New York: mcgraw-Hill Companies, 2013.

[4] C. Uwaegbulam, B. Nwannekanma and V. Gbonegun, "Producers'Responsibility and Plastic Pollution Crisis," *The Guardian Newspaper*, vol. 35, no. 14350, pp. 32-33, 2018.

[5] D. Mcconnel, S. D., C. Knight and B. Owens, The Good Earth:Introduction to Earth Science, Second Edition ed., New York: mcgraw-Hill Companies, 2010.

[6] L. Njomo, "The Ban on Plastic Shopping Bags in Cameroon: An Exploratory Study of Resilience Strategies of Subsistence Marketplaces.," *International Journal of Innovative Science and Research Technology*, vol. 4, no. 4, pp. 475-493, 2019.

[7] D. Gunaratna, "Analysis on Future Trends of plastic recycling in Sri lanka," University of Sri Jayewardenepura, Sri Lanka, Sri Jayewardenepura, 2012.

[8] Waste-trading, "About plastic pollutions in Sri lanka," 2019. [Online]. Available: https://waste-trading.com/index.php/12-english/sections/188-sri-lanka. [Accessed 5 December 2019].

[9] K. Kirusanurethan, K. Riviharan, S. Mahaletchumi and D. Thavaseelan, "The Ways To Minimize the Plastic Wastage in Sri Lanka," *JOURNAL OF*

RESEARCH TECHNOLOGY AND ENGINEERING, vol. 1, no. 3, pp. 24-27, 2020.

[10] D. Paranavitana, "Dealing with marine plastic pollution in Sri Lanka`s oceans," 2019. [Online]. Available: http://www.dailymirror.lk/features/Trash-talk%3A-Dealing-with-marine-plastic-pollution-in-Sri-Lanka%E2%80%99s-oceans/185-168005",2019. [Accessed 7 December 2019].

[11] J. Sebastian and L. Paul, "Chapter 13 - Plastic recycling and regeneration," *Sustainable Manufacturing*, pp. 339-365, 2021.

[12] A. Merrington, Applied Plastics Engineering Handbook, Second Edition ed., A volume in Plastics Design Library, 2017.

[13] M. Asim, M. Jawaid, N. Saba, Ramengmawii, M. Nasir and M. T. Hameed Sultan, "1 - Processing of hybrid polymer composites—a review," *Hybrid Polymer Composite Materials*, pp. 1-22, 2017.

[14] F. Johannes Karl, "16 - Compatibilization," *Reactive Polymers: Fundamentals and Applications*, pp. 497-546, 2018.

[15] P. Miller, I. Sbarski, P. Iovenitti, S. Masood and Kosior, "Rheological properties of blends of recycled HDPE and virgin polyolefins.," *Polymer Recycling*, vol. 6, no. 4, pp. 181-186, 2001.

[16] N. Kukaleva, G. Simon and E. Kosior, "Modification of recycled high-density polyethylene by low-density and linear-low-density polyethylenes," *Polymer Engineering and Science.*, vol. 43, no. 1, pp. 9-12, 2003.

[17] T. Azeez, O. Onukwuli, P. Walter and M. Menkiti, "Influence of chemical surface modifications on mechanical properties of combretum dolichopetalum fibre—high density polyethylene (HDPE) composites," *Pakistan Journal of Scientific and Industrial Research Series A: Physical Sciences.*, vol. 61, no. 1, pp. 28-34, 2018.

[18] P. H, "Rheology of peroxide modified recycled high density polyethylene [thesis]," RMIT University, Melbourne, 2007.

[19] L. S, "Utilization of compatibilization and restabilization methods in the recycling of commingled municipal plastic waste [thesis]," Brunensis: Masaryk University in Brno, Brunensis, 2009.

[20] D. Garraín, P. Martínez, R. Vidal and M. J. Bellés, ""“LCA of thermoplastics recycling”,," University Jaume, 2007.

[21] J. P. S. M. S. T. Jesmy J, "Recycling of polymer blends. In: Grigoryeva O, Fainleib A, editors. Recent Developments in Polymer Recycling.," *Transworld Research Network: Kerala, India*, pp. 187-214, 2011.

[22] A. M. Hameed and A. A. Talib, "Using the plastic wastes in fabrication of composite materials for different applications," *Iraqi Journal of Physics*, vol. 16, no. 36, pp. 123-133, 2018.

[23] K. S. Kumar, Investigations on Process Parameters Optimization in Machining, Anna University, 2011.

[24] O. Faruk and M. Sain, Biofiber reinforced polymer composites for structural, 2013 ed., Woodhead Publishing Limited, 2013.

[25] K. Friedrich, M. Hou and J. Krebs, "Chapter 4 Thermoforming of continuous," *Composite Materials Series*, vol. 11, p. 91–162, 1997.

[26] S. Kumar and R. K. Misra, "Static And Dynamic Mechanical Analysis Of Chemically Modified Randomly Distributed Short Banana Fiber Reinforced Highdensity Polyethylene/Poly (Є-Caprolactone) Composites," *Journal of Polymer Engineering*, vol. 4, no. 1, pp. 1-13, 2007.

[27] L. A. Pothan and S. Thomas, "Effect of hybridization and chemical modification on the water-absorption behavior of banana fiber–reinforced

polyester composites," *Journal of Applied Polymer Science,* vol. 91, no. 6, p. 3856–3865, 2004.

[28] N. D. Anggraeni and A. E. Latief, "Natural fiber heat treatment on composite material," *AIP Conference Proceedings 2772, 030006 (2023),* 2023.

[29] J. A. A. C. Wijesinghe, I. Wicramasinghe and . K. Saranandha, "Deviation o f Chemical Properties o f Kithul (Caryota urens) Flour Obtained from Five Different Growing Areas in Sri Lanka," *INTERNATIONAL JOURNAL OF INNOVATIVE RESEARCH IN TECHNOLOGY,* vol. 2, no. 2, pp. 64-76, 2015.

[30] A. Fernando, D. Rajapaksa and K. Samarasinghe, "Sustainable Utilization of Kithul (Fishtail Palm) in Sri Lanka," *Sustainable Utilization of Tropical Plant Biomass,* pp. 59-62, 2013.

[31] H. Perera, M. Perera and D. Fernando, "Study of the Compressive Strength of Kithul Palm fiberreinforced Concrete Composites," *OPENING MINDS: RESEARCH FOR SUSTAINABLE DEVELOPMENT,* pp. 119-122, 2019.

[32] A. May-Pat, A. Valadez-Gonz´alez and P. J. Herrera-Franco, "Effect of fiber surface treatments on the essential workof fracture of HDPE-continuous henequen fiber-reinforcedcomposites.," *Polymer Testing,* vol. 32, no. 6, pp. 1114-1122, 2013.

[33] N. Uddin, Developments in Fiber-Reinforced Polymer (FRP) Composites for Civil Engineering, A volume in Woodhead Publishing Series in Civil and Structural Engineering, 2013.

[34] K. N. Keya, N. A. Kona, F. A. Koly, K. M. Maraz, M. N. Islam and R. A. Khan, "Natural fiber reinforced polymer composites: history, types,advantages and applications," *Materials Engineering Research,* vol. 1, no. 2, pp. 69-85, 2019.

[35] P. M. Mohite, "Composite Materials and Structure," Aerospace Engineering Department, Kanpur, 2014.

[36] J. T. Evans, "Analysis and performance of fiber composites (second edition)," vol. 151, no. 1, 1992.

[37] S. A. Paul, "Banana fiber reinforced polypropylene commingled composites," July 2014.

[38] N. Tiwari, "Introduction to Composite Materials and Structures," IIT , Kanpur, 2015.

[39] P. K. Mallick, Fibre-reinforced composites materials, manufacturing and design, 2008.

[40] B. C. Mitra, "environment Friendly composite materials: Biocomposites and Green composites," *Def. Sci. J,* vol. 64, no. 3, p. 244–261, 2014.

[41] A. H. Juliana, S. H. Lee, M. T. Paridah, Z. Ashaari and W. C. Lum, "Development and Characterization of Wood and Non-wood Particle Based Green Composites," *Green biocomposites,* p. 13–29, November 2017.

[42] B. Asaithambi, G. Ganesan and S. Ananda Kumar, "Bio-composites: Development and mechanical characterization of banana/sisal fibre reinforced poly lactic acid (PLA) hybrid composites," *Fibers Polymer,* vol. 15, no. 4, p. 847–854, 2014.

[43] E. Britannica, "Britannica," 2022. [Online]. Available: https://www.britannica.com/plant/flax.

[44] M. Saxena, A. Pappu, A. Sharma and R. Haque, "Composite Materials from Natural Resources: Recent Trends and Future Potentials," *Advances in Composite Materials - Analysis of Natural and Man-Made Materials,* 2011.

[45] G. Ekundayo and S. Adejuyigbe, "Reviewing the Development of Natural Fiber Polymer Composite: A Case Study of Sisal and Jute," *American Journal of Mechanical and Materials Engineering,* vol. 3, no. 1, pp. 1-10, 2019.

[46] M. H. Hamidon, M. T.H. Sultan, A. H. Ariffin and A. U.M. Shah, "Effects of fibre treatment on mechanical propertiesof kenaf fibre reinforced composites: a review," *Journal of Materials Research and Technology,* vol. 8, no. 3, pp. 3327-3337, 2019.

[47] S. Taj, M. Munawar and S. Khan, "Natural Fiber Reinforced Polymer Composites," *Proc.Pakistan Acad.Sci,* vol. 44, no. 2, pp. 129-144, 2007.

[48] M. Mokhtar, A. Rahmat and A. Hassan, "Characterization and treatments of pineapple leaf fibre thermoplastic composite for construction application," Malaysia, 2007.

[49] P. K. Ichhaporia, Composites from natural fibers, phd thesis North, USA: Carolina State University , 2008.

[50] Y. Li, Y.-W. Mai and L. Ye, "Sisal fibre and its composites: a review of recent developments," vol. 60, no. 11, pp. 2037-2055, 2000.

[51] S. D. Bavan and D. Mohan Kumar, "Potential use of natural fiber composite materials in India," *Journal of Reinforced Plastics and Composites,* vol. 29, no. 24, pp. 3600-3613, 2010.

[52] N. Graupner, A. S. Herrmann and J. Müssig, "Natural and man-made cellulose fibre-reinforced poly(lactic acid) (PLA) composites: An overview about mechanical characteristics and application areas," *Composites Part A: Applied Science and Manufacturing,* vol. 40, no. 6-7, pp. 810-821, 2009.

[53] S. Monteiro, F. Lopes, A. Ferreira and D. Nascimento, "Natural-Fiber Polymer-Matrix Composites: Cheaper, Tougher, and Environmentally Friendly.," *JOM,* vol. 61, no. 1, 2009.

[54] H.-Y. Cheung, M.-P. Ho, K.-T. Lau, F. Cardona and D. Hui, *Composites: Part B,* vol. 40, pp. 655-663, 2009.

[55] A. S. Chandel, T. Shah, T. Shah and D. Varde, "A comparative strength study of coir fibre rein forced concrete (CFRC) over plain cement concrete (PCC)," *IOSR Journal of Mechanical and Civil Engineering (IOSR-JMCE)E-ISSN* , vol. 13, no. 2, pp. 95-97, 2016.

[56] . B. Dan-Asabe, "Thermo-mechanical characterization of banana particulate reinforced PVC composite as piping material," *Journal of King Saud University – Engineering Sciences*, vol. 30, p. 296–304, 2018.

[57] P. G. Easwara, G. B. Keerthi and Velmurugan, " A study on impact strength characteristics of coir polyester composites," *11th international symposium on plasticity and impact mechanics.*, 2017.

[58] P. V. C. R. K. Santosha, Dr. Shiva shankare gowda A, and V. Manikanth, "Effect of fiber loading on thermal properties of banana and pineapple leaf fiber reinforced polyester composites," *ICMPC 2017* , 2017.

[59] N. Amira, K. Zainalabidin and F. Md shiri, "Effects of fibre configuration on mechanical properties of banana fibre/PP/MAPP natural fibre reinforced polymer composite," *Procedia engineering* , vol. 184, p. 573 – 580, 2017.

[60] F. S. Khalid, S. H. Herman and B. N. Azmi, "Properties of sugarcane fiber on the strength of the normal and lightweight concrete," *MATEC web of conferences*, vol. 103, no. 01021 , 2017.

[61] S. M. Abbas Rizvi, A. Dwivedi, S. S. Raza, A. Awasthi and H. Gupta, "An investigation of thermal properties of reinforced coconut coir-bagasse fibres polymer hybrid composites," *IJSRSET*, vol. 3, no. 1, 2017.

[62] K. Jung, . P. Venkata, M. Ashokcline, R. Jayasinghe, C. Baillie and L. Lessard, *journal of reinforced plastics and composites*, 2018.

[63] R. Suresh, S. Balaankireddy and V. S. Ravi, "Natural fiber reinforced green composites with epoxy polymer matrix and its mechanical properties analysis,"

international journal on recent technologies in mechanical and electrical engineering (IJRMEE), vol. 5, no. 6, 2018.

[64] M. B. Hoque, M. S. Hossain and R. A. Khan, "Study on tensile, bending and water uptake properties of sugarcane bagasse fiber reinforced polypropylene based composite," *journal of biomaterials*, vol. 3, no. 1, pp. 18-23 , 2019.

[65] P. Ramesh, S. Manikandan, S. Manivasagam, N. Manoj and S. Muthumani, "Analysis the mechanical properties of naturalfiber reinforced epoxy composites," *IJIRST –international journal for innovative research in science & technology*, vol. 5, no. 10, 2019.

[66] K. K. Chawla, Composite Materials Science and Engineering, 3rd ed ed., 2012.

[67] J. Prof. Ramkumar, "Pultrusion".

[68] K. L. Senthil Kumar, "Investigations on Process Parameters Optimization in Machining of Metal Matrix Composite," Anna University, 2011.

[69] J. Prof. Ramkumar, "Manufacturing of Composites".*Introduction to Manufacturing of Composites.*

[70] S. V. Hoa, Principles of the manufacturing of composite materials., destech Publications, Inc,, 2009.

[71] E. A. Osman Al-Bahadly, "THE MECHANICAL PROPERTIES OF NATURAL FIBER COMPOSITES," Faculty of Engineering Swinburne University of Technology, 2013.

[72] H. Kathiresen, "Lignocelluloses based hybrid laminate composite: physical, mechanical and flammability properties of oil palm fiber /glass fiber reinforced epoxy resin.," Thesis of Master of Science , 2004.

[73] N. M. Azura, "Synthesis, characterization and properties of the new unsaturated polyester resins for composite application," Thesis of Master of Science, 2007.

[74] P. N. Tiwari, "Introduction To Composites," IIT Kanpur.

[75] A. Crosky, N. Soatthiyanon, D. Ruys, S. Meatherall and S. Potter, Thermoset matrix natural fibre-reinforced composites, Woodhead Publishing Limited, 2014.

[76] P. V. Jaysukhlal, "Characterization and Optimization of Mechanical Performance of Natural," Gujarat Technological University, 2021.

[77] S. Ebnesajjad, "Part II - Injection Moulding," *Plastics Design Library,* p. 151–193, 2003.

[78] C. A. C. E. M. V. Claudio. Perez, "Rheological Study of Linear High Density Polyethylene Modified with Organic Peroxides," *Polymer,* pp. 2711-2720, 2002.

[79] J. J. S. C. Zhongyang Liu, "Effect of crystal form and particle size of titanium dioxide on the photodegradation behaviour of ethylene-vinyl copolymer/ low density polyethylene composite," *Polymer Degradation and Stability,* pp. 43-50, 2011.

[80] S. Zhang, "Analysis the property changes of the thermal recycled HDPE and LDPE," ARCADA, 2020.

[81] F. Namvar, M. Jawaid and P. Tahir, "Potential Use of Plant Fibers and their Composites for biomedical Applications.," *Cellulosics for Biomed uses, bioresources,* vol. 9, no. 3, pp. 5688-5706, 2014.

[82] A. O'Donnell, A. Dweib and R. Wool, "Natural fiber composites with plant oil-based resin.," *Composites Science and Technology,* vol. 64, no. 9, pp. 1135-1145, 2004.

[83] M. Karina, H. Onggo and A. Syampurwadi, "Physical and Mechanical Properties of Natural Fibers Filled Polypropylene Composites and Its Recycle," *Journal of Biological Sciences,* vol. 7, pp. 393-396, 2007.

[84] M. Jawaid and H. P. S. Abdul Khalil, "Cellulosic/synthetic fibre reinforced polymer hybrid composites: a review," *Carbohydrate Polymers*, vol. 86, no. 1, pp. 1-18, 2011.

[85] A. Lotfi, H. Li, D. V. Dao and G. Prusty, "Natural fiber–reinforced composites: A review on material, manufacturing, and machinability," *Journal of Thermoplastic Composite Materials,* vol. 34, no. 3, p. 1–47, 2019.

[86] N. K. Kamrun , A. K. Nasrin , . A. K. Farjana, M. Kazi Madina , . I. Md. Naimul and Ruhul A. Khan, "Natural fiber reinforced polymer composites: history, types,advantages and applications," *Materials Engineering Research*, vol. 1, no. 2, pp. 69-85, 2019.

[87] V. K. Thakura and . M. K. Thakurb, "Processing and characterization of natural cellulose fibers/thermoset polymer composites," *Carbohydrate Polymers*, vol. 109, pp. 102-117, 2014.

[88] T. Gurunathan, S. Mohanty and S. K. Nayak, "A review of the recent developments in biocomposites based on natural fibres and their application perspectives," *Composites Part A: Applied Science and Manufacturing*, vol. 77, pp. 1-25, 2015.

[89] D. Puglia , J. Biagiotti and J. Kenny , " A Review on Natural Fibre-Based Composites—Part II: Application of Natural Reinforcements in Composite Materials for Automotive Industry.," *Journal of Natural Fibres*, vol. 1, no. 3, 2004.

[90] G. Koronis, A. Silva and M. Fontul, "Green composites: A review of adequate materials for automotive applications," *Composites Part B: Engineering*, vol. 44, no. 1, pp. 120-127, 2013.

[91] S. Rwawiire, B. Tomkova, J. Militky, A. Jabbar and B. Madhukar Kale, "Development of a biocomposite based on green epoxy polymer and natural

cellulose fabric (bark cloth) for automotive instrument panel applications," *Composites Part B: Engineering,* vol. 81, pp. 149-157, 2015.

[92] A. Ticoalu, T. Aravinthan and F. Cardona, "A Review of Current Development in Natural Fiber Composites for Structural and Infrastructure Applications.," *Southern Region Engineering Conference, Toowoomba, 11-12 November,* 2010.

[93] O. Khondker , U. Ishiaku , A. Nakai and H. Hamada , "Fabrication and Mechanical Properties of Unidirectional Jute/PP Composites Using Jute Yarns by Film Stacking Method.," *Journal of Polymers and the Environment,* vol. 13, no. 2, 2005.

[94] R. Kumar, M. I. Ul Haq, A. Raina and A. Anand, "Industrial applications of natural fibre-reinforced polymer composites – challenges and opportunities," *International Journal of Sustainable Engineering,* vol. 12, no. 3, 2019.

[95] A. Widnyana, I. Rian, I. Surata and T. Nindhia, "Tensile Properties of coconut Coir single fiber with alkali treatment and reinforcement effect on unsaturated polyester polymer," *Materials Today: Proceedings,* vol. 22, pp. 300-305, 2020.

[96] M. Lomelí-Ramírez, R. Anda, K. Satyanarayana, G. D. Muniz and S. Iwakiri, "Comparative Study of the Characteristics of Green and Brown Coconut Fibers for the Development of Green Composites.," *bioresources,* vol. 13, no. 1, p. 1637–1660, 2018.

[97] P. D. Dharmaratne, H. Galabada, R. Jayasinghe, R. Nilmini and R. U. Halwathura, "Characterization of Physical,Chemical and Mechanical Properties of Sri Lankan Coir Fibers," *Journal of Ecological Engineering,* vol. 22, no. 6, pp. 1-11, 2021.

[98] M. Mittal and R. Chaudhary, "Experimental Study on the Water Absorption and Surface Characteristics of Alkali Treated Pineapple Leaf Fiber and Coconut

Husk Fiber," *International Journal of Applied Engineering Research,* vol. 13, no. 15, pp. 12237-12243, 2018.

[99] P. S. R. M. S. A. K. M. P. Manimaran, "Physiochemical properties of new cellulostic fibers from azadirachta indica plant," *Journal of Natural Fibers,* vol. 15, no. 1, pp. 29-38, 2018.

[100] S. Indran and R. Raj, "Characterization of new natural cellulosic fiber from Cissus quadrangularis stem," *Carbohydrate Polymers,* vol. 117, p. 392–399, 2015.

[101] M. Jawaid, M. Thariq and N. Saba, Mechanical and Physical Testing of Biocomposites, Fibre-Reinforced Composites and Hybrid Composites, A volume in Woodhead Publishing Series in Composites Science and Engineering, 2019.

[102] J. R. Wagner Jr, E. M. Mount III and H. F. Giles Jr, "21 - Testing Properties," in *Extrusion*, Second, Ed., William Andrew applied science publishers, 2014, pp. 241-253.

[103] K. Satyanarayana and F. Wypych, "Characterization ofnatural fibers. In: Fakirov S and Bhattacharyya D (eds)," *Handbook of engineering biopolymers: homopolymers,blends and composites.*, pp. 3-48, 2007.

[104] R. Roy, B. Sarkar and N. Bose, "Behaviour ofe-glass fibre reinforced vinylester resin composites under impact fatigue," *Bulletin of Materials Science,* vol. 24, no. 2, p. 137–142, 2001.

[105] A. A. M. Moshi, D. Ravindran, S. S. Bharathi, S. Indran, S. Saravanakumar and Y. Liu, "Characterization of a new cellulosic natural fiber extracted from the root of Ficus religiosa tree," *International Journal of Biological Macromolecules,* vol. 142, pp. 212-221, 2020.

[106] J. Binoj, E. Raj, V. Sreenivasan and G. R. Thisnavis, "Morphological, Physical, Mechanical, Chemical and Thermal Characterization of Sustainable Indian

Areca Fruit Husk Fibers (Areca Catechu L.) As Potential Alternate for Hazardous Synthetic Fibers," *Journal of Bionic Engineering,* vol. 13, no. 1, pp. 156-165, 2016.

[107] S. M.R, S. Siengchin, J. Parameswaranpillai, M. Jawaid, C. Pruncu and A. Khan, "A comprehensive review of techniques for natural fibers as reinforcement in composites: Preparation,processing and characterization," *Carbohydrate Polymers,* p. 108–121, 2007.

[108] R. Vijay, J. D. J. Dhilip, ,. S. Gowtham, S. Harikrishnan, M. A. Chandru and A. Khan, "Characterization of Natural Cellulose Fiber from the Barks of Vachellia farnesiana," *Journal of Natural Fibers,* pp. 1-11, 2020.

[109] A. Da Silva Moura, R. Demori, R. Leão, C. Crescente Frankenberg and R. Campomanes Santana, "The influence of the coconut fiber treated as reinforcement in PHB (polyhydroxy butyrate) composites.," *Materials Today Communications,* vol. 18, p. 191–198, 2019.

[110] P. G. Baskaran, M. Kathiresan, P. Senthamaraikannan and S. S. Saravanakumar, "Characterization of New Natural Cellulosic Fiber from the Bark of Dichrostachys Cinerea.," *Journal of Natural Fibers,* vol. 15, no. 1, p. 62–68, 2018.

[111] T. Theivasanthi, F. Anne Christma, A. Toyin, G. S. J. And R. Ravichandran, "Synthesis and characterization of cotton fiber based nanocellulose.," *International Journal of Biological Macromolecules,* vol. 109, p. 832–836, 2018.

[112] N. Hyness, N. Vignesh, P. Senthamaraikannan, S. Saravanakumar and M. Sanjay, "Characterization of New Natural Cellulosic Fiber from Heteropogon Contortus Plant.," *Journal of Natural Fibers,* vol. 15, no. 1, p. 146–153, 2018.

[113] S. H. Kamarudin, A. L. Chuah, M. M. Aung and C. T. Ratnam, "Thermal and Structural Analysis of Epoxidized Jatropha Oil and Alkaline Treated Kenaf

Fiber Reinforced Poly(Lactic Acid) Biocomposites," *Polymers*, vol. 12, no. 11, p. 21, 2020.

[114] S. Jayavani, H. Deka, T. O. Varghese and S. K. Nayak, "Recent development and future trends in coir fiber-reinforced green polymer composites: Review and evaluation," *Polymer Composites*, vol. 37, no. 11, pp. 3296 - 3309, 2015.

[115] A. A. Pérez-Fonseca, M. Arellano, D. Rodrigue, R. González-Núñez and J. R. Robledo-Ortíz, "“Effect of coupling agent content and water absorption on the mechanical properties of coir-agave fibers reinforced polyethylene hybrid composites,”," *Polymer Composites,* vol. 37, no. 10, p. 3015–3024, 2016.

[116] B. Neher, R. Hossain and M. Kaniz Fatima, "Study of the Physical, Mechanical and Thermal Properties of Banana Fiber Reinforced HDPE Composites," *Materials Sciences and Applications,* vol. 11, no. 4, pp. 245-262, 2020.

[117] K. Joseph, R. D. T. Filho, B. James, S. Thomas and L. H. D. Carvalho, "A REVIEW ON SISAL FIBER REINFORCED POLYMERCOMPOSITES," *Revista Brasileira de Engenharia Agrícola e Ambiental,* vol. 3, no. 3, pp. 367-379, 1999.

[118] K. Joseph, S. Thomas and C. Pavithran, "“Effect of chemical treatment on the tensile properties of short sisal fibre-reinforced polyethylene composites,”," *Polymer,* vol. 37, no. 23, p. 5139–5149, 1996.

[119] H. Ku, H. Wang, N. Pattarachaiyakoop and M. Trade, "A review on the tensile properties of natural fiber reinforced polymer composites.," *Composites Part B: Engineering,* vol. 42, no. 4, pp. 856-873, 2011.

[120] W. L. Ngo, M. M. Pang, L. C. Yong and K. Y. Tshai, "Mechanical Properties of Natural Fibre (Kenaf, Oil Palm Empty Fruit Bunch) Reinforced Polymer Composites," *Advances in Environmental Biology,* vol. 8, no. 8, pp. 2742-2747, 2014.

[121] K. K. Kumar, P. R. Babu and K. R. Narender Reddy, "Evaluation of Flextural and Tensile Properties of Short Kenaf Fiber Reinforced Green Composites," *International Journal of Advanced Mechanical Engineering,* vol. 4, no. 4, pp. 371-380, 2014.

[122] H. Wei, R. B. Thompson, C. B. Park and P. Chen, "Surface Tension of High Density Polyethylene (HDPE) in Supercritical Nitrogen: Effect of Polymer Crystallization," vol. 354, no. 1-3, pp. 347-352, 2010.

[123] D. K. Means, D. G. Hota, D. E. Johnson and D. R. Liang, "Thermal conductivity characterization of composite materials," College of Engineering and Mineral Resources,West Virginia University, Morgantown, West Virginia, 2006.

[124] N. A. Mohd Radzuan, D. Tholibon, A. B. Sulong, N. Muhamad and C. H. Che Haron, "Effects of High-Temperature Exposure on the Mechanical Properties of Kenaf Composites," *polymers,* vol. 12, no. 8, 2020.

[125] H. Ning, S. B. Pillay, N. Lu and S. Zainuddin, "Natural fiber-reinforced high-density polyethylene composite hybridized with ultra-high molecular weight polyethylene," *Journal of Composite Materials,* vol. 53, no. 15, 2015.

[126] A. Shahzad, "Hemp fiber and its composites – a review," *Journal of Composite Materials,* vol. 46, no. 8, 2011.

[127] S. M. Shahabaz, S. Sharma, N. Shetty, S. Divakara Shetty and G. M.C, "Influence of Temperature on Mechanical Properties and Machining of Fibre Reinforced Polymer Composites: A Review," *Engineered Science,* vol. 16, pp. 26-46, 2021.

[128] D. Pinaki, B. J. Arnold, S. Baruah, S. Chandrasekar and J. Mann, "A New Class of High Performance Metal-Fiber Thermoplastic Composites for Additive Manufacturing," *Composites Part A,* vol. 169, 2023.

[129] M. Younesi and M. E. Bahrololoom, "Effect of temperature and pressure of hot pressing on the mechanical properties of PP–HA bio-composites," *Materials & Design*, vol. 30, no. 9, pp. 3482-3488, 2009.

[130] C. Elanchezhian, B. Vijaya Ramnath, G. Ramakrishnan, M. Rajendrakumar, V. Naveenkumar and M. K. Saravanakumar, "Review on mechanical properties of natural fiber composites.," *materialstoday proceedings*, vol. 5, no. 1, pp. 1785-1790, 2018.

[131] D. G. Seong, C. Kang, S. Y. Pak, C. H. Kim and Y. S. Song, "Influence of fiber length and its distribution in three phase poly(propylene) composites," *Composites Part B: Engineering*, vol. 168, pp. 218-225, 2019.

[132] P. Amuthakkannan, V. Manikandan, T. J. Winowlin Jappes and M. Uthayakumar, "EFFECT OF FIBRE LENGTH AND FIBRE CONTENT ON MECHANICAL PROPERTIES OF SHORT BASALT FIBRE REINFORCED POLYMER MATRIX COMPOSITES," *Materials Physics and Mechanics*, vol. 16, pp. 107-117, 2013.

[133] C. UDAYA KIRAN, G. RAMACHANDRA REDDY, B. M. DABADE and S. RAJESHAM, "Tensile Properties of Sun Hemp, Banana and Sisal Fiber Reinforced Polyester Composites," *Journal of REINFORCED PLASTICS AND COMPOSITES*, vol. 26, no. 10, pp. 1043-1050, 2007.

[134] A. Alavudeen, N. Rajini, S. Karthikeyan, M. Thiruchitrambalam and N. Venkateshwaren, "Mechanical Prop-erties of Banana/Kenaf Fiber-Reinforced Hybrid Polyester Composites: Effect of Woven Fabric and Random Orienta-tion.," *Materials and Design*, vol. 66, pp. 246-257, 2015.

[135] P. B. Anand, A. Lakshmikanthan, M. P. G. Chandrashekarappa, C. P. Selvan, D. Y. Pimenov and K. Giasin, "Experimental Investigation of Effect of Fiber Length on Mechanical, Wear, and Morphological Behavior of Silane-Treated Pineapple Leaf Fiber Reinforced Polymer Composites," *fibers*, vol. 10, no. 7, 2022.

[136] M. R. Sanjay, G. R. Arpitha, L. Laxmana Naik, K. Gopalakrishna and B. Yogesha, "Studies on Mechanical Properties of Banana/E-Glass Fabrics Reinforced Polyester Hybrid Composites," *J. Mater. Environ. Sci.*, vol. 7, no. 9, pp. 3179-3192, 2016.

[137] P. Wambua, J. Ivens and I. Verpoest, "Natural fibres: can they replace glass in fibre reinforced plastics?," *Composites Science and Technology*, vol. 63, p. 1259–1264, 2003.

[138] K. Oksman, "Mechanical Properties of Natural Fibre Mat Reinforced Thermoplastic," *Applied Composite Materials*, vol. 7, p. 403–414, 2000.

[139] A. M. Radzi, S. M. Sapuan, M. Jawaid and M. R. Mansor, "Water absorption, thickness swelling and thermal properties of roselle/sugar palm fibre reinforced thermoplastic polyurethane hybrid composites," *Journal of Materials Research and Technology*, vol. 8, no. 5, pp. 3988-3994, 2019.

[140] S. Nunna, P. R. Chandra, S. Shrivastava and A. Jalan, "A review on mechanical behavior of natural fiber based hybrid composites," *J Reinf Plast Compos*, vol. 31, no. 11, pp. 759-769, 2012.

[141] R. Jumaidin, S. M. Sapuan, M. Jawaid, M. R. Ishak and J. Sahari, "Thermal, mechanical, and physical properties of seaweed/sugar palm fibre reinforced thermoplastic sugar palm Starch/Agar hybrid composites," *Int J Biol Macromol*, vol. 97, pp. 606-615, 2017.

[142] M. G. Lomelí Ramírez, K. G. Satyanarayana, S. Iwakiri, G. B. De Muniz, V. Tanobe and T. S. Flores-Sahagun, "Study of the properties of biocomposites. Part I. Cassava starch-green coir fibers from Brazil," *Carbohydr Polymer*, vol. 86, no. 4, pp. 1712-1722, 2011.

[143] A. Edhirej, S. M. Sapuan, M. Jawaid and N. I. Zahari, "Cassava/sugar palm fiber reinforced cassava starch hybrid composites: physical, thermal and structural properties," *Int J Biol Macromol*, vol. 101, pp. 75-83, 2017.

[144] J. Sahari, S. M. Sapuan, Z. N. Ismarrubie and M. A. Rahman, "Comparative study of physical properties based on different parts of sugar palm fibre reinforced unsaturated polyester composites," *Key Eng Mater,* vol. 471–472, pp. 455-460, 2011.

[145] A. Ashori and S. Sheshmani, "Hybrid composites made from recycled materials: moisture absorption and thickness swelling behavior," *Bioresour Technol,* vol. 101, no. 12, pp. 4717-4720, 2010.

[146] Y. I. Dimitrienko, "Thermal stresses and heat-mass transfer in ablating composite materials," *International Journal of Heat and Mass Transfer,* vol. 38, no. 1, pp. 139-146, 1995.

[147] E. J. Kansa, H. E. Perlee and R. F. Chaiken, "Mathematical model of wood pyrolysis including internal forced convection including internal forced convection," *Combustion and Flame,* vol. 29, pp. 311-324, 1977.

[148] G. Sakthi Balan, R. Balasundaram, K. Chellamuthu, S. Nandha Gopan, S. Dinesh, V. Vijayan, T. Sathish and S. Rajkumar, "Flame Resistance Characteristics of Woven Jute Fiber Reinforced Fly Ash Filled Polymer Composite," *Journal of Nanomaterials,* vol. 2022, p. 12, 2022.

[149] A. R. HORROCKS and B. K. KANDOLA, "9 - Flammability and fire resistance of composites," *Design and Manufacture of Textile Composites,* pp. 330-363, 2005.

[150] Composite materials handbook, 2002.

[151] K. K. Chawla, Composite Materials Science and Engineering, 3rd ed., 2012.

[152] S. Chin, K. Tee, F. Tong, H. Ong and J. Gimbun, "Thermal and mechanical properties of bamboo fiber reinforced composit," *Materials Today Communications,* 2020.