

Piezoelectric on Natural Fiber Reinforced Epoxy Composite for Wireless Energy Harvesting [†]

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[†] Presented at Materials Chemistry and Physics (Materials Chemistry 2020) - International e-Conference

Received: 16.09.2020; Revised: 20.09.2020; Accepted: 24.09.2020; Published: 27.09.2020

Abstract: Energy harvesting have a variety of application areas such as aircraft, automotive, medical. This energy provides a route for the realization of autonomous and self-powered low power electronic devices, for wireless sensor networks, it eliminates the need for wireless or replacement batteries. The purpose of this paper is to develop and improve the capacity of energy harvesting. In this study, an MFC harvesting elements were laid up with the Natural fiber/epoxy composites that will be fabricated at the fabrication stage, and co-cured in an autoclave that can convert mechanical vibrations to electrical energy will study to supply power a wireless impedance sensor node. Finally, a series of experimental tests will be verified.

Keywords: energy harvesting; MFC; natural fiber; epoxy resin.

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Funding

This research received no external funding.

Acknowledgments

This research has no acknowledgments.

Conflicts of Interest

The authors declare no conflict of interest.