

# Corrigendum

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(57) Abstract :

This study investigates the feasibility and potential of generating electricity using a dynamo motor integrated into shoes. The concept harnesses the mechanical energy produced during the motion of walking or running to drive the rotation of the dynamo's armature. The rotating armature induces electrical energy through electromagnetic induction, which is then stored in batteries or capacitors for subsequent use. The research evaluates the efficiency and effectiveness of this technology, considering factors such as power output, mechanical resistance, and user comfort. Various prototypes of shoe-embedded dynamo motors are designed, built, and tested under different walking and running scenarios to analyze their electricity generation capabilities. The findings demonstrate the viability of the shoe-integrated dynamo motor as a sustainable and eco-friendly energy source. Such a system could potentially power small electronic devices and wearables, offering on-the-go charging solutions and reducing reliance on traditional grid-based electricity. The integration of energy harvesting technologies into footwear represents a promising advancement in the field of portable energy generation, contributing to the development of self-powered wearable electronics and promoting green energy practices.

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