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Impact-driven Broadband Piezoelectric Energy Harvesting: Design and Applications

Guest Editors:

Prof. Dr. Wei-Jiun Su

Department of Mechanical Engineering, National Taiwan University, Taipei 10617, Taiwan

Prof. Dr. Yum Ji Chan

Department of Mechanical Engineering, National Chung Hsing University, Taichung City, Taiwan

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Message from the Guest Editors

The use of energy harvesting as a power source can dramatically reduce the construction and maintenance costs and enable self-powered electronic devices that operate under vibrations and impacts. The property of up-conversion makes impact-based frequency piezoelectric energy harvesting suitable for low-frequency broadband applications over vibration-based piezoelectric energy harvesting. There is much demand for impact-driven high-efficiency piezoelectric harvesters for versatile applications. In this Special Issue, we aim to showcase the state-of-the-art of impact-driven energy harvesting. Potential topics include, but are not limited to:

innovative designs for broadband impact-driven energy harvesting; modeling of and experiments on impact-driven energy harvesting; conditioning circuits for impact-driven energy harvesting; energy storage systems for impact-driven energy harvesters; optimization of impact-driven energy harvesters; efficiency studies of impact-driven energy harvesting; enhancement of the durability of impact-driven energy harvesters; and application-oriented studies on impact-driven energy harvesting.









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Prof. Dr. Marc A. Rosen

Faculty of Engineering and Applied Science, University of Ontario Institute of Technology, Oshawa, ON L1G 0C5, Canada

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