



## Advancing Energy Harvesting Performance and Sustainability of Triboelectric Nanogenerators

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### Message from the Guest Editor

Dear Colleagues,

As we are currently entering into a fourth industrial revolution—an era of ubiquitous, mobile supercomputing, intelligent robots, self-driving cars, and other Internet of Things-based devices—a constant source of electrical energy is needed to keep these devices operational. These energy demands compete with the basic energy demands for daily living, which places exponential pressure on generating energy from traditional sources. Thus, capturing energy through other methods in a safe, cost-effective, efficient, sustainable, and renewable manner is required. Triboelectric nanogenerators, a type of electrostatic-based energy harvester, are able to harvest energy from the ambient environment, such as mechanical motion, and have the potential to fulfill all these roles with the most ease, adaptability, and availability. These energy harvesters have recently undergone significant innovation, such as a drastic increase in the output energy harvested, and have also been utilized in self-powered systems. This Special Issue seeks to showcase research papers and review articles that are focused on developments for higher performance TENG and sustainable TENGs.





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