Special Issue

Piezoelectric Nanogenerators and Its Applications

Message from the Guest Editor

Using portable electronic devices in everyday human life is increasing day by day. To power these devices, we need to recharge the battery every time. There is lot of abundant energy which can be used by converting mechanical energy into electrical energy. Piezoelectric nanogenerators are particularly suitable for this, as they participate in this energy conversion process and help us to get enough power. In this process, electronic devices can be self-powered. Utilizing this advantage, piezoelectric nanogenerators can be used in self-powered mechanical energy harvesting, human health monitoring, human motion sensors, wearable sensors, gas sensors, pacemakers, pH sensors, electronic skin, and much more. There is lot of ongoing research by many research groups all over the world in this field which opens many new research paths if piezoelectric materials can be used to make hybrid composites with other material with different functionality. These composites are especially useful for multifunctional applications. This issue will focus on piezoelectric nanogenerators and their applications in many directions to contribute to and broaden this research field.

Guest Editor

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