Special Issue

Energy Harvesting Systems and Sensors: Materials, Devices, and Applications

Message from the Guest Editor

As a result of the offsetting for worldwide energy demand, energy harvesting systems with electromagnetic, piezoelectric, triboelectric, thermoelectric, and photovoltaic based energy harvesters have rapidly expanded over the past decade in environmental sensors, portable energy generator, wearable/flexible/non-flexible electronics, low-power consumer electronics, and wireless electronic devices while exploring alternative energy sources such as the human body motion, vehicle moving, the wind blowing, and ocean waves etc. Traditional energy harvesting systems and sensors are developed with nanostructures and thin films, and extended to the hybrid structures of electromagnetic, piezoelectric, triboelectric, thermoelectric, and photovoltaic based energy harvesters and sensors. In addition, recent sensor technology is making use of chemical, hazardous, radioactive, and strain sensors without fixed power supply in a wide area of applications ranging from environmental monitoring to medical diagnostics, and smart cities...

Guest Editor

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Deadline for manuscript submissions

closed (31 December 2020)

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Impact Factor 3.3
CiteScore 7.7

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