

Special Issue

Environmental Energy Harvesting for Self-Powered Electronics

Message from the Guest Editor

Environmental energy harvesting has attracted great interest in recent years due to the growing importance of self-powered electronics for the future information and communications technology. Challenges in the field lie in achieving stable and continuous energy generation with high efficiency by harvesting intermittent and fluctuating environmental energy sources. Therefore, this Special Issue is intended for the presentation of new ideas and experimental results in the field of environmental energy harvesting from materials, structures, and devices and its practical use for self-powered electronics. Areas relevant to environmental energy harvesting and its application for self-powered electronics include but are not limited to piezoelectric materials and piezoelectric nanogenerators, piezotronics, piezophotonics, triboelectric materials and nanogenerators, emerging 3rd-generation solar cells and their building blocks, including quantum dots, perovskites, organics, etc. Other types of environmental energy harvesting for self-powered electronics, such as thermoelectric and pyroelectric devices, are also topics of interest.

Guest Editor

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Message from the Editor-in-Chief

As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal Applied Sciences has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

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