Special Issue

Energy Harvesting by Smart Materials

Message from the Guest Editor

Energy harvesting technologies can harvest energy that dissipates in the form of solar radiation, electromagnetic waves, heat, wind, vibration, etc. and convert it into electric energy. Energy harvesting technologies can be classified into four main process: harvesting energy from the environment; converting harvested energy into electric energy; processing the energy in the form of power conversion circuits; and utilizing the power for sensing, communication, etc. Among these four processes, the energy harvesting process is mainly controlled by smart energy materials like photovoltaic, magnetic, thermoelectric, piezoelectric materials and so on. In this Special Issue, we invite submissions exploring the development of smart energy materials related to energy harvesting, but the invitation of submissions is not restricted to materials works. Contributions can focus on converting, processing, and utilizing the harvested energy explained above. Comprehensive reviews and survey works are also welcomed.
Guest editor

Guest Editor

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Deadline for manuscript submissions

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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.

Editor-in-Chief

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