Special Issue

Advances in Energy Harvesting Systems

Message from the Guest Editors

The rise of Internet of Things (IoT) devices and sensors has increased global demand for fossil energy, necessitating a shift to sustainable sources. This transition is crucial for addressing climate change and prioritizing renewables. The integration of autonomous sensors and communication networks significantly impacts the convergence of 6G, Industry 4.0, and the Internet of Everything (IoE). Emerging technologies like wearable sensing offer flexibility and diverse applications, including health monitoring and smart homes. Advanced energy harvesting technologies are essential for enabling reliable wireless communication and sensor networks while reducing costs and environmental impact. Energy harvesting has gained traction as an alternative to batteries, which have limited lifespans. Harnessing ambient energy from light, vibrations, thermal gradients, and radiofrequency waves can power battery-less sensors and low-power devices. This Special Issue of Energies, "Advances in Energy Harvesting Systems," invites submissions on research to system integration, including original articles and reviews that highlight advancements and future potential in energy harvesting.

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Message from the Editor-in-Chief

Energies is an international, open access journal in energy engineering and research. The journal publishes original papers, review articles, technical notes, and letters. Authors are encouraged to submit manuscripts which bridge the gaps between research, development and implementation. The journal provides a forum for information on research, innovation, and demonstration in the areas of energy conversion and conservation, the optimal use of energy resources, optimization of energy processes, mitigation of environmental pollutants, and sustainable energy systems.

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