Special Issue

Energy Harvesters and Self-Powered Sensors for Smart Electronics, 3rd Edition

Message from the Guest Editors

In recent years, we have witnessed the revolutionary innovation and flourishing development of the Internet of Things (IoT), which will further proliferate with the gradual rollout of the fifth-generation (5G) wireless network across the globe. Enabled by the ultrahigh-speed data communication capability of 5G, various IoT systems can be envisioned by linking numerous interrelated electronic devices together in an integrated and interconnected network. Within these complicated and widely distributed systems, energy supply in the IoT era is gradually migrating from a centralized and ordered supply mode towards a mobile and in situ supply. Compared to current battery technology, energy-harvesting technologies that scavenge available energies from the ambient surroundings exhibit great advantages as an energy supply. This Special Issue seeks to showcase research papers and review articles that are focused on advanced developments in the design, fabrication, integration, and application of energy-harvesting technologies, with a particular focus on energy harvesters, nanogenerators, self-powered sensors and systems.

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