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Research on Smart Materials and Self-Powered Nanogenerators Systems

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Message from the Guest Editor

Energy is a fundamental driving force of the global economy, and today, the world energy supply mainly relies on fossil fuels. However, due to the depletion of fossil fuels and the problems of environmental pollution and climate change, the sustainable development of human civilization faces a huge challenge. Therefore, harvesting renewable energies from our ambient environment through the development of micro/nanoscale energy technologies is of great practical value. Nanogenerators, as an effective mechanical energy harvesting technology, provide a promising route to sustainable energy. Developing new smart materials with new nanostructures to be applied in nanogenerator systems is beneficial to the enhancement of the output performance and efficiency of nanogenerators.

Nanogenerators have found major applications in the fields of micro/nanoscale energy, self-powered systems/sensors, blue energy, and high-voltage power sources. This Special Issue on “Advances in Smart Materials and Self-Powered Nanogenerator Systems” aims to cover recent achievements in the fields of smart material applications and nanogenerator-based self-powered systems.



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Special Issue



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Message from the Editor-in-Chief

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