



Polymer-Based Thermoelectric Composites and Flexible Devices

Guest Editor:

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Message from the Guest Editor

This Special Issue focuses on polymer-based thermoelectric composites and flexible devices. Thermoelectric materials offer a way to convert waste heat into electrical power based on the Seebeck effect, and therefore, flexible thermoelectric materials show great potential in generating electric energy for wearable electronics, e.g., sensors, watches, etc. In recent years, there has been a continuously growing interest in the development of polymer-based thermoelectric materials and flexible devices, since the particular features of polymers include having low thermal conductivity, being easy to synthesis, being lightweight, having abundant raw materials, etc. Many strategies, e.g., adjusting the oxidation level of polymers, modulating nanostructures and constitutes of polymer-based thermoelectric materials, and adjusting geometries of thermoelectric devices, were used for enhancing the thermoelectric properties of the polymer-based thermoelectric materials and flexible devices.





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