



Advanced Conductive Polymer Composites

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Message from the Guest Editor

Electrically conductive polymer composites (CPCs) are functional polymer composite materials comprising polymeric components and conductive components. They have exhibited excellent physical properties including high conductivities, tunable electrical properties, mechanical flexibility, and ease of process. CPC materials have been used for various emerging applications, such as sensors, supercapacitors, batteries, photovoltaics, electromagnetic interference shielding materials, biomedical applications, and wearable devices. CPCs can be made when electrically conductive fillers, such as carbon black and metallic particles, are incorporated into the insulating polymer matrix.

This Special Issue focuses on recent progress in advanced CPCs with tunable physical properties and functionalities. Authors are encouraged to submit papers on fabrication, characterization, and properties of advanced CPCs for applications as described above. Experimental and theoretical studies on the recent development of advanced CPCs are welcome in the Special Issue. Authors are encouraged to contribute to the Special Issue by submitting original papers as well as review articles.

