Special Issue

Conductive Polymer Composites

Message from the Guest Editor

This Special Issue focuses on state-of-the-art research on conductive polymer (CP) composites and their applications. In addition to the intrinsic advantages of polymeric materials, such as their processability, light weight, and low cost, CPs can provide electrical conductivity after proper doping processes. Furthermore, the doping levels and oxidation states of CPs are reversible and tunable, which allow CPs to be distinguished from other organic semiconductors. Especially, CPs provide excellent compatibility with various other components, such as inorganics, metals, and carbon nanomaterials, resulting in unexpected synergistic effects from each component. Thus, CP composites have been widely utilized as electrode materials for solar cells, supercapacitors, chemical/biological sensors, thermoelectric (TE) devices, electromagnetic interference (EMI) shielding, anticorrosion coatings, organic transistors, and so forth. Considering the aforementioned trends, demands for CP composites are continuously growing. Accordingly, profound knowledge and deeper understanding of new technologies using CP composites are very important.

Guest Editor

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I would like to invite you to contribute to the success of the journal by sending us your high quality research papers. We would be pleased to welcome you as one of our authors.

Editor-in-Chief

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