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The demand for advanced polymer technologies in the digital world has driven new opportunities and research challenges in the development of novel electroconductive polymeric nanomaterials. In this context, electroconductive polymers have gained great attention in the past several decades due to their interesting electrical, magnetic, and optical properties and the ability to fine-tune their structures and also, therefore, these properties. In particular, conducting polymers are promising candidates for flexible displays. These electronic visual displays, with enhanced flexibility in comparison to flat screen displays, are of heightened interest for incorporation into numerous consumer electronics such as mobile phones, e-readers, and other portable electronic devices.

Considerable research has been conducted with the aim of developing functional electrical electroconductive polymers for the next generation of smart display panels with increased sustainability for portable electronic devices. There are still critical challenges in the development of polymeric nanomaterials that are organic, flexible, stable, sustainable, and electroconductive; thus, more attention is required to ensure these nanocomposites meet all these requirements for use in flexible displays. We hope to bring an inspiring perspective on the development of novel electroconductive polymers in today's digital world with this special issue.

This special issue aims to report the recent development in electroconductive polymeric nanomaterials with novel structure, improved electrical properties, characterization, and their applications in next generation smart electronics devices (e.g., smart display panels). Both original articles and reviews are welcomed.

Potential topics include but are not limited to the following:

- ▶ Synthesis and characterization of electroconductive polymeric nanomaterials
- ▶ Applications of electroconductive polymeric nanomaterials in devices
- ▶ Functional and smart nanomaterials for use in flexible displays
- ▶ Optoelectronics and organic solar cell devices
- ▶ Novel functionalized polymeric nanocomposites for use in portable electronic devices
- ▶ Smart phone displays and electronic paper made from electroconductive polymers
- ▶ Flexible Organic Light Emitting Display (FOLED)
- ▶ Intrinsically electrical conducting polymers and their applications in new technology

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Papers are published upon acceptance, regardless of the Special Issue publication date.

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