



## Electrical and Magnetic Properties of Polymers and Polymer Composites

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### Message from the Guest Editors

At present, more and more plastic materials with special electric and magnetic properties are being revealed as smart alternatives of other, more conventional materials such as ceramics or metals. Apart from polymers with intrinsic electric properties, or intrinsic magnetic properties, polymer matrix composite materials may offer a wider range of properties depending not only on the nature of the fillers used but also on the composition. Attending the particular properties provided by polymer-based materials, the new world that can be opened in terms of applications is evident when special electrical and magnetic properties are required: sensors, actuators, thermistors, high  $k$  materials for supercapacitors, printed electronic circuits, and materials for energy harvesting and electromagnetic shielding applications, among others. For all this, this Special Issue is aimed at the preparation and characterization of new polymers and polymer-based materials with electric or magnetic properties





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