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Recent Advancement in Functional Polymers and Composites for Health and Environment Monitoring

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Message from the Guest Editor

Dear Colleagues,

Conductive polymers, as polythiophenes, and polymer composites, as graphene-loaded polymers, have recently attracted researchers and encouraged the development and investigation of specific functionalities that are to be exploited in a new generation of sensors. This offer concerns the growing demand for low-cost, ultra-sensitive, easy-to-integrate sensors for health (physical, chemical, and biological parameters) and environment (aqueous medium, gases, and vapors) monitoring. Polymers provide enormous advantages in terms of cost and processability, since they are produced in high volume at a reasonable, low cost and, historically, have been employed easily in large-scale productions. The nature of polymers confers to these materials a wide range of capability, since molecules can be tailored for a specific interaction and function in order to achieve selectivity, wettability, high response, and proper transduction characteristics.

In this Special Issue, the recent advancement in functional polymer and related composites with a special focus on the application for health and environment monitoring is considered.

Dr. Simone Luigi Marasso
Guest Editor

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Message from the Editor-in-Chief

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