Special Issue

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

Message from the Guest Editor

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.

Guest Editor

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Materials (ISSN 1996-1944) was launched in 2008. The journal covers twenty-five comprehensive topics: biomaterials, energy materials, advanced composites, advanced materials characterization, porous materials, manufacturing processes and systems, advanced nanomaterials and nanotechnology, smart materials, thin films and interfaces, catalytic materials, carbon materials, materials chemistry, materials physics, optics and photonics, corrosion, construction and building materials, materials simulation and design, electronic materials, advanced and functional ceramics and glasses, metals and alloys, soft matter, polymeric materials, quantum materials, mechanics of materials, green materials, general. Materials provides a unique opportunity to contribute high quality articles and to take advantage of its large readership.

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