Special Issue

New Advances in 3D Printed Material-Based Sensors

Message from the Guest Editor

A new era of innovation in numerous industries has begun as a result of recent significant developments in the field of 3D-printed-material-based sensors. The use of innovative materials, such as graphene and conductive polymers, has resulted in one of the most remarkable advancements in the field, the development of highly sensitive and adaptable sensors. These materials offer improved electrical conductivity and enhanced sensing capabilities, making them ideal for applications in healthcare, environmental monitoring, and robotics. Additionally, improvements in multi-material 3D printing methods have made it possible to integrate numerous sensor components into intricate structures without any visible gaps, increasing design flexibility and customization. In addition, the miniaturization of 3D printing technology has facilitated the creation of small, wearable sensors that can collect health data in real-time and monitor vital signs. These new developments will enable 3D-printed-material-based sensors to transform industries and promote the development of smart technologies.

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Sensors is a leading journal devoted to fast publication of the latest achievements of technological developments and scientific research in the huge area of physical, chemical and biochemical sensors, including remote sensing and sensor networks. Both experimental and theoretical papers are published, including all aspects of sensor design, technology, proof of concept and application. Sensors organizes Special Issues devoted to specific sensing areas and applications each year.

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