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Active Functional Materials and Wearable Applications

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Message from the Guest Editor

Flexible sensors, actuators and electronics have been developed owing to the unique mechanical robustness of functional soft materials that have high flexibility, stretchability and wearability. Diverse approaches to structural design and advanced fabrication technologies enable the development of smart structures and devices (e.g. bulked and prestressed structures, and mesh, coil, sponge and wavy structures) that can be stretched and work stably under mechanical disturbances.

Functional materials for flexible electronics and wearable technologies can be employed in a wide range of applications, including wearable healthcare, flexible displays, solid-state electronics, sensors (e.g. physical and gas sensors), nanogenerators and solar cells that are thin, lightweight, robust, bendable and conformable to human bodies.

This Special Issue highlights and discusses the modern trend of functional materials and their applications for flexible, stretchable and wearable devices, including fundamental research into materials, fabrications and processes, as well as the development of potential flexible and stretchable wearable applications.



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Special Issue



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Message from the Editor-in-Chief

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