Special Issue

Organic-Inorganic Materials and Composites for Flexible and Stretchable Functional Devices

Message from the Guest Editor

Flexibility is one of the major breakthroughs in the world of electronics, enabling new standards in design and functionality for the devices. Therefore, research studies on flexible and stretchable electronics have grown exponentially. Organic and inorganic nanomaterials with their high aspect ratio, enhanced surface-to-volume ratio, and ability to integrate on non-conventional substrates are playing a crucial role in the realization of high-performance flexible functional devices. Investigations have been carried out on synthesis and applications of the aforementioned materials to develop innovative technologies for the manufacturing of advanced flexible devices and systems. The coupling of organic and inorganic materials in a composite structure plays a key role in the synergetic effect and seems to be an effective way to improve the properties of the device. Nanomaterials have also been incorporated in different manufacturing methods of flexible and stretchable structures. This Special Issue focuses on the developing field of flexible and stretchable electronics to show recent achievements and challenges in synthesis and functionalities of organic and inorganic materials.

Guest Editor

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Deadline for manuscript submissions

closed (31 January 2021)

Applied Sciences

an Open Access Journal by MDPI

Impact Factor 2.5
CiteScore 5.5

mdpi.com/si/28009

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As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal Applied Sciences has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

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