Special Issue

Transparent Flexible Optoelectronic Devices

Message from the Guest Editor

Transparent flexible optoelectronics, as an important branch of flexible electronics, is an emerging technology and has attracted increasing attention recently. Transparent flexible optoelectronic devices are not only bendable and stretchable mechanically, but also optically transparent, usually in the visible regime. Therefore, they are more flexible and have potentially much wider applications, compared to traditional optoelectronic devices. However, to make an optoelectronic device both mechanically flexible and optically transparent while maintaining its high performance is quite challenging, requiring novelty in an interdisciplinary way and collaborative efforts of experts in the fields of physics, optics, etc. Accordingly, this Special Issue seeks to showcase research papers, communications, and review articles that focus on: (1) novel designs, fabrication, and characterization of transparent flexible optoelectronic devices with different functionalities; and (2) new developments of applying transparent flexible optoelectronic devices of any kind in consumer electronics, healthcare, smart homes, energy, space, defense, or others.

Guest Editor

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