


Call for papers on special issue “Thin-film materials, devices and carrier dynamics for flexible electronics”

Guest Editor

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Aim & Scope: Flexible electronics have attracted great attention due to their salient features and significant roles in the fields of energy, information, sensing, displays, smart skins, wearable systems, biomedical diagnostics, and artificial intelligence, etc. The past years have witnessed the rapid development of advanced materials and devices for flexible electronics. This special issue aims to collect high quality articles focused on thin-film materials, devices and carrier dynamics in flexible electronics and optoelectronics. It is desirable to search a variety of functional films including metallic, organic, inorganic, hybrid and composite materials for developing different types of flexible transistors, sensors, actuators, photodetectors, photovoltaic devices, light-emitting devices and beyond. It may contain, but not limited to material design, thin-film processing, structure regulation, property optimization, structure-property relationship, device engineering, and potential applications. Meanwhile, fundamental investigations on surface and interface characteristics, energy level alignments, charge and energy transfer processes, device operation mechanisms, and carrier dynamics related with advanced techniques such as ultrafast transient absorption and time-resolved (TR) spectroscopy, are welcome for understanding the thin-film materials and flexible devices.

I kindly invite you to submit a manuscript(s) for this Special Issue. Full papers, communications, and reviews are all welcome.

Keywords: films; functional materials; organic electronics; optoelectronics; flexible devices; solar cells; field-effect transistors; photodetectors; carrier dynamics; wearable applications.

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Subtopics

- 1 Synthesis and characterization of thin-film semiconductors and dielectrics
- 2 Novel electrode materials, interlayers and interface engineering
- 3 Stretchable or self-healing materials and devices
- 4 Flexible device design and electronic/optoelectronic applications
- 5 Charge transfer processes, carrier dynamics and device physics

Deadline for manuscript submissions: 31 December 2020

To submit your manuscript click [here](#). To read author guidelines click [here](#).