



## Flexible Transparent Conductive Films: Design and Applications

Guest Editor:

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### Message from the Guest Editor

Transparent conductive films (TCFs) with a high transparency and high conductivity are essential to the performance of a wide variety of electronic devices. Optoelectronic devices containing TCFs, such as smart watches, bracelets, energy storage, medical electronic devices, touch panels and liquid crystal displays, are used in daily life. Transparent conductive oxides (TCOs) are often used in these optoelectronic devices as the electrodes, the most commonly used within the electronics industry being indium tin oxide (ITO). Its excellent optical transparency and low sheet resistance have extended their use as electrodes in optoelectronic devices, such as solar cell, touch screens and flat panel displays. With the rapid increase in the demand for electronic devices and the development of devices with new features, for example, flexible displays, flexible touch panels, flexible solar cells, flexible transistors and flexible supercapacitors, etc., in order to sustain future demands, various trials must be carried out to develop substitutive films.





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