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New developments in touch sensors for flexible displays

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Abstract:

A touch display, consisting of integrating a display with an on-screen detection array, is an essential component in enabling interaction between people and machines. The breakthroughs in adjustable touchscreen devices are promoting the development and use of programmable electronics in a variety of industries. The creation of new substances and architectures for sensors that sense touch in adaptable displays, especially the use of OLED dynamic displays, has been the focus of numerous studies and developments over the last 10 years. The merits and drawbacks of adaptable touch screens are discussed in this article, along with their architectures and operations. In addition to investigating the most recent advancements in material properties and architectures (such as the ITO, the material graphene steel mesh, carbon nanotubes, metal nanowires, and conductive polymers), complications and potential applications of these methods are also explored.

Keywords:

Flexible display, flexible touch screen, integrated touch, touch sensor