

Ionoskins: Functional Ionic Platforms for Next-Generation Wearable Electronics

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With the rapid growth in the use of elastic artificial intelligence equipment, flexible ionic conductors such as ionoskins provide excellent prospects for the fabrication of wearable electronics. In addition to acquiring different physical characteristics, the ionic movements near the electrode and in the bulk determine the total electrical changes of the ionoskins, which may give crucial insights into an individual's physical activities. Therefore, stretchable, and wearable ionic sensors enable for intimate integration with the human body for monitoring health and fitness that can record/response of mechanical deformation. This talk will present current works on the process of creating two types of sensors: stretchable- and light-emissive pressure-sensitive ionoskins. These types of ionoskin technology will open up new application opportunities in future sensory ionotronics.