Graphene Film Based Wireless and Flexibly Wearable Sensor for Human Joint Angle Measurement

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- A wireless wearable angle sensor based on flexible graphene film microstrip antenna is proposed.
- The flexible graphene film has low density of 1.45 g/cm^3 and high conductivity of 10^6 S/m .
- The graphene sensor has a good positive linear relationship between frequency response and bending angle.
- The graphene sensor has radiation capabilities and can transmit detection information wirelessly.