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Three-dimensional illustration of surface plasmon resonance sensor based on D-shaped photonic crystal fiber coated with gold and graphene. Photonic crystal fiber sensors based on SPR effect are receiving increasing attention because of better merits compared to the conventional prism-type SPR configuration, so that extremely high sensitivity can be obtained. As shown in the figure, the sidepolished D-shaped PCF is coated with composite gold-graphene film. Due to the unique advantages of this structure and plasmonic materials, when the incident light is transmitted in the D-shaped PCF, the free electrons inside the films are more easily excited to generate SPR, realizing optical sensing. This sensor possesses sparkling and immeasurable prospects in hot areas such as environment, chemistry, and biomedicine.

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The color images are shown online.