

# Planar Polymer Optical Waveguide Coated with Metal-Organic Framework for CO<sub>2</sub> Sensing Application

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An easily fabricated planar polymer optical waveguide sensor with metal-organic framework coating for carbon dioxide sensing is demonstrated. The proposed device exhibits good sensitivity, excellent reversibility and rapid response, which are significant towards the further development of gas sensing products for real-world applications such as environmental monitoring and gas detection.

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