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Numerical Analysis of a Temperature Sensor based on the Photonic Band Gap Effect in a Photonic Crystal Fiber

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Highlights

- We investigate the temperature effect on a Photonic Band Gap fiber.
- We report a temperature sensor based on photonic Band Gap.
- PBG's central wavelength is the parameter of interest for our temperature sensing.
- The highest sensitivity of 3.21 ????/°?? was achieved.

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