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Research Article

Photonic Crystal Fiber Temperature Sensor Based on Quantum Dot Nanocoatings

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Abstract

Quantum dot nanocoatings have been deposited by means of the Layer-by-Layer technique on the inner holes of Photonic Crystal Fibers (PCFs) for the fabrication of temperature sensors. The optical properties of these sensors including absorbance, intensity emission, wavelength of the emission band, and the full width at half maximum (FWHM) have been experimentally studied for a temperature range from -40 to 70C° .

Abstract



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