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Sers fiber optic sensor



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In this study, we developed a novel silk fiber for a sensitive optical sensor based on surface-enhanced Raman spectroscopy (SERS).



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Summarised, concerning SERS enhancement, all four preparation methods are principal suitable for producing SERS sensors. Therefore, other aspects must also be considered when choosing the ...



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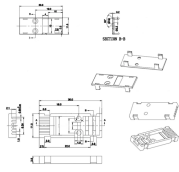
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This review aims to provide a comprehensive overview of fiber-optic SERS sensors, encompassing their fundamental mechanisms, fabrication methodologies, and diverse application ...



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In this work, we present a novel approach for incorporating D-shaped polarization-maintaining photonic crystal fiber (PM-PCF) surface-enhanced Raman scattering (SERS) sensors ...



By the combination of selective adsorption with molecule-specific spectra, SERS is a promising method for chemical sensors with low cross-sensitivities. Fibre-optics can avoid hazardous,...



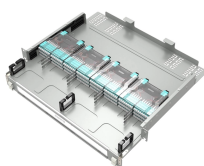
Abstract A fiber optic surface-enhanced Raman spectroscopy (SERS) probe has emerged as a promising solution for remote and label-free chemical ...



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Here, we developed a fiber-optic Surface-enhanced Raman scattering (SERS) probe that enables highly sensitive endotoxin detection with drastically reduced LAL consumption.



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In the present study, the single-step fabrication of fiber-optic SERS sensors was demonstrated by depositing spark ablation-produced Ag NPs onto the tip of an optical fiber.



This review exploits sensing mechanisms including strategies, advancements, and applications of optical fiber-based SERS sensors.

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