

Fiber optic probe and a method for detection of nitro containing compounds by using the same

Abstract:

The present invention provides a fiber optic probe sensor comprising noble metal nanostructures functionalized with nitro specific receptors for detection of nitro containing compounds and a method for its manufacture. In particular, the present invention relates to a method for vapor phase detection of nitro (-NO₂) containing compounds by said probe comprising noble metal nanostructures functionalized with nitro specific receptors, wherein the noble metal nanostructures exhibits Localized Surface Plasmon Resonance (LSPR).

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