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Fe Doped WO₃ Thin films Prepared by Spray Pyrolysis towards Ethanol Sensing

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Abstract : WO_3 and Fe doped WO_3 thin films were deposited on glass substrate using spray pyrolysis technique. The structural properties reveals the crystalline nature with preferred oriented (200) plane along c-axis direction. There is a shift in the band edge towards longer wavelength after Fe incorporation is confirmed from optical properties. Compare to WO_3 , Fe doped WO_3 shows large sensor response towards ethanol.3

Keywords: Fe Doped, WO₃, Thin films, Spray Pyrolysis, Ethanol Sensing.

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