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Experimental investigation of thin metalphthalocyanine layers CuPc, PbPc, NiPc by plasmon resonance method to be applied in NO₂-sensors

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Keywords

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Abstract

The surface plasmon resonance spectroscopy is an optical technique that is capable of monitoring chemical and physical processes. It is sensitive to detect small changes of dielectric properties in a metal-phthalocyanine boundary. For this reason plasmon resonance phenomena have been used to characterize a number of different types of films. This work analyses the possibility of using the surface plasmon resonance phenomena in the detection of gas. Thin films of copper, lead and nickel phthalocyanines have been examined in the plasmon system from the point of view of their application to NO₂ sensors.



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