

Electrical Impedance Response of a Thick-Thin film Hybrid Anodic Nanoporous Alumina Sensor to Methanol Vapors

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Abstract

The response of an anodic aluminum oxide (AAO) nanoporous humidity sensor to an organic vapor such as methanol is presented in this paper. Sensors constructed at Northern Illinois University were exposed to various organic vapors. The characteristic response of the sensor to various vapor dilutions was analyzed using real and complex impedance parameters.