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### Zno Gas Sensor Thin Film prepared by Sol-Gel Dip Coating

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**Abstract:**The preparation of Zinc Oxide thin film with dip coating of gas sensing methods are we discuss in this paper .For sol gel preparation the researcher using Zinc Nitrate hexahydrate ( $Zn(NO_3)_2 \cdot 6H_2O$ ) and organic polymer sodium carboxy methyl cellulose (Na-CMC) as basic material from the size of the prepared thin film varied by XRD, morphology was studied by (FE-SEM) and the gas sensing was studied using acetaldehyde has been tested. The gas sensor parameter such as response selectivity, response/recovery time towards acetone were reported.  
**Keywords:**ZNO, Na-CMC ,Sol- gel dip coating, thin film, acetone alcohol sensors.

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