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Preparation of thin films from conductive polymer PANI and study of their applications as a gas sensor

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Abstract : The aim of this paper is to study the D.C electrical properties of poly aniline and methanol gas . For that purpose, the polyaniline and methanol gas was prepared by drop coating . Noted the decrease in accounts receivable electrical connectivity to all concentrations, this decline was due to the chemical adsorption process occurs that leads to a new links between methanol and poly aniline surface poly aniline which impede molecular particles movement and a clear decreased values appear in the values of connectivity. Increased gas concentrations are most likely, chemical adsorption occurs indoors more and this leads to an increased amount of bonds and interdependencies between gas molecules and molecules of poly aniline thus diminishing in more connectivity. Response of gas methanol gas signifying grabs all the tarnish of sample ions into insulator, when focusing 500ppm.
Key words : Thin films from conductive polymer PANI, gas sensor.

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