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CAPACITANCE-VOLTAGE PROFILING AND CAPACITANCE KINETICS OF THE ITO-NANO-TiO2 GAS-SENSITIVE SAMPLES AT VARIOUS FREQUENCIES

The capacitance-voltage characteristics and measuring of capacitance kinetics were applied for investigation of absorptive response physics of the ITO – nanostructured TiO2 heterojunction. The studies were realized for air and ethanol vapour under various frequencies of probing signal. It was shown that processes of traps recharging are making the most significant contribution to the total capacitance of the studied heterojunction and playing a major role in forming of absorptive response to the ethanol molecules.

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