Contribution ID: **183** Type: **Oral**

ABOUT THE ROLE OF ANTI-REFLECTIVE COATING IN GAS SENSITIVITY OF THE Si-BASED PHOTOVOLTAIC CELLS

The current-voltage characteristics and current kinetics under influence of ethanol at constant applied bias voltage were measured and compared for the Si-based photovoltaic cell with Si3N4 anti-reflective layer and for the uncovered one. It was shown that porous anti-reflective film acts as a barrier for molecules of analyte and its presence leads to decreasing of adsorptive response of the samples as well as prolongation of the response time.

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