## Accepted Manuscript

Title: Preparation and optical characterization of  $\beta$ -MnO<sub>2</sub> nano thin films for application in heterojunction photodiodes

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PII: S0924-4247(17)32027-7

DOI: https://doi.org/10.1016/j.sna.2018.06.003

Reference: SNA 10808

To appear in: Sensors and Actuators A

Received date: 12-11-2017 Revised date: 15-4-2018 Accepted date: 4-6-2018



Please cite this article as: Makhlouf MM, Preparation and optical characterization of β-MnO<sub>2</sub> nano thin films for application in heterojunction photodiodes, *Sensors and Actuators: A. Physical* (2018), https://doi.org/10.1016/j.sna.2018.06.003

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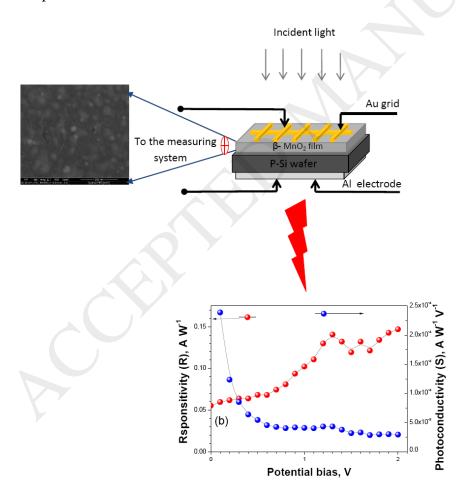
# Preparation and optical characterization of $\beta$ -MnO<sub>2</sub> nano thin films for application in heterojunction photodiodes

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